KRINO®
CUTTING TOOLS



CATALOGO GENERALE

GENERAL CATALOG - CATALOGUE GÉNÉRAL - CATÁLOGO GENERAL - CATÁLOGO GERAL

2027




KRINO
CUTTING TOOLS



L'INNOVAZIONE È UN'ATTITUDINE

Detto ancora meglio: **l'innovazione è la nostra vera natura**. **Krino** nasce grazie al coraggio e allo spirito imprenditoriale di due soci, il ragioniere Pietro Novati e l'ingegnere Roberto Crippa. **Dal 1982 operiamo nel settore degli utensili** e offriamo una vasta gamma di soluzioni per il **taglio di metalli, legno e edilizia**. Un'esperienza che da oltre quarant'anni riflette la passione per l'innovazione tecnologica: crediamo e investiamo nella selezione di prodotti d'eccellenza offrendo al mercato i migliori utensili. Oggi il nostro catalogo conta circa **20.000 referenze disponibili a magazzino**. Gli elevati standard qualitativi hanno garantito la progressiva affermazione di Krino sul mercato italiano e internazionale fino a evolversi in un vero e proprio gruppo industriale. Krino Group infatti riunisce diverse aziende acquisite nel tempo restando la punta di diamante del gruppo. Grazie all'impegno dei suoi 150 dipendenti, Krino registra una crescita costante del fatturato, garantita da rigorosi controlli qualità, un'evasione degli ordini prossima al 100%, assistenza post-vendita qualificata e consegne rapide. Conquistiamo la fiducia dei nostri clienti con **l'eccellenza dei nostri prodotti** e la manteniamo nel tempo attraverso **affidabilità** e **trasparenza**.

EN ***Innovation is an attitude***

*Even better: **innovation is in our very nature**. **Krino** was founded thanks to the courage and entrepreneurial spirit of two partners, accountant Pietro Novati and engineer Roberto Crippa. We have been **operating in the tool sector since 1982**, offering a wide range of solutions for **cutting metal, wood, and construction**. For over forty years, our experience has reflected our passion for technological innovation: we believe in and invest in selecting products of excellence, offering the market the best tools. Today, our catalog includes approximately **20,000 items available in stock**. High quality standards have ensured Krino's progressive success on the Italian and international markets, evolving into a true industrial group. The Krino Group brings together several companies acquired over time, remaining the spearhead of the group. Thanks to the commitment of its 150 employees, Krino has seen steady growth in turnover, guaranteed by rigorous quality controls, order fulfillment close to 100%, qualified after-sales service, and fast deliveries. We win the trust of our customers with the **excellence of our products** and maintain it over time through **reliability** and **transparency**.*

FRA ***L'innovation est une attitude***

*Mieux encore : **l'innovation est notre véritable nature**. **Krino** est née grâce au courage et à l'esprit d'entreprise de deux associés, le comptable Pietro Novati et l'ingénieur Roberto Crippa. **Depuis 1982, nous opérons dans le secteur des outils** et proposons une large gamme de solutions pour la **coupe des métaux, du bois et la construction**. Une expérience qui, depuis plus de quarante ans, reflète notre passion pour l'innovation technologique : nous croyons et investissons dans la sélection de produits d'excellence en proposant les meilleurs outils sur le marché. Aujourd'hui, notre catalogue compte environ **20 000 références disponibles en stock**. Les normes de qualité élevées ont garanti l'affirmation progressive de Krino sur le marché italien et international, jusqu'à devenir un véritable groupe industriel. Le groupe Krino regroupe en effet plusieurs entreprises acquises au fil du temps, tout en restant le fer de lance du groupe. Grâce à l'engagement de ses 150 employés, Krino enregistre une croissance constante de son chiffre d'affaires, garantie par des contrôles de qualité rigoureux, un taux d'exécution des commandes proche de 100 %, un service après-vente qualifié et des livraisons rapides. Nous gagnons la confiance de nos clients grâce à **l'excellence de nos produits** et la maintenons dans le temps grâce à notre **fiabilité** et notre **transparence**.*

ESP ***La innovación es una actitud***

*Aún mejor: **la innovación es nuestra verdadera naturaleza**. **Krino** nace gracias al coraje y al espíritu emprendedor de dos socios, el contable Pietro Novati y el ingeniero Roberto Crippa. **Desde 1982 operamos en el sector de las herramientas** y ofrecemos una amplia gama de soluciones para el **corte de metales, madera y construcción**. Una experiencia que desde hace más de cuarenta años refleja la pasión por la innovación tecnológica: creemos e invertimos en la selección de productos de excelencia, ofreciendo al mercado las mejores herramientas. Hoy en día, nuestro catálogo cuenta con unas **20 000 referencias disponibles en stock**. Los elevados estándares de calidad han garantizado el progresivo éxito de Krino en el mercado italiano e internacional, hasta convertirse en un auténtico grupo industrial. De hecho, Krino Group reúne a varias empresas adquiridas a lo largo del tiempo, sin dejar de ser la punta de lanza del grupo. Gracias al compromiso de sus 150 empleados, Krino registra un crecimiento constante de su facturación, garantizado por rigurosos controles de calidad, una evasión de pedidos cercana al 100 %, una asistencia posventa cualificada y entregas rápidas. Nos ganamos la confianza de nuestros clientes con la **excelencia de nuestros productos** y la mantenemos a lo largo del tiempo a través de la **fiabilidad** y la **transparencia**.*

PT ***A inovação é uma atitude***

*Melhor ainda: **a inovação é a nossa verdadeira natureza**. A **Krino** nasceu graças à coragem e ao espírito empreendedor de dois sócios, o contabilista Pietro Novati e o engenheiro Roberto Crippa. **Desde 1982, atuamos no setor de ferramentas** e oferecemos uma vasta gama de soluções para o **corte de metais, madeira e construção civil**. Uma experiência que há mais de quarenta anos reflete a paixão pela inovação tecnológica: acreditamos e investimos na seleção de produtos de excelência, oferecendo ao mercado as melhores ferramentas. Hoje, o nosso catálogo conta com cerca de **20.000 referências disponíveis em stock**. Os elevados padrões de qualidade garantiram o progressivo sucesso da Krino no mercado italiano e internacional, evoluindo para um verdadeiro grupo industrial. O Krino Group reúne várias empresas adquiridas ao longo do tempo, continuando a ser a ponta de lança do grupo. Graças ao empenho dos seus 150 funcionários, a Krino regista um crescimento constante do volume de negócios, garantido por rigorosos controlos de qualidade, um cumprimento das encomendas próximo dos 100%, assistência pós-venda qualificada e entregas rápidas. Conquistamos a confiança dos nossos clientes com a **excelência dos nossos produtos** e mantemo-la ao longo do tempo através da **fiabilidade** e **transparência**.*



DA OLTRE QUARANT'ANNI IN CONTINUA CRESCITA

1982
Fondazione Krino
Krino Foundation

1997
Fondazione Ineco
Ineco Foundation

2002
Certificazione ISO
ISO Certification

2009
Nuova sede Krino
New Krino headquarter

2011
Acquisizione LTI
LTI aquisition

2012
Acquisizione Greenband
Greenband aquisition

2021
Acquisizione Martin
Martin aquisition

2023
Bilancio sostenibilità
Sustainability Report

2025
Realizzazione Krino Academy
Krino Academy Project

2026
Krino on Tour
Krino on Tour

Da oltre quarant'anni Krino cresce ed evolve mantenendo salda la propria identità e una visione orientata al futuro. Innovazione, qualità, integrità e attenzione concreta alle esigenze del cliente guidano ogni scelta quotidiana, con l'obiettivo di continuare a crescere come gruppo industriale di riferimento nel settore degli utensili. Questa filosofia si riflette anche nella presenza attiva sul territorio attraverso **"Krino on Tour"**, il progetto sviluppato insieme al pick-up brandizzato Krino/LTI operativo dall'inizio del 2025. Con circa 20 appuntamenti annuali tra eventi, open house e dimostrazioni pratiche, Krino porta il brand direttamente sul campo, creando un contatto diretto con professionisti, rivenditori e operatori del settore.
Un approccio dinamico e concreto che rafforza relazione, fiducia e competenza tecnica.

EN MORE THAN FORTY YEARS OF CONTINUOUS GROWTH

*For over forty years, Krino has grown and evolved while maintaining a strong sense of identity and a forward-looking vision. Innovation, quality, integrity, and a concrete focus on customer needs guide every daily decision, with the goal of continuing to grow as a leading industrial group in the tooling sector. This philosophy is also reflected in the company's active presence in the field through "**Krino on Tour**," a project developed in conjunction with the Krino/LTI-branded pickup truck, which has been in operation since early 2025. With approximately 20 annual events, including trade shows, open houses, and hands-on demonstrations, Krino brings the brand directly to the field, establishing direct contact with professionals, dealers, and industry operators. This dynamic and practical approach strengthens relationships, trust, and technical expertise.*

FRA PLUS DE QUARANTE ANS DE CROISSANCE CONSTANTE

*Depuis plus de quarante ans, Krino se développe et évolue tout en conservant une identité forte et une vision tournée vers l'avenir. Innovation, qualité, intégrité et attention concrète aux besoins du client guident chaque choix quotidien, dans le but de continuer à se développer en tant que groupe industriel de référence dans le secteur de l'outillage. Cette philosophie se reflète également dans la présence active sur le terrain à travers « **Krino on Tour** », le projet développé en collaboration avec le pick-up aux couleurs de Krino/LTI, opérationnel depuis le début de l'année 2025. Avec environ 20 rendez-vous annuels entre événements, journées portes ouvertes et démonstrations pratiques, Krino met la marque directement sur le terrain, créant un contact direct avec les professionnels, les revendeurs et les acteurs du secteur. Une approche dynamique et concrète qui renforce les relations, la confiance et la compétence technique.*

ESP MÁS DE CUARENTA AÑOS DE CRECIMIENTO CONSTANTE

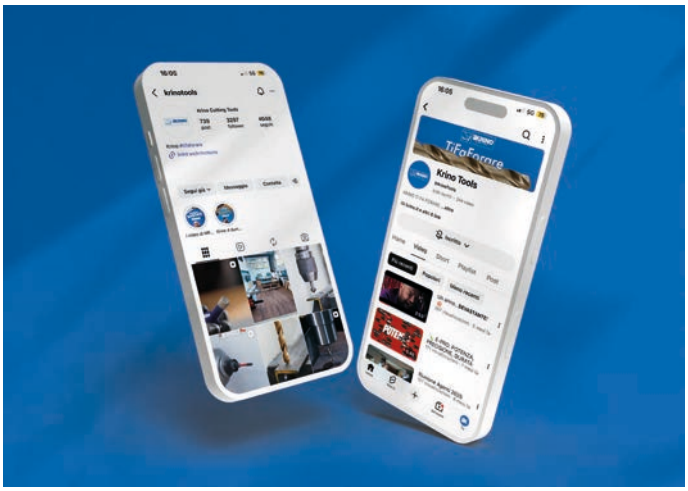
*Desde hace más de cuarenta años, Krino crece y evoluciona manteniendo firme su identidad y una visión orientada al futuro. La innovación, la calidad, la integridad y la atención concreta a las necesidades del cliente guían cada decisión diaria, con el objetivo de seguir creciendo como grupo industrial de referencia en el sector de las herramientas. Esta filosofía se refleja también en la presencia activa en el territorio a través de «**Krino on Tour**», el proyecto desarrollado junto con la camioneta con la marca Krino/LTI, operativa desde principios de 2025. Con unas 20 citas anuales entre eventos, jornadas de puertas abiertas y demostraciones prácticas, Krino lleva la marca directamente al terreno, creando un contacto directo con profesionales, distribuidores y operadores del sector. Un enfoque dinámico y concreto que refuerza la relación, la confianza y la competencia técnica.*

PT MAIS DE QUARENTA ANOS DE CRESCIMENTO CONTÍNUO

*Há mais de quarenta anos que a Krino cresce e evolui, mantendo firme a sua identidade e uma visão voltada para o futuro. Inovação, qualidade, integridade e atenção concreta às necessidades do cliente orientam todas as escolhas diárias, com o objetivo de continuar a crescer como grupo industrial de referência no setor das ferramentas. Esta filosofia reflete-se também na presença ativa no território através do «**Krino on Tour**», o projeto desenvolvido em conjunto com a carrinha com a marca Krino/LTI, em funcionamento desde o início de 2025. Com cerca de 20 eventos anuais, entre feiras, open houses e demonstrações práticas, a Krino leva a marca diretamente ao terreno, criando um contacto direto com profissionais, revendedores e operadores do setor. Uma abordagem dinâmica e concreta que reforça a relação, a confiança e a competência técnica.*



LA NOSTRA PRESENZA ANCHE IN DIGITALE



La vicinanza al mercato passa anche attraverso una presenza digitale costante e strutturata. Krino sviluppa quotidianamente la propria comunicazione sui principali canali social — Instagram, LinkedIn, TikTok e YouTube — condividendo novità di prodotto, dimostrazioni applicative, contenuti tecnici ed esperienze dal territorio.
A supporto di questa evoluzione, il nuovo sito web rappresenta un ulteriore punto di riferimento per clienti e distributori: un catalogo online completo, intuitivo e sempre aggiornato, progettato per rendere ancora più semplice e immediato l'accesso all'intera gamma Krino.

@krinotools

EN OUR DIGITAL PRESENCE

Staying close to the market also requires a consistent and well-structured digital presence. Krino actively engages with its audience daily on major social media channels—Instagram, LinkedIn, TikTok, and YouTube—sharing product updates, application demonstrations, technical content, and local insights. To support this evolution, the new website serve as an additional resource for customers and distributors: a comprehensive, intuitive, and constantly updated online catalog designed to make accessing the entire Krino range even easier and more immediate.

ESP NUESTRA PRESENCIA TAMBIÉN EN EL ÁMBITO DIGITAL

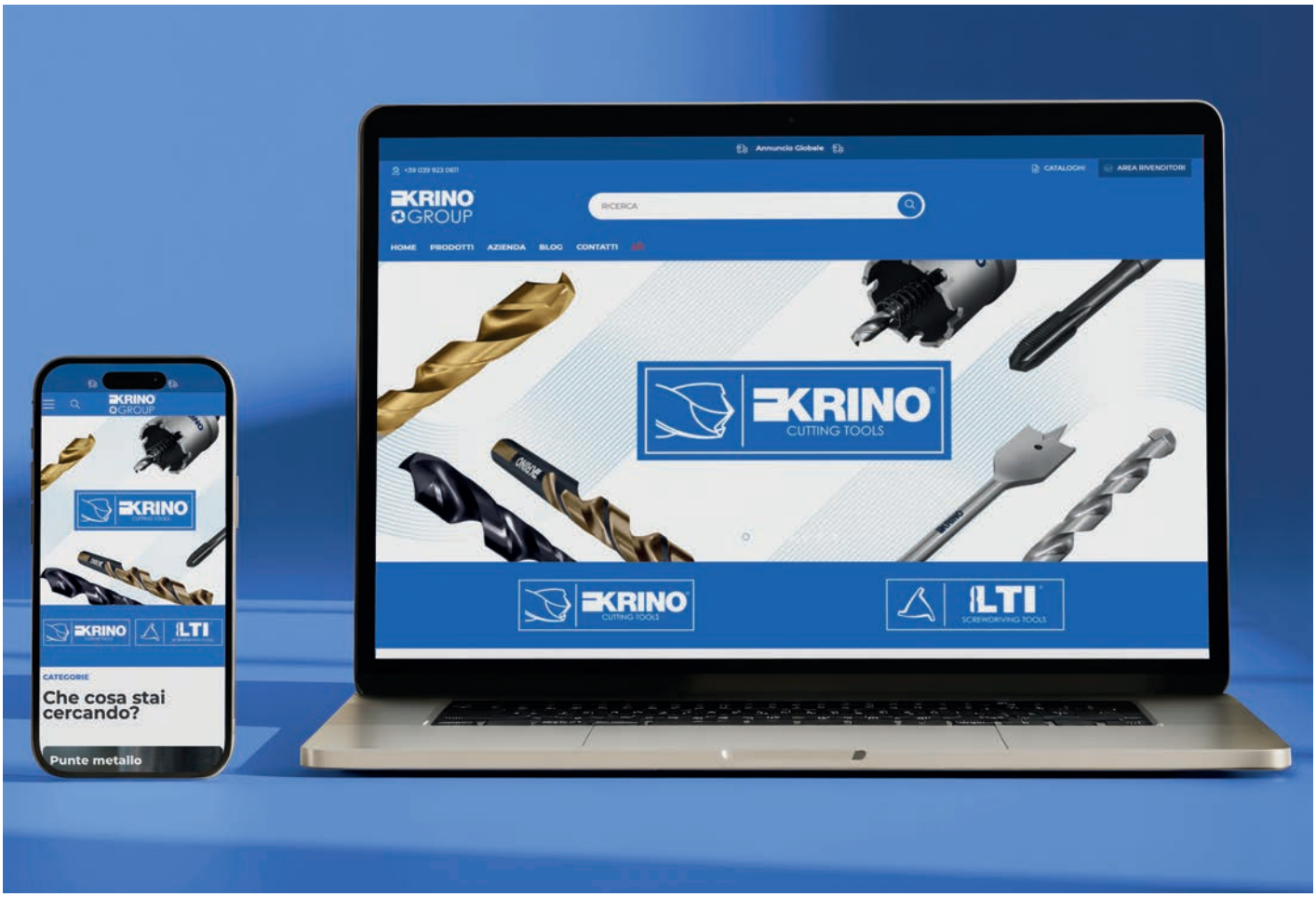
La cercanía al mercado pasa también por una presencia digital constante y estructurada. Krino desarrolla a diario su comunicación en las principales redes sociales —Instagram, LinkedIn, TikTok y YouTube— compartiendo novedades de productos, demostraciones de aplicaciones, contenidos técnicos y experiencias sobre el terreno. Para respaldar esta evolución, la nueva página web representa un punto de referencia adicional para clientes y distribuidores: un catálogo online completo, intuitivo y siempre actualizado, diseñado para que el acceso a toda la gama Krino sea aún más sencillo e inmediato.

FRA NOTRE PRÉSENCE ÉGALEMENT SUR LE WEB

Notre proximité avec le marché passe également par une présence numérique constante et structurée. Krino développe quotidiennement sa communication sur les principaux réseaux sociaux — Instagram, LinkedIn, TikTok et YouTube — en partageant des nouveautés produits, des démonstrations d'application, des contenus techniques et des expériences sur le terrain. Pour accompagner cette évolution, le nouveau site web représente un point de référence supplémentaire pour les clients et les distributeurs : un catalogue en ligne complet, intuitif et toujours à jour, conçu pour rendre l'accès à l'ensemble de la gamme Krino encore plus simple et immédiat.

PT A NOSSA PRESENÇA TAMBÉM NO MUNDO DIGITAL

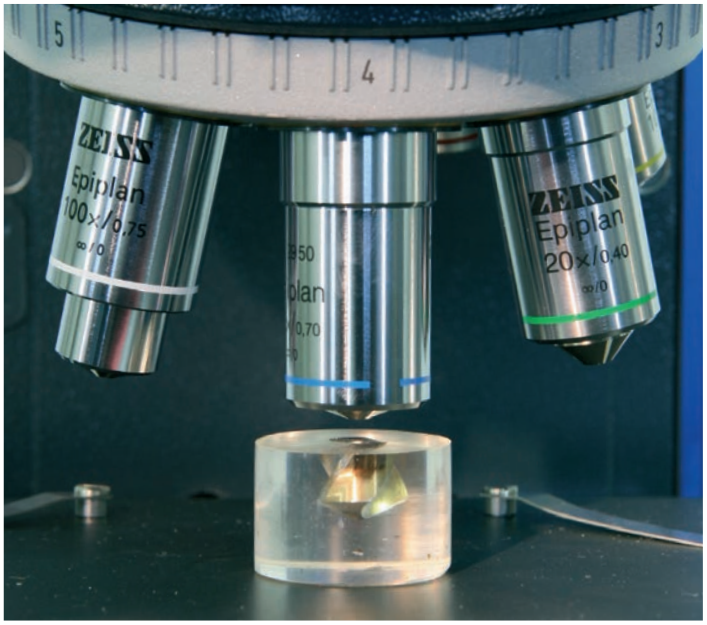
A proximidade com o mercado passa também por uma presença digital constante e estruturada. A Krino desenvolve diariamente a sua comunicação nos principais canais sociais — Instagram, LinkedIn, TikTok e YouTube — partilhando novidades sobre produtos, demonstrações de aplicações, conteúdos técnicos e experiências locais.Para apoiar esta evolução, o novo site representa mais um ponto de referência para clientes e distribuidores: um catálogo online completo, intuitivo e sempre atualizado, concebido para tornar ainda mais simples e imediato o acesso a toda a gama Krino.



COMPETENZA E AFFIDABILITÀ IN OGNI PROGETTO

K-LAB: LA QUALITÀ SI MISURA, NON SI DICHIARA

Alla base dell'affidabilità dei prodotti Krino c'è K-LAB, il laboratorio interno di controllo e analisi che accompagna da sempre ogni fase del processo produttivo.
Analisi chimiche, controlli di durezza, metallografia, metrologia, verifiche di conformità e stress test vengono eseguiti attraverso procedure rigorose e costanti, con l'obiettivo di garantire che ogni referenza rispetti gli standard qualitativi dichiarati.



EN K-LAB: QUALITY SHOULD BE MEASURED, NOT JUST CLAIMED

At the heart of Krino's product reliability lies K-LAB, the in-house testing and analysis laboratory that has always been involved in every stage of the production process. Chemical analyses, hardness tests, metallography, metrology, compliance checks, and stress tests are carried out through rigorous and consistent procedures, with the aim of ensuring that every product meets the declared quality standards.

FRA K-LAB : LA QUALITÉ SE MESURE, ELLE NE SE DÉCLARE PAS

À la base de la fiabilité des produits Krino se trouve K-LAB, le laboratoire interne de contrôle et d'analyse qui accompagne depuis toujours chaque étape du processus de production. Analyses chimiques, contrôles de dureté, métallographie, métrologie, vérifications de conformité et tests de résistance sont effectués selon des procédures rigoureuses et constantes, dans le but de garantir que chaque référence respecte les normes de qualité déclarées.

ESP K-LAB: LA CALIDAD SE MIDE, NO SE DECLARA

La base de la fiabilidad de los productos Krino es K-LAB, el laboratorio interno de control y análisis que acompaña desde siempre cada fase del proceso de producción. Los análisis químicos, los controles de dureza, la metalografía, la metrología, las verificaciones de conformidad y las pruebas de estrés se llevan a cabo mediante procedimientos rigurosos y constantes, con el objetivo de garantizar que cada referencia cumpla con los estándares de calidad declarados.

PT K-LAB: A QUALIDADE SE MEDE, NÃO SE DECLARA

Na base da confiabilidade dos produtos Krino está o K-LAB, o laboratório interno de controle e análise que acompanha, desde sempre, todas as fases do processo produtivo. Análises químicas, controles de dureza, metalografia, metrologia, verificações de conformidade e testes de resistência são realizados por meio de procedimentos rigorosos e constantes, com o objetivo de garantir que cada produto atenda aos padrões de qualidade declarados.che ogni referenza rispetti gli standard qualitativi dichiarati.



KRINO ACADEMY

KRINO ACADEMY: FORMAZIONE CONTINUA PER UNA CRESCITA COSTANTE

Krino Academy è il programma formativo dedicato a rivenditori e distributori, creato per trasferire competenza tecnica, approfondire la conoscenza dei prodotti e supportare concretamente l'attività commerciale. Workshop, presentazioni di novità, dimostrazioni pratiche, webinar, eventi, e talks costituiscono un percorso di formazione pensato per valorizzare il ruolo del rivenditore, trasformandolo in un interlocutore preparato, competente e consapevole. Krino non si limita a vendere utensili ma vuole anche passare il suo know how ai rivenditori e, in ultimo, agli utenti finali.

EN KRINO ACADEMY: TRAINING FOR CONTINUOUS GROWTH

Krino Academy is a training program designed for retailers and distributors, created to impart technical expertise, deepen product knowledge, and provide practical support for business operations. Workshops, product launches, hands-on demonstrations, webinars, events, and talks make up a continuous training program designed to enhance the role of the retailer, transforming them into a knowledgeable, competent, and informed partner. Krino doesn't just sell tools; it also aims to pass on its expertise to retailers and, ultimately, to the end users.

FRA KRINO ACADEMY : FORMATION POUR UNE CROISSANCE CONTINUE

Krino Academy est le programme de formation dédié aux revendeurs et aux distributeurs, conçu pour transmettre des compétences techniques, approfondir la connaissance des produits et soutenir concrètement l'activité commerciale. Ateliers, présentations de nouveautés, démonstrations pratiques, webinaires, événements et conférences constituent un parcours de formation conçu pour valoriser le rôle du revendeur, en faisant de lui un interlocuteur préparé, compétent et averti. PoKrino ne se contente pas de vendre des outils, mais souhaite également transmettre son savoir-faire aux revendeurs et, en fin de compte, aux utilisateurs finaux.

ESP KRINO ACADEMY: FORMACIÓN PARA UN CRECIMIENTO CONSTANTE

Krino Academy es el programa de formación dirigido a minoristas y distribuidores, creado para transmitir conocimientos técnicos, profundizar en el conocimiento de los productos y apoyar de forma concreta la actividad comercial. Talleres, presentaciones de novedades, demostraciones prácticas, seminarios web, eventos y charlas conforman un itinerario de formación diseñado para valorizar el papel del distribuidor, convirtiéndolo en un interlocutor preparado, competente y bien informado. Krino no se limita a vender herramientas, sino que también quiere transmitir sus conocimientos a los distribuidores y, en última instancia, a los usuarios finales.

PT KRINO ACADEMY: FORMAÇÃO PARA UM CRESCIMENTO CONSTANTE

A Krino Academy é o programa de formação dedicado a revendedores e distribuidores, criado para transmitir conhecimentos técnicos, aprofundar o conhecimento dos produtos e apoiar concretamente a atividade comercial. Workshops, apresentações de novidades, demonstrações práticas, webinars, eventos e palestras constituem um percurso de formação concebido para valorizar o papel do revendedor, transformando-o em um interlocutor preparado, competente e informado. A Krino não se limita a vender ferramentas, mas também deseja transmitir seu know-how aos revendedores e, por fim, aos usuários finais.

I NOSTRI IDEALI CON UNO SGUARDO AL FUTURO



Abbiamo installato pannelli solari sugli edifici aziendali e piantato oltre 6.000 alberi, rafforzando il nostro impegno concreto per la tutela dell'ambiente e uno sviluppo sostenibile.

Krino ha ottenuto la certificazione per la parità di genere, un passo importante che riflette il nostro impegno a costruire un ambiente di lavoro inclusivo, equo e capace di valorizzare le persone in ogni ruolo.

Nel nostro settore, Krino si distingue per avere un Codice Etico e una commissione paritetica interna. Rispetto, sicurezza e sostenibilità sono alcuni dei valori su cui costruiamo rapporti di fiducia con clienti, fornitori e collaboratori.

EN OUR IDEALS WITH AN EYE TO THE FUTURE

We have installed solar panels on our company buildings and planted over 6,000 trees, reinforcing our concrete commitment to environmental protection and sustainable development.

Krino has obtained gender equality certification, an important step that reflects our commitment to building an inclusive, equitable work environment that values people in every role.

In our sector, Krino stands out for having a Code of Ethics and an internal joint committee. Respect, safety, and sustainability are some of the values on which we build relationships of trust with customers, suppliers, and employees.

FRA NOS IDÉAUX AVEC UN REGARD VERS L'AVENIR

Nous avons installé des panneaux solaires sur les bâtiments de l'entreprise et planté plus de 6 000 arbres, renforçant ainsi notre engagement concret en faveur de la protection de l'environnement et du développement durable.

Krino a obtenu la certification pour l'égalité des sexes, une étape importante qui reflète notre engagement à créer un environnement de travail inclusif, équitable et capable de valoriser les personnes dans chaque rôle.

Dans notre secteur, Krino se distingue par son code éthique et sa commission paritaire interne. Le respect, la sécurité et la durabilité sont quelques-unes des valeurs sur lesquelles nous construisons des relations de confiance avec nos clients, nos fournisseurs et nos collaborateurs.

ESP NUESTROS IDEALES CON LA MIRADA PUESTA EN EL FUTURO

Hemos instalado paneles solares en los edificios de la empresa y plantado más de 6000 árboles, reforzando así nuestro compromiso concreto con la protección del medio ambiente y el desarrollo sostenible.

Krino ha obtenido la certificación de igualdad de género, un paso importante que refleja nuestro compromiso con la creación de un entorno de trabajo inclusivo, equitativo y capaz de valorar a las personas en cada puesto.

En nuestro sector, Krino se distingue por tener un Código Ético y una comisión paritaria interna. El respeto, la seguridad y la sostenibilidad son algunos de los valores sobre los que construimos relaciones de confianza con clientes, proveedores y colaboradores.

PT OS NOSSOS IDEIAIS COM OLHAR PARA O FUTURO

Instalamos painéis solares nos edifícios da empresa e plantámos mais de 6000 árvores, reforçando o nosso compromisso concreto com a proteção do ambiente e o desenvolvimento sustentável.

A Krino obteve a certificação de igualdade de género, um passo importante que reflete o nosso compromisso em construir um ambiente de trabalho inclusivo, equitativo e capaz de valorizar as pessoas em todas as funções.

No nosso setor, a Krino destaca-se por ter um Código de Ética e uma comissão paritária interna. Respeito, segurança e sustentabilidade são alguns dos valores sobre os quais construímos relações de confiança com clientes, fornecedores e colaboradores.

CERTIFIED
ISO 9001
PDR 125



Bureau Veritas Certification

KRINO S.R.L.

Via Italia Unita, 21 - 23876 MONTICELLO BRIANZA (LC) - Italy

I siti oggetto di certificazione sono in allegato al presente certificato

Bureau Veritas Italia S.p.A. certifica che il sistema di gestione dell'organizzazione sopra indicata è stato valutato e giudicato conforme ai requisiti della norma di sistema di gestione seguente

ISO 9001:2015

Campo di applicazione

Ricerca, progettazione e produzione di utensili da taglio e utensili per avvitatori.

IAF: 17

Data della certificazione originale:	25-Ottobre-2002
Data di scadenza precedente ciclo di certificazione:	15-Ottobre-2023
Data dell'Audit di certificazione / rinnovo:	18-Luglio-2023
Data d'inizio del presente ciclo di certificazione:	19-Settembre-2023
Soggetto al continuo e soddisfacente mantenimento del sistema di gestione questo certificato è valido fino al:	15-Ottobre-2026

Certificato Numero: IT325196 Versione: 2 Data di emissione: 25-Settembre-2024

ACCREDIA

Indirizzo dell'organismo di certificazione:
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milano, Italia

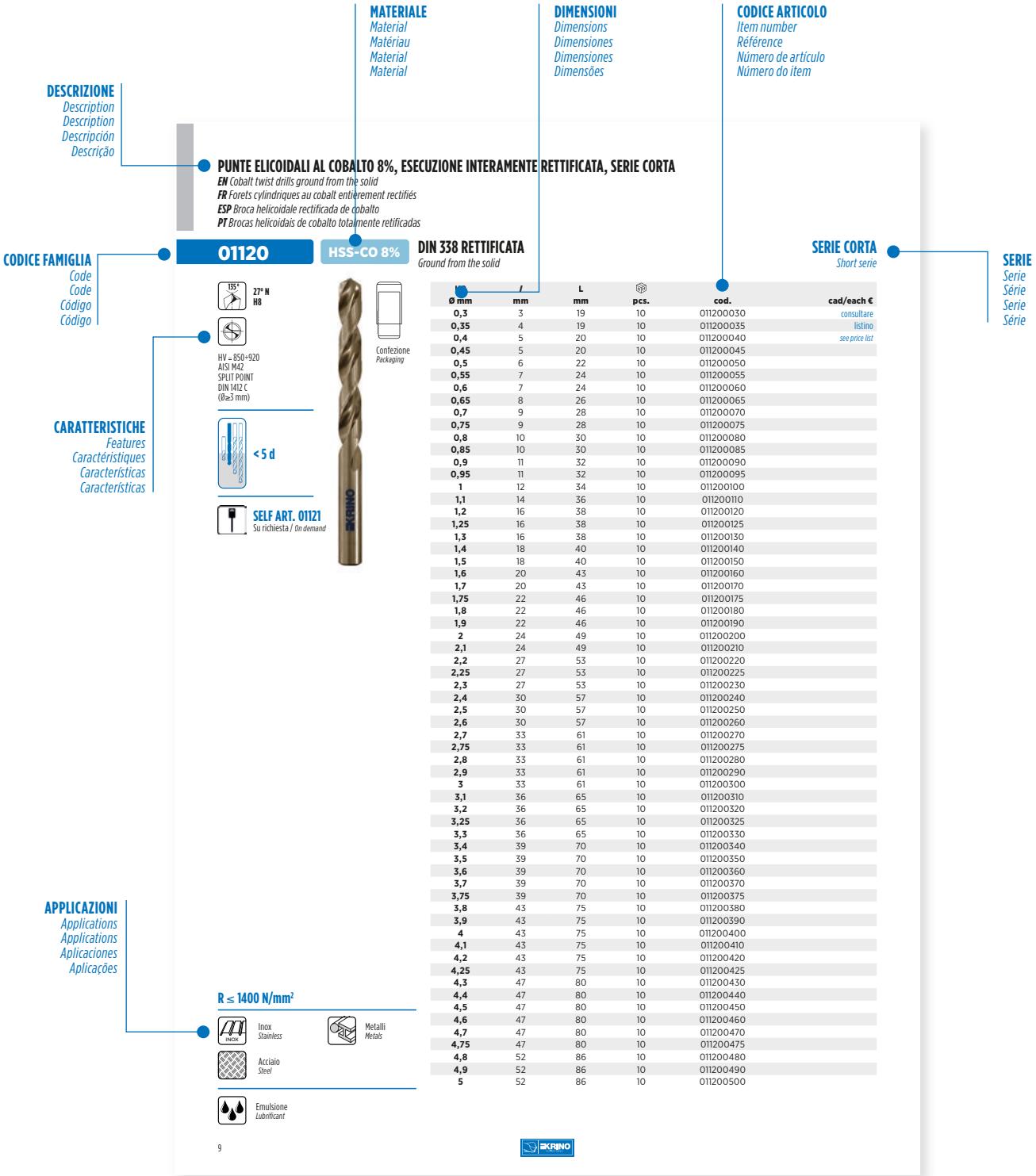
Ulteriori chiarimenti sul campo di applicazione di questo certificato e sui requisiti applicabili della norma del sistema di gestione possono essere ottenuti consultando l'organizzazione.

Per controllare la validità di questo certificato fare doppio click sul QR CODE o scansionarlo con apposita App

1/2

GUIDA ALLA CONSULTAZIONE DEL CATALOGO

EN *Guide to consulting the catalog*
FR *Guide de consultation du catalogue*
ESP *Guía para consultar el catálogo*
PT *Guia para consulta do catálogo*



La struttura schematica della pagina rende la consultazione del catalogo rapida ed immediata anche grazie alla fotografia del prodotto, corredata da codici specifici, dimensioni, caratteristiche, confezionamento base e norme d'impiego. L'operatore è facilitato nell'impiego degli utensili da simboli molto semplici che specificano le effettive capacità e modalità d'uso.

EN *The catalogue is easy to consult, every page has item number, features, packaging and applications to the left side. To the right side appear: size, dimensions, code and gross price. The operator is helped to the tool choice by simple icons showing the real products purpose.*

FRA *La structure schématique de la page permet une consultation rapide et intuitive du catalogue, notamment grâce à la photo du produit, accompagnée des codes spécifiques, des dimensions, des caractéristiques, du conditionnement de base et des consignes d'utilisation. L'utilisation des outils est facilitée pour l'opérateur grâce à des symboles très simples qui précisent les capacités réelles et les modalités d'utilisation.*

ESP *La estructura esquemática de la página permite consultar el catálogo de forma rápida e inmediata, gracias también a la fotografía del producto, acompañada de códigos específicos, dimensiones, características, embalaje básico e instrucciones de uso. El operario puede utilizar las herramientas con mayor facilidad gracias a unos símbolos muy sencillos que especifican las capacidades reales y las modalidades de uso.*

PT *A estrutura esquemática da página torna a consulta do catálogo rápida e imediata, também graças à fotografia do produto, acompanhada de códigos específicos, dimensões, características, embalagem básica e normas de utilização. O operador é auxiliado na utilização das ferramentas por símbolos muito simples que especificam as capacidades efetivas e as modalidades de utilização.*

LEGENDA ICONE

EN *Icons explanation*
FR *Explication des icônes*
ESP *Explicación de los iconos*
PT *Explicação dos ícones*


Acciaio
Steel


Acciaio al manganese
Manganese steel



Alluminio
Aluminum



Ferro
Iron


Ghisa
Cast Iron


Hardox Weldox 400



Inox
Stainless



Leghe leggere
Light alloys


Metalli
Metals


Ottone
Brass



Titanio e superleghe
titanium and nickel based super alloys


Compositi fibrorinforzati (GFRP/CFRP)


Asfalto
Asphalt


Calcestruzzo
Concrete


Calcestruzzo armato
Reinforced concrete


Ceramica
Ceramics


Granito
Granite



Grès porcellanato
Porcelain stoneware


Marmo
Marble


Mattoni
Bricks


Pietre naturali
Natural stones


Tegole
Tiles


Vetro
Glass


Plastica
Plastic


Legno
Wood


Legno con chiodi
Wood with nails


Legno lamellare
Laminated wood


Multistrato
Multilayer


Pallet
Pallet


Sandwich
Sandwich


Truciolato
Chipboard


Pelle
Leather


Materiali abrasivi
Abrasive materials


Colle
Glues



Plexiglass
Plexiglass


Cartone
Carton


Avvitatore
Screwdriver


Avvitatore a impulsi
Impact driver


Trapano
Drill


A colonna
Drill press

SDS Plus

SDS Max

Percussione
Rotary percussion

No percussione
Rotary cut

Roto-percussione
Rotary percussion

Rotazione sinistra/destra
left/right rotation

Truciolo corto
Short chip

Truciolo lungo
Long chip

Olio
Oil

Emulsione
Lubrificant

A secco
dry

Acqua
Water

LAVORARE IN SICUREZZA

EN *Safety works*
FR *Travailler en toute sécurité*
ESP *Trabajar con seguridad*
PT *Trabalhar com segurança*

Notevole e costante cura è stata dedicata alla costruzione dei nostri utensili, una qualità che significa massima efficienza ed, insieme totale sicurezza per gli utilizzatori. Rendimenti elevati si ottengono solo con un corretto utilizzo dell'utensile. Per questo motivo, invitiamo ad una scelta appropriata dell'utensile, prima di intraprendere una qualsiasi operazione di taglio, avvalendosi delle informazioni specifiche contenute nel catalogo, sulle confezioni dei prodotti e della consulenza tecnica diretta dei tecnici aziendali. Un corretto utilizzo significa anche e soprattutto usare sempre tutte le protezioni di sicurezza individuali richiesta dallo specifico lavoro. La vostra salute è un bene prezioso, difendetela.

EN *A special care has been dedicated during the production of our tools, quality means perfect working order and total safety for the hand users. High performance are possible only with the right use of the tools. For this reason we invite you, before starting with any kind of cutting operation to choose the right tool thanks to the information given by this catalogue or on the products packaging and, when necessary directly from our technical staff. Always use the individual safety protections required by the specific work. Your health is precious, protect it!*

FRA *Un grand et constant soin a été dédié à la production de nos outils, qualité signifie efficacité et aussi total sécurité pour les utilisateurs. On peut obtenir des performances élevées seulement avec un correct usage de l'outil. Pour cette raison là, nous Vous invitons, avant d'entreprendre n'importe quel opération de coupe, une choix appropriée de l'outil, en Vous référant aux informations spécifiques contenues dans le catalogue, dans les confections des produits et quand c'est nécessaire en demandant une consultation technique directement à notre staff d'entreprise. Usage correct signifie aussi: utiliser toujours toutes les protections de securité exigées par le travaille spécifique. Votre santé est précieux, protégez-la!*

ESP *Gran atención ha sido dedicada en la construcción de nuestros utensilios, calidad significa máxima eficiencia y total seguridad para los utilizatores. Rendimientos elevados se pueden conseguir solamente con el utilizo correcto de los utensilios. Por esta razón, antes de empezar una operación de corte, elegir el utensilio apropriado gracias a las informaciones contenidas en el catálogo, en el envase de los productos y cuando es necesario preguntando directamente al servicio técnico de la empresa. Utilización correcta es también: utilizar siempre las protecciones de securidad individuales requeridas. Vuestra salud es preciosa, protegedla!*

PT *Foi dedicado um cuidado especial durante a produção das nossas ferramentas, a qualidade significa um funcionamento perfeito e uma segurança total para os utilizadores manuais. Só é possível obter um elevado desempenho com a utilização correta das ferramentas. Por esta razão, convidamo-lo, antes de iniciar qualquer operação de corte, a escolher a ferramenta adequada graças às informações fornecidas neste catálogo ou nas embalagens dos produtos e, quando necessário, diretamente com o nosso pessoal técnico. Utilizar sempre as proteções de segurança individuais exigidas pelo trabalho específico. A sua saúde é preciosa, cuide-se!*

INDICE PER CATEGORIA

EN *Index by category*
FR *Index par catégorie*
ESP *Índice por categoría*
PT *Índice por categoria*

PAGINA 24 - 141
Page

PUNTE PER IL TAGLIO DEI METALLI
Metal cutting twist drills
Forets à métaux
Brocas para metales
Brocas helicoidais para corte de metais



PAGINA 142 - 239
Page

UTENSILI CONICI, FRESE E SEGHE A TAZZA PUNTE A GRADINO E SVASATORI
Conical drill bits, hole cutters and hole saws subland twist drills and countersinks
Forets coniques, fraises, scies trépans, forets étagés
Brocas conicas, fresas y coronas perforadoras, brocas helicoidales y avellanadoras subland
Brocas cónicas, fresas e serras de trépanos brocas helicoidais e escareadores subland



PAGINA 240 - 373
Page

MASCHI E FILIERE
Taps and dies
Tarauds et filiéres
Machos y terrajas
Machos e caçonetes



PAGINA 374 - 471
Page

ALESATORI, FRESE FRONTALI, UTENSILI SALDOBRASATI, FRESE ROTATIVE E LAME DA TAGLIO
Reamers, end mills, brazed tools, rotary burrs and cutting blades
Alésoirs et fraises à rainurer, outils brasés, fraises rotatives et lames de coupe
Escariadores, fresas frontales, herramientas soldadas,fresas rotativas y cuchillas de corte
Alargadores, fresas de topo, ferramentas soldadas, rebarbas rotativas e lâminas de corte



INDICE PER CATEGORIA

EN *Index by category*
FR *Index par catégorie*
ESP *Índice por categoría*
PT *Índice por categoria*

PAGINA 472 - 543

Page

UTENSILI PER MATERIALI EDILI

Building and contruction tools
Outils pour bâtiment
Utensilios para construcción
Ferramentas de construção



PAGINA 544 - 563

Page

UTENSILI PER IL TAGLIO DEL LEGNO

Woodworking tools
Outils à bois
Utensilios para madera
Ferramentas para trabalhar madeira



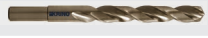
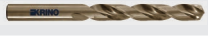
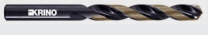
INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

UTENSILI PER IL TAGLIO DEI METALLI
METAL CUTTING TOOLS

VISIONE D'INSIEME: PUNTE PER METALLO CON CODOLO CILINDRICO ED ESAGONALE 1/4" 26
Metal drill bits with cylindrical and 1/4" hexagonal shanks

PUNTE ELICOIDALI - SERIE CORTA
Twist drills - Short serie

cod.		DIN	material	page
01089		338	VHM	28
01120		338	HSS-CO 8%	32
01122		338 CR 10	HSS-CO 8%	34
01123		338 CR 13	HSS-CO 8%	34
01295		338	HSS-E PM TiAlN	36
01140		338	HSS-CO 5%	38
01139		338	HSS-CO 5%	43
01145		338	HSS-CO 5%	44
01147		338 CR 10	HSS-CO 5%	46
01146		338 CR 13	HSS-CO 5%	47
01157		ANSI B94 inches	HSS-CO 5%	51
01320		338 - 118°	HSS-G TiN	52
01160		338	HSS-G TiN	54
01163		338	HSS-G TiN	56
01164		338	HSS-G TiN	56
01162		ANSI B94 inches	HSS-G TiN	59
01321		338	HSS-G TiN	60
01322		ANSI B94 inches	HSS-G TiN	61
01220		338	HSS-G	63
01401		338	HSS-G	65
01406		338	HSS-G	66
01407		ANSI B94 inches	HSS-G	67
01201		338	HSS-G	68
01203		338 CR 10	HSS-G	70
01209		338 CR 13	HSS-G	70
01060		338	HSS-G	72
01062		338	HSS-G	74
01063		338	HSS-G	75
01090		338	HSS-G	76
01070		338	HSS-G	88
01072		338 CR 10	HSS-G	90
01074		338 CR 13	HSS-G	91
01115		ANSI B94 inches	HSS-G	96
01066		338 - 118°	HSS-G	98
01350		338	HSS-G	102

cod.		DIN	material	page
01352		338 CR 10	HSS-G	104
01354		338 CR 13	HSS-G	105
01080		338	HSS-G	108
01082		338 CR 10	HSS-G	110
01084		338 CR 13	HSS-G	110
01001		338	HSS-R	112
01003		338 CR 10	HSS-R	114
01004		338 CR 13	HSS-R	115
01030		ANSI B94 inches	HSS-R	118
01034		338	HSS-R	119
01091		338 - 118°	SPECIAL BRASS	120
01092		338	SPECIAL ALUMINIUM	121

SERIE EXTRA CORTA
Extra short serie

cod.		DIN	material	page
01119		1897	VHM	29
01280		1897	HM HSS	31
01126		1897	HSS-CO 8%	35
01143		1897	HSS-CO 5%	39
01149		1897	HSS-CO 5%	48
01051		NORMA KRINO	HSS-CO 5%	48
01148		-1897	HSS-CO 5%	49
01166		1897	HSS-G TiN	57
01207		1897	HSS-G	71
01094		1897	HSS-G	77
01095		-1897	HSS-G	78
01076		1897	HSS-G	92
01050		NORMA KRINO	HSS-G	93
01077		-1897	HSS-G	94
01022		1897	HSS-G	100
01356		1897	HSS-G	106
01087		1897	HSS-G	111
01018		1897	HSS-R	116

INDICE FOTOGRAFICO

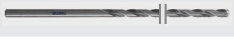
EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

SERIE LUNGA
Long serie

cod.		DIN	material	page
01128		340	HSS-CO 8%	35
01141		340	HSS-CO 5%	40
01152		340	HSS-CO 5%	50
01168		340	HSS-G TiN	58
01208		340	HSS-G	71
01096		340	HSS-G	79
01078		340	HSS-G	95
01358		340	HSS-G	107
01086		340	HSS-G	111
01020		340	HSS-R	117

SERIE EXTRA/SUPER LUNGA
Extra/Super long serie

PARABOLIC

cod.		DIN	material	page
01376		1869/1	HSS-CO 5%	41
01377		1869/2	HSS-CO 5%	41
01378		1869/3	HSS-CO 5%	42
01370		1869/1	HSS-G	84
01371		1869/2	HSS-G	85
01098		1869/1	HSS-G	80
01099		1869/2	HSS-G	81
01100		1869/3	HSS-G	82
01129		NORMA KRINO	HSS-G	83
01105		NORMA KRINO	HSS-G	86
01114		NORMA KRINO	HSS-G	87

GAMBO RINFORZATO E CONICO MORSE
Reinforced shank twist drills and Morse taper shank

cod.		DIN	material	page
01368		6537K	VHM TiAlN	132
01369		6537L	VHM TiAlN	133
01150		345	HSS-CO 5%	134
01097		345	HSS	136
01028		341	HSS	138
01088		1870/1	HSS	139
01025		345	HSS-R	140

UTENSILI CONICI E A GRADINO
Conical and step drill bits

cod.		DIN	material	page
01248		-	HSS-G TiAlN	144
01244		-	HSS-G TiN	144
01240		-	HSS-G	145
01242 01243		-	HSS-G VAPO	146
01249 01250		-	HSS-G TiAlN	147
01236		-	HSS-G TiAlN	148
01230		-	HSS-G TiN	148
01183		-	HSS-G	149
01254		-	HSS-G	150
01176		-	HSS-G C.V.	151
01206		-	HSS-G TiAlN	152
01200		-	HSS-G TiN	152
01180		-	HSS-G	153
01215		-	HSS-G	153

TRAPANI A BASE MAGNETICA
Magnetic drills

cod.		page
28011		158 160 162 164 166 168

VISIONE D'INSIEME: FRESE A CAROTARE
Overview: Core drills 170

FRESE A CAROTARE
Core drills

cod.			material	page
21217 21219		LONG SERIE WELDON	TCT	170
21212		LONG SERIE QUICK-IN	TCT	170
21215		SHORT SERIE WELDON	TCT	170
21207		LONG SERIE WELDON	HSS-CO 5%	170
21211		LONG SERIE QUICK-IN	HSS-CO 5%	170
21206		SHORT SERIE WELDON	HSS-CO 5%	170
21202 21201		LONG SERIE WELDON	HSS M2	170
21200 21199		SHORT SERIE WELDON	HSS M2	170
21213		SHORT SERIE QUICK-IN	HSS M2	170
21218		WELDON	TCT	174

INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

cod.		material	page
21203 21220	SHORT SERIE, WELDON	HSS M2	180
21208 21221	LONG SERIE, WELDON	HSS M2	180
21209	WELDON	HSS M2	181
28015			182
28021			182
28012			182
28013 28014			183
28015 28021			184
28160 28165			185

VISIONE D'INSIEME: FRESE E SEGHE A TAZZA 188
Overview: Hole saws

FRESE PERFORATRICI
Hole saws

cod.		material	page
21047	OPTIMA	TCT	190
21040		TCT	191
21043	TCT	TCT	192
21325		HSS-G TiAlN	193
21300		HSS-G TiN	194
21001		HSS-G	195

SEGHE A TAZZA
Bimetal hole saws

cod.		material	page
21098	MangaCut	TCT	196
21099	MULTCT	TCT	197
05078		TCT	198
21105		MD	199
21090		HSS-CO 8%	200
21058	BIMASTER	HSS M3	203
21060		HSS M3	204
21067		HSS M3	206
21061		HSS M3	208
21069	BLU-MOL®	HSS-CO 8%	209
21065	BLU-MOL®	HSS-CO 8%	210

PUNTE A GRADINO E SVASATORI
Subland twist drills and countersinks

cod.		DIN	material	page
01103		8376 - 180°	HSS	218
01059		8376 - 180°	HSS	218
01104		8377 - 180°	HSS	218
01273		373 - 180°	HSS	219
01274		373 - 180°	HSS	219
01101		8374 - 90°	HSS	220
01058		8374 - 90°	HSS	220
01102		8375 - 90°	HSS	220
01117		8378 - 90°	HSS	221
01057		8378 - 90°	HSS	221
01272		373 - 180°	HSS	221
01110		333/A - 60°	HSS-G	222
01214		333/A - 60°	HSS-G TiN	222
01374		333/A - 60°	HSS-G	222
01112		333/B 60°/120°	HSS-G	223
01217		333/B 60°/120°	HSS-G TiN	223
01111		333/Raggio	HSS-G	223
01361		90°	HM	224
01363		120°	HM	224
01364		90°	HSS-G	224
01365		120°	HSS-G	224
01264		335/C-90°	HM TiAlN	225
01263		335/C-90°	HM	225
01265		335/C-90° asimmetrico	HSS-G	226
01267		335/C-90° asimmetrico	HSS-CO 5%	227
01266		335/C-90° asimmetrico	HSS-G	227
01262		335/C-90°	HSS-CO 5% TiAlN	228
01261		335/C-90°	HSS-CO 5%	228
01260		335/C-90°	HSS-G TiN	229
01185		335/C-90°	HSS-G	230
19003		335/C-90°	HSS-G	231
19001		335/C-90°	HSS-G	231
01193		335/C-90°	HSS-G	232
01196		335/D-90°	HSS-G	232
01192		335/C-90°	HSS-G	233
01188		90°	HSS-G	233
01197		75°	HSS-G	234
01186		335/C-60°	HSS-G	234

INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

cod.		DIN	material	page
01187		335/C-90°	HSS-G	235
01190		40°	HSS-G	235
01169		≃1897	HSS-CO 5% TiN	236
01171		≃1897	HSS-CO 5%	236
01179		-	HM TiAlN	237
01173		-	HSS-CO 5% TiN	237
01172		-	HSS-CO 5%	237
01174		-	HSS-G	238
01175		-	HSS-G	238
03142			HM	239
41001			C.V.	239

VISIONE D'INSIEME: MASCHI A MACCHINA
Overview: Machine taps 242

MASCHI A MACCHINA
Machine taps

cod.		DIN	material	fil/th	p.
10340		371/C	HM	M	247
10460		371/B 376/B	HSS-E PM TiAlN	M	247
10465		371/B 376/B	HSS-E PM TiN	M	248
10466		371/C-40° 376/C-40°	HSS-E PM TiN	M	248
10515		371/B 376/B	HSS-CO 5% VAPO	M	249
10516		371/C-40° 376/C-40°	HSS-CO 5% VAPO	M	249
10504		371/B	HSS-CO 5% VAPO	M	250
10505		376/B	HSS-CO 5% VAPO	M	250
10506		371C-40°	HSS-CO 5% VAPO	M	250
10507		376C-40°	HSS-CO 5% VAPO	M	250
10500		371/B	HSS-CO 5%	M	251
10501		376/B	HSS-CO 5%	M	251
10502		371C-40°	HSS-CO 5%	M	251
10503		376C-40°	HSS-CO 5%	M	251
10510		371/A	HSS-CO 5%	M	252
10511		371/C-40°	HSS-CO 5%	M	252
10512		376/C-40°	HSS-CO 5%	M	252
10508		371/C	HSS-CO 5%	M	253
10509		376/C	HSS-CO 5%	M	253
10297		371/B	HSS-CO 5% VAPO	M	254
10298		376/B	HSS-CO 5% VAPO	M	254
10299		371/C-35°	HSS-CO 5% VAPO	M	254
10300		376/C-35°	HSS-CO 5% VAPO	M	254

cod.		DIN	material	fil/th	p.
10250		371/B	HSS-CO 5%	M	255
10253		376/B	HSS-CO 5%	M	255
10251		371/C	HSS-CO 5%	M	256
10254		376/C	HSS-CO 5%	M	256
10256		371/C-15°	HSS-CO 5%	M	257
10258		376/C-15°	HSS-CO 5%	M	257
10255		371/C-35°	HSS-CO 5%	M	258
10257		376/C-35°	HSS-CO 5%	M	258
10291		371/B	HSS-CO 5%	M	259
10292		371/C-35°	HSS-CO 5%	M	259
10330		371/C-40°	HSS-CO 5%	M	260
10261		371/B	HSS-CO 5%	M	261
10262		376/B	HSS-CO 5%	M	261
10277		371/B	HSS-CO 5%	M	262
10278		376/B	HSS-CO 5%	M	262
10263		371/C	HSS-CO 5%	M	262
10264		376/C	HSS-CO 5%	M	262
10279		371/C-35°	HSS-CO 5%	M	263
10288		376/C-35°	HSS-CO 5%	M	263
10280		2174	HSS-CO 5%	M	264
10360		2174	HSS-CO 5% TiN	M	264
10281		2174	HSS-CO 5%	M	265
10361		2174	HSS-CO 5% TiN	M	265
10310		371/B 376/B	HSS-CO 5%	M	266
10313		371/C-35°	HSS-CO 5%	M	266
10311		371/B 376/B	HSS-CO 5%	M	267
10314		371/C-35° 376/C-35°	HSS-CO 5%	M	267
10312		371/B 376/B	HSS-CO 5%	M	268
10315		371/C-35° 376/C-35°	HSS-CO 5%	M	268
10273		357	HSS-CO 5%	M	269
10290		357	HSS-CO 5%	M	269
10259		374/B	HSS-CO 5%	MF	270
10252		374/C	HSS-CO 5%	MF	271
10260		374/C-35°	HSS-CO 5%	MF	272
10286		374/B	HSS-CO 5%	MF	273
10287		374/C-35°	HSS-CO 5%	MF	274
10268		5156/B	HSS-CO 5%	BSPP	275
10276		5156/C	HSS-CO 5%	BSPP	275
10267		5156C-35°	HSS-CO 5%	BSPP	276
10289		5156/C	HSS-CO 5%	BSPP	276

INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

cod.		DIN	material	fil/th	p.
10265		371/B	HSS-CO 5%	BSW	277
10266		376/B	HSS-CO 5%	BSW	277
10274		371C-35°	HSS-CO 5%	BSW	277
10275		376C-35°	HSS-CO 5%	BSW	277
10293		-	HSS-CO 5%	NPT	278
10308		-	HSS-CO 5%	NPS	279
10309		-	HSS-CO 5%	NPS	279
10306		-	HSS-CO 5%	NPTF	280
10307		-	HSS-CO 5%	NPTF	280
10301		529-2B	HSS-CO 5%	8-UN	281
10305		529	HSS-CO 5%	UNEF	281
10269		ANSI B1.1	HSS-CO 5%	UNC	282
10270		ANSI B1.1	HSS-CO 5%	UNC	282
10271		ANSI B1.1	HSS-CO 5%	UNC	282
10272		ANSI B1.1	HSS-CO 5%	UNC	282
10282		ANSI B1.1	HSS-CO 5%	UNF	283
10283		ANSI B1.1	HSS-CO 5%	UNF	283
10284		ANSI B1.1	HSS-CO 5%	UNF	283
10285		ANSI B1.1	HSS-CO 5%	UNF	283
10162		371/B	HSS-G	M	284
10165		376/B	HSS-G	M	284
10168		371/C	HSS-G	M	285
10171		376/C	HSS-G	M	285
10174		371/C-15°	HSS-G	M	286
10177		376/C-15°	HSS-G	M	286
10183		371/C-35°	HSS-G	M	287
10180		376/C-35°	HSS-G	M	287
10172		529/B	HSS-G	M	288
10173		529/C-35°	HSS-G	M	288
10230		-	HSS-G TiN	M	289
10212		-	HSS-G	M	289
10210		-	HSS-G	M	290
10198		374/C-15°	HSS-G	MF	290
10139		-	HSS-G	BSPT	291
10134		ANSI B2.1	HSS-G	NPT	291

VISIONE D'INSIEME: MASCHI A MANO 294
Overview: Hand taps

MASCHI A MACCHINA
Machine taps

cod.		DIN	material	fil/th	p.
10144		ISO 529 (DIN 352)	HSS-CO 5%	M	296
10146		2181	HSS-CO 5%	MF	297
10148		5157	HSS-CO 5%	BSPP	297
10100		ISO 529 (DIN 352)	HSS-G	M	298
10100		ISO 529 (DIN 352)	HSS-G	M	298
10102		ISO 529 (DIN 352)	HSS-G	M	299
10105		2181	HSS-G	MF	300
10105		2181	HSS-G	MF	300
10107		2181	HSS-G	MF	302
10115		5157	HSS-G	BSPP	303
10117		5157	HSS-G	BSPP	303
10139		-	HSS-G	BSPT	291
10112		2181	HSS-G	BSF	304
10110		352	HSS-G	BSW	305
10111		352	HSS-G	BSW	305
10134		ANSI B2.1	HSS-G	NPT	291
10120		352	HSS-G	UNC	307
10122		352	HSS-G	UNC	307
10125		2181	HSS-G	UNF	308
10127		2181	HSS-G	UNF	308
10136		40432	HSS-G	PG	309
10612		ISO 1/4 H	HSS-G	M+MF	369
10617		-	HSS-G	BSPP	370
10616		-	HSS-G	BSF	370
10615		-	HSS-G	BSW	370
10613		-	HSS-G	UNC	370
10614		-	HSS-G	UNF	370
10620		-	HSS-G	M+MF	369
10001		4535	C.V.	M	310
10030		357	C.V.	M	311
10003		4535	C.V.	M+MF	312
10015		338	C.V.	BSPP	313
10017		6125	C.V.	BSPT	313
10012		2709	C.V.	BSF	313
10010		2709	C.V.	BSW	314
10032		ANSI B2.1	C.V.	NPT	314
10020		ANSI B1.1	C.V.	UNC	315
10025		ANSI B1.1	C.V.	UNF	315

INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

VISIONE D'INSIEME: FILIERE 318
Overview: round dies

FILIERE
Round dies

cod.		DIN	material	fil/th	p.
12144		223	HSS-CO 5%	M	320
12146		223	HSS-CO 5%	MF	320
12148		5158	HSS-CO 5%	BSPP	321
12060		223	HSS-G	M	322
12062		223	HSS-G	M	323
12066		-	HSS-G	M	323
12094		382	HSS-G	M	324
12065		223	HSS-G	MF	326
12072		223	HSS-G	MF	328
12066		-	HSS-G	MF	323
12069		223	HSS-G	MF	329
12096		382	HSS-G	MF	330
12075		5158	HSS-G	BSPP	331
12077		5158	HSS-G	BSPP	331
12098		382	HSS-G	BSPP	332
12089		352	HSS-G	BSPT	332
12087		223	HSS-G	BSF	333
12070		223	HSS-G	BSW	333
12088		223	HSS-G	BSW	334
12091			HSS-G	NPT	334
12080		223	HSS-G	UNC	335
12082		223	HSS-G	UNC	335
12085		223	HSS-G	UNF	336
12086		223	HSS-G	UNF	336
12079		223	HSS-G	UNEF	337

cod.		DIN	material	fil/th	p.
12001		223	C.V.	M	338
12005		223	C.V.	MF	339
12015		223	C.V.	BSPP	340
12017		223	C.V.	BSPT	340
12012		223	C.V.	BSF	341
12010		223	C.V.	BSW	341
12032		223	C.V.	NPT	342
12020		223	C.V.	UNC	342
12025		223	C.V.	UNF	343

cod.		DIN	material	page
15003		1814	-	346
10098		-	-	346
15010 15011		-	-	347
15005 15006		-	-	347
15037 15032		225	-	348
10065		-	-	349
SET		-	HSS-G	350
SET		-	C.V.	354
10600 10605 10631 10606 10625 10607 10608 10609 10610 10604		-	-	359 360 361 365 366 367 368

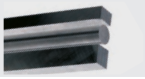
INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

ALESATORI, FRESE E UTENSILI SALDOBRASATI
Reamers, mills and brazed tools

cod.		DIN	material	page
29020 29021		212/2B 212/2C	HSS-CO 5%	376 377
29026		208/B	HSS-CO 5%	378
29039		311	HSS-G	378
29040		219B	HSS-G	379
29001		206B	HSS-G	380
29006 29005		859/B -	HSS-G	381
29010		9B	HSS-G	382

cod.		DIN	material	page
24150 24152 24151 24153			HM HM TiAlN	383
24161 24163 24162 24164 24181 24184			HM HM TiAlN	384 385
24165 24167 24166 24168 24183 24182			HM HM TiAlN	386 387
24169 24171 24170 24172 24174 24175			HM HM TiAlN	388 389
24177 24185 24178 24186 24176			HM TiAlN	390 391
24154 24155		Alu	HM	392
24180 24156		Alu	HM	393
24157 24159 24158 24160 24179			HM HM TiAlN	394 395
24001 24003 24002 24004			HSS-CO 8% HSS-CO 8% TiAlN	396
24009 24011 24010 24012			HSS-CO 8% HSS-CO 8% TiAlN	397
24013 24015 24014 24016			HSS-CO 8% HSS-CO 8% TiAlN	398
24017 24019 24018 24020			HSS-CO 8% HSS-CO 8% TiAlN	399

cod.			page
24021 24023 24022 24024		HSS-CO 8% HSS-CO 8% TiAlN	400
24005 24007 24006 24008		HSS-CO 8% HSS-CO 8% TiAlN	401
24025 24026		HSS-CO 5%	402
24029		HSS-CO 5%	403
26100	 Alu	HSS-G	403
28200 28202 28204 28206 28208 28210 28212 28214 28216 28218 28220 28224 28226			404 - 408
26150 26152 26154		HSS-CO 8%	409
26015 26033 26016 26027 26025 26020 26034 26028 26026		HM HM TiAlN	412 - 423
26001 26003		HSS-G	424

LAME DA TAGLIO
Cutting blades

cod.		DIN	material	page
27080 27081 27082 27083 27084		-	TCT	428 - 435
27090 27092 27095 27094		-	TCT	436 - 442
27055		-	HM	444
27001 27002 27003		-UNI 4012	HSS-DMo5 VAPO	445
27011 27012 27013		-UNI 4012	HSS-CO 5% VAPO	445
26025		-	HM HSS-CO 8% HSS-CO 5%	446
25018			PM - M90	447
25011			HSS-CO 8% - M42	448
25016		Dente rinforzato	HSS-CO 8% - M42	449
25010			HSS-CO 8% - M42	450

INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

cod.		page
23620 23600 23610 23630	Attacco BOSCH®	452 - 455
23710 23720 23700	Attacco BLACK&DECKER®	456 457
23810 23815 23800 23820	Attacco universale SABRE®	458 - 461
23001		462
23010		463
23005		463
23012		463
23305 23310 23315 23300	STARLOCK MADE IN GERMANY	464 - 467
23505 23510 23515 23500 23529	Quick Change Universal	468 - 471

UTENSILI DA TAGLIO PER EDILIZIA
BUILDING AND CONSTRUCTION TOOLS

VISIONE D'INSIEME: PUNTE PER MURO CON CODOLO CILINDRICO — 474
Overview: Masonry drills with Straight shank

PUNTE ELICOIDALI - SERIE CORTA
Twist drills - Short serie

cod.	L		page
03043	Serie corta	GRESMASTER	477
03042	Serie corta	GRES+	479
03109	Serie corta	EXPLOSION	481
03072	Serie corta	K-MAX4	482
03069	Serie corta	SDD	483
03060 03063 03065 03067	Serie corta L = 150 - 200 mm / 6" - 8" L = 400 mm / 16" L = 600 mm / 24"	SUPERIOR	484 485
03001 03005 03009 03011 03015	Serie corta L = 200 mm / 8" L = 300 mm / 12" L = 400 mm / 16" L = 600 mm / 24"	STANDARD	486 487
03076	Serie corta	MULTIK	488
03077	Serie corta	MULTIK	489
03141	Serie corta	PER VETRO E CERAMICA 4 taglienti *Glass and tile 4 edges*	490
03140	Serie corta	PER VETRO E CERAMICA 2 taglienti *Glass and tile 2 edges*	490

VISIONE D'INSIEME: PUNTE PER MURO CON ATTACCO SDS — 492
Overview: Masonry drills with SDS shank

PUNTE PER MURO CON ATTACCO SDS
Masonry drills with SDS shank

cod.			page
03169	SDS-PLUS	HAMMER SDS PLUS	494
03167	SDS-PLUS	4x4 Speedmaster	495
03152	SDS-PLUS	SDS FULL CARB	496
03156	SDS-PLUS	K-8	498
03162	SDS-PLUS	K-4	500
03155	SDS-PLUS	STANDARD	502
03175	SDS-MAX	HAMMER SDS MAX	506
03177	SDS-MAX	V-MAX MM	507
03178	SDS-MAX	V-MAX IN	508
03171	SDS-MAX	PER GRANDI DIAMETRI DA 45 A 80 mm *For big diameters from 45 to 80 mm*	509
03185 03186	SDS-MAX	MINERO	511
03172	SDS-PLUS SDS-MAX	DUST FREE	512
03153	SDS-PLUS		513

cod.		page
03221 03220 03222	SDS-PLUS	514 515
03210 03212	SDS-MAX	516 517
03223 03213	SDS-PLUS SDS-MAX	515 517
21122	Filetto con molla *With spring*	518
21110 21111	M16 M22	520
21015	MD Carbide bit	522
21105	MD Carbide grit	199
21108		199
03119	KERAMASTER PLUS M14	525
03123	KERAMASTER PLUS HEX 1/4" Q.C.	526
03118	KERAMASTER HEX 1/4"	527
03124		528
03121		529

INDICE FOTOGRAFICO

EN *Photographic index*
FR *Index photographique*
ESP *Índice fotográfico*
PT *Índice fotográfico*

cod.		page
03538 03533 03535 03534 03531 03530 03537 03536		534 - 537
03522 03523 03521 03520		538 539
03550 03551 03552 03553		540 541
03611 03612 03610 03613 03623		542 543

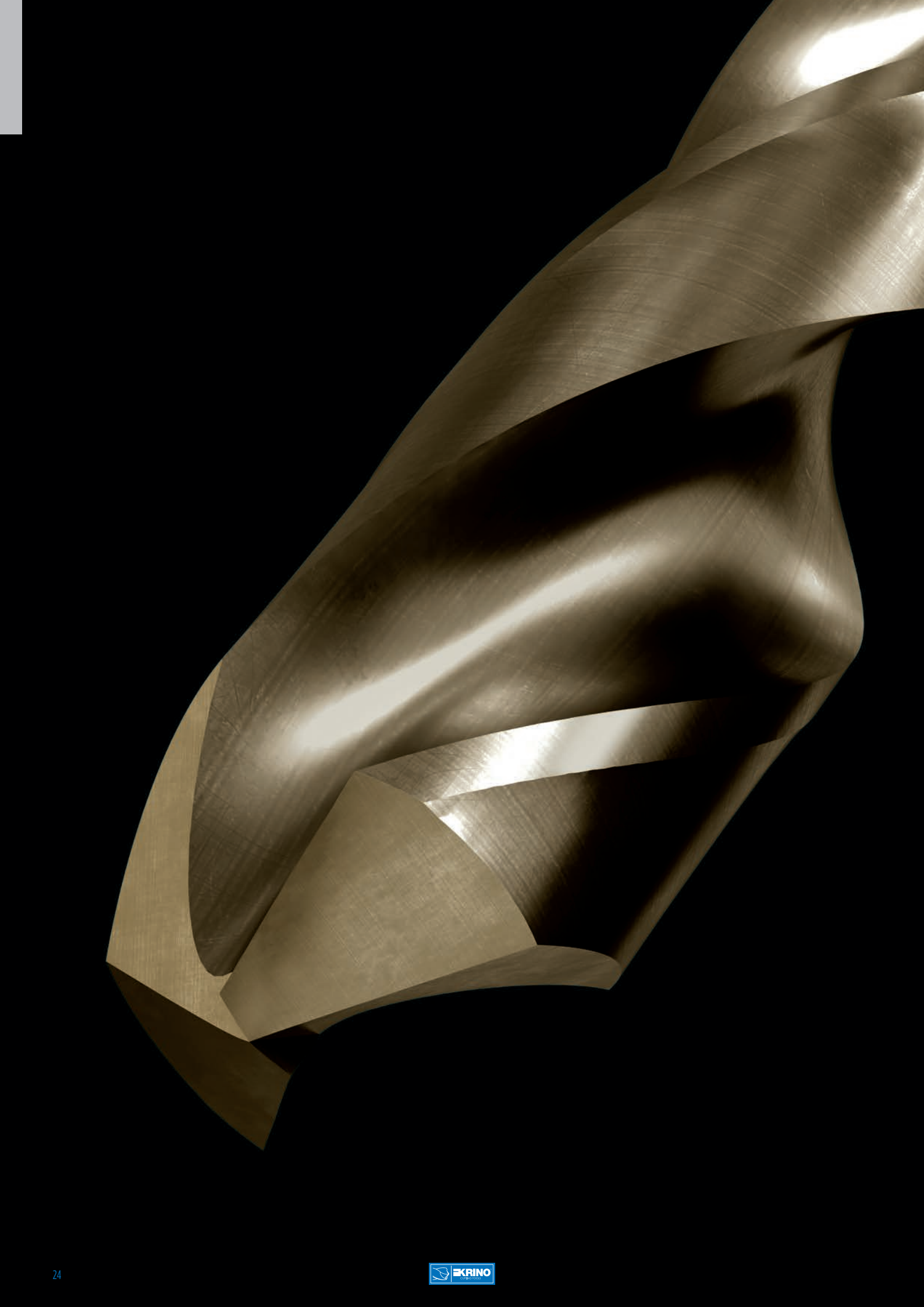
UTENSILI PER TAGLIO DEL LEGNO
WOODWORKING TOOLS

cod.		L	Material	page
05200		Serie corta	HSS-G	546
05008		Serie corta	HSS-G	547
05054			C.V.	548
05210 05212		L = 245 mm (10") L = 400 mm (16")	C.V.	549
05001 05020 05025		Serie corta L = 245 mm (10") L = 400 mm (16")	C.V.	550 551
05035 05036 05040 05042 05044		L = 155 mm (6") L = 235 mm (9-1/4") L = 300 mm (12") L = 460 mm (18-1/8") L = 600 mm (24")	C.V.	552
05037 05038		SDS-PLUS L = 235 mm (9-1/4") L = 460 mm (18-1/8")	C.V.	553
05030 05033		L=400 mm (16") L=600 mm (24")	C.V.	554 555
05056 05057		Serie corta	C.V.	556
05045 05048		Serie corta L = 400 mm (16")	C.V.	557
05046			C.V.	558
05050			C.V.	558
05065			C.V.	559
05067			C.V.	559
05063			C.V.	559

cod.		Material	page
05058 05060		C.V.	560
05077		C.V.	560
05076		C.V.	560
05440		C.V.	561
05070 05072		C.V.	561
05080		C.V.	562
05400		C.V.	563

ACCESSORI
ACCESSORIES

cod.			page
28031 28051 28007 28060 28009 28053 28055 28054 28058		Mandrini autoserranti per elettroutensili *Keyless drill chucks for portable power drills*	566 567
28004 28007 28009 28001 28002 28003		Mandrini a cremagliera *Keyed Drill Chucks*	568 569
28035 28034 28032 28030		Mandrini auto-serranti di precisione per trapani a colonna *Industrial quality keyless drill chucks*	570 571
28186 03184 20010		Raccordi di adattamento per mandrini *Mandrel adapter*	572
28160 28165		Attacchi conici morse per mandrini *Taper drill chuck arbors*	573
28150 28154		Bussole di riduzione per coni morse *Hardened and ground morse taper sleeve*	574
28158		Estrattori per utensili con cono morse *Ejector drifts*	575
20620 20621		**MATECUT** Olio da taglio *Cutting oil*	577





PUNTE PER TAGLIO DEI METALLI

Twist drills for metal cutting

Forets à métaux

Brocas para metales

Brocas helicoidais para corte de metais

VISIONE D'INSIEME: PUNTE PER METALLO CON CODOLO CILINDRICO ED ESAGONALE 1/4"

EN *Overview: Metal drill bits with cylindrical and 1/4" hexagonal shanks*
FR *Aperçu: Forets pour métal à queue cylindrique et hexagonale 1/4"*
ESP *Visión general: Brocas para metal con vástago cilíndrico y hexagonal de 1/4"*
PT *Visão geral: Brocas para metal com veio cilíndrico e hexagonal de 1/4"*

MATERIALE *Material*	RIVESTIMENTO *Coating*	AFFILATURA *Sharpening*	ELICA / TIPO *Helix angle / Type*	IMMAGINE *Image*	HARDOX 400 *Hardox 400*	TITANIO E SUPERLEGHE *Titanium and superalloy*	INOX *Stainless steel*	ACCIAIO *Steel* <1400 N/mm²	ACCIAIO *Steel* <900 N/mm²	ACCIAIO *Steel* <700 N/mm²	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium/alloys*	R≤N/mm²
HM	-	120°	27° N		●	●	●	●	●	●	●	○	1400
HM HSS	-	115°	27° N	MangaCut	●	●	●	●	●	●	●	○	1400
CO8% AISI M42	-	135°	27° N		○	○	●	●	●	●	●	○	1400
HSS-E PM	TiAlN	135°	27° N		○	●	●	●	●	●	●		1400
CO5% AISI M35	-	135°	35° W				●	●	●	●	●	○	1200
	-	135°	36° W				●	●	●	●	●	○	1200
	-	135°	27° N				●	●	●	●	●	○	1200
HSS-G AISI M2	TiN	118°	27° N				●	○	●	●	●	○	900
	TiN	135°	27° N				●	○	●	●	●	○	900
	TiN	135°	27° N				●	○	●	●	●	○	900
	-	135°/90°	27° N	Speedmaster			○	○	●	●	●	○	900
	-	Step Geometry	27° N	STEP+			○	○	●	●	●	○	900
	-	Step Geometry	27° N	STEP+			○	○	●	●	●	○	900
	-	135°	27° N	Dual Performer®			○		●	●	●	○	850
	-	135°	27° N						●	●	●	○	800
	-	135°	27° N						●	●	○	○	800
	-	118°	27° N						●	●	○	○	800
HSS-G	-	135°	27° N							●	○	○	700
	-	135°	27° N							●	○	○	650
HSS-R	-	118°	27° N							●	○	○	650
SPECIAL	-	118°	20° H	*Perfect for* ***BRASS***							●		650
	-	135°	35° W	*Perfect for* ***ALUMINIUM***								●	650

	SERIE CORTA *Short Serie* DIN 338	CODOLO RIDOTTO 10 mm *Reduced Shank* DIN 338	CODOLO RIDOTTO 13 mm *Reduced Shank* DIN 338	SERIE EXTRA CORTA *Extra Short Serie* DIN 1897	SERIE SUPER CORTA *Super Short Series*	ELICA CONTRAPPOSTA *Double Ended* DIN 1897	SERIE LUNGA *Long Serie* DIN 340	SERIE EXTRA LUNGA *Extra Long Serie* DIN 1869	SERIE SUPER LUNGA *Super Long Serie*	SERIE IN POLLICI *Inch Serie* ANSI B94	SERIE IN POLLICI CODOLO RIDOTTO 1/2" *Inch Serie Reduced Shank* ANSI B94
COD.	**01089**			01119							
p.28				p.29							
COD.					**01280**						
					p.31						
COD.	**01120**	01122	01123	01126			01128				
p.31	p.34	p.34	p.35			p.35					
COD.	**01295**										
p.36											
COD.	**01140**			01143			01141	01376-01377 01378			
p.38				p.39			p.40	p.41 - 42			
COD.	**01139**										
p.43											
COD.	**01145**	01147	01146	01149	01051	01148	01152			01157	
p.44	p.46	p.47	p.48	p.48	p.49	p.50				p.51	
COD.	**01320**										
p.52											
COD.	**01160**	01163	01164	01166			01168			01162	
p.54	p.56	p.56	p.57			p.58				p.59	
COD.	**01321**									01322	
p.60										p. 61	
COD.	**01220**										
p.63											
COD.	**01401**										
p.65											
COD.	**01406**									01407	
p.66										p. 67	
COD.	**01201**	01203	01209	01207			01208				
p.68	p.70	p.70	p.71				p.71				
COD.	**01060 01090 sx**	01062	01063	01094		01095	01096	01098-01099 01100	01129-01105 01114		
p.72-76	p.74	p.75	p.77			p.78	p.79	p.80-81-82	p.83-86-87		
COD.	**01070**	01072	01074	01076	01050	01077	01078			01115	
p.88	p.90	p.91	p.92	p.93	p.94	p.95				p.96	
COD.	**01066**			01022							
p.98				p.100							
COD.	**01350**	01352	01354	01356			01358				
p.102	p.104	p.105	p.106				p.107				
COD.	**01080**	01082	01084	01087			01086				
p.108	p.110	p.110	p.111				p.111				
COD.	**01001**	01003	01004	01018			01020			01030	01034
p.112	p.114	p.115	p.116				p.117			p.118	p.119
COD.	**01091**										
p.120											
COD.	**01092**										
p.121											

PUNTE ELICOIDALI CILINDRICHE IN METALLO DURO INTEGRALE PER CENTRI DI LAVORO CNC

EN *Tungsten carbide drill bits for CNC*
FR *Forets en carbure pour CNC*
ESP *Broca de metal duro para CNC*
PT *Brocas de carboneto de tungsténio para CNC*

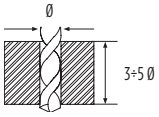
01089 | **VHM** | ≃ **DIN 338 METALLO DURO**
Carbide

SERIE CORTA
Short serie



27° N
H7









Confezione
Packaging

H7 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	1	**010890**100	consultare
1,1	14	36	1	**010890**110	listino
1,2	16	38	1	**010890**120	*see price list*
1,3	16	38	1	**010890**130	
1,4	18	40	1	**010890**140	
1,5	18	40	1	**010890**150	
1,6	20	43	1	**010890**160	
1,7	20	43	1	**010890**170	
1,8	22	46	1	**010890**180	
1,9	22	46	1	**010890**190	
2	24	49	1	**010890**200	
2,1	24	49	1	**010890**210	
2,2	27	53	1	**010890**220	
2,3	27	53	1	**010890**230	
2,4	30	57	1	**010890**240	
2,5	30	57	1	**010890**250	
2,6	30	57	1	**010890**260	
2,7	33	61	1	**010890**270	
2,8	33	61	1	**010890**280	
2,9	33	61	1	**010890**290	
3	33	61	1	**010890**300	
3,1	36	65	1	**010890**310	
3,2	36	65	1	**010890**320	
3,3	36	65	1	**010890**330	
3,4	39	70	1	**010890**340	
3,5	39	70	1	**010890**350	
3,6	39	70	1	**010890**360	
3,7	39	70	1	**010890**370	
3,8	43	75	1	**010890**380	
3,9	43	75	1	**010890**390	
4	43	75	1	**010890**400	
4,1	43	75	1	**010890**410	
4,2	43	75	1	**010890**420	
4,3	47	80	1	**010890**430	
4,4	47	80	1	**010890**440	
4,5	47	80	1	**010890**450	
4,6	47	80	1	**010890**460	
4,7	47	80	1	**010890**470	
4,8	52	86	1	**010890**480	
4,9	52	86	1	**010890**490	
5	52	86	1	**010890**500	
5,1	52	86	1	**010890**510	
5,2	52	86	1	**010890**520	
5,3	52	86	1	**010890**530	
5,4	57	93	1	**010890**540	
5,5	57	93	1	**010890**550	
5,6	57	93	1	**010890**560	
5,7	57	93	1	**010890**570	
5,8	57	93	1	**010890**580	
5,9	57	93	1	**010890**590	

H7 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
6	57	93	1	**010890**600	consultare
6,1	63	101	1	**010890**610	listino
6,2	63	101	1	**010890**620	*see price list*
6,3	63	101	1	**010890**630	
6,4	63	101	1	**010890**640	
6,5	63	101	1	**010890**650	
6,6	63	101	1	**010890**660	
6,7	63	101	1	**010890**670	
6,8	69	109	1	**010890**680	
6,9	69	109	1	**010890**690	
7	69	109	1	**010890**700	
7,1	69	109	1	**010890**710	
7,2	69	109	1	**010890**720	
7,3	69	109	1	**010890**730	
7,4	69	109	1	**010890**740	
7,5	69	109	1	**010890**750	
7,6	75	117	1	**010890**760	
7,7	75	117	1	**010890**770	
7,8	75	117	1	**010890**780	
7,9	75	117	1	**010890**790	
8	75	117	1	**010890**800	
8,1	75	117	1	**010890**810	
8,2	75	117	1	**010890**820	
8,3	75	117	1	**010890**830	
8,4	75	117	1	**010890**840	
8,5	75	117	1	**010890**850	
8,6	81	125	1	**010890**860	
8,7	81	125	1	**010890**870	
8,8	81	125	1	**010890**880	
8,9	81	125	1	**010890**890	
9	81	125	1	**010890**900	
9,1	81	125	1	**010890**910	
9,2	81	125	1	**010890**920	
9,3	81	125	1	**010890**930	
9,4	81	125	1	**010890**940	
9,5	81	125	1	**010890**950	
9,6	87	133	1	**010890**960	
9,7	87	133	1	**010890**970	
9,8	87	133	1	**010890**980	
9,9	87	133	1	**010890**990	
10	87	133	1	**010891**000	
10,2	87	133	1	**010891**020	
10,5	87	133	1	**010891**050	
10,8	94	142	1	**010891**080	
11	94	142	1	**010891**100	
11,5	94	142	1	**010891**150	
12	101	151	1	**010891**200	

CARATTERISTICHE DEL METALLO DURO
Features of Carbide

Il metallo duro è un prodotto sinterizzato costituito principalmente da WC e Co in proporzioni variabili. Da questa proporzione dipendono le caratteristiche specifiche dell'utensile: la qualità a grana fine K20 che usiamo per i nostri prodotti è composta dal 94% di WC e dal restante 6% di Co e presenta una resistenza a rottura di 2200 MPa e una durezza di 91.9 HVA. Tale prodotto è caratterizzato da un'ottima resistenza a usura e da una discreta resistenza a flessione anche se, naturalmente, si consiglia di evitare qualsiasi urto o eccessivo sforzo flettente. Vista l'elevata durezza, l'utensile è infatti discretamente fragile e sensibile a condizioni di lavoro non omogenee. Si consideri poi che il metallo duro è mediamente rigido il doppio rispetto all'acciaio superrapido: pertanto, con punte in metallo duro, si producono di norma fori molto più cilindrici.

The Carbide is produced by sintering of WC and Co powders. The main features of the product depend on the content of these 2 components: we chose K20 fine grain type, which means 94% WC and 6% Co, with 2200 MPa resistance and 91.9 HVA hardness. This product has an excellent wear resistance and a good bending resistance. By the way, it's recommended to avoid any accidental crash, because the product is very hard and thus fragile. The hard metal stiffness is quite double comparing to the high speed steel one: you can drill "very cylindrical" holes with an hard metal tool.

R ≤ 1400 N/mm²


Acciaio al manganese
Manganese steel


Hardox Weldox 400



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Compositi fibrorinforzati (GFRP/CFRP)


Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE IN METALLO DURO INTEGRALE PER CENTRI DI LAVORO CNC

EN *Tungsten carbide drill bits for CNC*
FR *Forets en carbure pour CNC*
ESP *Broca de metal duro para CNC*
PT *Brocas de carboneto de tungsténio para CNC*

01119 | **VHM**

DIN 1897/6539 METALLO DURO
Carbide

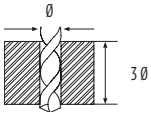
SERIE EXTRA CORTA
Extra short serie



27° N
H7



< 3 d







Confezione
Packaging

H7 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,5	6	26	1	01119**0050**	consultare
0,6	6	26	1	01119**0060**	listino
0,7	6	26	1	01119**0070**	*see price list*
0,8	6	26	1	01119**0080**	
0,9	6	26	1	01119**0090**	
1	6	26	1	01119**0100**	
1,1	7	28	1	01119**0110**	
1,2	8	30	1	01119**0120**	
1,3	8	30	1	01119**0130**	
1,4	9	32	1	01119**0140**	
1,5	9	32	1	01119**0150**	
1,6	10	34	1	01119**0160**	
1,7	10	34	1	01119**0170**	
1,8	11	36	1	01119**0180**	
1,9	11	36	1	01119**0190**	
2	12	38	1	01119**0200**	
2,1	12	38	1	01119**0210**	
2,2	13	40	1	01119**0220**	
2,3	13	40	1	01119**0230**	
2,4	14	43	1	01119**0240**	
2,5	14	43	1	01119**0250**	
2,6	14	43	1	01119**0260**	
2,7	16	46	1	01119**0270**	
2,8	16	46	1	01119**0280**	
2,9	16	46	1	01119**0290**	
3	16	46	1	01119**0300**	
3,1	18	49	1	01119**0310**	
3,2	18	49	1	01119**0320**	
3,3	18	49	1	01119**0330**	
3,4	20	52	1	01119**0340**	
3,5	20	52	1	01119**0350**	
3,6	20	52	1	01119**0360**	
3,7	20	52	1	01119**0370**	
3,8	22	55	1	01119**0380**	
3,9	22	55	1	01119**0390**	
4	22	55	1	01119**0400**	
4,1	22	55	1	01119**0410**	
4,2	22	55	1	01119**0420**	
4,3	24	58	1	01119**0430**	
4,4	24	58	1	01119**0440**	
4,5	24	58	1	01119**0450**	
4,6	24	58	1	01119**0460**	
4,7	24	58	1	01119**0470**	
4,8	26	62	1	01119**0480**	
4,9	26	62	1	01119**0490**	
5	26	62	1	01119**0500**	
5,1	26	62	1	01119**0510**	
5,2	26	62	1	01119**0520**	
5,3	26	62	1	01119**0530**	
5,4	28	66	1	01119**0540**	
5,5	28	66	1	01119**0550**	
5,6	28	66	1	01119**0560**	
5,7	28	66	1	01119**0570**	
5,8	28	66	1	01119**0580**	
5,9	28	66	1	01119**0590**	

H7 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
6	28	66	1	01119**0600**	consultare
6,1	31	70	1	01119**0610**	listino
6,2	31	70	1	01119**0620**	*see price list*
6,3	31	70	1	01119**0630**	
6,4	31	70	1	01119**0640**	
6,5	31	70	1	01119**0650**	
6,6	31	70	1	01119**0660**	
6,7	31	70	1	01119**0670**	
6,8	34	74	1	01119**0680**	
6,9	34	74	1	01119**0690**	
7	34	74	1	01119**0700**	
7,1	34	74	1	01119**0710**	
7,2	34	74	1	01119**0720**	
7,3	34	74	1	01119**0730**	
7,4	34	74	1	01119**0740**	
7,5	34	74	1	01119**0750**	
7,6	36	79	1	01119**0760**	
7,7	36	79	1	01119**0770**	
7,8	36	79	1	01119**0780**	
7,9	36	79	1	01119**0790**	
8	36	79	1	01119**0800**	
8,1	36	79	1	01119**0810**	
8,2	36	79	1	01119**0820**	
8,3	36	79	1	01119**0830**	
8,4	36	79	1	01119**0840**	
8,5	36	79	1	01119**0850**	
8,6	40	84	1	01119**0860**	
8,7	40	84	1	01119**0870**	
8,8	40	84	1	01119**0880**	
8,9	40	84	1	01119**0890**	
9	40	84	1	01119**0900**	
9,1	40	84	1	01119**0910**	
9,2	40	84	1	01119**0920**	
9,3	40	84	1	01119**0930**	
9,4	40	84	1	01119**0940**	
9,5	40	84	1	01119**0950**	
9,6	43	89	1	01119**0960**	
9,7	43	89	1	01119**0970**	
9,8	43	89	1	01119**0980**	
9,9	43	89	1	01119**0990**	
10	43	89	1	01119**1000**	
10,2	43	89	1	01119**1020**	
10,5	43	89	1	01119**1050**	
10,8	47	95	1	01119**1080**	
11	47	95	1	01119**1100**	
11,5	47	95	1	01119**1150**	
12	51	102	1	01119**1200**	
12,5	51	102	1	01119**1250**	
13	51	102	1	01119**1300**	
13,5	54	107	1	01119**1350**	
14	54	107	1	01119**1400**	
14,5	56	111	1	01119**1450**	
15	56	111	1	01119**1500**	
15,5	58	115	1	01119**1550**	
16	58	115	1	01119**1600**	

R ≤ 1400 N/mm²


Acciaio al manganese
Manganese steel


Hardox Weldox 400



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Compositi fibrorinforzati (GFRP/CFRP)


Emulsione
Lubrificant

MangaCut



PUNTA SPECIALE PER ACCIAI TENACI

Indicata per lavorazioni gravose e forature su materiali tenaci, abrasivi e soggetti a incrudimento.

CARATTERISTICHE

- Punta elicoidale TCT con placchetta in carburo di tungsteno ad alta resistenza
- Geometria rinforzata per elevate prestazioni su materiali ad alta durezza
- Ideale per materiali oltre 300 HB e acciai con resistenza fino a 1400 N/mm^2
- Elevata resistenza all'usura, al calore e alle sollecitazioni meccaniche
- Spirale ottimizzata per un'efficace evacuazione del truciolo
- Taglio stabile e preciso anche su materiali soggetti a incrudimento
- Finitura brillante per ridurre attrito e surriscaldamento
- Codolo cilindrico compatibile con trapani manuali, a colonna e macchine utensili
- DIN 8037 – angolo di punta 118°

MATERIALI LAVORABILI

- Acciai al manganese
- Hardox® e acciai antiusura
- Acciai bonificati e ad alta resistenza
- Ghisa
- Molibdeno
- Bronzi duri
- Metalli tenaci e abrasivi

APPLICAZIONI

Specifica per forature impegnative su acciai ad alta tenacità e materiali difficili da lavorare, dove è richiesta elevata resistenza all'usura e massima stabilità di taglio.

EN

SPECIAL DRILL BIT FOR TOUGH STEELS
Designed for heavy-duty drilling operations and drilling in tough, abrasive and work-hardening materials.

FEATURES
•TCT twist drill with high-strength tungsten carbide bit
• Reinforced geometry for superior performance in high-hardness materials
• Suitable for materials above 300 HB and steels with tensile strength up to 1400 N/mm^2
• Excellent wear, heat and mechanical stress resistance
• Optimized flute design for efficient chip evacuation
• Stable and accurate drilling even in work-hardening materials
• Bright finish to reduce friction and overheating
• Straight shank compatible with hand drills, pillar drills and machine tools
• DIN 8037 – 118° point angle

MATERIALS
• Manganese steels
• Hardox® and wear-resistant steels
• Quenched and tempered steels
• High-strength steels
• Cast iron
• Molybdenum
• Hard bronzes
• Tough and abrasive metals

APPLICATIONS
Specifically designed for demanding drilling applications in high-toughness steels and difficult-to-machine materials, where maximum wear resistance and cutting stability are required.

FR

FORET SPÉCIAL POUR ACIERS TENACES
Conçu pour les opérations de perçage intensives sur des matériaux tenaces, abrasifs et sujets à l'écrouissage.

CARACTÉRISTIQUES
• Foret hélicoïdal TCT avec plaquette en carbure de tungstène haute résistance
• Géométrie renforcée pour des performances élevées sur les matériaux à haute dureté
• Convient aux matériaux de plus de 300 HB et aux aciers ayant une résistance jusqu'à 1400 N/mm^2
• Excellente résistance à l'usure, à la chaleur et aux contraintes mécaniques
• Hélice optimisée pour une évacuation efficace des copeaux
• Coupe stable et précise, même sur les matériaux sujets à l'écrouissage
• Finition polie réduisant les frottements et l'échauffement
• Queue cylindrique compatible avec les perceuses portatives, les perceuses à colonne et les machines-outils
• DIN 8037 – angle de pointe de 118°

MATÉRIAUX USINABLES
• Aciers au manganèse
• Hardox® et aciers anti-usure
• Aciers traités et à haute résistance
• Fonte
• Molybdène
• Bronzes durs
• Métaux tenaces et abrasifs

APPLICATIONS
Spécialement conçu pour les opérations de perçage exigeantes dans les aciers à haute ténacité et les matériaux difficiles à usiner, où une excellente résistance à l'usure et une stabilité maximale de coupe sont indispensables.

ESP

BROCA ESPECIAL PARA ACEROS TENACES
Indicada para operaciones de perforación exigentes y para el mecanizado de materiales tenaces, abrasivos y con tendencia al endurecimiento por deformación.

CARACTERÍSTICAS
• Broca helicoidal TCT con plaquita de carburo de tungsteno de alta resistencia
• Geometría reforzada para un alto rendimiento en materiales de elevada dureza
• Adecuada para materiales superiores a 300 HB y aceros con resistencia de hasta 1400 N/mm^2
• Excelente resistencia al desgaste, al calor y a los esfuerzos mecánicos
• Hélice optimizada para una eficaz evacuación de la viruta
• Corte estable y preciso incluso en materiales con tendencia al endurecimiento por deformación
• Acabado brillante que reduce la fricción y el sobrecalentamiento
• Vastago cilíndrico compatible con taladros manuales, de columna y máquinas-herramienta
• DIN 8037 – ángulo de punta de 118°

MATERIALES MECANIZABLES
• Aceros al manganeso
• Hardox® y aceros resistentes al desgaste
• Aceros templados y de alta resistencia
• Fundición
• Molibdeno
• Bronces duros
• Metales tenaces y abrasivos

APLICACIONES
Especialmente indicada para perforaciones exigentes en aceros de alta tenacidad y materiales difíciles de mecanizar, donde se requiere una elevada resistencia al desgaste y la máxima estabilidad de corte.

PT

BROCA ESPECIAL PARA AÇOS TENAZES
Indicada para operações de perfuração exigentes em materiais tenazes, abrasivos e sujeitos ao encruamento.

CARACTERÍSTICAS
• Broca helicoidal TCT com pastilha de carboneto de tungsténio de alta resistência
• Geometria reforçada para elevado desempenho em materiais de alta dureza
• Indicada para materiais acima de 300 HB e aços com resistência até 1400 N/mm^2
• Elevada resistência ao desgaste, ao calor e às solicitações mecânicas
• Hélice otimizada para uma eficiente evacuação da apara
• Corte estável e preciso, mesmo em materiais sujeitos ao encruamento
• Acabamento brilhante para reduzir o atrito e o sobreaquecimento
• Haste cilíndrica compatível com berbequins manuais, de coluna e máquinas-ferramenta
• DIN 8037 – ângulo de ponta de 118°

MATERIAIS USINÁVEIS
• Aços ao manganês
• Hardox® e aços resistentes ao desgaste
• Aços temperados e de alta resistência
• Ferro fundido
• Molibdénio
• Bronzes duros
• Metais tenazes e abrasivos

APLICAÇÕES
Projetadas especificamente para aplicações exigentes de perfuração em aços de alta tenacidade e materiais de difícil usinagem, nas quais são necessárias máxima resistência ao desgaste e estabilidade de corte.

PUNTE ELICOIDALI CILINDRICHE TCT SPECIALI PER ACCIAI TENACI

EN *Special tct straight shank twist drills for tough steels*
FR *Forets hélicoïdaux tct à queue cylindrique spéciaux pour aciers tenaces*
ESP *Brocas helicoidales tct de vastago cilíndrico especiales para aceros tenaces*
PT *Brocas helicoidais tct de haste cilíndrica especiais para aços tenazes*

MangaCut

01280 | **HM HSS** | ≃ **DIN 8037 METALLO DURO**
Carbide

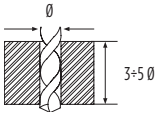
SERIE EXTRA CORTA
Extra short serie



27° W
H7



<3 d







Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2,5	18	45	1	**01280**0250	consultare
3	20	50	1	**01280**0300	listino
3,3	35	56	1	**01280**0330	*see price list*
3,5	25	56	1	**01280**0350	
4	25	59	1	**01280**0400	
4,2	25	56	1	**01280**0420	
4,5	28	63	1	**01280**0450	
5	28	63	1	**01280**0500	
5,5	32	71	1	**01280**0550	
6	32	71	1	**01280**0600	
6,5	32	71	1	**01280**0650	
6,8	40	80	1	**01280**0680	
7	40	80	1	**01280**0700	
7,5	40	80	1	**01280**0750	
8	40	80	1	**01280**0800	
8,5	50	90	1	**01280**0850	
9	50	90	1	**01280**0900	
9,5	50	90	1	**01280**0950	
10	56	100	1	**01280**1000	
10,2	56	100	1	**01280**1020	
10,5	56	100	1	**01280**1050	
11	56	100	1	**01280**1100	
11,5	63	112	1	**01280**1150	
12	63	112	1	**01280**1200	
12,5	63	112	1	**01280**1250	
13	63	112	1	**01280**1300	

R ≤ 1400 N/mm²


Acciaio al manganese
Manganese steel


Hardox Weldox 400



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Compositi fibrorinforzati (GFRP/CFRP)


Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 8%, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA

EN *Cobalt 8% twist drills ground from the solid*
FR *Forets cylindriques au cobalt 8% entièrement rectifiés*
ESP *Broca helicoidale rectificada de cobalto 8%*
PT *Brocas helicoidais de cobalto 8% totalmente retificadas*

01120 **HSS-CO 8%**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie



27° N
H8



HV = 850÷920
AISI M42
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)

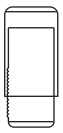


< 5 d



SELF ART. 01121
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,3	3	19	10	**01120**0030	consultare
0,35	4	19	10	**01120**0035	listino
0,4	5	20	10	**01120**0040	*see price list*
0,45	5	20	10	**01120**0045	
0,5	6	22	10	**01120**0050	
0,55	7	24	10	**01120**0055	
0,6	7	24	10	**01120**0060	
0,65	8	26	10	**01120**0065	
0,7	9	28	10	**01120**0070	
0,75	9	28	10	**01120**0075	
0,8	10	30	10	**01120**0080	
0,85	10	30	10	**01120**0085	
0,9	11	32	10	**01120**0090	
0,95	11	32	10	**01120**0095	
1	12	34	10	**01120**0100	
1,1	14	36	10	**01120**0110	
1,2	16	38	10	**01120**0120	
1,25	16	38	10	**01120**0125	
1,3	16	38	10	**01120**0130	
1,4	18	40	10	**01120**0140	
1,5	18	40	10	**01120**0150	
1,6	20	43	10	**01120**0160	
1,7	20	43	10	**01120**0170	
1,75	22	46	10	**01120**0175	
1,8	22	46	10	**01120**0180	
1,9	22	46	10	**01120**0190	
2	24	49	10	**01120**0200	
2,1	24	49	10	**01120**0210	
2,2	27	53	10	**01120**0220	
2,25	27	53	10	**01120**0225	
2,3	27	53	10	**01120**0230	
2,4	30	57	10	**01120**0240	
2,5	30	57	10	**01120**0250	
2,6	30	57	10	**01120**0260	
2,7	33	61	10	**01120**0270	
2,75	33	61	10	**01120**0275	
2,8	33	61	10	**01120**0280	
2,9	33	61	10	**01120**0290	
3	33	61	10	**01120**0300	
3,1	36	65	10	**01120**0310	
3,2	36	65	10	**01120**0320	
3,25	36	65	10	**01120**0325	
3,3	36	65	10	**01120**0330	
3,4	39	70	10	**01120**0340	
3,5	39	70	10	**01120**0350	
3,6	39	70	10	**01120**0360	
3,7	39	70	10	**01120**0370	
3,75	39	70	10	**01120**0375	
3,8	43	75	10	**01120**0380	
3,9	43	75	10	**01120**0390	
4	43	75	10	**01120**0400	
4,1	43	75	10	**01120**0410	
4,2	43	75	10	**01120**0420	
4,25	43	75	10	**01120**0425	
4,3	47	80	10	**01120**0430	
4,4	47	80	10	**01120**0440	
4,5	47	80	10	**01120**0450	
4,6	47	80	10	**01120**0460	
4,7	47	80	10	**01120**0470	
4,75	47	80	10	**01120**0475	
4,8	52	86	10	**01120**0480	
4,9	52	86	10	**01120**0490	
5	52	86	10	**01120**0500	

L'alta percentuale di Cobalto (e Molibdeno) rende questa punta particolarmente resistente alle sollecitazioni meccaniche e termiche e, pertanto, è adatta alle lavorazioni dell'acciaio inox e degli acciai resistenti al calore, di tutti gli acciai alto legati e delle leghe molto tenaci (Acciai al Ni Cr, hastelloy, nimonic, inconel).

High performances in cutting stainless steel, alloy steel up to R ≤ 1400 N/mm².

R ≤ 1400 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
5,1	52	86	10	**01120**0510	consultare
5,2	52	86	10	**01120**0520	listino
5,25	52	86	10	**01120**0525	*see price list*
5,3	52	86	10	**01120**0530	
5,4	57	93	10	**01120**0540	
5,5	57	93	10	**01120**0550	
5,6	57	93	10	**01120**0560	
5,7	57	93	10	**01120**0570	
5,75	57	93	10	**01120**0575	
5,8	57	93	10	**01120**0580	
5,9	57	93	10	**01120**0590	
6	57	93	10	**01120**0600	
6,1	63	101	10	**01120**0610	
6,2	63	101	10	**01120**0620	
6,25	63	101	10	**01120**0625	
6,3	63	101	10	**01120**0630	
6,4	63	101	10	**01120**0640	
6,5	63	101	10	**01120**0650	
6,6	63	101	10	**01120**0660	
6,7	63	101	10	**01120**0670	
6,75	69	109	10	**01120**0675	
6,8	69	109	10	**01120**0680	
6,9	69	109	10	**01120**0690	
7	69	109	10	**01120**0700	
7,1	69	109	5	**01120**0710	
7,2	69	109	5	**01120**0720	
7,25	69	109	5	**01120**0725	
7,3	69	109	5	**01120**0730	
7,4	69	109	5	**01120**0740	
7,5	69	109	5	**01120**0750	
7,6	75	117	5	**01120**0760	
7,7	75	117	5	**01120**0770	
7,75	75	117	5	**01120**0775	
7,8	75	117	5	**01120**0780	
7,9	75	117	5	**01120**0790	
8	75	117	5	**01120**0800	
8,1	75	117	5	**01120**0810	
8,2	75	117	5	**01120**0820	
8,25	75	117	5	**01120**0825	
8,3	75	117	5	**01120**0830	
8,4	75	117	5	**01120**0840	
8,5	75	117	5	**01120**0850	
8,6	81	125	5	**01120**0860	
8,7	81	125	5	**01120**0870	
8,75	81	125	5	**01120**0875	
8,8	81	125	5	**01120**0880	
8,9	81	125	5	**01120**0890	
9	81	125	5	**01120**0900	
9,1	81	125	5	**01120**0910	
9,2	81	125	5	**01120**0920	
9,25	81	125	5	**01120**0925	
9,3	81	125	5	**01120**0930	
9,4	81	125	5	**01120**0940	
9,5	81	125	5	**01120**0950	
9,6	87	133	5	**01120**0960	
9,7	87	133	5	**01120**0970	
9,75	87	133	5	**01120**0975	
9,8	87	133	5	**01120**0980	
9,9	87	133	5	**01120**0990	
10	87	133	5	**01120**1000	
10,1	87	133	5	**01120**1010	
10,2	87	133	5	**01120**1020	
10,25	87	133	5	**01120**1025	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
10,3	87	133	5	**01120**1030	
10,4	87	133	5	**01120**1040	
10,5	87	133	5	**01120**1050	
10,6	87	133	5	**01120**1060	
10,7	94	142	5	**01120**1070	
10,75	94	142	5	**01120**1075	
10,8	94	142	5	**01120**1080	
10,9	94	142	5	**01120**1090	
11	94	142	5	**01120**1100	
11,1	94	142	5	**01120**1110	
11,2	94	142	5	**01120**1120	
11,25	94	142	5	**01120**1125	
11,3	94	142	5	**01120**1130	
11,4	94	142	5	**01120**1140	
11,5	94	142	5	**01120**1150	
11,6	94	142	5	**01120**1160	
11,7	94	142	5	**01120**1170	
11,75	94	142	5	**01120**1175	
11,8	94	142	5	**01120**1180	
11,9	101	151	5	**01120**1190	
12	101	151	5	**01120**1200	
12,1	101	151	5	**01120**1210	
12,2	101	151	5	**01120**1220	
12,25	101	151	5	**01120**1225	
12,3	101	151	5	**01120**1230	
12,4	101	151	5	**01120**1240	
12,5	101	151	5	**01120**1250	
12,6	101	151	5	**01120**1260	
12,7	101	151	5	**01120**1270	
12,75	101	151	5	**01120**1275	
12,8	101	151	5	**01120**1280	
12,9	101	151	5	**01120**1290	
13	101	151	5	**01120**1300	
13,25	108	160	3	**01120**1325	
13,5	108	160	3	**01120**1350	
13,75	108	160	3	**01120**1375	
14	108	160	3	**01120**1400	
14,25	114	169	3	**01120**1425	
14,5	114	169	3	**01120**1450	
14,75	114	169	3	**01120**1475	
15	114	169	3	**01120**1500	
15,25	120	178	3	**01120**1525	
15,5	120	178	3	**01120**1550	
15,75	120	178	3	**01120**1575	
16	120	178	3	**01120**1600	
16,5	125	184	1	**01120**1650	
17	125	184	1	**01120**1700	
17,5	130	191	1	**01120**1750	
18	130	191	1	**01120**1800	
18,5	135	198	1	**01120**1850	
19	135	198	1	**01120**1900	
19,5	140	205	1	**01120**1950	
20	140	205	1	**01120**2000	

PUNTE ELICOIDALI AL COBALTO 8%, SERIE CORTA, CODOLO RIDOTTO

EN *Cobalt 8% straight shank twist drills, stub serie*
FR *Forets cylindriques à queue réduite au cobalt 8%*
ESP *Brocas helicoidales de cobalto 8% vastago reducido*
PT *Brocas helicoidais de veio reduzida em cobalto 8%, série curta*

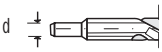
01122 — HSS-CO 8%

DIN 338 RETTIFICATA
Ground from the solid

CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N
H8



d=10 mm

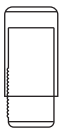


< 5 d



SELF ART. 01124
Su richiesta / *On demand*





Confezione
Packaging

R ≤ 1400 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**01122**1025	consultare
10,5	87	133	10	5	**01122**1050	listino
10,75	94	142	10	5	**01122**1075	*see price list*
11	94	142	10	5	**01122**1100	
11,25	94	142	10	5	**01122**1125	
11,5	94	142	10	5	**01122**1150	
11,75	94	142	10	5	**01122**1175	
12	101	151	10	5	**01122**1200	
12,25	101	151	10	5	**01122**1225	
12,5	101	151	10	5	**01122**1250	
12,75	101	151	10	5	**01122**1275	
13	101	151	10	5	**01122**1300	
13,25	108	160	10	3	**01122**1325	
13,5	108	160	10	3	**01122**1350	
13,75	108	160	10	3	**01122**1375	
14	108	160	10	3	**01122**1400	
14,25	114	169	10	3	**01122**1425	
14,5	114	169	10	3	**01122**1450	
14,75	114	169	10	3	**01122**1475	
15	114	169	10	3	**01122**1500	
15,25	120	178	10	3	**01122**1525	
15,5	120	178	10	3	**01122**1550	
15,75	120	178	10	3	**01122**1575	
16	120	178	10	3	**01122**1600	
16,5	125	184	10	1	**01122**1650	
17	125	184	10	1	**01122**1700	
17,5	130	191	10	1	**01122**1750	
18	130	191	10	1	**01122**1800	
18,5	135	198	10	1	**01122**1850	
19	135	198	10	1	**01122**1900	
19,5	140	205	10	1	**01122**1950	
20	140	205	10	1	**01122**2000	

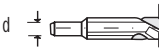
01123 — HSS-CO 8%

DIN 338 RETTIFICATA
Ground from the solid

CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N
H8

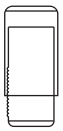


d=13 mm



< 5 d





Confezione
Packaging

R ≤ 1400 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01123**1325	consultare
13,5	108	160	13	3	**01123**1350	listino
13,75	108	160	13	3	**01123**1375	*see price list*
14	108	160	13	3	**01123**1400	
14,25	114	169	13	3	**01123**1425	
14,5	114	169	13	3	**01123**1450	
14,75	114	169	13	3	**01123**1475	
15	114	169	13	3	**01123**1500	
15,25	120	178	13	3	**01123**1525	
15,5	120	178	13	3	**01123**1550	
15,75	120	178	13	3	**01123**1575	
16	120	178	13	3	**01123**1600	
16,5	125	184	13	1	**01123**1650	
17	125	184	13	1	**01123**1700	
17,5	130	191	13	1	**01123**1750	
18	130	191	13	1	**01123**1800	
18,5	135	198	13	1	**01123**1850	
19	135	198	13	1	**01123**1900	
19,5	140	205	13	1	**01123**1950	
20	140	205	13	1	**01123**2000	

PUNTE ELICOIDALI AL COBALTO 8%, SERIE EXTRA CORTA, SERIE LUNGA

EN *Cobalt 8% straight shank twist drills, stub serie, long serie*
FR *Forets hélicoïdaux à queue droite en cobalt 8%*
ESP *Brocas helicoidales de cobalto 8%, serie extra corta, serie larga*
PT *Brocas helicoidais em cobalto 8%, série extra curta, série longa*

01126 HSS-CO 8% DIN 1897

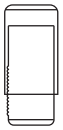
SERIE EXTRA CORTA
Extra short serie

135° 27° N
H8

HV ≃ 850÷920
AISI M42
SPLIT POINT
DIN 1412 C

< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	16	46	10	**01126**0300	consultare
3,25	18	49	10	**01126**0325	listino
3,5	20	52	10	**01126**0350	*see price list*
3,75	20	52	10	**01126**0375	
4	22	55	10	**01126**0400	
4,25	22	55	10	**01126**0425	
4,5	24	58	10	**01126**0450	
4,75	24	58	10	**01126**0475	
5	26	62	10	**01126**0500	
5,5	28	66	10	**01126**0550	
6	28	66	10	**01126**0600	



R ≤ 1400 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

01128 HSS-CO 8% DIN 340

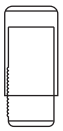
SERIE LUNGA
Long serie

135° 27° N
H8

HV ≃ 850÷920
AISI M42
SPLIT POINT
DIN 1412 C

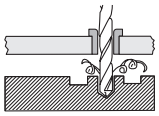
< 8 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	66	100	10	**01128**0300	consultare
3,25	69	106	10	**01128**0325	listino
3,5	73	112	10	**01128**0350	*see price list*
3,75	73	112	10	**01128**0375	
4	78	119	10	**01128**0400	
4,25	78	119	10	**01128**0425	
4,5	82	126	10	**01128**0450	
4,75	82	126	10	**01128**0475	
5	87	132	10	**01128**0500	
5,25	87	132	10	**01128**0525	
5,5	91	139	10	**01128**0550	
5,75	91	139	10	**01128**0575	
6	91	139	10	**01128**0600	
6,5	97	148	5	**01128**0650	
7	102	156	5	**01128**0700	
7,5	102	156	5	**01128**0750	
8	109	165	5	**01128**0800	
8,5	109	165	5	**01128**0850	
9	115	175	5	**01128**0900	
9,5	115	175	5	**01128**0950	
10	121	184	5	**01128**1000	



R ≤ 1400 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI IN ACCIAIO SUPER RAPIDO AL COBALTO 5% DA METALLURGIA DELLE POLVERI, SERIE CORTA

EN *Short series cobalt 5% powder metallurgy high speed steel twist drills*
FR *Forets hélicoïdaux série courte en acier rapide au cobalt 5 % issu de la métallurgie des poudres*
ESP *Brocas helicoidales serie corta de acero rápido al cobalto 5 % obtenido por metalurgia de polvos*
PT *Brocas helicoidais série curta em aço rápido ao cobalto 5% produzido por metalurgia do pó*

01295 | **HSS-E PM** | **TiAlN**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie



27° N
H8

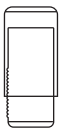


HV 0,05÷3300
HSS-E PM
SPLIT POINT
DIN 1412 C
(0≥3 mm)



< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	DMT pcs.	cod.	cad/each €
1	12	34	5	**012950**100	consultare listino
1,25	16	38	5	**012950**125	*see price list*
1,5	18	40	5	**012950**150	
1,75	22	46	5	**012950**175	
2	24	49	5	**012950**200	
2,25	27	53	5	**012950**225	
2,5	30	57	5	**012950**250	
2,75	33	61	5	**012950**275	
3	33	61	5	**012950**300	
3,25	36	65	5	**012950**325	
3,5	39	70	5	**012950**350	
3,75	39	70	5	**012950**375	
4	43	75	1	**012950**400	
4,25	43	75	1	**012950**425	
4,5	47	80	1	**012950**450	
4,75	47	80	1	**012950**475	
5	52	86	1	**012950**500	
5,25	52	86	1	**012950**525	
5,5	57	93	1	**012950**550	
5,75	57	93	1	**012950**575	
6	57	93	1	**012950**600	
6,25	63	101	1	**012950**625	
6,5	63	101	1	**012950**650	
6,75	69	109	1	**012950**675	
7	69	109	1	**012950**700	
7,25	69	109	1	**012950**725	
7,5	69	109	1	**012950**750	
7,75	75	117	1	**012950**775	
8	75	117	1	**012950**800	
8,25	75	117	1	**012950**825	
8,5	75	117	1	**012950**850	
8,75	81	125	1	**012950**875	
9	81	125	1	**012950**900	
9,25	81	125	1	**012950**925	
9,5	81	125	1	**012950**950	
9,75	87	133	1	**012950**975	
10	87	133	1	**012951**000	
10,25	87	133	1	**012951**025	
10,5	87	133	1	**012951**050	
11	94	142	1	**012951**100	
11,5	94	142	1	**012951**150	
12	101	151	1	**012951**200	
12,5	101	151	1	**012951**250	
13	101	151	1	**012951**300	

R ≤ 1400 N/mm²



Hardox Weldox 400



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



PUNTE HSS-E PM + RIVESTIMENTO TIALN

Ideali per foratura in condizioni gravose e produzioni ad alta produttività

Tecnologia HSS-E PM:
acciaio rapido al cobalto prodotto con metallurgia delle polveri: microstruttura fine, omogenea e più resistente

Caratteristiche:
- Elevata durezza e resistenza all'usura
- Maggiore tenacità rispetto a HSS-Co tradizionale
- Ottima stabilità del tagliente anche ad alte temperature

Rivestimento TiAlN:
- Elevata resistenza a caldo e all'ossidazione
- Riduzione dell'attrito e migliore gestione del calore
- Ideale per lavorazioni a secco o MQL

Vantaggi principali:
- Vita utensile più lunga
- Prestazioni affidabili anche su materiali impegnativi
- Idonee a velocità di taglio elevate

Applicazioni e materiali:
- Acciai legati e non legati, acciai inox
- Ghise e materiali ad alta resistenza
- Hardox (fino a ~400 HB)
- Leghe di titanio

EN ***HSS-E PM Drill Bits + TiAlN Coating***
Ideal for drilling under demanding conditions and high-productivity applications

HSS-E PM Technology:
Cobalt-based high-speed steel produced using powder metallurgy, featuring a fine, homogeneous microstructure and enhanced durability

Features:
- *High hardness and wear resistance*
- *Greater toughness compared to traditional HSS-Co*
- *Excellent cutting edge stability even at high temperatures*

Key benefits:
- *Longer tool life*
- *Reliable performance even on challenging materials*
- *Suitable for high cutting speeds*

TiAlN coating:
- *High heat and oxidation resistance*
- *Reduced friction and improved heat management*
- *Ideal for dry or MQL machining*

Applications and materials:
- *Alloyed and unalloyed steels, stainless steels*
- *Cast iron and high-strength materials*
- *Hardox (up to ~400 HB)*
- *Titanium alloys*

ES ***Brocas HSS-E PM + recubrimiento TiAlN***
Ideales para taladrado en condiciones exigentes y producciones de alta productividad

Tecnología HSS-E PM:
acero rápido al cobalto fabricado mediante metalurgia de polvos, con una microestructura fina, homogénea y más resistente

Características:
- *Elevada dureza y resistencia al desgaste*
- *Mayor tenacidad en comparación con el HSS-Co tradicional*
- *Óptima estabilidad del filo incluso a altas temperaturas*

Ventajas principales:
- *Mayor vida útil de la herramienta*
- *Rendimiento fiable incluso en materiales exigentes*
- *Adecuadas para velocidades de corte elevadas*

Recubrimiento TiAlN:
- *Elevada resistencia al calor y a la oxidación*
- *Reducción de la fricción y mejor gestión del calor*
- *Ideal para mecanizados en seco o MQL*

Aplicaciones y materiales:
- *Aceros aleados y no aleados, aceros inoxidables*
- *Fundición y materiales de alta resistencia*
- *Hardox (hasta ~400 HB)*
- *Aleaciones de titanio*

FR ***Forets HSS-E PM + revêtement TiAlN***
Idéaux pour le perçage dans des conditions difficiles et les productions à haut rendement

Technologie HSS-E PM :
acier rapide au cobalt fabriqué par métallurgie des poudres, présentant une microstructure fine, homogène et plus résistante

Caractéristiques :
- *Dureté et résistance à l'usure élevées*
- *Tenacité supérieure à celle du HSS-Co traditionnel*
- *Excellente stabilité de l'arête de coupe, même à haute température*

Principaux avantages :
- *Durée de vie de l'outil prolongée*
- *Performances fiables, même sur des matériaux difficiles*
- *Adaptées aux vitesses de coupe élevées*

Revêtement TiAlN :
- *Haute résistance à la chaleur et à l'oxydation*
- *Réduction du frottement et meilleure gestion de la chaleur*
- *Idéal pour l'usinage à sec ou en MQL*

Applications et matériaux :
- *Aciers alliés et non alliés, aciers inoxydables*
- *Fontes et matériaux à haute résistance*
- *Hardox (jusqu'à ~400 HB)*
- *Alliages de titane*

PT ***Brocas HSS-E PM + revestimento TiAlN***
Ideais para perfuração em condições exigentes e produções de alta produtividade

Tecnologia HSS-E PM:
aço rápido ao cobalto produzido por metalurgia de pós, com microestrutura fina, homogénea e mais resistente

Características:
- *Elevada dureza e resistência ao desgaste*
- *Maior tenacidade em comparação com o HSS-Co tradicional*
- *Excelente estabilidade do gume mesmo a altas temperaturas*

Principais vantagens:
- *Maior vida útil da ferramenta*
- *Desempenho fiável mesmo em materiais exigentes*
- *Adequadas para velocidades de corte elevadas*

Revestimento TiAlN:
- *Elevada resistência ao calor e à oxidação*
- *Redução do atrito e melhor gestão do calor*
- *Ideal para usinagem a seco ou MQL*

Aplicações e materiais:
- *Aços ligados e não ligados, aços inoxidáveis*
- *Ferro fundido e materiais de alta resistência*
- *Hardox (até ~400 HB)*
- *Ligas de titânio*

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

EN *Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting*
FR *Forets helicoidaux, affutage croix et spiral rapide pour perçages profonds*
ESP *Brocas helicoidales corte forma cruz, helice rapida para perforaciones profundas, serie corta*
PT *Brocas helicoidais de corte transversal afiadas e "design especial de ranhura de alta resistência" para corte profundo*

01140 **HSS-CO 5%**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA - PARABOLICA
Short serie - Parabolic



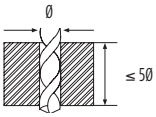
35° W
H8



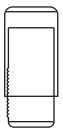
HSS-CO
Parabolic
DIN 1412/C
HV = 800÷860
AFFILATURA A CROCE
Cross sharpening



≤ 5 d







Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	 cod.	 cad/each €
2	24	49	10	**01140**0200	consultare listino
2,25	27	53	10	**01140**0225	*see price list*
2,5	30	57	10	**01140**0250	
2,75	33	61	10	**01140**0275	
3	33	61	10	**01140**0300	
3,2	36	65	10	**01140**0320	
3,25	36	65	10	**01140**0325	
3,5	39	70	10	**01140**0350	
3,75	39	70	10	**01140**0375	
4	43	75	10	**01140**0400	
4,25	43	75	10	**01140**0425	
4,5	47	80	10	**01140**0450	
4,75	47	80	10	**01140**0475	
4,8	52	86	10	**01140**0480	
5	52	86	10	**01140**0500	
5,2	52	86	10	**01140**0520	
5,25	52	86	10	**01140**0525	
5,5	57	93	10	**01140**0550	
5,75	57	93	10	**01140**0575	
6	57	93	10	**01140**0600	
6,25	63	101	10	**01140**0625	
6,5	63	101	10	**01140**0650	
7	69	109	10	**01140**0700	
7,5	69	109	5	**01140**0750	
8	75	117	5	**01140**0800	
8,5	75	117	5	**01140**0850	
9	81	125	5	**01140**0900	
9,5	81	125	5	**01140**0950	
10	87	133	5	**01140**1000	
10,5	87	133	5	**01140**1050	
11	94	142	5	**01140**1100	
11,5	94	142	5	**01140**1150	
12	101	151	5	**01140**1200	
12,5	101	151	5	**01140**1250	
13	101	151	5	**01140**1300	

Punte con ottima resistenza alle sollecitazioni termiche, adatte per forare acciai legati e non con R sino a 1200 N/mm², in modo particolare acciai da bonifica, acciai per lavorazioni a caldo e a freddo, acciai inossidabili, ghisa etc.

High performance in cutting alloy steel, cast iron, stainless steel and metals up to R ≤ 1200 N/mm².

R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

EN *Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting*
FR *Forets helicoidaux, affutage croix et spiral rapide pour perçages profonds*
ESP *Brocas helicoidales corte forma cruz, helice rapida para perforaciones profundas, serie extra corta*
PT *Brocas helicoidais de corte transversal afiadas e "design especial de ranhura de alta resistência" para corte profundo*

01143

HSS-CO 5%

DIN 1897 RETTIFICATA

Ground from the solid

SERIE EXTRA CORTA - PARABOLICA

Extra short serie - Parabolic



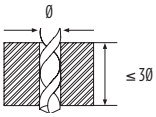
35° W
H8



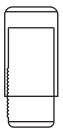
HSS-CO
Parabolic
DIN 1412/C
HV = 800÷860
AFFILATURA A CROCE
Cross sharpening



≤ 3 d







Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	 cod.	 cad/each €
3	16	46	10	**011430300**	consultare listino
3,2	18	49	10	**011430320**	*see price list*
3,25	18	49	10	**011430325**	
3,3	18	49	10	**011430330**	
3,5	20	52	10	**011430350**	
3,7	20	52	10	**011430370**	
3,75	20	52	10	**011430375**	
3,8	22	55	10	**011430380**	
4	22	55	10	**011430400**	
4,2	22	55	10	**011430420**	
4,25	22	55	10	**011430425**	
4,5	24	58	10	**011430450**	
4,7	24	58	10	**011430470**	
4,75	24	58	10	**011430475**	
4,8	26	62	10	**011430480**	
5	26	62	10	**011430500**	
5,2	26	62	10	**011430520**	
5,25	26	62	10	**011430525**	
5,5	28	66	10	**011430550**	
5,7	28	66	10	**011430570**	
5,75	28	66	10	**011430575**	
5,8	28	66	10	**011430580**	
6	28	66	10	**011430600**	
6,5	31	70	10	**011430650**	
6,8	34	74	10	**011430680**	
7	34	74	10	**011430700**	
7,5	34	74	5	**011430750**	
8	37	79	5	**011430800**	
8,5	37	79	5	**011430850**	
9	40	84	5	**011430900**	
9,5	40	84	5	**011430950**	
10	43	89	5	**011431000**	
10,5	43	89	5	**011431050**	
11	47	95	5	**011431100**	
11,5	47	95	5	**011431150**	
12	51	102	5	**011431200**	
12,5	51	102	5	**011431250**	
13	51	102	5	**011431300**	

R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CON AFFILATURA A CROCE ED ELICA SPECIALE AD ALTA RESISTENZA PER FORATURE PROFONDE

EN *Twist drills cross cut sharpened and special "high resistance flute design" for deep in to cutting*
FR *Forets helicoidaux, affutage croix et spiral rapide pour perçages profonds*
ESP *Brocas helicoidales corte forma cruz, helice rapida para perforaciones profundas, serie larga*
PT *Brocas helicoidais de corte transversal afiadas e "design especial de ranhura de alta resistência" para corte profundo*

01141

HSS-CO 5%

DIN 340 RETTIFICATA

Ground from the solid

SERIE LUNGA - PARABOLICA

Long serie - Parabolic



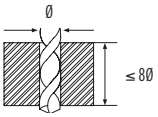
35° W
H8



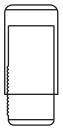
HSS-CO
Parabolic
DIN 1412/C
HV = 800÷860
AFFILATURA A CROCE
Cross sharpening



< 8 d

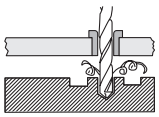






Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2,5	62	95	10	**01141**0250	consultare listino
3	66	106	10	**01141**0300	*see price list*
3,25	69	106	10	**01141**0325	
3,5	73	112	10	**01141**0350	
3,75	73	112	10	**01141**0375	
4	78	119	10	**01141**0400	
4,25	78	119	10	**01141**0425	
4,5	82	126	10	**01141**0450	
4,75	82	126	10	**01141**0475	
5	87	132	10	**01141**0500	
5,25	87	132	10	**01141**0525	
5,5	91	139	10	**01141**0550	
5,75	91	139	10	**01141**0575	
6	91	139	10	**01141**0600	
6,25	97	148	5	**01141**0625	
6,5	97	148	5	**01141**0650	
7	102	156	5	**01141**0700	
7,5	102	156	5	**01141**0750	
8	109	165	5	**01141**0800	
8,5	109	165	5	**01141**0850	
9	115	175	5	**01141**0900	
9,5	115	175	5	**01141**0950	
10	121	184	5	**01141**1000	
10,5	121	184	5	**01141**1050	
11	128	195	5	**01141**1100	
11,5	128	195	5	**01141**1150	
12	134	205	5	**01141**1200	
12,5	134	205	5	**01141**1250	
13	134	205	5	**01141**1300	



R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%, SERIE EXTRA LUNGA

EN *Cobalt extra long straight shank twist drills*
FR *Forets cylindriques série extra longue au cobalt*
ESP *Brocas helicoidales serie extra larga de cobalto*
PT *Brocas helicoidais de veio reto extra longo em cobalto*

01376 HSS-CO 5% DIN 1869/1 PARABOLIC

SERIE EXTRA LUNGA PARABOLICA
Extra long serie - Parabolic

135° 35° W H8

≥ 10 d

R ≤ 1200 N/mm²

Inox *Stainless*

Metalli *Metals*

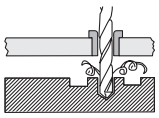
Acciaio *Steel*

Emulsione *Lubrificant*



Confezione *Packaging*

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	100	150	1	**013760**300	consultare listino
3,5	115	165	1	**013760**350	*see price list*
4	120	175	1	**013760**400	
4,5	125	185	1	**013760**450	
5	135	195	1	**013760**500	
5,5	140	205	1	**013760**550	
6	140	205	1	**013760**600	
6,5	150	215	1	**013760**650	
7	155	225	1	**013760**700	
7,5	155	225	1	**013760**750	
8	165	240	1	**013760**800	
8,5	165	240	1	**013760**850	
9	175	250	1	**013760**900	
9,5	175	250	1	**013760**950	
10	185	265	1	**013761**000	



01377 HSS-CO 5% DIN 1869/2 PARABOLIC

SERIE EXTRA LUNGA PARABOLICA
Extra long serie - Parabolic

135° 35° W H8

≥ 10 d

R ≤ 1200 N/mm²

Inox *Stainless*

Metalli *Metals*

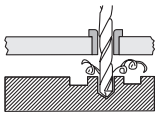
Acciaio *Steel*

Emulsione *Lubrificant*



Confezione *Packaging*

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	130	190	1	**013770**300	consultare listino
3,5	145	210	1	**013770**350	*see price list*
4	150	220	1	**013770**400	
4,5	160	235	1	**013770**450	
5	170	245	1	**013770**500	
5,5	180	260	1	**013770**550	
6	180	260	1	**013770**600	
6,5	190	275	1	**013770**650	
7	200	290	1	**013770**700	
7,5	200	290	1	**013770**750	
8	210	305	1	**013770**800	
8,5	210	305	1	**013770**850	
9	220	320	1	**013770**900	
9,5	220	320	1	**013770**950	
10	235	340	1	**013771**000	



PUNTE ELICOIDALI CILINDRICHE AL COBALTO 5%, SERIE EXTRA LUNGA

EN *Cobalt 5% extra long straight shank twist drills*
FR *Forets cylindriques série extra longue au cobalt 5%*
ESP *Brocas helicoidales serie extra larga de cobalto 5%*
PT *Brocas helicoidais de veio reto extra longo em cobalto 5%*

01378 HSS-CO 5% DIN 1869/3 PARABOLIC

SERIE EXTRA LUNGA PARABOLICA
Extra long serie - Parabolic



35° W
H8



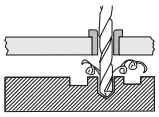
≥ 10 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	 cod.	 cad/each €
3	160	240	1	**013780**300	consultare listino
3,5	180	265	1	**013780**350	*see price list*
4	190	280	1	**013780**400	
4,5	200	295	1	**013780**450	
5	210	315	1	**013780**500	
5,5	225	330	1	**013780**550	
6	225	330	1	**013780**600	
6,5	235	350	1	**013780**650	
7	250	370	1	**013780**700	
7,5	250	370	1	**013780**750	
8	265	390	1	**013780**800	
8,5	265	390	1	**013780**850	
9	280	410	1	**013780**900	
9,5	280	410	1	**013780**950	
10	295	430	1	**013781**000	
10,5	295	430	1	**013781**050	
11	310	455	1	**013781**100	
11,5	310	455	1	**013781**150	
12	330	480	1	**013781**200	
12,5	330	480	1	**013781**250	
13	330	480	1	**013781**300	



R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5% PER IL TAGLIO DEGLI ACCIAI INOX, ACCIAI RESISTENTI AL CALORE ED AUSTENITICI (V2A-V4A)

EN *Cobalt 5% twist drill to cut stainless steel, heat resistant steel, austenitic steel (V2A-V4A)*
FR *Forets hélicoïdaux au cobalt 5% pour l'usinage des aciers inoxydables, des aciers résistants à la chaleur et des aciers austénitiques (V2A-V4A)*
ESP *Brocas helicoidales de cobalto 5% para el corte de aceros inoxidables, aceros resistentes al calor y aceros austeníticos (V2A-V4A)*
PT *Brocas helicoidais em cobalto 5% para o corte de aços inoxidáveis, aços resistentes ao calor e austeníticos (V2A-V4A)*

01139 **HSS-CO 5%**

DIN 338 RETTIFICATA W36°

Ground from the solid

SERIE CORTA
Short serie



36° W
H8

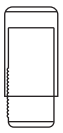


HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)



≤ 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	10	**01139**0100	consultare listino *see price list*
1,25	16	38	10	**01139**0125	
1,5	18	40	10	**01139**0150	
1,75	22	46	10	**01139**0175	
2	24	49	10	**01139**0200	
2,25	27	53	10	**01139**0225	
2,5	30	57	10	**01139**0250	
2,75	33	61	10	**01139**0275	
2,8	33	61	10	**01139**0280	
3	33	61	10	**01139**0300	
3,2	36	65	10	**01139**0320	
3,25	36	65	10	**01139**0325	
3,3	36	65	10	**01139**0330	
3,4	39	70	10	**01139**0340	
3,5	39	70	10	**01139**0350	
3,7	39	70	10	**01139**0370	
3,75	39	70	10	**01139**0375	
3,8	43	75	10	**01139**0380	
4	43	75	10	**01139**0400	
4,1	43	75	10	**01139**0410	
4,2	43	75	10	**01139**0420	
4,25	43	75	10	**01139**0425	
4,5	47	80	10	**01139**0450	
4,75	47	80	10	**01139**0475	
4,8	52	86	10	**01139**0480	
5	52	86	10	**01139**0500	
5,2	52	86	10	**01139**0520	
5,25	52	86	10	**01139**0525	
5,5	57	93	10	**01139**0550	
5,75	57	93	10	**01139**0575	
6	57	93	10	**01139**0600	
6,25	63	101	10	**01139**0625	
6,5	63	101	10	**01139**0650	
6,75	69	109	10	**01139**0675	
7	69	109	10	**01139**0700	
7,25	69	109	5	**01139**0725	
7,5	69	109	5	**01139**0750	
7,75	75	117	5	**01139**0775	
8	75	117	5	**01139**0800	
8,25	75	117	5	**01139**0825	
8,5	75	117	5	**01139**0850	
8,75	81	125	5	**01139**0875	
9	81	125	5	**01139**0900	
9,25	81	125	5	**01139**0925	
9,5	81	125	5	**01139**0950	
9,75	87	133	5	**01139**0975	
10	87	133	5	**01139**1000	
10,25	87	133	5	**01139**1025	
10,5	87	133	5	**01139**1050	
10,75	94	142	5	**01139**1075	
11	94	142	5	**01139**1100	
11,25	94	142	5	**01139**1125	
11,5	94	142	5	**01139**1150	
11,75	94	142	5	**01139**1175	
12	101	151	5	**01139**1200	
12,25	101	151	5	**01139**1225	
12,5	101	151	5	**01139**1250	
12,75	101	151	5	**01139**1275	
13	101	151	5	**01139**1300	

V2A è la classificazione tedesca dell'acciaio inox 304, mentre V4A è l'inox 316.

V2A is german standard for 304 stainless steel, V4A is 316 stainless steel.

R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5%, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA

EN *Cobalt 5% twist drills ground from the solid*
FR *Forets cylindriques au cobalt 5% entièrement rectifiés*
ESP *Broca helicoidale rectificada de cobalto 5%*
PT *Brocas helicoidais de cobalto 5% totalmente retificadas*

01145 **HSS-CO 5%**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie

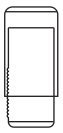
135° 27° N
H8

HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)

< 5 d

SELF ART. 01144
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,2	2,5	19	10	01145**0020**	consultare
0,25	3	19	10	01145**0025**	listino
0,3	3	19	10	01145**0030**	*see price list*
0,35	4	19	10	01145**0035**	
0,4	5	20	10	01145**0040**	
0,45	5	20	10	01145**0045**	
0,5	6	22	10	01145**0050**	
0,55	7	24	10	01145**0055**	
0,6	7	24	10	01145**0060**	
0,65	8	26	10	01145**0065**	
0,7	9	28	10	01145**0070**	
0,75	9	28	10	01145**0075**	
0,8	10	30	10	01145**0080**	
0,85	10	30	10	01145**0085**	
0,9	11	32	10	01145**0090**	
0,95	11	32	10	01145**0095**	
1	12	34	10	01145**0100**	
1,1	14	36	10	01145**0110**	
1,2	16	38	10	01145**0120**	
1,25	16	38	10	01145**0125**	
1,3	16	38	10	01145**0130**	
1,4	18	40	10	01145**0140**	
1,5	18	40	10	01145**0150**	
1,6	20	43	10	01145**0160**	
1,7	20	43	10	01145**0170**	
1,75	22	46	10	01145**0175**	
1,8	22	46	10	01145**0180**	
1,9	22	46	10	01145**0190**	
2	24	49	10	01145**0200**	
2,1	24	49	10	01145**0210**	
2,2	27	53	10	01145**0220**	
2,25	27	53	10	01145**0225**	
2,3	27	53	10	01145**0230**	
2,4	30	57	10	01145**0240**	
2,5	30	57	10	01145**0250**	
2,6	30	57	10	01145**0260**	
2,7	33	61	10	01145**0270**	
2,75	33	61	10	01145**0275**	
2,8	33	61	10	01145**0280**	
2,9	33	61	10	01145**0290**	
3	33	61	10	01145**0300**	
3,1	36	65	10	01145**0310**	
3,2	36	65	10	01145**0320**	
3,25	36	65	10	01145**0325**	
3,3	36	65	10	01145**0330**	
3,4	39	70	10	01145**0340**	
3,5	39	70	10	01145**0350**	
3,6	39	70	10	01145**0360**	
3,7	39	70	10	01145**0370**	
3,75	39	70	10	01145**0375**	
3,8	43	75	10	01145**0380**	
3,9	43	75	10	01145**0390**	
4	43	75	10	01145**0400**	
4,1	43	75	10	01145**0410**	
4,2	43	75	10	01145**0420**	
4,25	43	75	10	01145**0425**	
4,3	47	80	10	01145**0430**	
4,4	47	80	10	01145**0440**	
4,5	47	80	10	01145**0450**	
4,6	47	80	10	01145**0460**	
4,7	47	80	10	01145**0470**	
4,75	47	80	10	01145**0475**	
4,8	52	86	10	01145**0480**	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
4,9	52	86	10	01145**0490**	consultare
5	52	86	10	01145**0500**	listino
5,1	52	86	10	01145**0510**	*see price list*
5,2	52	86	10	01145**0520**	
5,25	52	86	10	01145**0525**	
5,3	52	86	10	01145**0530**	
5,4	57	93	10	01145**0540**	
5,5	57	93	10	01145**0550**	
5,6	57	93	10	01145**0560**	
5,7	57	93	10	01145**0570**	
5,75	57	93	10	01145**0575**	
5,8	57	93	10	01145**0580**	
5,9	57	93	10	01145**0590**	
6	57	93	10	01145**0600**	
6,1	63	101	10	01145**0610**	
6,2	63	101	10	01145**0620**	
6,25	63	101	10	01145**0625**	
6,3	63	101	10	01145**0630**	
6,4	63	101	10	01145**0640**	
6,5	63	101	10	01145**0650**	
6,6	63	101	10	01145**0660**	
6,7	63	101	10	01145**0670**	
6,75	69	109	10	01145**0675**	
6,8	69	109	10	01145**0680**	
6,9	69	109	10	01145**0690**	
7	69	109	10	01145**0700**	
7,1	69	109	5	01145**0710**	
7,2	69	109	5	01145**0720**	
7,25	69	109	5	01145**0725**	
7,3	69	109	5	01145**0730**	
7,4	69	109	5	01145**0740**	
7,5	69	109	5	01145**0750**	
7,6	75	117	5	01145**0760**	
7,7	75	117	5	01145**0770**	
7,75	75	117	5	01145**0775**	
7,8	75	117	5	01145**0780**	
7,9	75	117	5	01145**0790**	
8	75	117	5	01145**0800**	
8,1	75	117	5	01145**0810**	
8,2	75	117	5	01145**0820**	
8,25	75	117	5	01145**0825**	
8,3	75	117	5	01145**0830**	
8,4	75	117	5	01145**0840**	
8,5	75	117	5	01145**0850**	
8,6	81	125	5	01145**0860**	
8,7	81	125	5	01145**0870**	
8,75	81	125	5	01145**0875**	
8,8	81	125	5	01145**0880**	
8,9	81	125	5	01145**0890**	
9	81	125	5	01145**0900**	
9,1	81	125	5	01145**0910**	
9,2	81	125	5	01145**0920**	
9,25	81	125	5	01145**0925**	
9,3	81	125	5	01145**0930**	
9,4	81	125	5	01145**0940**	
9,5	81	125	5	01145**0950**	
9,6	87	133	5	01145**0960**	
9,7	87	133	5	01145**0970**	
9,75	87	133	5	01145**0975**	
9,8	87	133	5	01145**0980**	
9,9	87	133	5	01145**0990**	
10	87	133	5	01145**1000**	
10,1	87	133	5	01145**1010**	

R ≤ 1200 N/mm²

INOX Inox
Stainless

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
10,2	87	133	5	**01145**1020	consultare
10,25	87	133	5	**01145**1025	listino
10,3	87	133	5	**01145**1030	*see price list*
10,4	87	133	5	**01145**1040	
10,5	87	133	5	**01145**1050	
10,6	87	133	5	**01145**1060	
10,7	94	142	5	**01145**1070	
10,75	94	142	5	**01145**1075	
10,8	94	142	5	**01145**1080	
10,9	94	142	5	**01145**1090	
11	94	142	5	**01145**1100	
11,1	94	142	5	**01145**1110	
11,2	94	142	5	**01145**1120	
11,25	94	142	5	**01145**1125	
11,3	94	142	5	**01145**1130	
11,4	94	142	5	**01145**1140	
11,5	94	142	5	**01145**1150	
11,6	94	142	5	**01145**1160	
11,7	94	142	5	**01145**1170	
11,75	94	142	5	**01145**1175	
11,8	94	142	5	**01145**1180	
11,9	101	151	5	**01145**1190	
12	101	151	5	**01145**1200	
12,1	101	151	5	**01145**1210	
12,2	101	151	5	**01145**1220	
12,25	101	151	5	**01145**1225	
12,3	101	151	5	**01145**1230	
12,4	101	151	5	**01145**1240	
12,5	101	151	5	**01145**1250	
12,6	101	151	5	**01145**1260	
12,7	101	151	5	**01145**1270	
12,75	101	151	5	**01145**1275	
12,8	101	151	5	**01145**1280	
12,9	101	151	5	**01145**1290	
13	101	151	5	**01145**1300	
13,1	101	151	3	**01145**1310	
13,2	101	151	3	**01145**1320	
13,25	108	160	3	**01145**1325	
13,3	108	160	3	**01145**1330	
13,4	108	160	3	**01145**1340	
13,5	108	160	3	**01145**1350	
13,6	108	160	3	**01145**1360	
13,7	108	160	3	**01145**1370	
13,75	108	160	3	**01145**1375	

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
13,8	108	160	3	**01145**1380	consultare
13,9	108	160	3	**01145**1390	listino
14	108	160	3	**01145**1400	*see price list*
14,1	108	160	3	**01145**1410	
14,2	114	169	3	**01145**1420	
14,25	114	169	3	**01145**1425	
14,3	114	169	3	**01145**1430	
14,4	114	169	3	**01145**1440	
14,5	114	169	3	**01145**1450	
14,6	114	169	3	**01145**1460	
14,7	114	169	3	**01145**1470	
14,75	114	169	3	**01145**1475	
14,8	114	169	3	**01145**1480	
14,9	114	169	3	**01145**1490	
15	114	169	3	**01145**1500	
15,1	120	178	3	**01145**1510	
15,2	120	178	3	**01145**1520	
15,25	120	178	3	**01145**1525	
15,3	120	178	3	**01145**1530	
15,4	120	178	3	**01145**1540	
15,5	120	178	3	**01145**1550	
15,6	120	178	3	**01145**1560	
15,7	120	178	3	**01145**1570	
15,75	120	178	3	**01145**1575	
15,8	120	178	3	**01145**1580	
15,9	120	178	3	**01145**1590	
16	120	178	3	**01145**1600	
16,25	125	184	1	**01145**1625	
16,5	125	184	1	**01145**1650	
16,75	125	184	1	**01145**1675	
17	125	184	1	**01145**1700	
17,25	130	191	1	**01145**1725	
17,5	130	191	1	**01145**1750	
17,75	130	191	1	**01145**1775	
18	130	191	1	**01145**1800	
18,25	135	198	1	**01145**1825	
18,5	135	198	1	**01145**1850	
18,75	135	198	1	**01145**1875	
19	135	198	1	**01145**1900	
19,25	140	205	1	**01145**1925	
19,5	140	205	1	**01145**1950	
19,75	140	205	1	**01145**1975	
20	140	205	1	**01145**2000	

PUNTE ELICOIDALI AL COBALTO 5%, SERIE CORTA, CODOLO RIDOTTO

EN *Cobalt 5% straight shank twist drills, stub serie*
FR *Forets cylindriques à queue réduite au cobalt 5%*
ESP *Brocas helicoidales de cobalto 5% vastago reducido*
PT *Brocas helicoidais de veio reduzida em cobalto 5%, série curta*

01147 **HSS-CO 5%**

DIN 338 RETTIFICATA
Ground from the solid

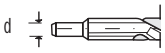
CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N
H8



HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)



d=10 mm

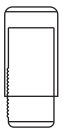


< 5 d



SELF ART. 01151
Su richiesta / *On demand*





Confezione
Packaging

H8	l	L	d			
Ø mm	mm	mm	mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**01147**1025	consultare
10,5	87	133	10	5	**01147**1050	listino
10,75	94	142	10	5	**01147**1075	*see price list*
11	94	142	10	5	**01147**1100	
11,25	94	142	10	5	**01147**1125	
11,5	94	142	10	5	**01147**1150	
11,75	94	142	10	5	**01147**1175	
12	101	151	10	5	**01147**1200	
12,25	101	151	10	5	**01147**1225	
12,5	101	151	10	5	**01147**1250	
12,75	101	151	10	5	**01147**1275	
13	101	151	10	5	**01147**1300	
13,25	108	160	10	3	**01147**1325	
13,5	108	160	10	3	**01147**1350	
13,75	108	160	10	3	**01147**1375	
14	108	160	10	3	**01147**1400	
14,25	114	169	10	3	**01147**1425	
14,5	114	169	10	3	**01147**1450	
14,75	114	169	10	3	**01147**1475	
15	114	169	10	3	**01147**1500	
15,25	120	178	10	3	**01147**1525	
15,5	120	178	10	3	**01147**1550	
15,75	120	178	10	3	**01147**1575	
16	120	178	10	3	**01147**1600	
16,5	125	184	10	1	**01147**1650	
17	125	184	10	1	**01147**1700	
17,5	130	191	10	1	**01147**1750	
18	130	191	10	1	**01147**1800	
18,5	135	198	10	1	**01147**1850	
19	135	198	10	1	**01147**1900	
19,5	140	205	10	1	**01147**1950	
20	140	205	10	1	**01147**2000	

R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5%, SERIE CORTA, CODOLO RIDOTTO

EN *Cobalt 5% straight shank twist drills, stub serie*
FR *Forets cylindriques à queue réduite au cobalt 5%*
ESP *Brocas helicoidales de cobalto 5% vastago reducido*
PT *Brocas helicoidais de veio reduzida em cobalto 5%, série curta*

01146 **HSS-CO 5%**

DIN 338 RETTIFICATA
Ground from the solid

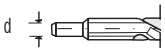
CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N
H8



HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C
(Ø≥3 mm)

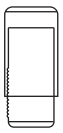


d=13 mm



< 5 d





Confezione
Packaging

H8	l	L	d			
Ø mm	mm	mm	mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01146**1325	consultare
13,5	108	160	13	3	**01146**1350	listino
13,75	108	160	13	3	**01146**1375	*see price list*
14	108	160	13	3	**01146**1400	
14,25	114	169	13	3	**01146**1425	
14,5	114	169	13	3	**01146**1450	
14,75	114	169	13	3	**01146**1475	
15	114	169	13	3	**01146**1500	
15,25	120	178	13	3	**01146**1525	
15,5	120	178	13	1	**01146**1550	
15,75	120	178	13	1	**01146**1575	
16	120	178	13	1	**01146**1600	
16,5	125	184	13	1	**01146**1650	
17	125	184	13	1	**01146**1700	
17,5	130	191	13	1	**01146**1750	
18	130	191	13	1	**01146**1800	
18,5	135	198	13	1	**01146**1850	
19	135	198	13	1	**01146**1900	
19,5	140	205	13	1	**01146**1950	
20	140	205	13	1	**01146**2000	
20,5	145	213	13	1	**01146**2050	
21	145	213	13	1	**01146**2100	
21,5	150	221	13	1	**01146**2150	
22	150	221	13	1	**01146**2200	
22,5	150	221	13	1	**01146**2250	
23	155	229	13	1	**01146**2300	
23,5	155	229	13	1	**01146**2350	
24	160	236	13	1	**01146**2400	
24,5	160	236	13	1	**01146**2450	
25	160	236	13	1	**01146**2500	

R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5%

EN *Cobalt 5% straight shank twist drills, stub serie*
FR *Forets cylindriques au cobalt 5%*
ESP *Brocas helicoidales de cobalto 5%*
PT *Brocas helicoidais de cobalto 5% totalmente retificadas*

01149 — HSS-CO 5% — DIN 1897

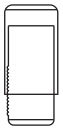
EXTRA CORTA
Extra short serie

135° 27° N H8

HV ≃ 800÷860
AISI M35
SPLIT POINT
DIN 1412 C

< 3 d





Confezione
Packaging

R ≤ 1200 N/mm²

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*
Emulsione *Lubrificant*

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	16	46	10	**01149**0300	consultare listino
3,2	18	49	10	**01149**0320	*see price list*
3,25	18	49	10	**01149**0325	
3,5	20	52	10	**01149**0350	
3,75	20	52	10	**01149**0375	
4	22	55	10	**01149**0400	
4,2	22	55	10	**01149**0420	
4,25	22	55	10	**01149**0425	
4,5	24	58	10	**01149**0450	
4,75	24	58	10	**01149**0475	
5	26	62	10	**01149**0500	
5,25	26	62	10	**01149**0525	
5,5	28	66	10	**01149**0550	
5,75	28	66	10	**01149**0575	
6	28	66	10	**01149**0600	
6,5	31	70	10	**01149**0650	
7	34	74	10	**01149**0700	
7,5	34	74	5	**01149**0750	
8	37	79	5	**01149**0800	
8,5	37	79	5	**01149**0850	
9	40	84	5	**01149**0900	
9,5	40	84	5	**01149**0950	
10	43	89	5	**01149**1000	

Punte speciali per la foratura di lamiere e tubi in acciaio inox e lamiere metalliche in genere (acciaio, ferro, rame).
Speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori.

Super short twist drills for cutting stainless metal sheets. Special for journeymen's, carpenters, locksmith's, tinsmith's.

01051 — HSS-CO 5% — NORMA KRINO

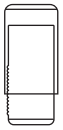
SUPER CORTA
Super short serie

135° 27° N H8

HV ≃ 800÷860
AISI M35
SPLIT POINT
DIN 1412 C

< 3 d





Confezione
Packaging

R ≤ 1200 N/mm²

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*
Emulsione *Lubrificant*

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	16	35	10	**01051**0300	consultare listino
3,25	19	40	10	**01051**0325	*see price list*
3,5	19	40	10	**01051**0350	
3,75	19	40	10	**01051**0375	
4	20	40	10	**01051**0400	
4,25	20	40	10	**01051**0425	
4,5	23	42	10	**01051**0450	
5	23	45	10	**01051**0500	

Punte speciali per la foratura di lamiere e tubi in acciaio inox e lamiere metalliche in genere (acciaio, ferro, rame).
Speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori.

Super short twist drills for cutting stainless metal sheets. Special for journeymen's, carpenters, locksmith's, tinsmith's.

PUNTE ELICOIDALI AL COBALTO 5%

EN *Cobalt 5% straight shank twist drills, stub serie*
FR *Forets cylindriques au cobalt 5%*
ESP *Brocas helicoidales de cobalto 5%*
PT *Brocas helicoidais de cobalto 5% totalmente retificadas*

01148

HSS-CO 5%

ELICA CONTRAPPOSTA
Double ended



27° N
H8

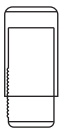


HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	 cod.	 cad/each €
2	10	38	10	**01148**0200	consultare listino
2,5	10	43	10	**01148**0250	*see price list*
3	10	46	10	**01148**0300	
3,25	10	49	10	**01148**0325	
3,5	12	52	10	**01148**0350	
3,75	12	55	10	**01148**0375	
4	12	55	10	**01148**0400	
4,1	12	55	10	**01148**0410	
4,25	12	58	10	**01148**0425	
4,5	12	58	10	**01148**0450	
4,75	13	62	10	**01148**0475	
4,9	13	62	10	**01148**0490	
5	13	62	10	**01148**0500	
5,1	13	62	10	**01148**0510	
5,5	16	66	10	**01148**0550	
6	16	66	10	**01148**0600	



R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI AL COBALTO 5%, SERIE LUNGA

EN *Cobalt 5% long straight shank twist drills*
FR *Forets cylindriques série longue au cobalt 5%*
ESP *Brocas helicoidales serie larga de cobalto 5%*
PT *Brocas helicoidais de veio reto e longo em cobalto 5%*

01152 **HSS-CO 5%** **DIN 340**

SERIE LUNGA
Long serie



27° N
H8

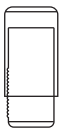


HV = 800÷860
AISI M35
SPLIT POINT
DIN 1412 C



< 8 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
1	33	56	10	**01152**0100	consultare listino *see price list*
1,5	45	70	10	**01152**0150	
1,75	53	80	10	**01152**0175	
2	56	85	10	**01152**0200	
2,25	59	90	10	**01152**0225	
2,5	62	95	10	**01152**0250	
2,75	66	100	10	**01152**0275	
3	66	100	10	**01152**0300	
3,25	69	106	10	**01152**0325	
3,5	73	112	10	**01152**0350	
3,75	73	112	10	**01152**0375	
4	78	119	10	**01152**0400	
4,25	78	119	10	**01152**0425	
4,5	82	126	10	**01152**0450	
4,75	82	126	10	**01152**0475	
5	87	132	10	**01152**0500	
5,25	87	132	10	**01152**0525	
5,5	91	139	10	**01152**0550	
5,75	91	139	10	**01152**0575	
6	91	139	10	**01152**0600	
6,25	97	148	5	**01152**0625	
6,5	97	148	5	**01152**0650	
6,75	97	148	5	**01152**0675	
7	102	156	5	**01152**0700	
7,25	102	156	5	**01152**0725	
7,5	102	156	5	**01152**0750	
7,75	109	165	5	**01152**0775	
8	109	165	5	**01152**0800	
8,25	109	165	5	**01152**0825	
8,5	109	165	5	**01152**0850	
8,75	115	175	5	**01152**0875	
9	115	175	5	**01152**0900	
9,25	115	175	5	**01152**0925	
9,5	115	175	5	**01152**0950	
9,75	121	184	5	**01152**0975	
10	121	184	5	**01152**1000	
10,25	121	184	5	**01152**1025	
10,5	121	184	5	**01152**1050	
10,75	128	195	5	**01152**1075	
11	128	195	5	**01152**1100	
11,25	128	195	5	**01152**1125	
11,5	128	195	5	**01152**1150	
11,75	134	205	5	**01152**1175	
11,8	134	205	5	**01152**1180	
12	134	205	5	**01152**1200	
12,25	134	205	5	**01152**1225	
12,5	134	205	5	**01152**1250	
12,75	134	205	5	**01152**1275	
13	134	205	5	**01152**1300	
13,5	140	214	3	**01152**1350	
14	140	214	3	**01152**1400	
14,5	144	220	3	**01152**1450	
15	144	220	3	**01152**1500	
15,5	149	227	3	**01152**1550	
16	149	227	3	**01152**1600	
16,5	154	235	1	**01152**1650	
17	154	235	1	**01152**1700	
17,5	158	241	1	**01152**1750	
18	158	241	1	**01152**1800	
18,5	162	247	1	**01152**1850	
19	162	247	1	**01152**1900	
19,5	166	254	1	**01152**1950	
20	166	254	1	**01152**2000	

R ≤ 1200 N/mm²



Inox
Stainless



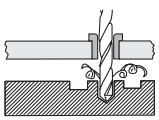
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI IN POLLICI AL COBALTO 5%, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA

EN *Cobalt 5% twist drills ground from the solid in inches*
FR *Forets cylindriques au cobalt 5% entièrement rectifiés en pouce*
ESP *Broca helicoidale rectificada de cobalto 5% en pulgadas*
PT *Brocas helicoidais de cobalto 5% totalmente retificados em polegadas*

01157 **HSS-CO 5%** **ANSI B94**

SERIE CORTA - POLLICI
Short series - Pulgadas



27° N
H8

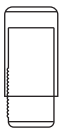


HV =800÷860
AISI M35
SPLIT POINT
DIN 1412 C



< 5 d





Confezione
Packaging

Ø *inches*	Ø mm	*l inches*	L *inches*	pcs.	cod.	cad/each €
1/64	0,40	3/16	3/4	10	**0115711**	consultare listino
1/32	0,79	1/2	1-3/8	10	**0115712**	*see price list*
3/64	1,19	3/4	1-3/4	10	**0115713**	
1/16	1,59	7/8	1-7/8	10	**0115714**	
5/64	1,98	1	2	10	**0115715**	
3/32	2,38	1-1/4	2-1/4	10	**0115716**	
7/64	2,78	1-1/2	2-5/8	10	**0115717**	
1/8	3,17	1-5/8	2-3/4	10	**0115718**	
9/64	3,57	1-3/4	2-7/8	10	**0115719**	
5/32	3,97	2	3-1/8	10	**0115720**	
11/64	4,37	2-1/8	3-1/4	10	**0115721**	
3/16	4,76	2-5/16	3-1/2	10	**0115722**	
13/64	5,16	2-7/16	3-5/8	10	**0115723**	
7/32	5,56	2-1/2	3-3/4	10	**0115724**	
15/64	5,95	2-5/8	3-7/8	10	**0115725**	
1/4	6,35	2-3/4	4	10	**0115726**	
17/64	6,75	2-7/8	4-1/8	10	**0115727**	
9/32	7,14	2-15/16	4-1/4	5	**0115728**	
19/64	7,54	3-1/16	4-3/8	5	**0115729**	
5/16	7,94	3-3/16	4-1/2	5	**0115730**	
21/64	8,33	3-5/16	4-5/8	5	**0115731**	
11/32	8,73	3-7/16	4-3/4	5	**0115732**	
23/64	9,13	3-1/2	4-7/8	5	**0115733**	
3/8	9,52	3-5/8	5	5	**0115734**	
25/64	9,92	3-3/4	5-1/8	5	**0115735**	
13/32	10,32	3-7/8	5-1/4	5	**0115736**	
27/64	10,72	3-15/16	5-3/8	5	**0115737**	
7/16	11,11	4-1/16	5-1/2	5	**0115738**	
29/64	11,51	4-3/16	5-5/8	5	**0115739**	
15/32	11,91	4-5/16	5-3/4	5	**0115740**	
31/64	12,30	4-7/16	5-7/8	5	**0115741**	
1/2	12,70	4-1/2	6	5	**0115742**	
33/64	13,10	4-13/16	6-5/8	3	**0115743**	
17/32	13,49	4-13/16	6-5/8	3	**0115744**	
35/64	13,89	4-13/16	6-5/8	3	**0115745**	
9/16	14,29	4-13/16	6-5/8	3	**0115746**	
37/64	14,68	4-13/16	6-5/8	3	**0115747**	
19/32	15,08	5-3/16	7-1/8	3	**0115748**	
39/64	15,48	5-3/16	7-1/8	3	**0115749**	
5/8	15,88	5-3/16	7-1/8	3	**0115750**	
11/16	17,46	5-5/8	7-5/8	1	**0115754**	
3/4	19,05	6	8	1	**0115758**	

R ≤ 1200 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO SUI TAGLIENTI E CON ANGOLO AL VERTICE DI 118°

EN *TiN coated twist drills*
FR *Forets cylindriques au nitrure de titan*
ESP *Brocas helicoidales con recubrimiento de titanio*
PT *Brocas helicoidais revestidas a TiN*

01320 | **HSS-G** | **TiN**

DIN 338 - 118° RIVESTITA SUI TAGLIENTI
Titanium coated

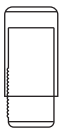
SERIE CORTA - 118°
Short serie - 118°

118° 27° N H8

HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2	24	49	10	**013200200**	consultare listino
2,1	24	49	10	**013200210**	*see price list*
2,2	27	53	10	**013200220**	
2,25	27	53	10	**013200225**	
2,3	27	53	10	**013200230**	
2,4	30	57	10	**013200240**	
2,5	30	57	10	**013200250**	
2,6	30	57	10	**013200260**	
2,7	33	61	10	**013200270**	
2,75	33	61	10	**013200275**	
2,8	33	61	10	**013200280**	
2,9	33	61	10	**013200290**	
3	33	61	10	**013200300**	
3,1	36	65	10	**013200310**	
3,2	36	65	10	**013200320**	
3,25	36	65	10	**013200325**	
3,3	36	65	10	**013200330**	
3,4	39	70	10	**013200340**	
3,5	39	70	10	**013200350**	
3,6	39	70	10	**013200360**	
3,7	39	70	10	**013200370**	
3,75	39	70	10	**013200375**	
3,8	43	75	10	**013200380**	
3,9	43	75	10	**013200390**	
4	43	75	10	**013200400**	
4,1	43	75	10	**013200410**	
4,2	43	75	10	**013200420**	
4,25	43	75	10	**013200425**	
4,3	47	80	10	**013200430**	
4,4	47	80	10	**013200440**	
4,5	47	80	10	**013200450**	
4,6	47	80	10	**013200460**	
4,7	47	80	10	**013200470**	
4,75	47	80	10	**013200475**	
4,8	52	86	10	**013200480**	
4,9	52	86	10	**013200490**	
5	52	86	10	**013200500**	
5,1	52	86	10	**013200510**	
5,2	52	86	10	**013200520**	
5,25	52	86	10	**013200525**	
5,3	52	86	10	**013200530**	
5,4	57	93	10	**013200540**	
5,5	57	93	10	**013200550**	
5,6	57	93	10	**013200560**	
5,7	57	93	10	**013200570**	
5,75	57	93	10	**013200575**	
5,8	57	93	10	**013200580**	
5,9	57	93	10	**013200590**	
6	57	93	10	**013200600**	
6,1	63	101	10	**013200610**	
6,2	63	101	10	**013200620**	
6,25	63	101	10	**013200625**	
6,3	63	101	10	**013200630**	
6,4	63	101	10	**013200640**	
6,5	63	101	10	**013200650**	
6,6	63	101	10	**013200660**	
6,7	63	101	10	**013200670**	

R ≤ 900 N/mm²

INOX Inox
Stainless

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

SERIE CORTA - 118°

Short serie - 118°

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
6,75	69	109	10	**01320**0675	consultare listino
6,8	69	109	10	**01320**0680	*see price list*
6,9	69	109	10	**01320**0690	
7	69	109	10	**01320**0700	
7,1	69	109	5	**01320**0710	
7,2	69	109	5	**01320**0720	
7,25	69	109	5	**01320**0725	
7,3	69	109	5	**01320**0730	
7,4	69	109	5	**01320**0740	
7,5	69	109	5	**01320**0750	
7,6	75	117	5	**01320**0760	
7,7	75	117	5	**01320**0770	
7,75	75	117	5	**01320**0775	
7,8	75	117	5	**01320**0780	
7,9	75	117	5	**01320**0790	
8	75	117	5	**01320**0800	
8,1	75	117	5	**01320**0810	
8,2	75	117	5	**01320**0820	
8,25	75	117	5	**01320**0825	
8,3	75	117	5	**01320**0830	
8,4	75	117	5	**01320**0840	
8,5	75	117	5	**01320**0850	
8,6	81	125	5	**01320**0860	
8,7	81	125	5	**01320**0870	
8,75	81	125	5	**01320**0875	
8,8	81	125	5	**01320**0880	
8,9	81	125	5	**01320**0890	
9	81	125	5	**01320**0900	
9,1	81	125	5	**01320**0910	
9,2	81	125	5	**01320**0920	
9,25	81	125	5	**01320**0925	
9,3	81	125	5	**01320**0930	
9,4	81	125	5	**01320**0940	
9,5	81	125	5	**01320**0950	
9,6	87	133	5	**01320**0960	
9,7	87	133	5	**01320**0970	
9,75	87	133	5	**01320**0975	
9,8	87	133	5	**01320**0980	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
9,9	87	133	5	**01320**0990	consultare listino
10	87	133	5	**01320**1000	*see price list*
10,1	87	133	5	**01320**1010	
10,2	87	133	5	**01320**1020	
10,25	87	133	5	**01320**1025	
10,3	87	133	5	**01320**1030	
10,4	87	133	5	**01320**1040	
10,5	87	133	5	**01320**1050	
10,6	87	133	5	**01320**1060	
10,7	94	142	5	**01320**1070	
10,75	94	142	5	**01320**1075	
10,8	94	142	5	**01320**1080	
10,9	94	142	5	**01320**1090	
11	94	142	5	**01320**1100	
11,1	94	142	5	**01320**1110	
11,2	94	142	5	**01320**1120	
11,25	94	142	5	**01320**1125	
11,3	94	142	5	**01320**1130	
11,4	94	142	5	**01320**1140	
11,5	94	142	5	**01320**1150	
11,6	94	142	5	**01320**1160	
11,7	94	142	5	**01320**1170	
11,75	94	142	5	**01320**1175	
11,8	94	142	5	**01320**1180	
11,9	101	151	5	**01320**1190	
12	101	151	5	**01320**1200	
12,1	101	151	5	**01320**1210	
12,2	101	151	5	**01320**1220	
12,25	101	151	5	**01320**1225	
12,3	101	151	5	**01320**1230	
12,4	101	151	5	**01320**1240	
12,5	101	151	5	**01320**1250	
12,6	101	151	5	**01320**1260	
12,7	101	151	5	**01320**1270	
12,75	101	151	5	**01320**1275	
12,8	101	151	5	**01320**1280	
12,9	101	151	5	**01320**1290	
13	101	151	5	**01320**1300	

CARATTERISTICHE DEL RIVESTIMENTO TiN

Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

Features of TiN coating

TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.

Caractéristiques du revêtement TiN

Le revêtement monocouche en TiN a pour but d'augmenter la résistance à l'usure et à l'oxydation auxquelles les outils sont soumis lors des opérations de perçage : il présente d'excellentes caractéristiques de microdureté (HV 0,05–2 300), un faible coefficient de frottement (0,4) et une température maximale de fonctionnement de 500 °C. Ce revêtement de quelques µm, déposé par dépôt physique en phase vapeur (Physical Vapour Deposition), permet ainsi d'augmenter la durée de vie des outils de coupe, tout en améliorant la finition de surface et, par conséquent, l'évacuation des copeaux.

Características del recubrimiento de TiN

El recubrimiento monocapa de TiN tiene como objetivo aumentar la resistencia al desgaste y a la oxidación a los que se ven sometidas las herramientas durante los procesos de taladrado: presenta excelentes características de microdureza (HV 0,05–2300), un bajo coeficiente de fricción (0,4) y una temperatura máxima de funcionamiento de 500 °C. El recubrimiento, de tan solo unos pocos µm, depositado físicamente mediante vapor (Physical Vapour Deposition), permite, por lo tanto, aumentar la vida útil de las herramientas de corte, mejorando además el acabado superficial y el consiguiente deslizamiento de las virutas de mecanizado.

Características do revestimento TiN

O revestimento monocamada de TiN tem como objetivo aumentar a resistência ao desgaste e à oxidação a que as ferramentas são submetidas durante as operações de perfuração: possui excelentes características de microdureza (HV 0,05–2.300), um baixo coeficiente de atrito (0,4) e uma temperatura máxima de operação de 500 °C. O revestimento de poucos µm, depositado por meio do processo de deposição física de vapor (Physical Vapour Deposition), permite, portanto, aumentar a vida útil das ferramentas de corte, melhorando também o acabamento superficial e o consequente deslizamento das limalhas de usinagem.

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO

EN *TiN coated twist drills*
FR *Forets cylindriques au nitrure de titan*
ESP *Brocas helicoidales con recubrimiento de titanio*
PT *Brocas helicoidais revestidas a TiN*

01160 | **HSS-G** | **TiN** | **DIN 338 RETTIFICATA** *Ground from the solid* | **SERIE CORTA** *Short serie*



27° N
H8



HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

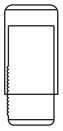


< 5 d



SELF ART. 01161
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	10	**01160**0100	consultare listino
1,1	14	36	10	**01160**0110	*see price list*
1,2	16	38	10	**01160**0120	
1,25	16	38	10	**01160**0125	
1,3	16	38	10	**01160**0130	
1,4	18	40	10	**01160**0140	
1,5	18	40	10	**01160**0150	
1,6	20	43	10	**01160**0160	
1,7	20	43	10	**01160**0170	
1,75	22	46	10	**01160**0175	
1,8	22	46	10	**01160**0180	
1,9	22	46	10	**01160**0190	
2	24	49	10	**01160**0200	
2,1	24	49	10	**01160**0210	
2,2	27	53	10	**01160**0220	
2,25	27	53	10	**01160**0225	
2,3	27	53	10	**01160**0230	
2,4	30	57	10	**01160**0240	
2,5	30	57	10	**01160**0250	
2,6	30	57	10	**01160**0260	
2,7	33	61	10	**01160**0270	
2,75	33	61	10	**01160**0275	
2,8	33	61	10	**01160**0280	
2,9	33	61	10	**01160**0290	
3	33	61	10	**01160**0300	
3,1	36	65	10	**01160**0310	
3,2	36	65	10	**01160**0320	
3,25	36	65	10	**01160**0325	
3,3	36	65	10	**01160**0330	
3,4	39	70	10	**01160**0340	
3,5	39	70	10	**01160**0350	
3,6	39	70	10	**01160**0360	
3,7	39	70	10	**01160**0370	
3,75	39	70	10	**01160**0375	
3,8	43	75	10	**01160**0380	
3,9	43	75	10	**01160**0390	
4	43	75	10	**01160**0400	
4,1	43	75	10	**01160**0410	
4,2	43	75	10	**01160**0420	
4,25	43	75	10	**01160**0425	
4,3	47	80	10	**01160**0430	
4,4	47	80	10	**01160**0440	
4,5	47	80	10	**01160**0450	
4,6	47	80	10	**01160**0460	
4,7	47	80	10	**01160**0470	
4,75	47	80	10	**01160**0475	
4,8	52	86	10	**01160**0480	
4,9	52	86	10	**01160**0490	
5	52	86	10	**01160**0500	
5,1	52	86	10	**01160**0510	
5,2	52	86	10	**01160**0520	
5,25	52	86	10	**01160**0525	
5,3	52	86	10	**01160**0530	
5,4	57	93	10	**01160**0540	
5,5	57	93	10	**01160**0550	
5,6	57	93	10	**01160**0560	
5,7	57	93	10	**01160**0570	

R ≤ 900 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
5,75	57	93	10	**01160**0575	consultare listino
5,8	57	93	10	**01160**0580	*see price list*
5,9	57	93	10	**01160**0590	
6	57	93	10	**01160**0600	
6,1	63	101	10	**01160**0610	
6,2	63	101	10	**01160**0620	
6,25	63	101	10	**01160**0625	
6,3	63	101	10	**01160**0630	
6,4	63	101	10	**01160**0640	
6,5	63	101	10	**01160**0650	
6,6	63	101	10	**01160**0660	
6,7	63	101	10	**01160**0670	
6,75	69	109	10	**01160**0675	
6,8	69	109	10	**01160**0680	
6,9	69	109	10	**01160**0690	
7	69	109	10	**01160**0700	
7,1	69	109	5	**01160**0710	
7,2	69	109	5	**01160**0720	
7,25	69	109	5	**01160**0725	
7,3	69	109	5	**01160**0730	
7,4	69	109	5	**01160**0740	
7,5	69	109	5	**01160**0750	
7,6	75	117	5	**01160**0760	
7,7	75	117	5	**01160**0770	
7,75	75	117	5	**01160**0775	
7,8	75	117	5	**01160**0780	
7,9	75	117	5	**01160**0790	
8	75	117	5	**01160**0800	
8,1	75	117	5	**01160**0810	
8,2	75	117	5	**01160**0820	
8,25	75	117	5	**01160**0825	
8,3	75	117	5	**01160**0830	
8,4	75	117	5	**01160**0840	
8,5	75	117	5	**01160**0850	
8,6	81	125	5	**01160**0860	
8,7	81	125	5	**01160**0870	
8,75	81	125	5	**01160**0875	
8,8	81	125	5	**01160**0880	
8,9	81	125	5	**01160**0890	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
9	81	125	5	**01160**0900	consultare listino
9,1	81	125	5	**01160**0910	*see price list*
9,2	81	125	5	**01160**0920	
9,25	81	125	5	**01160**0925	
9,3	81	125	5	**01160**0930	
9,4	81	125	5	**01160**0940	
9,5	81	125	5	**01160**0950	
9,6	87	133	5	**01160**0960	
9,7	87	133	5	**01160**0970	
9,75	87	133	5	**01160**0975	
9,8	87	133	5	**01160**0980	
9,9	87	133	5	**01160**0990	
10	87	133	5	**01160**1000	
10,25	87	133	5	**01160**1025	
10,5	87	133	5	**01160**1050	
10,75	94	142	5	**01160**1075	
11	94	142	5	**01160**1100	
11,25	94	142	5	**01160**1125	
11,5	94	142	5	**01160**1150	
11,75	94	142	5	**01160**1175	
12	101	151	5	**01160**1200	
12,25	101	151	5	**01160**1225	
12,5	101	151	5	**01160**1250	
12,75	101	151	5	**01160**1275	
13	101	151	5	**01160**1300	
13,5	108	160	3	**01160**1350	
14	108	160	3	**01160**1400	
14,5	114	169	3	**01160**1450	
15	114	169	3	**01160**1500	
15,5	120	178	3	**01160**1550	
16	120	178	3	**01160**1600	
16,5	125	184	1	**01160**1650	
17	125	184	1	**01160**1700	
17,5	130	191	1	**01160**1750	
18	130	191	1	**01160**1800	
18,5	135	198	1	**01160**1850	
19	135	198	1	**01160**1900	
19,5	140	205	1	**01160**1950	
20	140	205	1	**01160**2000	

CARATTERISTICHE DEL RIVESTIMENTO TiN
Il rivestimento monostrato TiN ha lo scopo di incrementare la resistenza a fenomeni di usura e ossidazione cui gli utensili sono sottoposti durante le lavorazioni di foratura: ha ottime caratteristiche di microdurezza (HV 0.05 2300), un basso coefficiente di attrito (0.4), una temperatura massima di esercizio pari a 500°C. Il rivestimento di pochi µm, depositato per via fisica mediante vapore (Physical Vapour Deposition), consente pertanto di aumentare la vita utile degli utensili da taglio, migliorando anche la finitura superficiale ed il conseguente scorrimento dei trucioli di lavorazione.

Features of TiN coating
TiN monolayer coating can increase both wear and oxidation resistance of every tool. It has high hardness (HV 0.05 2300), low friction coefficient (0.4), maximum working temperature 500°C. The coating thickness is very low (µm) and it's produced by Physical Vapour Deposition. TiN coating increases the life cycle of the tool, also improving the surface finishing and the drilling chips removal.

Caractéristiques du revêtement TiN
Le revêtement monocouche en TiN a pour but d'augmenter la résistance à l'usure et à l'oxydation auxquelles les outils sont soumis lors des opérations de perçage : il présente d'excellentes caractéristiques de microdureté (HV 0,05–2 300), un faible coefficient de frottement (0,4) et une température maximale de fonctionnement de 500 °C. Ce revêtement de quelques µm, déposé par dépôt physique en phase vapeur (Physical Vapour Deposition), permet ainsi d'augmenter la durée de vie des outils de coupe, tout en améliorant la finition de surface et, par conséquent, l'évacuation des copeaux.

Características del recubrimiento de TiN
El recubrimiento monocapa de TiN tiene como objetivo aumentar la resistencia al desgaste y a la oxidación a los que se ven sometidas las herramientas durante los procesos de taladrado: presenta excelentes características de microdureza (HV 0,05–2300), un bajo coeficiente de fricción (0,4) y una temperatura máxima de funcionamiento de 500 °C. El recubrimiento, de tan solo unos pocos µm, depositado físicamente mediante vapor (Physical Vapour Deposition), permite, por lo tanto, aumentar la vida útil de las herramientas de corte, mejorando además el acabado superficial y el consiguiente deslizamiento de las virutas de mecanizado.

Características do revestimento TiN
O revestimento monocamada de TiN tem como objetivo aumentar a resistência ao desgaste e à oxidação a que as ferramentas são submetidas durante as operações de perfuração: possui excelentes características de microdureza (HV 0,05–2.300), um baixo coeficiente de atrito (0,4) e uma temperatura máxima de operação de 500 °C. O revestimento de poucos µm, depositado por meio do processo de deposição física de vapor (Physical Vapour Deposition), permite, portanto, aumentar a vida útil das ferramentas de corte, melhorando também o acabamento superficial e o consequente deslizamento das limalhas de usinagem.

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO RIVESTITE AL NITRURO DI TITANIO

EN *Reduced shank TiN coated twist drills*
FR *Forets cylindriques au nitrure de titan à queue degageé*
ESP *Brocas helicoidales con recubrimiento de titanio y vastago reducido*
PT *Brocas helicoidais de veio reduzida revestidas a TiN*

01163 HSS-G TiN

DIN 338 RETTIFICATA
Ground from the solid

CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm

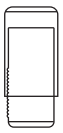
135° 27° N H8

HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

< 5 d

d
d=10 mm





Confezione
Packaging

R ≤ 900 N/mm²

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*

Emulsione *Lubrificant*

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**01163**1025	consultare
10,5	87	133	10	5	**01163**1050	listino
10,75	94	142	10	5	**01163**1075	*see price list*
11	94	142	10	5	**01163**1100	
11,25	94	142	10	5	**01163**1125	
11,5	94	142	10	5	**01163**1150	
11,75	94	142	10	5	**01163**1175	
12	101	151	10	5	**01163**1200	
12,25	101	151	10	5	**01163**1225	
12,5	101	151	10	5	**01163**1250	
12,75	101	151	10	5	**01163**1275	
13	101	151	10	5	**01163**1300	
13,5	108	160	10	3	**01163**1350	
14	108	160	10	3	**01163**1400	
14,5	114	169	10	3	**01163**1450	
15	114	169	10	3	**01163**1500	
15,5	120	178	10	3	**01163**1550	
16	120	178	10	3	**01163**1600	
16,5	125	184	10	1	**01163**1650	
17	125	184	10	1	**01163**1700	
17,5	130	191	10	1	**01163**1750	
18	130	191	10	1	**01163**1800	
18,5	135	198	10	1	**01163**1850	
19	135	198	10	1	**01163**1900	
19,5	140	205	10	1	**01163**1950	
20	140	205	10	1	**01163**2000	

01164 HSS-G TiN

DIN 338 RETTIFICATA
Ground from the solid

CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm

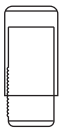
135° 27° N H8

HV 0,05 = 2500
AISI M2
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

< 5 d

d
d=13 mm





Confezione
Packaging

R ≤ 900 N/mm²

Inox *Stainless*
Metalli *Metals*
Acciaio *Steel*

Emulsione *Lubrificant*

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,5	108	160	13	3	**01164**1350	consultare
14	108	160	13	3	**01164**1400	listino
14,5	114	169	13	3	**01164**1450	*see price list*
15	114	169	13	3	**01164**1500	
15,5	120	178	13	3	**01164**1550	
16	120	178	13	3	**01164**1600	
16,5	125	184	13	1	**01164**1650	
17	125	184	13	1	**01164**1700	
17,5	130	191	13	1	**01164**1750	
18	130	191	13	1	**01164**1800	
18,5	135	198	13	1	**01164**1850	
19	135	198	13	1	**01164**1900	
19,5	140	205	13	1	**01164**1950	
20	140	205	13	1	**01164**2000	

PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO, SERIE EXTRA CORTA

EN *HSS-G TiN coated twist drills, stub serie*
FR *Forets cylindriques au nitrure de titan série extra courte*
ESP *Brocas helicoidales con recubrimiento de titanio serie extra corta*
PT *Brocas helicoidais revestidas a tin, série extra curta*

01166 | **HSS-G** | **TiN** | **DIN 1897 RETTIFICATA** *Ground from the solid* | **SERIE EXTRA CORTA** *Extra short serie*



27° N
H8

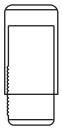


HV 0,05 ≃ 2500
SPLIT POINT
DIN 1412C
(Ø≥3 mm)



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
3	16	46	10	**01166**0300	consultare
3,25	18	49	10	**01166**0325	listino
3,50	20	52	10	**01166**0350	*see price list*
3,75	20	52	10	**01166**0375	
4	22	55	10	**01166**0400	
4,50	24	58	10	**01166**0450	
5	26	62	10	**01166**0500	
5,5	28	66	10	**01166**0550	
6	28	66	10	**01166**0600	



R ≤ 900 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE RIVESTITE AL NITRURO DI TITANIO, SERIE LUNGA

EN *HSS-G TiN coated twist drills, long serie*
FR *Forets au nitrure de Titan, série longue*
ESP *Brocas helicoidales con recubrimiento de titanio serie larga*
PT *Brocas helicoidais revestidas a TiN, série longa*

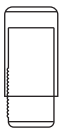
01168 | **HSS-G** | **TiN** | **DIN 340 RETTIFICATA** *Ground from the solid* | **SERIE LUNGA** *Long serie*

135° 27° N H8

HV 0,05 ≈ 2500
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

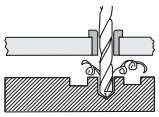
< 8 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	66	100	10	**01168**0300	consultare listino
3,25	69	106	10	**01168**0325	*see price list*
3,5	73	112	10	**01168**0350	
3,75	73	112	10	**01168**0375	
4	78	119	10	**01168**0400	
4,25	78	119	10	**01168**0425	
4,5	82	126	10	**01168**0450	
4,75	82	126	10	**01168**0475	
5	87	132	10	**01168**0500	
5,25	87	132	10	**01168**0525	
5,5	91	139	10	**01168**0550	
5,75	91	139	10	**01168**0575	
6	91	139	10	**01168**0600	
6,5	97	148	5	**01168**0650	
7	102	156	5	**01168**0700	
7,5	102	156	5	**01168**0750	
8	109	165	5	**01168**0800	
8,5	109	165	5	**01168**0850	
9	115	175	5	**01168**0900	
9,5	115	175	5	**01168**0950	
10	121	184	5	**01168**1000	



R ≤ 900 N/mm²

INOX Inox *Stainless*

Metalli *Metals*

Acciaio *Steel*

Emulsione *Lubrificant*

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO SERIE CORTA, IN POLLICI

EN *TiN coated twist drills in inches*
FR *Forets cylindriques au nitrure de titan en pouce*
ESP *Brocas helicoidales con recubrimiento de titanio en pulgadas*
PT *Brocas helicoidais revestidas a TiN em polegadas*

01162 | **HSS-G** | **TiN**

DIN 340 RETTIFICATA
Ground from the solid

SERIE CORTA - POLLICI
Short series - Pulgadas



27° N
H8

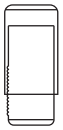


HV 0,05 ≃ 2500
SPLIT POINT
DIN 1412 C



< 5 d





Confezione
Packaging

Ø *inches*	Ø mm	*l inches*	L *inches*	pcs.	cod.	cad/each €
1/64	0,40	3/16	3/4	10	**0116211**	consultare listino
1/32	0,79	1/2	1-3/8	10	**0116212**	*see price list*
3/64	1,19	3/4	1-3/4	10	**0116213**	
1/16	1,59	7/8	1-7/8	10	**0116214**	
5/64	1,98	1	2	10	**0116215**	
3/32	2,38	1-1/4	2-1/4	10	**0116216**	
7/64	2,78	1-1/2	2-5/8	10	**0116217**	
1/8	3,17	1-5/8	2-3/4	10	**0116218**	
9/64	3,57	1-3/4	2-7/8	10	**0116219**	
5/32	3,97	2	3-1/8	10	**0116220**	
11/64	4,37	2-1/8	3-1/4	10	**0116221**	
3/16	4,76	2-5/16	3-1/2	10	**0116222**	
13/64	5,16	2-7/16	3-5/8	10	**0116223**	
7/32	5,56	2-1/2	3-3/4	10	**0116224**	
15/64	5,95	2-5/8	3-7/8	10	**0116225**	
1/4	6,35	2-3/4	4	10	**0116226**	
17/64	6,75	2-7/8	4-1/8	10	**0116227**	
9/32	7,14	2-15/16	4-1/4	5	**0116228**	
19/64	7,54	3-1/16	4-3/8	5	**0116229**	
5/16	7,94	3-3/16	4-1/2	5	**0116230**	
21/64	8,33	3-5/16	4-5/8	5	**0116231**	
11/32	8,73	3-7/16	4-3/4	5	**0116232**	
23/64	9,13	3-1/2	4-7/8	5	**0116233**	
3/8	9,52	3-5/8	5	5	**0116234**	
25/64	9,92	3-3/4	5-1/8	5	**0116235**	
13/32	10,32	3-7/8	5-1/4	5	**0116236**	
27/64	10,72	3-15/16	5-3/8	5	**0116237**	
7/16	11,11	4-1/16	5-1/2	5	**0116238**	
29/64	11,51	4-3/16	5-5/8	5	**0116239**	
15/32	11,91	4-5/16	5-3/4	5	**0116240**	
31/64	12,30	4-3/8	5-7/8	5	**0116241**	
1/2	12,70	4-1/2	6	5	**0116242**	
33/64	13,10	4-13/16	6-5/8	3	**0116243**	
17/32	13,49	4-13/16	6-5/8	3	**0116244**	
35/64	13,89	4-13/16	6-5/8	3	**0116245**	
9/16	14,29	4-13/16	6-5/8	3	**0116246**	
37/64	14,68	4-13/16	6-5/8	3	**0116247**	
19/32	15,08	5-3/16	7-1/8	3	**0116248**	
39/64	15,48	5-3/16	7-1/8	3	**0116249**	
5/8	15,88	5-3/16	7-1/8	3	**0116250**	
11/16	17,46	5-5/8	7-5/8	1	**0116254**	
3/4	19,05	6	8	1	**0116258**	

R ≤ 900 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE CON RIVESTIMENTO AL NITRURO DI TITANIO, ATTACCO 1/4" HEX

EN *TiN coated twist drills with 1/4" hex shank*
FR *Forets cylindriques au nitrure de titan avec une queue hexagonale de 1/4"*
ESP *Brocas helicoidales con recubrimiento de titanio con vastago hexagonal de 1/4"*
PT *Brocas helicoidais revestidas a TiN com veio hexagonal de 1/4"*

01321 | **HSS-G** | **TiN**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA - ATTACCO 1/4"
Short serie - hex 1/4"

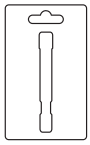
135° 27° N
H8

HV 0,05 ≈ 2500
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

1/4" HEX

< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs./blister	pcs.	cod.	cad/each €
2	71	24	2	10	**01321**0200	consultare listino
2,5	75	30	2	10	**01321**0250	*see price list*
3	78	33	2	10	**01321**0300	
3,3	82	39	2	5	**01321**0330	
3,5	87	39	2	10	**01321**0350	
4	92	43	2	10	**01321**0400	
4,2	92	43	1	5	**01321**0420	
4,5	97	47	1	10	**01321**0450	
5	103	52	1	10	**01321**0500	
5,5	110	57	1	10	**01321**0550	
6	110	57	1	10	**01321**0600	
6,5	118	63	1	10	**01321**0650	
7	109	69	1	5	**01321**0700	
7,5	109	69	1	5	**01321**0750	
8	117	75	1	5	**01321**0800	
8,5	117	75	1	5	**01321**0850	
9	125	81	1	5	**01321**0900	
9,5	125	81	1	5	**01321**0950	
10	133	87	1	5	**01321**1000	
11	142	94	1	5	**01321**1100	
12	151	101	1	5	**01321**1200	
13	151	101	1	5	**01321**1300	

R ≤ 900 N/mm²

INOX Inox
Stainless

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

Universal Fit

PUNTE ELICOIDALI CILINDRICHE IN POLLICI CON RIVESTIMENTO AL NITRURO DI TITANIO, ATTACCO 1/4" HEX

EN *TiN coated twist drills with 1/4" hex shank - in inches*
FR *Forets cylindriques au nitrure de titan avec une queue hexagonale de 1/4" - en pounce*
ESP *Brocas helicoidales con recubrimiento de titanio con vastago hexagonal de 1/4" - en pulgadas*
PT *Brocas helicoidais revestidas a TiN com veio hexagonal de 1/4" - em polegadas*

01322 | **HSS-G** | **TiN**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA - ATTACCO 1/4" - POLLICI
Short serie - Hex 1/4" - Pulgadas



27° N
H8



HV 0,05 ≃ 2500
SPLIT POINT
DIN 1412 C
(Ø≥2,5 mm)

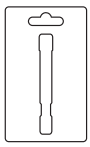


1/4" HEX



< 5 d





Confezione
Packaging

Ø *inches*	I *inches*	L *inches*	pcs. blister	pcs.	cod.	cad/each €
1/16	2-9/16	25/32	2	10	**0132214**	consultare listino
5/64	2-13/16	15/16	2	10	**0132215**	*see price list*
3/32	2-15/16	1-3/16	2	10	**0132216**	
7/64	3-1/16	1-5/16	2	10	**0132217**	
1/8	3-7/32	1-13/32	2	10	**0132218**	
9/64	3-7/16	1-1/2	2	10	**0132219**	
5/32	3-5/8	1-11/16	2	10	**0132220**	
11/64	3-13/16	1-7/8	1	10	**0132221**	
3/16	4-1/16	2-1/16	1	10	**0132222**	
7/32	4-5/16	2-1/4	1	10	**0132224**	
1/4	4-5/8	2-1/2	1	10	**0132226**	
9/32	4-9/32	2-3/4	1	5	**0132228**	
5/16	4-5/8	3	1	5	**0132230**	
11/32	4-15/16	3-1/8	1	5	**0132232**	
3/8	4-15/16	3-1/8	1	5	**0132234**	
13/32	5-1/4	3-7/16	1	5	**0132236**	
7/16	5-9/16	3-11/16	1	5	**0132238**	
15/32	5-15/16	4	1	5	**0132240**	
1/2	5-15/16	4	1	5	**0132242**	

R ≤ 900 N/mm²



Inox
Stainless



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Universal Fit





Speedmaster®



01 TAGLIO ALTAMENTE PROFESSIONALE

Taglio altamente professionale con trapani portatili o stazionari in: acciai legati ed altamente legati, acciaio inox fino a R ≤ 900 N/mm², ferro, alluminio, metalli.

02 3 PIANETTI ANTISLITTAMENTO (Ø ≥ 5 mm)

Piena trasmissione della potenza

03 CAVE AMPIE E LISCE

Facile estrazione dei trucioli

04 AFFILATURA SPECIALE (Ø ≥ 3 mm)

EN ***High quality cuts***
High quality cuts with portable or bench drilling machines into: alloy steel, high alloy steel, stainless steel up to R ≤ 900 N/mm², iron, aluminium, metals.

3 plats antirotation (Ø ≥ 5 mm)
Full power transmission

Wide and smooth flutes
Easy chip removal.

Special Sharpening (Ø ≥ 3 mm)

FR ***Très professionnel découpage***
Très professionnel découpage avec trépans portatifs ou (stationnaires) en: acier, acier inox jusqu'a R ≤ 900 N/mm², fer, aluminium et métaux.

3 plats antirotation (Ø ≥ 5 mm)
Plain transmission de la puissance

Rainures grandes et lisses
Evacuation facile des copeaux

Affûtage Spécial (Ø ≥ 3 mm)

ESP ***Corte altamente profesional***
Corte altamente profesional con taladros portatiles o estacionarios en: aceros aleados y altamente aleados, acero inox hasta R ≤ 900 N/mm², hierro, aluminio, metales.

3 pianos antiresbaladizo (Ø ≥ 5 mm)
Llena trasmisión de la potencia

Ranuras anchas y lisas
Fácil extracción de las virutas

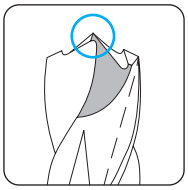
Afiladura especial (Ø ≥ 3 mm)

PT ***Cortes de alta qualidade***
Cortes de alta qualidade com maquinas de perfuração portáteis ou de bancada em: aço de liga, aço de alta liga, aço inoxidável até R ≤ 900 N/mm², ferro, alumínio, metais..

3 placas anti-rotação (Ø > 5 mm)
Transmissão de potência total

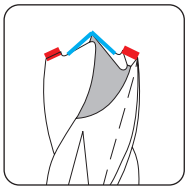
Ranhuras largas e suaves
Fácil remoção de aparas

Afiação especial (Ø ≥ 3 mm)



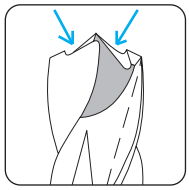
MICROPUNTA AUTOCENTRANTE:
Facile centratura sul pezzo
e agevole partenza del taglio.

Micro self-centering bit:
Easiness of spot-drilling and start cut.



DOPPIA COPPIA DI TAGLIENTI CON SPOGLIA VARIABILE:
Massima capacità di taglio con
grande durata del filo tagliente.

Double couple of cutting edges with variable relief:
Maximum cutting capacity,
with high resistance of the cutting edges.



COPPIA DI ROMPITRUCIOLO:
Evita la formazione di
taglienti di riporto.

Double chip-breaker:
Avoid the creation of
built-up cutting edges.

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE A DOPPIO CONOIDE

EN *Double-conical fully ground twist drills*
FR *Forets cylindriques rectifiés à double cône*
ESP *Brocas helicoidales rectificadas con doble conoide*
PT *Brocas helicoidais hss-g totalmente retificadas com duplo conoide*

Speedmaster®

01220 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie

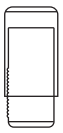
135° 27° N
H8

AISI M2
HV ≃ 820÷850
SPLIT POINT
(Ø ≥ 2,5 mm)

< 5 d

SELF ART. 01221
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	10	01220**0100**	consultare listino
1,25	16	38	10	01220**0125**	*see price list*
1,5	18	40	10	01220**0150**	
1,75	22	46	10	01220**0175**	
2	24	49	10	01220**0200**	
2,25	27	53	10	01220**0225**	
2,5	30	57	10	01220**0250**	
2,75	33	61	10	01220**0275**	
3	33	61	10	01220**0300**	
3,1	33	61	10	01220**0310**	
3,25	36	65	10	01220**0325**	
3,3	36	65	10	01220**0330**	
3,5	39	70	10	01220**0350**	
3,75	39	70	10	01220**0375**	
4	43	75	10	01220**0400**	
4,1	43	75	10	01220**0410**	
4,25	43	75	10	01220**0425**	
4,3	43	75	10	01220**0430**	
4,5	47	80	10	01220**0450**	
4,75	47	80	10	01220**0475**	
5	52	86	10	01220**0500**	
5,1	52	86	10	01220**0510**	
5,25	52	86	10	01220**0525**	
5,5	57	93	10	01220**0550**	
5,75	57	93	10	01220**0575**	
6	57	93	10	01220**0600**	
6,25	63	101	10	01220**0625**	
6,5	63	101	10	01220**0650**	
6,75	69	109	10	01220**0675**	
7	69	109	10	01220**0700**	
7,25	69	109	5	01220**0725**	
7,5	69	109	5	01220**0750**	
7,75	75	117	5	01220**0775**	
8	75	117	5	01220**0800**	
8,25	75	117	5	01220**0825**	
8,5	75	117	5	01220**0850**	
8,75	81	125	5	01220**0875**	
9	81	125	5	01220**0900**	
9,25	81	125	5	01220**0925**	
9,5	81	125	5	01220**0950**	
9,75	87	133	5	01220**0975**	
10	87	133	5	01220**1000**	
10,25	87	133	5	01220**1025**	
10,5	87	133	5	01220**1050**	
10,75	94	142	5	01220**1075**	
11	94	142	5	01220**1100**	
11,25	94	142	5	01220**1125**	
11,5	94	142	5	01220**1150**	
11,75	94	142	5	01220**1175**	
12	101	151	5	01220**1200**	
12,25	101	151	5	01220**1225**	
12,5	101	151	5	01220**1250**	
12,75	101	151	5	01220**1275**	
13	101	151	5	01220**1300**	

Taglio altamente professionale con trapani portatili o stazionari in: acciai legati ed altamente legati, acciaio inox fino a R ≤ 900 N/mm², ferro, alluminio, metalli.

High quality cuts with portable or bench drilling machines into: alloy steel, high alloy steel, stainless steel up to R ≤ 900 N/mm², iron, aluminium, metals.

R ≤ 900 N/mm²

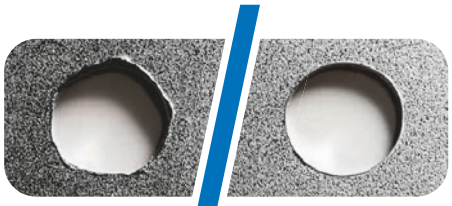
INOX Inox <1 mm
Stainless <1 mm

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

STEP+



Punta tradizionale
Traditional drill bit

STEP+

01 FORI PERFETTI

La speciale geometria della punta a gradino (ø ≥ 3 mm) permette di eseguire fori estremamente precisi nelle dimensioni e perfettamente circolari nella forma.

02 30% PIÙ VELOCE

La punta STEP+ risulta il 30% più veloce rispetto ad una punta elicoidale con affilatura tradizionale.

03 ELEVATA DURATA

La punta STEP+ garantisce un'elevata costanza di rendimento ed una prolungata vita utile anche in condizioni d'uso intensivo.

04 PRATICA, ANCHE SU SUPERFICI TONDE

La STEP+ infatti non «strappa» mai, il foro viene eseguito dolcemente senza generare eccessiva forza torcente.

05 VERSATILE

STEP+ risulta estremamente pratica anche per allargare fori pre esistenti, e risulta efficace anche su svariati materiali solidi come plastica e legno.



EN ***Perfect holes***
The special geometry of the step drill bit (Ø ≥ 3 mm) permits making holes that are extremely precise in size and perfectly circular in shape.

30% Faster
The STEP+ drill bit is 30% faster than a traditionally sharpened helical drill bit

High durability
The STEP+ drill bit guarantees high consistency of performance and prolonged tool life even under intensive use.

Practical, even on round surfaces
The STEP+ never "tears" and the hole is drilled smoothly without generating excessive torque.

Versatile
STEP+ is also extremely practical for enlarging preexisting holes, and is also effective on a variety of solid materials such as plastic and wood.

ESP ***Agujeros perfectos***
La geometría especial de la broca escalonada (Ø ≥ 3 mm) permite realizar orificios de tamaño extremadamente preciso y forma perfectamente circular.

30% más rápido
La broca STEP+ es un 30 % más rápida que una broca helicoidal afilada tradicionalmente.

Alta durabilidad
La broca STEP+ garantiza una elevada constancia de rendimiento y una prolongada vida útil de la herramienta incluso en condiciones de uso intensivo.

Práctico, incluso en superficies redondas
La STEP+ nunca "desgarra" y el orificio se taladra suavemente sin generar un par de apriete excesivo.

Versátil
SSTEP+ también resulta muy práctica para ampliar orificios preexistentes, y también es eficaz en una gran variedad de materiales sólidos, como el plástico y la madera.

FR ***Trous parfaits***
La géométrie particulière du foret étagé (Ø ≥ 3 mm) permet de réaliser des trous d'une taille extrêmement précise et d'une forme parfaitement circulaire.

30% plus rapide
Le foret STEP+ est 30% plus rapide qu'un foret hélicoïdal traditionnellement affûté.

Haute durabilité
Le foret STEP+ garantit une grande constance des performances et une durée de vie prolongée de l'outil, même en cas d'utilisation intensive.

Pratique, même sur des surfaces rondes
Le STEP+ ne se « déchire » jamais et le trou est percé en douceur sans générer de couple excessif.

Polyvalente
STEP+ est également extrêmement pratique pour agrandir des trous préexistants et est également efficace sur une variété de matériaux solides tels que le plastique et le madère.

PT ***Furos perfeitos***
A geometria especial da broca escalonada (Ø ≥ 3 mm) permite efetuar furos de dimensões extremamente precisas e de forma perfeitamente circular.

30% mais rápido
A broca STEP+ é 30% mais rápida do que uma broca helicoidal tradicionalmente afiada.

Elevada durabilidade
A broca STEP+ garante uma elevada consistência de desempenho e uma vida útil prolongada da ferramenta, mesmo em caso de utilização intensiva.

Prático, mesmo em superfícies redondas
O STEP+ nunca "rasga" e o furo é efetuado suavemente sem gerar um binário excessivo.

Versátil
O STEP+ é também extremamente prático para alargar orifícios pré-existentes e é igualmente eficaz numa variedade de materiais sólidos, como o plástico e a madeira.

PUNTE ELICOIDALI CILINDRICHE CON GEOMETRIA A GRADINO

EN *Fully ground twist drills whit step geometry*
FR *Forets hélicoydaux entièrement rectifiés avec géométrie étagée*
ESP *Brocas espirales totalmente rectificadas con geometría escalonada*
PT *Brocas helicoidais totalmente retificadas com geometria do degrau*

STEP+

01401 | **HSS-G** | **DIN 338**

Ground from the solid

SERIE CORTA

Short serie

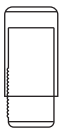
135° 27° N
H8

STEP GEOMETRY
Ø ≥ 3 mm

AISI M2
HV 820÷850
SPLIT POINT
(0 ≥ 2,5 mm)

< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	n° gradini n° of *steps*	pcs.	cod.	cad/each €
1	12	34	-	10	**01401**0100	consultare listino
1.5	18	40	-	10	**01401**0150	*see price list*
2	24	49	-	10	**01401**0200	
2.5	30	57	-	10	**01401**0250	
3	33	61	1	10	**01401**0300	
3.2	36	65	1	10	**01401**0320	
3.5	39	70	1	10	**01401**0350	
4	43	75	1	10	**01401**0400	
4.2	43	75	2	10	**01401**0420	
4.5	47	80	2	10	**01401**0450	
4.8	52	86	2	10	**01401**0480	
5	52	86	2	10	**01401**0500	
5.2	52	86	2	10	**01401**0520	
5.5	57	93	3	10	**01401**0550	
6	57	93	3	10	**01401**0600	
6.5	63	101	3	10	**01401**0650	
7	69	109	4	10	**01401**0700	
7.5	69	109	4	5	**01401**0750	
8	75	117	5	5	**01401**0800	
8.5	75	117	5	5	**01401**0850	
9	81	125	5	5	**01401**0900	
9.5	81	125	6	5	**01401**0950	
10	87	133	6	5	**01401**1000	
10.5	87	133	7	5	**01401**1050	
11	94	142	7	5	**01401**1100	
11.5	94	142	8	5	**01401**1150	
12	101	151	8	5	**01401**1200	
12.5	101	151	8	5	**01401**1250	
13	101	151	8	5	**01401**1300	

CODOLO RIDOTTO 13 mm - PIANETTI ANTISLITTAMENTO

Reduced shank 13 mm - Anti slip shank

H8 Ø mm	l mm	L mm	d mm	n° gradini n° of *steps*	pcs.	cod.	cad/each €
13.5	108	160	13	8	3	**01401**1350	consultare listino
14	108	160	13	8	3	**01401**1400	*see price list*
14.5	114	169	13	9	3	**01401**1450	
15	114	169	13	9	3	**01401**1500	
15.5	120	178	13	9	3	**01401**1550	
16	120	178	13	9	3	**01401**1600	
16.5	125	184	13	9	1	**01401**1650	
17	125	184	13	9	1	**01401**1700	
17.5	130	191	13	9	1	**01401**1750	
18	130	191	13	9	1	**01401**1800	
18.5	135	198	13	9	1	**01401**1850	
19	135	198	13	10	1	**01401**1900	
19.5	140	205	13	10	1	**01401**1950	
20	140	205	13	10	1	**01401**2000	

R ≤ 900 N/mm²

INOX Inox <1 mm *Stainless <1 mm*
Metalli *Metals*
Acciaio *Steel*
Alu Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*
Legno *Wood*

PUNTE ELICOIDALI CILINDRICHE CON GEOMETRIA A GRADINO, ATTACCO 1/4" HEX

EN *Fully ground twist drills whit step geometry with 1/4" hex shank*
FR *Forets hélicoydaux entièrement rectifiés avec géométrie étagée avec une queue hexagonale de 1/4"*
ESP *Brocas espirales totalmente rectificadas con geometría escalonada con vastago hexagonal de 1/4"*
PT *Brocas helicoidais totalmente retificadas com geometria do degrau com veio hexagonal de 1/4"*

01406 **HSS-G**

DIN 338

Ground from the solid

SERIE CORTA - ATTACCO 1/4"

Short serie - hex 1/4"

135°
27° N
H8

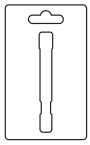
STEP GEOMETRY
Ø ≥ 3 mm

AISI M2
HV 820÷850
SPLIT POINT
(0 ≥ 2,5 mm)

1/4" HEX

< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs./blister	pcs.	cod.	cad/each €
3	33	78	2	10	**01406**0300	consultare listino
3,5	39	87	2	10	**01406**0350	*see price list*
4	43	92	2	10	**01406**0400	
4,5	47	97	1	10	**01406**0450	
5	52	103	1	10	**01406**0500	
6	57	110	1	10	**01406**0600	
7	69	109	1	5	**01406**0700	
8	75	117	1	5	**01406**0800	
9	81	125	1	5	**01406**0900	
10	87	133	1	5	**01406**1000	
11	94	142	1	5	**01406**1100	
12	101	151	1	5	**01406**1200	
13	101	151	1	5	**01406**1300	

R ≤ 900 N/mm²

Inox <1 mm
Stainless <1 mm

Metalli
Metals

Acciaio
Steel

Alluminio
Aluminum

Emulsione
Lubrificant

Plastica
Plastic

Legno
Wood

Universal Fit

PUNTE ELICOIDALI CILINDRICHE IN POLLICI CON GEOMETRIA A GRADINO, ATTACCO 1/4" HEX

EN *Fully ground twist drills whit step geometry with 1/4" hex shank - in inches*
FR *Forets hélicoydaux entièrement rectifiés avec géométrie étagée avec une queue hexagonale de 1/4" - en pounce*
ESP *Brocas espirales totalmente rectificadas con geometría escalonada con vastago hexagonal de 1/4" - en pulgadas*
PT *Brocas helicoidais totalmente retificadas com geometria do degrau com veio hexagonal de 1/4" - em polegadas*

01407 **HSS-G**

DIN 338

Ground from the solid

SERIE CORTA - ATTACCO 1/4" - POLLICI

Short serie - Hex 1/4" - Pulgadas

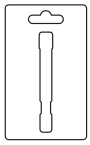
135°
27° N
H8

STEP GEOMETRY
Ø ≥ 3 mm

AISI M2
HV 820÷850
SPLIT POINT
(Ø ≥ 2,5 mm)

< 5 d





Confezione
Packaging

Ø *inches*	*l inches*	L *inches*	pcs. blister	pcs.	cod.	cad/each €
1/8	1-5/8	3-7/16	2	10	**0140718**	consultare listino
9/64	1-3/4	3-9/16	2	10	**0140719**	*see price list*
5/32	2	3-13/16	2	10	**0140720**	
3/16	2-5/16	4-3/16	1	10	**0140722**	
7/32	2-1/2	4-7/16	1	10	**0140724**	
1/4	2-3/4	4-11/16	1	10	**0140726**	
9/32	2-15/16	4-1/4	1	5	**0140728**	
5/16	3-3/16	4-1/2	1	5	**0140730**	
11/32	3-7/16	4-3/4	1	5	**0140732**	
3/8	3-5/8	5	1	5	**0140734**	
13/32	3-7/8	5-1/4	1	5	**0140736**	
7/16	4-1/16	5-1/2	1	5	**0140738**	
15/32	4-5/16	5-3/4	1	5	**0140740**	
1/2	4-1/2	6	1	5	**0140742**	

R ≤ 900 N/mm²

INOX — Inox <1 mm
Stainless <1 mm

Metalli
Metals

Acciaio
Steel

Alu — Alluminio
Aluminum

Emulsione
Lubrificant

Plastica
Plastic

Legno
Wood

Universal Fit

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA

EN *Fully ground straight shank twist drills*
FR *Forets cylindriques rectifiés*
ESP *Brocas helicoidales rectificadas*
PT *Brocas helicoidais de veio reto totalmente retificados*

01201 | **HSS-G**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie

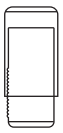
135° 27° N
H8

HV 0,05 ≈ 2500
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

< 5 d

SELF ART. 01202
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,3	3	19	10	**012010**0030	consultare listino
0,35	4	19	10	**012010**0035	*see price list*
0,4	5	20	10	**012010**0040	
0,45	5	20	10	**012010**0045	
0,5	6	22	10	**012010**0050	
0,55	7	24	10	**012010**0055	
0,6	7	24	10	**012010**0060	
0,65	8	26	10	**012010**0065	
0,7	9	28	10	**012010**0070	
0,75	9	28	10	**012010**0075	
0,8	10	30	10	**012010**0080	
0,85	10	30	10	**012010**0085	
0,9	11	32	10	**012010**0090	
0,95	11	32	10	**012010**0095	
1	12	34	10	**012010**0100	
1,1	14	36	10	**012010**0110	
1,2	16	38	10	**012010**0120	
1,25	16	38	10	**012010**0125	
1,3	16	38	10	**012010**0130	
1,4	18	40	10	**012010**0140	
1,5	18	40	10	**012010**0150	
1,6	20	43	10	**012010**0160	
1,7	20	43	10	**012010**0170	
1,75	22	46	10	**012010**0175	
1,8	22	46	10	**012010**0180	
1,9	22	46	10	**012010**0190	
2	24	49	10	**012010**0200	
2,1	24	49	10	**012010**0210	
2,2	27	53	10	**012010**0220	
2,25	27	53	10	**012010**0225	
2,3	27	53	10	**012010**0230	
2,4	30	57	10	**012010**0240	
2,5	30	57	10	**012010**0250	
2,6	30	57	10	**012010**0260	
2,7	33	61	10	**012010**0270	
2,75	33	61	10	**012010**0275	
2,8	33	61	10	**012010**0280	
2,9	33	61	10	**012010**0290	
3	33	61	10	**012010**0300	
3,1	36	65	10	**012010**0310	
3,2	36	65	10	**012010**0320	
3,25	36	65	10	**012010**0325	
3,3	36	65	10	**012010**0330	
3,4	39	70	10	**012010**0340	
3,5	39	70	10	**012010**0350	
3,6	39	70	10	**012010**0360	
3,7	39	70	10	**012010**0370	
3,75	39	70	10	**012010**0375	
3,8	43	75	10	**012010**0380	
3,9	43	75	10	**012010**0390	
4	43	75	10	**012010**0400	
4,1	43	75	10	**012010**0410	
4,2	43	75	10	**012010**0420	
4,25	43	75	10	**012010**0425	
4,3	47	80	10	**012010**0430	
4,4	47	80	10	**012010**0440	
4,5	47	80	10	**012010**0450	

R ≤ 850 N/mm²

INOX Inox <1 mm
Stainless <1 mm

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
4,6	47	80	10	**012010460**	consultare listino
4,7	47	80	10	**012010470**	*see price list*
4,75	47	80	10	**012010475**	
4,8	52	86	10	**012010480**	
4,9	52	86	10	**012010490**	
5	52	86	10	**012010500**	
5,1	52	86	10	**012010510**	
5,2	52	86	10	**012010520**	
5,25	52	86	10	**012010525**	
5,3	52	86	10	**012010530**	
5,4	57	93	10	**012010540**	
5,5	57	93	10	**012010550**	
5,6	57	93	10	**012010560**	
5,7	57	93	10	**012010570**	
5,75	57	93	10	**012010575**	
5,8	57	93	10	**012010580**	
5,9	57	93	10	**012010590**	
6	57	93	10	**012010600**	
6,1	63	101	10	**012010610**	
6,2	63	101	10	**012010620**	
6,25	63	101	10	**012010625**	
6,3	63	101	10	**012010630**	
6,4	63	101	10	**012010640**	
6,5	63	101	10	**012010650**	
6,6	63	101	10	**012010660**	
6,7	63	101	10	**012010670**	
6,75	69	109	10	**012010675**	
6,8	69	109	10	**012010680**	
6,9	69	109	10	**012010690**	
7	69	109	10	**012010700**	
7,1	69	109	5	**012010710**	
7,2	69	109	5	**012010720**	
7,25	69	109	5	**012010725**	
7,3	69	109	5	**012010730**	
7,4	69	109	5	**012010740**	
7,5	69	109	5	**012010750**	
7,6	75	117	5	**012010760**	
7,7	75	117	5	**012010770**	
7,75	75	117	5	**012010775**	
7,8	75	117	5	**012010780**	
7,9	75	117	5	**012010790**	
8	75	117	5	**012010800**	
8,1	75	117	5	**012010810**	
8,2	75	117	5	**012010820**	
8,25	75	117	5	**012010825**	
8,3	75	117	5	**012010830**	
8,4	75	117	5	**012010840**	
8,5	75	117	5	**012010850**	
8,6	81	125	5	**012010860**	
8,7	81	125	5	**012010870**	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
8,75	81	125	5	**012010875**	consultare listino
8,8	81	125	5	**012010880**	*see price list*
8,9	81	125	5	**012010890**	
9	81	125	5	**012010900**	
9,1	81	125	5	**012010910**	
9,2	81	125	5	**012010920**	
9,25	81	125	5	**012010925**	
9,3	81	125	5	**012010930**	
9,4	81	125	5	**012010940**	
9,5	81	125	5	**012010950**	
9,6	87	133	5	**012010960**	
9,7	87	133	5	**012010970**	
9,75	87	133	5	**012010975**	
9,8	87	133	5	**012010980**	
9,9	87	133	5	**012010990**	
10	87	133	5	**012011000**	
10,25	87	133	5	**012011025**	
10,5	87	133	5	**012011050**	
10,75	94	142	5	**012011075**	
11	94	142	5	**012011100**	
11,25	94	142	5	**012011125**	
11,5	94	142	5	**012011150**	
11,75	94	142	5	**012011175**	
12	101	151	5	**012011200**	
12,25	101	151	5	**012011225**	
12,5	101	151	5	**012011250**	
12,75	101	151	5	**012011275**	
13	101	151	5	**012011300**	
13,25	108	160	3	**012011325**	
13,5	108	160	3	**012011350**	
13,75	108	160	3	**012011375**	
14	108	160	3	**012011400**	
14,25	114	169	3	**012011425**	
14,5	114	169	3	**012011450**	
14,75	114	169	3	**012011475**	
15	114	169	3	**012011500**	
15,25	120	178	3	**012011525**	
15,5	120	178	3	**012011550**	
15,75	120	178	3	**012011575**	
16	120	178	3	**012011600**	
16,5	125	184	1	**012011650**	
17	125	184	1	**012011700**	
17,5	130	191	1	**012011750**	
18	130	191	1	**012011800**	
18,5	135	198	1	**012011850**	
19	135	198	1	**012011900**	
19,5	140	205	1	**012011950**	
20	140	205	1	**012012000**	

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE CON CODOLO RIDOTTO

EN *Reduced shank fully ground twist drills*
FR *Forets cylindriques rectifiés à queue degageé*
ESP *Brocas helicoidales rectificadas, vastago reducido*
PT *Brocas helicoidais de veio reduzida totalmente retificados*

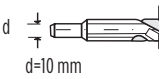
01203 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N
H8

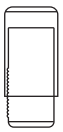


d=10 mm



< 5 d





Confezione
Packaging

R ≤ 850 N/mm²



Inox <1 mm
Stainless <1 mm



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**01203**1025	consultare
10,5	87	133	10	5	**01203**1050	listino
10,75	94	142	10	5	**01203**1075	*see price list*
11	94	142	10	5	**01203**1100	
11,25	94	142	10	5	**01203**1125	
11,5	94	142	10	5	**01203**1150	
11,75	94	142	10	5	**01203**1175	
12	101	151	10	5	**01203**1200	
12,25	101	151	10	5	**01203**1225	
12,5	101	151	10	5	**01203**1250	
12,75	101	151	10	5	**01203**1275	
13	101	151	10	5	**01203**1300	
13,25	108	160	10	3	**01203**1325	
13,5	108	160	10	3	**01203**1350	
13,75	108	160	10	3	**01203**1375	
14	108	160	10	3	**01203**1400	
14,25	114	169	10	3	**01203**1425	
14,5	114	169	10	3	**01203**1450	
14,75	114	169	10	3	**01203**1475	
15	114	169	10	3	**01203**1500	
15,25	120	178	10	3	**01203**1525	
15,5	120	178	10	3	**01203**1550	
15,75	120	178	10	3	**01203**1575	
16	120	178	10	3	**01203**1600	
16,5	125	184	10	1	**01203**1650	
17	125	184	10	1	**01203**1700	
17,5	130	191	10	1	**01203**1750	
18	130	191	10	1	**01203**1800	
18,5	135	198	10	1	**01203**1850	
19	135	198	10	1	**01203**1900	
19,5	140	205	10	1	**01203**1950	
20	140	205	10	1	**01203**2000	

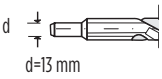
01209 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N
H8

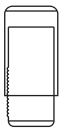


d=13 mm



< 5 d





Confezione
Packaging

R ≤ 850 N/mm²



Inox <1 mm
Stainless <1 mm



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01209**1325	consultare
13,5	108	160	13	3	**01209**1350	listino
13,75	108	160	13	3	**01209**1375	*see price list*
14	108	160	13	3	**01209**1400	
14,25	114	169	13	3	**01209**1425	
14,5	114	169	13	3	**01209**1450	
14,75	114	169	13	3	**01209**1475	
15	114	169	13	3	**01209**1500	
15,25	120	178	13	3	**01209**1525	
15,5	120	178	13	3	**01209**1550	
15,75	120	178	13	3	**01209**1575	
16	120	178	13	3	**01209**1600	
16,5	125	184	13	1	**01209**1650	
17	125	184	13	1	**01209**1700	
17,5	130	191	13	1	**01209**1750	
18	130	191	13	1	**01209**1800	
18,5	135	198	13	1	**01209**1850	
19	135	198	13	1	**01209**1900	
19,5	140	205	13	1	**01209**1950	
20	140	205	13	1	**01209**2000	

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA

EN *Fully ground straight shank twist drills*
FR *Forets cylindriques rectifiés*
ESP *Brocas helicoidales rectificadas*
PT *Brocas helicoidais de veio reto totalmente retificados*

01207 HSS-G

DIN 1897 RETTIFICATA
Ground from the solid

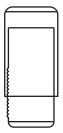
SERIE EXTRA CORTA
Extra short serie

135° 27° N H8

HV ≃ 820
SPLIT POINT
DIN 1412C

< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	16	46	10	01207**0300**	consultare
3,25	18	49	10	01207**0325**	listino
3,5	20	52	10	01207**0350**	*see price list*
3,75	20	52	10	01207**0375**	
4	22	55	10	01207**0400**	
4,25	22	55	10	01207**0425**	
4,5	24	58	10	01207**0450**	
4,75	24	58	10	01207**0475**	
5	26	62	10	01207**0500**	
5,25	26	62	10	01207**0525**	
5,5	28	66	10	01207**0550**	
5,75	28	66	10	01207**0575**	
6	28	66	10	01207**0600**	

R ≤ 850 N/mm²

Inox <1 mm
Stainless <1 mm

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

01208 HSS-G

DIN 340 RETTIFICATA
Ground from the solid

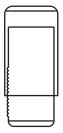
SERIE LUNGA
Long serie

135° 27° N H8

HV ≃ 820
SPLIT POINT
DIN 1412C

< 8 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	66	100	10	01208**0300**	consultare
3,25	69	106	10	01208**0325**	listino
3,5	73	112	10	01208**0350**	*see price list*
3,75	73	112	10	01208**0375**	
4	78	119	10	01208**0400**	
4,25	78	119	10	01208**0425**	
4,5	82	126	10	01208**0450**	
4,75	82	126	10	01208**0475**	
5	87	132	10	01208**0500**	
5,25	87	132	10	01208**0525**	
5,5	91	139	10	01208**0550**	
5,75	91	139	10	01208**0575**	
6	91	139	10	01208**0600**	
6,5	97	148	5	01208**0650**	
7	102	156	5	01208**0700**	
7,5	102	156	5	01208**0750**	
8	109	165	5	01208**0800**	
8,5	109	165	5	01208**0850**	
9	115	175	5	01208**0900**	
9,5	115	175	5	01208**0950**	
10	121	184	5	01208**1000**	

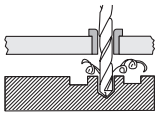
R ≤ 850 N/mm²

Inox <1 mm
Stainless <1 mm

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA

EN *Fully ground straight shank twist drills*
FR *Forets cylindriques rectifiés*
ESP *Brocas helicoidales rectificadas*
PT *Brocas helicoidais de veio reto totalmente retificados*

01060 | **HSS-G**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie



27° N
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)

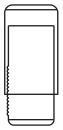


< 5 d



SELF ART. 01061
Su richiesta / *On demand*





Confezione
Packaging

MICRO DRILLS

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,2	2,5	19	10	01060**0020**	consultare
0,21	2,5	19	10	01060**0021**	listino
0,22	2,5	19	10	01060**0022**	*see price list*
0,23	2,5	19	10	01060**0023**	
0,24	2,5	19	10	01060**0024**	
0,25	3	19	10	01060**0025**	
0,26	3	19	10	01060**0026**	
0,27	3	19	10	01060**0027**	
0,28	3	19	10	01060**0028**	
0,29	3	19	10	01060**0029**	
0,3	3	19	10	01060**0030**	
0,35	4	19	10	01060**0035**	
0,4	5	20	10	01060**0040**	
0,45	5	20	10	01060**0045**	
0,5	6	22	10	01060**0050**	
0,55	7	24	10	01060**0055**	
0,6	7	24	10	01060**0060**	
0,65	8	26	10	01060**0065**	
0,7	9	28	10	01060**0070**	
0,75	9	28	10	01060**0075**	
0,8	10	30	10	01060**0080**	
0,85	10	30	10	01060**0085**	
0,9	11	32	10	01060**0090**	
0,95	11	32	10	01060**0095**	
1	12	34	10	01060**0100**	
1,1	14	36	10	01060**0110**	
1,2	16	38	10	01060**0120**	
1,25	16	38	10	01060**0125**	
1,3	16	38	10	01060**0130**	
1,4	18	40	10	01060**0140**	
1,5	18	40	10	01060**0150**	
1,6	20	43	10	01060**0160**	
1,7	20	43	10	01060**0170**	
1,75	22	46	10	01060**0175**	
1,8	22	46	10	01060**0180**	
1,9	22	46	10	01060**0190**	
2	24	49	10	01060**0200**	
2,1	24	49	10	01060**0210**	
2,2	27	53	10	01060**0220**	
2,25	27	53	10	01060**0225**	
2,3	27	53	10	01060**0230**	
2,4	30	57	10	01060**0240**	
2,5	30	57	10	01060**0250**	
2,6	30	57	10	01060**0260**	
2,7	33	61	10	01060**0270**	
2,75	33	61	10	01060**0275**	
2,8	33	61	10	01060**0280**	
2,9	33	61	10	01060**0290**	
3	33	61	10	01060**0300**	
3,1	36	65	10	01060**0310**	
3,2	36	65	10	01060**0320**	
3,25	36	65	10	01060**0325**	
3,3	36	65	10	01060**0330**	
3,4	39	70	10	01060**0340**	
3,5	39	70	10	01060**0350**	
3,6	39	70	10	01060**0360**	
3,7	39	70	10	01060**0370**	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3,75	39	70	10	01060**0375**	consultare
3,8	43	75	10	01060**0380**	listino
3,9	43	75	10	01060**0390**	*see price list*
4	43	75	10	01060**0400**	
4,1	43	75	10	01060**0410**	
4,2	43	75	10	01060**0420**	
4,25	43	75	10	01060**0425**	
4,3	47	80	10	01060**0430**	
4,4	47	80	10	01060**0440**	
4,5	47	80	10	01060**0450**	
4,6	47	80	10	01060**0460**	
4,7	47	80	10	01060**0470**	
4,75	47	80	10	01060**0475**	
4,8	52	86	10	01060**0480**	
4,9	52	86	10	01060**0490**	
5	52	86	10	01060**0500**	
5,1	52	86	10	01060**0510**	
5,2	52	86	10	01060**0520**	
5,25	52	86	10	01060**0525**	
5,3	52	86	10	01060**0530**	
5,4	57	93	10	01060**0540**	
5,5	57	93	10	01060**0550**	
5,6	57	93	10	01060**0560**	
5,7	57	93	10	01060**0570**	
5,75	57	93	10	01060**0575**	
5,8	57	93	10	01060**0580**	
5,9	57	93	10	01060**0590**	
6	57	93	10	01060**0600**	
6,1	63	101	10	01060**0610**	
6,2	63	101	10	01060**0620**	
6,25	63	101	10	01060**0625**	
6,3	63	101	10	01060**0630**	
6,4	63	101	10	01060**0640**	
6,5	63	101	10	01060**0650**	
6,6	63	101	10	01060**0660**	
6,7	63	101	10	01060**0670**	
6,75	69	109	10	01060**0675**	
6,8	69	109	10	01060**0680**	
6,9	69	109	10	01060**0690**	
7	69	109	10	01060**0700**	
7,1	69	109	5	01060**0710**	
7,2	69	109	5	01060**0720**	
7,25	69	109	5	01060**0725**	
7,3	69	109	5	01060**0730**	
7,4	69	109	5	01060**0740**	
7,5	69	109	5	01060**0750**	
7,6	75	117	5	01060**0760**	
7,7	75	117	5	01060**0770**	
7,75	75	117	5	01060**0775**	
7,8	75	117	5	01060**0780**	
7,9	75	117	5	01060**0790**	
8	75	117	5	01060**0800**	
8,1	75	117	5	01060**0810**	
8,2	75	117	5	01060**0820**	
8,25	75	117	5	01060**0825**	
8,3	75	117	5	01060**0830**	
8,4	75	117	5	01060**0840**	

Taglio dei materiali con R ≤ 800 N/mm² quali acciai legati, ghise, tutti i metalli in genere, la grafite. Precisione di foratura e costanza di rendimenti elevati.

High precision and high performances in cutting alloy steel up to R ≤ 800 N/mm².

R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
8,5	75	117	5	**01060**0850	consultare
8,6	81	125	5	**01060**0860	listino
8,7	81	125	5	**01060**0870	*see price list*
8,75	81	125	5	**01060**0875	
8,8	81	125	5	**01060**0880	
8,9	81	125	5	**01060**0890	
9	81	125	5	**01060**0900	
9,1	81	125	5	**01060**0910	
9,2	81	125	5	**01060**0920	
9,25	81	125	5	**01060**0925	
9,3	81	125	5	**01060**0930	
9,4	81	125	5	**01060**0940	
9,5	81	125	5	**01060**0950	
9,6	87	133	5	**01060**0960	
9,7	87	133	5	**01060**0970	
9,75	87	133	5	**01060**0975	
9,8	87	133	5	**01060**0980	
9,9	87	133	5	**01060**0990	
10	87	133	5	**01060**1000	
10,1	87	133	5	**01060**1010	
10,2	87	133	5	**01060**1020	
10,25	87	133	5	**01060**1025	
10,3	87	133	5	**01060**1030	
10,4	87	133	5	**01060**1040	
10,5	87	133	5	**01060**1050	
10,6	87	133	5	**01060**1060	
10,7	94	142	5	**01060**1070	
10,75	94	142	5	**01060**1075	
10,8	94	142	5	**01060**1080	
10,9	94	142	5	**01060**1090	
11	94	142	5	**01060**1100	
11,1	94	142	5	**01060**1110	
11,2	94	142	5	**01060**1120	
11,25	94	142	5	**01060**1125	
11,3	94	142	5	**01060**1130	
11,4	94	142	5	**01060**1140	
11,5	94	142	5	**01060**1150	
11,6	94	142	5	**01060**1160	
11,7	94	142	5	**01060**1170	
11,75	94	142	5	**01060**1175	
11,8	94	142	5	**01060**1180	
11,9	101	151	5	**01060**1190	
12	101	151	5	**01060**1200	
12,1	101	151	5	**01060**1210	
12,2	101	151	5	**01060**1220	
12,25	101	151	5	**01060**1225	
12,3	101	151	5	**01060**1230	
12,4	101	151	5	**01060**1240	
12,5	101	151	5	**01060**1250	
12,6	101	151	5	**01060**1260	
12,7	101	151	5	**01060**1270	
12,75	101	151	5	**01060**1275	
12,8	101	151	5	**01060**1280	
12,9	101	151	5	**01060**1290	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
13	101	151	5	**01060**1300	consultare
13,1	101	151	3	**01060**1310	listino
13,2	101	151	3	**01060**1320	*see price list*
13,25	108	160	3	**01060**1325	
13,3	108	160	3	**01060**1330	
13,4	108	160	3	**01060**1340	
13,5	108	160	3	**01060**1350	
13,6	108	160	3	**01060**1360	
13,7	108	160	3	**01060**1370	
13,75	108	160	3	**01060**1375	
13,8	108	160	3	**01060**1380	
13,9	108	160	3	**01060**1390	
14	108	160	3	**01060**1400	
14,1	108	160	3	**01060**1410	
14,2	114	169	3	**01060**1420	
14,25	114	169	3	**01060**1425	
14,3	114	169	3	**01060**1430	
14,4	114	169	3	**01060**1440	
14,5	114	169	3	**01060**1450	
14,6	114	169	3	**01060**1460	
14,7	114	169	3	**01060**1470	
14,75	114	169	3	**01060**1475	
14,8	114	169	3	**01060**1480	
14,9	114	169	3	**01060**1490	
15	114	169	3	**01060**1500	
15,1	120	178	3	**01060**1510	
15,2	120	178	3	**01060**1520	
15,25	120	178	3	**01060**1525	
15,3	120	178	3	**01060**1530	
15,4	120	178	3	**01060**1540	
15,5	120	178	3	**01060**1550	
15,6	120	178	3	**01060**1560	
15,7	120	178	3	**01060**1570	
15,75	120	178	3	**01060**1575	
15,8	120	178	3	**01060**1580	
15,9	120	178	3	**01060**1590	
16	120	178	3	**01060**1600	
16,25	125	184	1	**01060**1625	
16,5	125	184	1	**01060**1650	
16,75	125	184	1	**01060**1675	
17	125	184	1	**01060**1700	
17,25	130	191	1	**01060**1725	
17,5	130	191	1	**01060**1750	
17,75	130	191	1	**01060**1775	
18	130	191	1	**01060**1800	
18,25	135	198	1	**01060**1825	
18,5	135	198	1	**01060**1850	
18,75	135	198	1	**01060**1875	
19	135	198	1	**01060**1900	
19,25	140	205	1	**01060**1925	
19,5	140	205	1	**01060**1950	
19,75	140	205	1	**01060**1975	
20	140	205	1	**01060**2000	

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA

EN *Fully ground reduced shank twist drills*
FR *Forets cylindriques rectifiés à queue degageé*
ESP *Brocas helicoidales rectificadas, vastago reducido*
PT *Brocas helicoidais de veio reduzida totalmente retificados*

01062 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

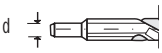
CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)

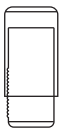


d=10 mm



< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**01062**1025	consultare
10,5	87	133	10	5	**01062**1050	listino
10,75	94	142	10	5	**01062**1075	*see price list*
11	94	142	10	5	**01062**1100	
11,25	94	142	10	5	**01062**1125	
11,5	94	142	10	5	**01062**1150	
11,75	94	142	10	5	**01062**1175	
12	101	151	10	5	**01062**1200	
12,25	101	151	10	5	**01062**1225	
12,5	101	151	10	5	**01062**1250	
12,75	101	151	10	5	**01062**1275	
13	101	151	10	5	**01062**1300	
13,25	108	160	10	3	**01062**1325	
13,5	108	160	10	3	**01062**1350	
13,75	108	160	10	3	**01062**1375	
14	108	160	10	3	**01062**1400	
14,25	114	169	10	3	**01062**1425	
14,5	114	169	10	3	**01062**1450	
14,75	114	169	10	3	**01062**1475	
15	114	169	10	3	**01062**1500	
15,25	120	178	10	3	**01062**1525	
15,5	120	178	10	3	**01062**1550	
15,75	120	178	10	3	**01062**1575	
16	120	178	10	3	**01062**1600	
16,5	125	184	10	1	**01062**1650	
17	125	184	10	1	**01062**1700	
17,5	130	191	10	1	**01062**1750	
18	130	191	10	1	**01062**1800	
18,5	135	198	10	1	**01062**1850	
19	135	198	10	1	**01062**1900	
19,5	140	205	10	1	**01062**1950	
20	140	205	10	1	**01062**2000	

R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA

EN *Fully ground reduced shank twist drills*
FR *Forets cylindriques rectifiés à queue degageé*
ESP *Brocas helicoidales rectificadas, vastago reducido*
PT *Brocas helicoidais de veio reduzida totalmente retificados*

01063 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

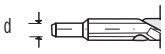
CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)

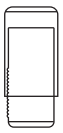


d=13 mm



< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01063**1325	consultare
13,5	108	160	13	3	**01063**1350	listino
13,75	108	160	13	3	**01063**1375	*see price list*
14	108	160	13	3	**01063**1400	
14,25	114	169	13	3	**01063**1425	
14,5	114	169	13	3	**01063**1450	
14,75	114	169	13	3	**01063**1475	
15	114	169	13	3	**01063**1500	
15,25	120	178	13	3	**01063**1525	
15,5	120	178	13	3	**01063**1550	
15,75	120	178	13	3	**01063**1575	
16	120	178	13	3	**01063**1600	
16,5	125	184	13	1	**01063**1650	
17	125	184	13	1	**01063**1700	
17,5	130	191	13	1	**01063**1750	
18	130	191	13	1	**01063**1800	
18,5	135	198	13	1	**01063**1850	
19	135	198	13	1	**01063**1900	
19,5	140	205	13	1	**01063**1950	
20	140	205	13	1	**01063**2000	
20,5	145	213	13	1	**01063**2050	
21	145	213	13	1	**01063**2100	
21,5	150	221	13	1	**01063**2150	
22	150	221	13	1	**01063**2200	
22,5	150	221	13	1	**01063**2250	
23	155	229	13	1	**01063**2300	
23,5	155	229	13	1	**01063**2350	
24	160	236	13	1	**01063**2400	
24,5	160	236	13	1	**01063**2450	
25	160	236	13	1	**01063**2500	

R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE SINISTRE, ESECUZIONE INTERAMENTE RETTIFICATA

EN *Fully ground straight shank twist drills, left hand*
FR *Forets helicoidaux, coupe à gauche*
ESP *Brocas helicoidales rectificadas, izquierdas*
PT *Brocas helicoidais de veio reto, mão esquerda*

01090 **HSS-G**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA - SINISTRA
Short serie - Left hand



27° N
H8

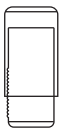


HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)



< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
1	12	34	10	**01090**0100	consultare listino
1,5	18	40	10	**01090**0150	*see price list*
2	24	49	10	**01090**0200	
2,1	24	49	10	**01090**0210	
2,2	27	53	10	**01090**0220	
2,3	27	53	10	**01090**0230	
2,4	30	57	10	**01090**0240	
2,5	30	57	10	**01090**0250	
2,6	30	57	10	**01090**0260	
2,7	33	61	10	**01090**0270	
2,8	33	61	10	**01090**0280	
2,9	33	61	10	**01090**0290	
3	33	61	10	**01090**0300	
3,2	36	65	10	**01090**0320	
3,3	36	65	10	**01090**0330	
3,4	36	65	10	**01090**0340	
3,5	39	70	10	**01090**0350	
3,7	39	70	10	**01090**0370	
3,8	43	75	10	**01090**0380	
4	43	75	10	**01090**0400	
4,1	43	75	10	**01090**0410	
4,2	43	75	10	**01090**0420	
4,5	47	80	10	**01090**0450	
4,6	47	80	10	**01090**0460	
4,7	47	80	10	**01090**0470	
4,8	52	86	10	**01090**0480	
5	52	86	10	**01090**0500	
5,1	52	86	10	**01090**0510	
5,2	52	86	10	**01090**0520	
5,5	57	93	10	**01090**0550	
5,8	57	93	10	**01090**0580	
6	57	93	10	**01090**0600	
6,2	57	101	10	**01090**0620	
6,3	57	101	10	**01090**0630	
6,5	63	101	10	**01090**0650	
7	69	109	10	**01090**0700	
7,5	69	109	5	**01090**0750	
7,8	69	117	5	**01090**0780	
8	75	117	5	**01090**0800	
8,5	75	117	5	**01090**0850	
9	81	125	5	**01090**0900	
9,5	81	125	5	**01090**0950	
10	87	133	5	**01090**1000	
10,5	87	133	5	**01090**1050	
11	94	142	5	**01090**1100	
11,5	94	142	5	**01090**1150	
12	101	151	5	**01090**1200	
12,5	101	151	5	**01090**1250	
13	101	151	5	**01090**1300	
13,5	101	151	5	**01090**1350	

R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA CORTA, INTERAMENTE RETTIFICATE

EN *Straight shank twist drills, stub serie*
FR *Forets cylindriques série extra courte*
ESP *Brocas helicoidales, serie extra corta*
PT *Brocas helicoidais de veio reto série extra curta*

01094 | **HSS-G**

DIN 1897 RETTIFICATA
Ground from the solid

SERIE EXTRA CORTA
Extra short serie



27° N
H8



HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)

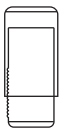


< 3 d



SELF ART. 01373
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1,5	9	32	10	**010940**150	consultare
2	12	38	10	**010940**200	listino
2,2	13	40	10	**010940**220	*see price list*
2,25	13	40	10	**010940**225	
2,5	14	43	10	**010940**250	
2,75	16	46	10	**010940**275	
2,8	16	46	10	**010940**280	
3	16	46	10	**010940**300	
3,1	18	49	10	**010940**310	
3,2	18	49	10	**010940**320	
3,25	18	49	10	**010940**325	
3,5	20	52	10	**010940**350	
3,7	20	52	10	**010940**370	
3,75	20	52	10	**010940**375	
3,8	22	55	10	**010940**380	
4	22	55	10	**010940**400	
4,1	22	55	10	**010940**410	
4,2	22	55	10	**010940**420	
4,25	22	55	10	**010940**425	
4,5	24	58	10	**010940**450	
4,75	24	58	10	**010940**475	
4,8	26	62	10	**010940**480	
5	26	62	10	**010940**500	
5,1	26	62	10	**010940**510	
5,2	26	62	10	**010940**520	
5,25	26	62	10	**010940**525	
5,5	28	66	10	**010940**550	
5,75	28	66	10	**010940**575	
5,8	28	66	10	**010940**580	
6	28	66	10	**010940**600	
6,25	31	70	10	**010940**625	
6,5	31	70	10	**010940**650	
6,75	34	74	10	**010940**675	
7	34	74	10	**010940**700	
7,25	34	74	5	**010940**725	
7,5	34	74	5	**010940**750	
7,75	37	79	5	**010940**775	
8	37	79	5	**010940**800	
8,25	37	79	5	**010940**825	
8,5	37	79	5	**010940**850	
8,75	40	84	5	**010940**875	
9	40	84	5	**010940**900	
9,25	40	84	5	**010940**925	
9,5	40	84	5	**010940**950	
9,75	40	84	5	**010940**975	
10	43	89	5	**010941**000	
10,25	43	89	5	**010941**025	
10,5	43	89	5	**010941**050	
10,75	47	95	5	**010941**075	
11	47	95	5	**010941**100	
11,25	47	95	5	**010941**125	
11,5	47	95	5	**010941**150	
11,75	47	95	5	**010941**175	
12	51	102	5	**010941**200	
12,25	51	102	5	**010941**225	
12,5	51	102	5	**010941**250	
12,75	51	102	5	**010941**275	
13	51	102	5	**010941**300	

R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE, SERIE ELICA CONTRAPPOSTA, INTERAMENTE RETTIFICATE

EN *Straight shank twist drills, double ended*
FR *Forets cylindriques, à double extrémité*
ESP *Brocas helicoidales, doble terminación*
PT *Brocas helicoidais de veio reto, com duas extremidades*

01095 | **HSS-G** | **RETTIFICATA** *Ground from the solid* | **ELICA CONTRAPPOSTA** *Double ended*



27° N
H8

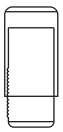


HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
2	10	38	10	**01095**0200	consultare listino
2,5	10	43	10	**01095**0250	*see price list*
3	11	46	10	**01095**0300	
3,2	11	49	10	**01095**0320	
3,25	11	49	10	**01095**0325	
3,3	11	49	10	**01095**0330	
3,4	14	52	10	**01095**0340	
3,5	14	52	10	**01095**0350	
3,75	14	55	10	**01095**0375	
4	14	55	10	**01095**0400	
4,1	14	55	10	**01095**0410	
4,2	17	58	10	**01095**0420	
4,25	17	58	10	**01095**0425	
4,5	17	58	10	**01095**0450	
4,75	17	62	10	**01095**0475	
4,9	17	62	10	**01095**0490	
5	17	62	10	**01095**0500	
5,1	17	62	10	**01095**0510	
5,5	17	66	10	**01095**0550	
6	17	66	10	**01095**0600	
6,5	17	66	10	**01095**0650	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE LUNGA, INTERAMENTE RETTIFICATE

EN *Long straight shank twist drills*
FR *Forets cylindriques, série longue*
ESP *Brocas helicoidales serie larga*
PT *Brocas helicoidais de veio reto longo*

01096 | **HSS-G**

DIN 340 RETTIFICATA
Ground from the solid

SERIE LUNGA
Long serie



27° N
H8



HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)

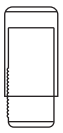


< 8 d



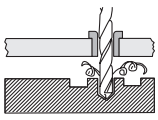
SELF ART. 01106
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
1	33	56	10	**010960**100	consultare
1,5	45	70	10	**010960**150	listino
1,75	53	80	10	**010960**175	*see price list*
2	56	85	10	**010960**200	
2,25	59	90	10	**010960**225	
2,5	62	95	10	**010960**250	
2,75	66	100	10	**010960**275	
3	66	100	10	**010960**300	
3,25	69	106	10	**010960**325	
3,5	73	112	10	**010960**350	
3,75	73	112	10	**010960**375	
4	78	119	10	**010960**400	
4,25	78	119	10	**010960**425	
4,5	82	126	10	**010960**450	
4,75	82	126	10	**010960**475	
5	87	132	10	**010960**500	
5,25	87	132	10	**010960**525	
5,5	91	139	10	**010960**550	
5,75	91	139	10	**010960**575	
6	91	139	10	**010960**600	
6,25	97	148	5	**010960**625	
6,5	97	148	5	**010960**650	
6,75	97	148	5	**010960**675	
7	102	156	5	**010960**700	
7,25	102	156	5	**010960**725	
7,5	102	156	5	**010960**750	
7,75	109	165	5	**010960**775	
8	109	165	5	**010960**800	
8,25	109	165	5	**010960**825	
8,5	109	165	5	**010960**850	
8,75	115	175	5	**010960**875	
9	115	175	5	**010960**900	
9,25	115	175	5	**010960**925	
9,5	115	175	5	**010960**950	
9,75	121	184	5	**010960**975	
10	121	184	5	**010961**000	
10,25	121	184	5	**010961**025	
10,5	121	184	5	**010961**050	
10,75	121	184	5	**010961**075	
11	128	195	5	**010961**100	
11,25	128	195	5	**010961**125	
11,5	128	195	5	**010961**150	
11,75	128	195	5	**010961**175	
11,8	128	195	5	**010961**180	
12	134	205	5	**010961**200	
12,25	134	205	5	**010961**225	
12,5	134	205	5	**010961**250	
12,75	134	205	5	**010961**275	
13	134	205	5	**010961**300	
13,5	140	214	3	**010961**350	
14	140	214	3	**010961**400	
14,5	144	220	3	**010961**450	
15	144	220	3	**010961**500	
15,5	149	227	3	**010961**550	
16	149	227	3	**010961**600	
16,5	154	235	1	**010961**650	
17	154	235	1	**010961**700	
17,5	158	241	1	**010961**750	
18	158	241	1	**010961**800	
18,5	162	247	1	**010961**850	
19	162	247	1	**010961**900	
19,5	166	254	1	**010961**950	
20	166	254	1	**010962**000	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

EN *Extra long straight shank twist drills*
FR *Forets cylindriques, série extra longue*
ESP *Brocas helicoidales serie extra larga*
PT *Brocas helicoidais de veio reto extra longo*

01098 | **HSS-G**

DIN 1869/1 RETTIFICATA

Ground from the solid

SERIE EXTRA LUNGA

Extra long serie



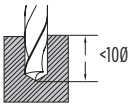
27° N
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



< 10 d

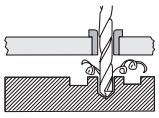






Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2	85	125	1	**01098**0200	consultare
2,5	95	140	1	**01098**0250	listino
3	100	150	1	**01098**0300	*see price list*
3,5	115	165	1	**01098**0350	
4	120	175	1	**01098**0400	
4,5	125	185	1	**01098**0450	
5	135	195	1	**01098**0500	
5,25	135	195	1	**01098**0525	
5,5	140	205	1	**01098**0550	
5,75	140	205	1	**01098**0575	
6	140	205	1	**01098**0600	
6,5	150	215	1	**01098**0650	
6,8	155	225	1	**01098**0680	
7	155	225	1	**01098**0700	
7,5	155	225	1	**01098**0750	
7,75	165	240	1	**01098**0775	
8	165	240	1	**01098**0800	
8,5	165	240	1	**01098**0850	
9	175	250	1	**01098**0900	
9,5	175	250	1	**01098**0950	
10	185	265	1	**01098**1000	
10,2	185	265	1	**01098**1020	
10,5	185	265	1	**01098**1050	
11	195	280	1	**01098**1100	
11,5	195	280	1	**01098**1150	
11,75	205	295	1	**01098**1175	
12	205	295	1	**01098**1200	
12,5	205	295	1	**01098**1250	
13	205	295	1	**01098**1300	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

EN *Extra long straight shank twist drills*
FR *Forets cylindriques, série extra longue*
ESP *Brocas helicoidales serie extra larga*
PT *Brocas helicoidais de veio reto extra longo*

01099 | **HSS-G**

DIN 1869/2 RETTIFICATA

Ground from the solid

SERIE EXTRA LUNGA

Extra long serie



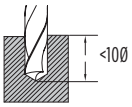
27° N
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



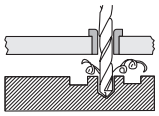
< 10 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
3	130	190	1	**01099**0300	consultare
3,5	145	210	1	**01099**0350	listino
4	150	220	1	**01099**0400	*see price list*
4,5	160	235	1	**01099**0450	
5	170	245	1	**01099**0500	
5,5	180	260	1	**01099**0550	
5,75	180	260	1	**01099**0575	
6	180	260	1	**01099**0600	
6,5	190	275	1	**01099**0650	
7	200	290	1	**01099**0700	
7,5	200	290	1	**01099**0750	
8	210	305	1	**01099**0800	
8,5	210	305	1	**01099**0850	
9	220	320	1	**01099**0900	
9,5	220	320	1	**01099**0950	
10	235	340	1	**01099**1000	
10,5	235	340	1	**01099**1050	
11	250	365	1	**01099**1100	
11,5	250	365	1	**01099**1150	
12	260	375	1	**01099**1200	
12,5	260	375	1	**01099**1250	
13	260	375	1	**01099**1300	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

EN *Extra long straight shank twist drills*
FR *Forets cylindriques, série extra longue*
ESP *Brocas helicoidales serie extra larga*
PT *Brocas helicoidais de veio reto extra longo*

01100 | **HSS-G**

DIN 1869/3 RETTIFICATA
Ground from the solid

SERIE EXTRA LUNGA
Extra long serie



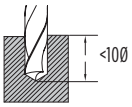
27° N
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



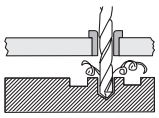
< 10 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3,5	180	265	1	**01100**0350	consultare
4	190	280	1	**01100**0400	listino
4,5	200	295	1	**01100**0450	*see price list*
5	210	315	1	**01100**0500	
5,5	225	330	1	**01100**0550	
6	225	330	1	**01100**0600	
6,5	235	350	1	**01100**0650	
7	250	370	1	**01100**0700	
7,5	250	370	1	**01100**0750	
8	265	390	1	**01100**0800	
8,5	265	390	1	**01100**0850	
9	280	410	1	**01100**0900	
9,5	280	410	1	**01100**0950	
10	295	430	1	**01100**1000	
10,5	295	430	1	**01100**1050	
11	310	455	1	**01100**1100	
11,5	310	455	1	**01100**1150	
12	330	480	1	**01100**1200	
12,5	330	480	1	**01100**1250	
13	330	480	1	**01100**1300	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

EN *Extra long straight shank twist drills*
FR *Forets cylindriques, série extra longue*
ESP *Brocas helicoidales serie extra larga*
PT *Brocas helicoidais de veio reto extra longo*

01129 | **HSS-G**

DIN 1869/2 RETTIFICATA

Ground from the solid

SPECIALE INFISSI

Special for casing



27° N
H8

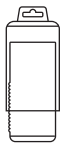


HV 820
SPLIT POINT
DIN 1412C



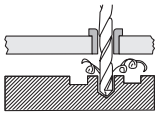
≥ 10 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
3	16	100	10	**01129**1000300	consultare
5	30	210	10	**01129**2100500	listino
5,3	30	210	10	**01129**2100530	*see price list*
5,8	30	150	10	**01129**1500580	
5,8	30	210	10	**01129**2100580	
6,5	30	210	10	**01129**2100650	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

EN *Extra long straight shank twist drills*
FR *Forets cylindriques, série extra longue*
ESP *Brocas helicoidales serie extra larga*
PT *Brocas helicoidais de veio reto extra longo*

01370 | **HSS-G**

DIN 1869/1 RETTIFICATA

Ground from the solid

SERIE EXTRA LUNGA - PARABOLICA

Extra long serie - Parabolic



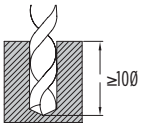
35° W
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



≥ 10 d

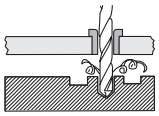






Confezione
Packaging

H8 Ø mm	/ mm	L mm	 pcs.	cod.	cad/each €
2	85	125	1	**01370**0200	consultare
2,5	95	140	1	**01370**0250	listino
3	100	150	1	**01370**0300	*see price list*
3,5	115	165	1	**01370**0350	
4	120	175	1	**01370**0400	
4,5	125	185	1	**01370**0450	
5	135	195	1	**01370**0500	
5,25	135	195	1	**01370**0525	
5,5	140	205	1	**01370**0550	
6	140	205	1	**01370**0600	
6,5	150	215	1	**01370**0650	
7	155	225	1	**01370**0700	
7,5	155	225	1	**01370**0750	
8	165	240	1	**01370**0800	
8,5	165	240	1	**01370**0850	
9	175	250	1	**01370**0900	
9,5	175	250	1	**01370**0950	
10	185	265	1	**01370**1000	
10,5	185	265	1	**01370**1050	
11	195	280	1	**01370**1100	
11,5	195	280	1	**01370**1150	
12	205	295	1	**01370**1200	
12,5	205	295	1	**01370**1250	
13	205	295	1	**01370**1300	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE EXTRA LUNGA, INTERAMENTE RETTIFICATE

EN *Extra long straight shank twist drills*
FR *Forets cylindriques, série extra longue*
ESP *Brocas helicoidales serie extra larga*
PT *Brocas helicoidais de veio reto extra longo*

01371 | **HSS-G**

DIN 1869/2 RETTIFICATA

Ground from the solid

SERIE EXTRA LUNGA - PARABOLICA

Extra long serie - Parabolic



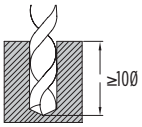
35° W
H8



HV 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥3)



≥ 10 d

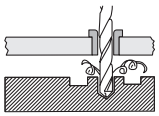






Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	 cod.	 cad/each €
3	130	190	1	**013710300**	consultare
3,5	145	210	1	**013710350**	listino
4	150	220	1	**013710400**	*see price list*
4,5	160	235	1	**013710450**	
5	170	245	1	**013710500**	
5,5	180	260	1	**013710550**	
6	180	260	1	**013710600**	
6,5	190	275	1	**013710650**	
7	200	290	1	**013710700**	
7,5	200	290	1	**013710750**	
8	210	305	1	**013710800**	
8,5	210	305	1	**013710850**	
9	220	320	1	**013710900**	
9,5	220	320	1	**013710950**	
10	235	340	1	**013711000**	
10,5	235	340	1	**013711050**	
11	250	365	1	**013711100**	
11,5	250	365	1	**013711150**	
12	260	375	1	**013711200**	
12,5	260	375	1	**013711250**	
13	260	375	1	**013711300**	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE HSS RETTIFICATE, SERIE SPECIALI SUPER LUNGHE

EN *Long straight shank twist drills*
FR *Forets cylindriques, série longue*
ESP *Brocas helicoidales serie larga*
PT *Brocas helicoidais de veio reto longo*

01105 | **HSS-G**

NORMA KRINO

Ground from the solid

SERIE SUPER LUNGA L = 305 mm

Super long serie L = 305 mm



27° N
H8



HV 820
SPLIT POINT
DIN 1412C



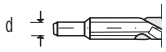
< 10 d



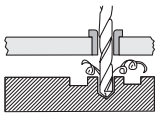
Confezione
Packaging

H8	l	L	d			
Ø mm	mm	mm	mm	pcs.	cod.	cad/each €
6	228	305	6	1	**01105**0600	consultare
6,5	228	305	6,5	1	**01105**0650	listino
7	228	305	7	1	**01105**0700	*see price list*
7,5	228	305	7,5	1	**01105**0750	
8	228	305	8	1	**01105**0800	
8,5	228	305	8,5	1	**01105**0850	
9	228	305	9	1	**01105**0900	
9,5	228	305	9,5	1	**01105**0950	
10	228	305	10	1	**01105**1000	
10,5	228	305	10,5	1	**01105**1050	
11	228	305	11	1	**01105**1100	
11,5	228	305	11,5	1	**01105**1150	
12	228	305	12	1	**01105**1200	
12,5	228	305	12,5	1	**01105**1250	
***13**	228	305	13	1	**01105**1300	
***14**	228	305	13	1	**01105**1400	
***15**	228	305	13	1	**01105**1500	
***16**	228	305	13	1	**01105**1600	

* Codolo ridotto - 13 mm
** Reduced shank - 13 mm*



d=13 mm



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE HSS RETTIFICATE, SERIE SPECIALI SUPER LUNGHE

EN *Long straight shank twist drills*
FR *Forets cylindriques, série longue*
ESP *Brocas helicoidales serie larga*
PT *Brocas helicoidais de veio reto longo*

01114 | **HSS-G**

NORMA KRINO

Ground from the solid

SERIE SUPER LUNGA L = 460 mm

Super long serie L = 460 mm



27° N
H8



HV 820
SPLIT POINT
DIN 1412C

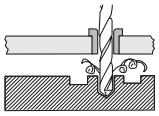


< 10 d



Confezione
Packaging

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
6	330	460	6	1	**01114**0600	consultare
8	330	460	8	1	**01114**0800	listino
10	330	460	10	1	**01114**1000	*see price list*
12	330	460	12	1	**01114**1200	
14	330	460	14	1	**01114**1400	
16	330	460	16	1	**01114**1600	



R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, INTERAMENTE RETTIFICATE, SERIE CORTA, FINITURA BRILLANTE

EN *Fully ground straight shank twist drills*
FR *Forets cylindriques rectifiés*
ESP *Brocas helicoidales rectificadas*
PT *Brocas helicoidais de veio reto totalmente retificados*

01070 | **HSS-G**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie



27° N
H8



HV = 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)

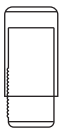


< 5 d



SELF ART. 01071
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,3	3	19	10	**010700**30	consultare listino
0,35	4	19	10	**010700**35	*see price list*
0,4	5	20	10	**010700**40	
0,45	5	20	10	**010700**45	
0,5	6	22	10	**010700**50	
0,55	7	24	10	**010700**55	
0,6	7	24	10	**010700**60	
0,65	8	26	10	**010700**65	
0,7	9	28	10	**010700**70	
0,75	9	28	10	**010700**75	
0,8	10	30	10	**010700**80	
0,85	10	30	10	**010700**85	
0,9	11	32	10	**010700**90	
0,95	11	32	10	**010700**95	
1	12	34	10	**010700**100	
1,1	14	36	10	**010700**110	
1,2	16	38	10	**010700**120	
1,25	16	38	10	**010700**125	
1,3	16	38	10	**010700**130	
1,4	18	40	10	**010700**140	
1,5	18	40	10	**010700**150	
1,6	20	43	10	**010700**160	
1,7	20	43	10	**010700**170	
1,75	22	46	10	**010700**175	
1,8	22	46	10	**010700**180	
1,9	22	46	10	**010700**190	
2	24	49	10	**010700**200	
2,1	24	49	10	**010700**210	
2,2	27	53	10	**010700**220	
2,25	27	53	10	**010700**225	
2,3	27	53	10	**010700**230	
2,4	30	57	10	**010700**240	
2,5	30	57	10	**010700**250	
2,6	30	57	10	**010700**260	
2,7	33	61	10	**010700**270	
2,75	33	61	10	**010700**275	
2,8	33	61	10	**010700**280	
2,9	33	61	10	**010700**290	
3	33	61	10	**010700**300	
3,1	36	65	10	**010700**310	
3,2	36	65	10	**010700**320	
3,25	36	65	10	**010700**325	
3,3	36	65	10	**010700**330	
3,4	39	70	10	**010700**340	
3,5	39	70	10	**010700**350	
3,6	39	70	10	**010700**360	
3,7	39	70	10	**010700**370	
3,75	39	70	10	**010700**375	
3,8	43	75	10	**010700**380	
3,9	43	75	10	**010700**390	
4	43	75	10	**010700**400	
4,1	43	75	10	**010700**410	
4,2	43	75	10	**010700**420	
4,25	43	75	10	**010700**425	
4,3	47	80	10	**010700**430	
4,4	47	80	10	**010700**440	
4,5	47	80	10	**010700**450	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
4,6	47	80	10	**01070**0460	
4,7	47	80	10	**01070**0470	
4,75	47	80	10	**01070**0475	
4,8	52	86	10	**01070**0480	
4,9	52	86	10	**01070**0490	
5	52	86	10	**01070**0500	
5,1	52	86	10	**01070**0510	
5,2	52	86	10	**01070**0520	
5,25	52	86	10	**01070**0525	
5,3	52	86	10	**01070**0530	
5,4	57	93	10	**01070**0540	
5,5	57	93	10	**01070**0550	
5,6	57	93	10	**01070**0560	
5,7	57	93	10	**01070**0570	
5,75	57	93	10	**01070**0575	
5,8	57	93	10	**01070**0580	
5,9	57	93	10	**01070**0590	
6	57	93	10	**01070**0600	
6,1	63	101	10	**01070**0610	
6,2	63	101	10	**01070**0620	
6,25	63	101	10	**01070**0625	
6,3	63	101	10	**01070**0630	
6,4	63	101	10	**01070**0640	
6,5	63	101	10	**01070**0650	
6,6	63	101	10	**01070**0660	
6,7	63	101	10	**01070**0670	
6,75	69	109	10	**01070**0675	
6,8	69	109	10	**01070**0680	
6,9	69	109	10	**01070**0690	
7	69	109	10	**01070**0700	
7,1	69	109	5	**01070**0710	
7,2	69	109	5	**01070**0720	
7,25	69	109	5	**01070**0725	
7,3	69	109	5	**01070**0730	
7,4	69	109	5	**01070**0740	
7,5	69	109	5	**01070**0750	
7,6	75	117	5	**01070**0760	
7,7	75	117	5	**01070**0770	
7,75	75	117	5	**01070**0775	
7,8	75	117	5	**01070**0780	
7,9	75	117	5	**01070**0790	
8	75	117	5	**01070**0800	
8,1	75	117	5	**01070**0810	
8,2	75	117	5	**01070**0820	
8,25	75	117	5	**01070**0825	
8,3	75	117	5	**01070**0830	
8,4	75	117	5	**01070**0840	
8,5	75	117	5	**01070**0850	
8,6	81	125	5	**01070**0860	
8,7	81	125	5	**01070**0870	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
8,75	81	125	5	**01070**0875	
8,8	81	125	5	**01070**0880	
8,9	81	125	5	**01070**0890	
9	81	125	5	**01070**0900	
9,1	81	125	5	**01070**0910	
9,2	81	125	5	**01070**0920	
9,25	81	125	5	**01070**0925	
9,3	81	125	5	**01070**0930	
9,4	81	125	5	**01070**0940	
9,5	81	125	5	**01070**0950	
9,6	87	133	5	**01070**0960	
9,7	87	133	5	**01070**0970	
9,75	87	133	5	**01070**0975	
9,8	87	133	5	**01070**0980	
9,9	87	133	5	**01070**0990	
10	87	133	5	**01070**1000	
10,2	87	133	5	**01070**1020	
10,25	87	133	5	**01070**1025	
10,4	87	133	5	**01070**1040	
10,5	87	133	5	**01070**1050	
10,75	94	142	5	**01070**1075	
11	94	142	5	**01070**1100	
11,25	94	142	5	**01070**1125	
11,5	94	142	5	**01070**1150	
11,75	94	142	5	**01070**1175	
12	101	151	5	**01070**1200	
12,25	101	151	5	**01070**1225	
12,4	101	151	5	**01070**1240	
12,5	101	151	5	**01070**1250	
12,75	101	151	5	**01070**1275	
13	101	151	5	**01070**1300	
13,25	108	160	3	**01070**1325	
13,5	108	160	3	**01070**1350	
13,75	108	160	3	**01070**1375	
14	108	160	3	**01070**1400	
14,25	114	169	3	**01070**1425	
14,5	114	169	3	**01070**1450	
14,75	114	169	3	**01070**1475	
15	114	169	3	**01070**1500	
15,25	120	178	3	**01070**1525	
15,5	120	178	3	**01070**1550	
15,75	120	178	3	**01070**1575	
16	120	178	3	**01070**1600	
16,5	125	184	1	**01070**1650	
17	125	184	1	**01070**1700	
17,5	130	191	1	**01070**1750	
18	130	191	1	**01070**1800	
18,5	135	198	1	**01070**1850	
19	135	198	1	**01070**1900	
20	140	205	1	**01070**2000	

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

EN *Reduced shank twist drills*
FR *Forets cylindriques rectifiés à queue degageé*
ESP *Brocas helicoidales rectificadas,vastago reducido*
PT *Brocas helicoidais de veio reduzida totalmente retificados*

01072 — HSS-G — DIN 338 RETTIFICATA

Ground from the solid

CODOLO RIDOTTO - 10 mm

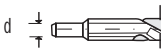
Reduced shank - 10 mm



27° N
H8



HV = 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)



d=10 mm

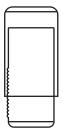


< 5 d



SELF ART. 01073
Su richiesta / *On demand*





Confezione
Packaging

H8	l	L	d			
Ø mm	mm	mm	mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**01072**1025	consultare
10,5	87	133	10	5	**01072**1050	listino
10,75	94	142	10	5	**01072**1075	*see price list*
11	94	142	10	5	**01072**1100	
11,25	94	142	10	5	**01072**1125	
11,5	94	142	10	5	**01072**1150	
11,75	94	142	10	5	**01072**1175	
12	101	151	10	5	**01072**1200	
12,25	101	151	10	5	**01072**1225	
12,5	101	151	10	5	**01072**1250	
12,75	101	151	10	5	**01072**1275	
13	101	151	10	5	**01072**1300	
13,25	108	160	10	3	**01072**1325	
13,5	108	160	10	3	**01072**1350	
13,75	108	160	10	3	**01072**1375	
14	108	160	10	3	**01072**1400	
14,25	114	169	10	3	**01072**1425	
14,5	114	169	10	3	**01072**1450	
14,75	114	169	10	3	**01072**1475	
15	114	169	10	3	**01072**1500	
15,25	120	178	10	3	**01072**1525	
15,5	120	178	10	3	**01072**1550	
15,75	120	178	10	3	**01072**1575	
16	120	178	10	3	**01072**1600	
16,5	125	184	10	1	**01072**1650	
17	125	184	10	1	**01072**1700	
17,5	130	191	10	1	**01072**1750	
18	130	191	10	1	**01072**1800	
18,5	135	198	10	1	**01072**1850	
19	135	198	10	1	**01072**1900	
19,5	140	205	10	1	**01072**1950	
20	140	205	10	1	**01072**2000	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

EN *Reduced shank twist drills*
FR *Forets cylindriques rectifiés à queue degageé*
ESP *Brocas helicoidales rectificadas,vastago reducido*
PT *Brocas helicoidais de veio reduzida totalmente retificados*

01074 — HSS-G

DIN 338 RETTIFICATA
Ground from the solid

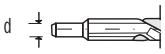
CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N
H8



HV = 820
AISI M2
SPLIT POINT
DIN 1412C
(Ø≥2,5)



d=13 mm

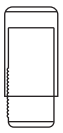


< 5 d



SELF ART. 01073
Su richiesta / *On demand*





Confezione
Packaging

H8	l	L	d			
Ø mm	mm	mm	mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01074**1325	consultare
13,5	108	160	13	3	**01074**1350	listino
13,75	108	160	13	3	**01074**1375	*see price list*
14	108	160	13	3	**01074**1400	
14,25	114	169	13	3	**01074**1425	
14,5	114	169	13	3	**01074**1450	
14,75	114	169	13	3	**01074**1475	
15	114	169	13	3	**01074**1500	
15,25	120	178	13	3	**01074**1525	
15,5	120	178	13	3	**01074**1550	
15,75	120	178	13	3	**01074**1575	
16	120	178	13	3	**01074**1600	
16,5	125	184	13	1	**01074**1650	
17	125	184	13	1	**01074**1700	
17,5	130	191	13	1	**01074**1750	
18	130	191	13	1	**01074**1800	
18,5	135	198	13	1	**01074**1850	
19	135	198	13	1	**01074**1900	
19,5	140	205	13	1	**01074**1950	
20	140	205	13	1	**01074**2000	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE INTERAMENTE RETTIFICATE, SERIE EXTRA CORTA, FINITURA BRILLANTE

EN *Straight shank twist drills, stub serie*
FR *Forets cylindriques série extra courte*
ESP *Brocas helicoidales, serie extra corta*
PT *Brocas helicoidais de veio reto série extra curta*

01076 | **HSS-G**

DIN 1897 RETTIFICATA
Ground from the solid

SERIE EXTRA CORTA
Extra short serie



27° N
H8

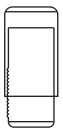


HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1,5	9	32	10	**010760**150	consultare
2	12	38	10	**010760**200	listino
2,2	13	40	10	**010760**220	*see price list*
2,25	13	40	10	**010760**225	
2,5	14	43	10	**010760**250	
2,75	16	46	10	**010760**275	
2,8	16	46	10	**010760**280	
3	16	46	10	**010760**300	
3,1	18	49	10	**010760**310	
3,2	18	49	10	**010760**320	
3,25	18	49	10	**010760**325	
3,3	18	49	10	**010760**330	
3,5	20	52	10	**010760**350	
3,7	20	52	10	**010760**370	
3,75	20	52	10	**010760**375	
3,8	22	55	10	**010760**380	
4	22	55	10	**010760**400	
4,1	22	55	10	**010760**410	
4,2	22	55	10	**010760**420	
4,25	22	55	10	**010760**425	
4,5	24	58	10	**010760**450	
4,75	24	58	10	**010760**475	
4,8	26	62	10	**010760**480	
5	26	62	10	**010760**500	
5,1	26	62	10	**010760**510	
5,2	26	62	10	**010760**520	
5,25	26	62	10	**010760**525	
5,5	28	66	10	**010760**550	
5,75	28	66	10	**010760**575	
5,8	28	66	10	**010760**580	
6	28	66	10	**010760**600	
6,25	31	70	10	**010760**625	
6,5	31	70	10	**010760**650	
6,75	34	74	10	**010760**675	
7	34	74	10	**010760**700	
7,5	34	74	5	**010760**750	
8	37	79	5	**010760**800	
8,5	37	79	5	**010760**850	
9	40	84	5	**010760**900	
9,5	40	84	5	**010760**950	
10	43	89	5	**010761**000	
10,5	43	89	5	**010761**050	
11	47	95	5	**010761**100	
11,5	47	95	5	**010761**150	
12	51	102	5	**010761**200	
12,5	51	102	5	**010761**250	
13	51	102	5	**010761**300	



R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI SUPERCORTE PER LATTONIERI, FINITURA BRILLANTE

EN *Extra short twist drills for portable applications*
FR *Forets cylindriques série extra courte spéciale*
ESP *Brocas helicoidales, serie extra corta special*
PT *Brocas helicoidais de veio reto série extra curta especial*

01050 | **HSS-G**

NORMA KRINO RETTIFICATA
Ground from the solid

SERIE SUPERCORTA
Supershort serie



27° N
H8

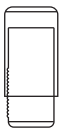


HV ≃ 750÷820
SPLIT POINT
DIN 1412C



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
3	16	35	10	**01050**0300	consultare
3,2	19	40	10	**01050**0320	listino
3,25	19	40	10	**01050**0325	*see price list*
3,3	19	40	10	**01050**0330	
3,5	19	40	10	**01050**0350	
3,6	19	40	10	**01050**0360	
3,75	19	40	10	**01050**0375	
4	20	40	10	**01050**0400	
4,1	20	40	10	**01050**0410	
4,2	20	40	10	**01050**0420	
4,25	20	40	10	**01050**0425	
4,5	23	42	10	**01050**0450	
5	23	45	10	**01050**0500	



Punte speciali per lattonieri, carpentieri, coperturisti, fabbri, installatori. Foratura dolce e precisa, grazie all'affilatura split point autocentrante, su lamiere e tubi in acciaio, rame e plastica.

Special drill bits for sheet metal workers, carpenters, roofers, blacksmiths, and installers. Smooth and precise drilling—thanks to the self-centering split-point grind—in sheet metal and pipes made of steel, copper, and plastic.

Forets spéciaux pour ferblantiers, charpentiers, couvreurs, forgerons et installateurs. Perçage en douceur et précis, grâce à l'affûtage « split point » à centrage automatique, sur les tôles et les tubes en acier, en cuivre et en plastique.

Brocas especiales para hojalateros, carpinteros, techadores, herreros e instaladores. Perforación suave y precisa, gracias al afilado «split point» autocentrante, en chapas y tubos de acero, cobre y plástico.

Brocas especiais para chapeiros, carpinteiros, telhadores, ferreiros e instaladores. Perfuração suave e precisa, graças ao fio de corte "split point" autocentrante, em chapas e tubos de aço, cobre e plástico.

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE ELICA CONTRAPPOSTA, INTERAMENTE RETTIFICATE FINITURA BRILLANTE

EN *Straight shank twist drills, double ended*
FR *Forets cylindriques, à double extrémité*
ESP *Brocas helicoidales, doble terminación*
PT *Brocas helicoidais de veio reto, com duas extremidades*

01077 | **HSS-G** | **RETTIFICATA** *Ground from the solid* | **ELICA CONTRAPPOSTA** *Double ended*



27° N
H8

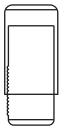


HV 820
SPLIT POINT
DIN 1412C
(Ø≥3)



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2	10	38	10	**01077**0200	consultare listino
2,5	10	43	10	**01077**0250	*see price list*
3	11	46	10	**01077**0300	
3,2	11	49	10	**01077**0320	
3,25	11	49	10	**01077**0325	
3,3	11	49	10	**01077**0330	
3,4	14	52	10	**01077**0340	
3,5	14	52	10	**01077**0350	
3,75	14	55	10	**01077**0375	
4	14	55	10	**01077**0400	
4,1	14	55	10	**01077**0410	
4,2	17	58	10	**01077**0420	
4,25	17	58	10	**01077**0425	
4,5	17	58	10	**01077**0450	
4,75	17	62	10	**01077**0475	
4,9	17	62	10	**01077**0490	
5	17	62	10	**01077**0500	
5,1	17	62	10	**01077**0510	
5,5	17	66	10	**01077**0550	
6	17	66	10	**01077**0600	



R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE LUNGA, INTERAMENTE RETTIFICATE FINITURA BRILLANTE

EN *Long straight shank twist drills*
FR *Forets cylindriques, série longue*
ESP *Brocas helicoidales serie larga*
PT *Brocas helicoidais de veio reto longo*

01078 | **HSS-G**

DIN 340 RETTIFICATA
Ground from the solid

SERIE LUNGA
Long serie



27° N
H8

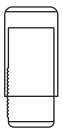


HV = 820
SPLIT POINT
DIN 1412C
(Ø≥3)



< 8 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
1,5	45	70	10	**010780**150	consultare
1,75	53	80	10	**010780**175	listino
2	56	85	10	**010780**200	*see price list*
2,25	59	90	10	**010780**225	
2,5	62	95	10	**010780**250	
2,75	66	100	10	**010780**275	
3	66	100	10	**010780**300	
3,25	69	106	10	**010780**325	
3,5	73	112	10	**010780**350	
3,75	73	112	10	**010780**375	
4	78	119	10	**010780**400	
4,25	78	119	10	**010780**425	
4,5	82	126	10	**010780**450	
4,75	82	126	10	**010780**475	
5	87	132	10	**010780**500	
5,25	87	132	10	**010780**525	
5,5	91	139	10	**010780**550	
5,75	91	139	10	**010780**575	
6	91	139	10	**010780**600	
6,25	97	148	5	**010780**625	
6,5	97	148	5	**010780**650	
6,75	97	148	5	**010780**675	
7	102	156	5	**010780**700	
7,25	102	156	5	**010780**725	
7,5	102	156	5	**010780**750	
7,75	109	165	5	**010780**775	
8	109	165	5	**010780**800	
8,25	109	165	5	**010780**825	
8,5	109	165	5	**010780**850	
8,75	115	175	5	**010780**875	
9	115	175	5	**010780**900	
9,25	115	175	5	**010780**925	
9,5	115	175	5	**010780**950	
9,75	121	184	5	**010780**975	
10	121	184	5	**010781**000	
10,5	121	184	5	**010781**050	
11	128	195	5	**010781**100	
11,5	128	195	5	**010781**150	
12	134	205	5	**010781**200	
12,5	134	205	5	**010781**250	
13	134	205	5	**010781**300	
13,5	140	214	3	**010781**350	
14	140	214	3	**010781**400	
14,5	144	220	3	**010781**450	
15	144	220	3	**010781**500	
15,5	149	227	3	**010781**550	
16	149	227	3	**010781**600	
16,5	154	235	1	**010781**650	
17	154	235	1	**010781**700	
17,5	158	241	1	**010781**750	
18	158	241	1	**010781**800	
18,5	162	247	1	**010781**850	
19	162	247	1	**010781**900	
19,5	166	254	1	**010781**950	
20	166	254	1	**010782**000	

R ≤ 800 N/mm²



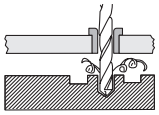
Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE INTERAMENTE RETTIFICATE, SERIE CORTA, FINITURA BRILLANTE IN POLLICI

EN *Fully ground straight shank twist drills in inches*
FR *Forets cylindriques rectifiés en pouce*
ESP *Brocas helicoidales rectificadas en pulgadas*
PT *Brocas helicoidais de veio reto totalmente retificadas em polegadas*

01115 | **HSS-G**

ANSI B94 RETTIFICATA
Ground from the solid

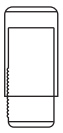
SERIE CORTA - POLLICI
Short series - Pulgadas

135° 27° N
H8

HV ≈ 820
SPLIT POINT
DIN 1412 C

< 5 d





Confezione
Packaging

Ø *inches*	Ø mm	*l inches*	L *inches*	pcs.	cod.	cad/each €
1/64	0,40	3/16	3/4	10	**01115**11	consultare listino
1/32	0,79	1/2	1-3/8	10	**01115**12	*see price list*
3/64	1,19	3/4	1-3/4	10	**01115**13	
1/16	1,59	7/8	1-7/8	10	**01115**14	
5/64	1,98	1	2	10	**01115**15	
3/32	2,38	1-1/4	2-1/4	10	**01115**16	
7/64	2,78	1-1/2	2-5/8	10	**01115**17	
1/8	3,17	1-5/8	2-3/4	10	**01115**18	
9/64	3,57	1-3/4	2-7/8	10	**01115**19	
5/32	3,97	2	3-1/8	10	**01115**20	
11/64	4,37	2-1/8	3-1/4	10	**01115**21	
3/16	4,76	2-5/16	3-1/2	10	**01115**22	
13/64	5,16	2-7/16	3-5/8	10	**01115**23	
7/32	5,56	2-1/2	3-3/4	10	**01115**24	
15/64	5,95	2-5/8	3-7/8	10	**01115**25	
1/4	6,35	2-3/4	4	10	**01115**26	
17/64	6,75	2-7/8	4-1/8	10	**01115**27	
9/32	7,14	2-15/16	4-1/4	5	**01115**28	
19/64	7,54	3-1/16	4-3/8	5	**01115**29	
5/16	7,94	3-3/16	4-1/2	5	**01115**30	
21/64	8,33	3-5/16	4-5/8	5	**01115**31	
11/32	8,73	3-7/16	4-3/4	5	**01115**32	
23/64	9,13	3-1/2	4-7/8	5	**01115**33	
3/8	9,52	3-5/8	5	5	**01115**34	
25/64	9,92	3-3/4	5-1/8	5	**01115**35	
13/32	10,32	3-7/8	5-1/4	5	**01115**36	
27/64	10,72	3-15/16	5-3/8	5	**01115**37	
7/16	11,11	4-1/16	5-1/2	5	**01115**38	
29/64	11,51	4-3/16	5-5/8	5	**01115**39	
15/32	11,91	4-5/16	5-3/4	5	**01115**40	
31/64	12,30	4-3/8	5-7/8	5	**01115**41	
1/2	12,70	4-1/2	6	5	**01115**42	
33/64	13,10	4-13/16	6-5/8	3	**01115**43	
17/32	13,49	4-13/16	6-5/8	3	**01115**44	
35/64	13,89	4-13/16	6-5/8	3	**01115**45	
9/16	14,29	4-13/16	6-5/8	3	**01115**46	
37/64	14,68	4-13/16	6-5/8	3	**01115**47	
19/32	15,08	5-3/16	7-1/8	3	**01115**48	
39/64	15,48	5-3/16	7-1/8	3	**01115**49	
5/8	15,88	5-3/16	7-1/8	3	**01115**50	
11/16	17,46	5-5/8	7-5/8	1	**01115**54	
3/4	19,05	6	8	1	**01115**58	

R ≤ 800 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

PUNTE ELICOIDALI CON ATTACCO ESAGONALE 1/4" INTERAMENTE RETTIFICATE PER AVVITATORI E TRAPANI REVERSIBILI

EN *Drill bits with 1/4 hexagon drive for power screwdrivers and cordless drills*
FR *Foret à queue 6 pans (1/4") adaptable sur perceuse-visseuse*
ESP *Broca con vastago esagonal 1/4" para taladros y atornilladores portatiles*
PT *Brocas com encaixe hexagonal de 1/4" para aparafusadoras e berbequins sem fios*

10211

HSS-G

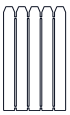
1/4" HEX
1/4" Hex



27° N
H8







Confezione
Packaging

H8 Ø mm	l mm	L mm	d mm	 pcs.	cod.	cad/each €
1	7	32	1/4	1	**10211**0100	consultare
1,5	10	32	1/4	1	**10211**0150	listino
2	12	34	1/4	1	**10211**0200	*see price list*
2,5 (M3)	14	36	1/4	1	**10211**0250	
3	16	38	1/4	1	**10211**0300	
3,3 (M4)	18	40	1/4	1	**10211**0330	
3,5	18	40	1/4	1	**10211**0350	
4	20	44	1/4	1	**10211**0400	
4,2 (M5)	20	45	1/4	1	**10211**0420	
4,5	24	46	1/4	1	**10211**0450	
5 (M6)	26	50	1/4	1	**10211**0500	
5,5	26	50	1/4	1	**10211**0550	
6	26	50	1/4	1	**10211**0600	
6,5	30	50	1/4	1	**10211**0650	
6,8 (M8)	30	50	1/4	1	**10211**0680	
7	30	50	1/4	1	**10211**0700	
7,5	32	51	1/4	1	**10211**0750	
8	32	51	1/4	1	**10211**0800	
8,5 (M10)	33	53	1/4	1	**10211**0850	
9	33	53	1/4	1	**10211**0900	
9,5	38	54	1/4	1	**10211**0950	
10	38	54	1/4	1	**10211**1000	
10,2 (M12)	38	54	1/4	1	**10211**1020	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE CORTA CON ANGOLO AL VERTICE DI 118°

EN *Fully ground straight shank twist drills - 118°*
FR *Forets cylindriques rectifiés - 118°*
ESP *Brocas helicoidales rectificadas - 118°*
PT *Brocas helicoidais de veio reto totalmente retificados - 118°*

01066 | **HSS-G**

DIN 338 - 118° RETTIFICATA
Ground from the solid

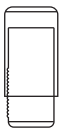
SERIE CORTA - 118°
Short serie - 118°

118° 27° N H8

AISI M2
HV ≃ 820

< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	10	**010660**100	consultare listino
1,1	14	36	10	**010660**110	*see price list*
1,2	16	38	10	**010660**120	
1,25	16	38	10	**010660**125	
1,3	16	38	10	**010660**130	
1,4	18	40	10	**010660**140	
1,5	18	40	10	**010660**150	
1,6	20	43	10	**010660**160	
1,7	20	43	10	**010660**170	
1,75	22	46	10	**010660**175	
1,8	22	46	10	**010660**180	
1,9	22	46	10	**010660**190	
2	24	49	10	**010660**200	
2,1	24	49	10	**010660**210	
2,2	27	53	10	**010660**220	
2,25	27	53	10	**010660**225	
2,3	27	53	10	**010660**230	
2,4	30	57	10	**010660**240	
2,5	30	57	10	**010660**250	
2,6	30	57	10	**010660**260	
2,7	33	61	10	**010660**270	
2,75	33	61	10	**010660**275	
2,8	33	61	10	**010660**280	
2,9	33	61	10	**010660**290	
3	36	61	10	**010660**300	
3,1	36	65	10	**010660**310	
3,2	36	65	10	**010660**320	
3,25	36	65	10	**010660**325	
3,3	36	65	10	**010660**330	
3,4	39	70	10	**010660**340	
3,5	39	70	10	**010660**350	
3,6	39	70	10	**010660**360	
3,7	39	70	10	**010660**370	
3,75	39	70	10	**010660**375	
3,8	43	75	10	**010660**380	
3,9	43	75	10	**010660**390	
4	43	75	10	**010660**400	
4,1	43	75	10	**010660**410	
4,2	43	75	10	**010660**420	
4,25	43	75	10	**010660**425	
4,3	47	80	10	**010660**430	
4,4	47	80	10	**010660**440	
4,5	47	80	10	**010660**450	
4,6	47	80	10	**010660**460	
4,7	47	80	10	**010660**470	
4,75	47	80	10	**010660**475	
4,8	52	86	10	**010660**480	
4,9	52	86	10	**010660**490	
5	52	86	10	**010660**500	
5,1	52	86	10	**010660**510	
5,2	52	86	10	**010660**520	
5,25	52	86	10	**010660**525	
5,3	52	86	10	**010660**530	
5,4	57	93	10	**010660**540	
5,5	57	93	10	**010660**550	
5,6	57	93	10	**010660**560	
5,7	57	93	10	**010660**570	

R ≤ 800 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

SERIE CORTA - 118°

Short serie - 118°

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
5,75	57	93	10	**010660**575	consultare listino
5,8	57	93	10	**010660**580	*see price list*
5,9	57	93	10	**010660**590	
6	57	93	10	**010660**600	
6,1	63	101	10	**010660**610	
6,2	63	101	10	**010660**620	
6,25	63	101	10	**010660**625	
6,3	63	101	10	**010660**630	
6,4	63	101	10	**010660**640	
6,5	63	101	10	**010660**650	
6,6	63	101	10	**010660**660	
6,7	63	101	10	**010660**670	
6,75	69	109	10	**010660**675	
6,8	69	109	10	**010660**680	
6,9	69	109	10	**010660**690	
7	69	109	10	**010660**700	
7,1	69	109	5	**010660**710	
7,2	69	109	5	**010660**720	
7,25	69	109	5	**010660**725	
7,3	69	109	5	**010660**730	
7,4	69	109	5	**010660**740	
7,5	69	109	5	**010660**750	
7,6	75	117	5	**010660**760	
7,7	75	117	5	**010660**770	
7,75	75	117	5	**010660**775	
7,8	75	117	5	**010660**780	
7,9	75	117	5	**010660**790	
8	75	117	5	**010660**800	
8,1	75	117	5	**010660**810	
8,2	75	117	5	**010660**820	
8,25	75	117	5	**010660**825	
8,3	75	117	5	**010660**830	
8,4	75	117	5	**010660**840	
8,5	75	117	5	**010660**850	
8,6	81	125	5	**010660**860	
8,7	81	125	5	**010660**870	
8,75	81	125	5	**010660**875	
8,8	81	125	5	**010660**880	
8,9	81	125	5	**010660**890	
9	81	125	5	**010660**900	
9,1	81	125	5	**010660**910	
9,2	81	125	5	**010660**920	
9,25	81	125	5	**010660**925	
9,3	81	125	5	**010660**930	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
9,4	81	125	5	**010660**940	consultare listino
9,5	81	125	5	**010660**950	*see price list*
9,6	87	133	5	**010660**960	
9,7	87	133	5	**010660**970	
9,75	87	133	5	**010660**975	
9,8	87	133	5	**010660**980	
9,9	87	133	5	**010660**990	
10	87	133	5	**010661**000	
10,1	87	133	5	**010661**010	
10,2	87	133	5	**010661**020	
10,25	87	133	5	**010661**025	
10,3	87	133	5	**010661**030	
10,4	87	133	5	**010661**040	
10,5	87	133	5	**010661**050	
10,6	87	133	5	**010661**060	
10,7	94	142	5	**010661**070	
10,75	94	142	5	**010661**075	
10,8	94	142	5	**010661**080	
10,9	94	142	5	**010661**090	
11	94	142	5	**010661**100	
11,1	94	142	5	**010661**110	
11,2	94	142	5	**010661**120	
11,25	94	142	5	**010661**125	
11,3	94	142	5	**010661**130	
11,4	94	142	5	**010661**140	
11,5	94	142	5	**010661**150	
11,6	94	142	5	**010661**160	
11,7	94	142	5	**010661**170	
11,75	94	142	5	**010661**175	
11,8	94	142	5	**010661**180	
11,9	101	151	5	**010661**190	
12	101	151	5	**010661**200	
12,1	101	151	5	**010661**210	
12,2	101	151	5	**010661**220	
12,25	101	151	5	**010661**225	
12,3	101	151	5	**010661**230	
12,4	101	151	5	**010661**240	
12,5	101	151	5	**010661**250	
12,6	101	151	5	**010661**260	
12,7	101	151	5	**010661**270	
12,75	101	151	5	**010661**275	
12,8	101	151	5	**010661**280	
12,9	101	151	5	**010661**290	
13	101	151	5	**010661**300	

PUNTE ELICOIDALI CILINDRICHE, ESECUZIONE INTERAMENTE RETTIFICATA, SERIE EXTRA CORTA CON ANGOLO AL VERTICE DI 118°

EN *Fully ground straight shank twist drills, stub serie - 118°*
FR *Forets cylindriques série extra courte - 118°*
ESP *Brocas helicoidales, serie extra corta - 118°*
PT *Brocas helicoidais de veio reto série extra curta - 118°*

01022 | **HSS-G**

DIN 1897 RETTIFICATA
Ground from the solid

SERIE EXTRA CORTA
Extra short serie



27° N
H8

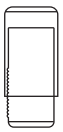


AISI M2
HV ≃ 820



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2,5	14	43	10	**01022**0250	consultare
3	16	46	10	**01022**0300	listino
3,2	18	49	10	**01022**0320	*see price list*
3,25	18	49	10	**01022**0325	
3,5	20	52	10	**01022**0350	
3,7	20	52	10	**01022**0370	
3,75	20	52	10	**01022**0375	
4	22	55	10	**01022**0400	
4,2	22	55	10	**01022**0420	
4,25	22	55	10	**01022**0425	
4,5	24	58	10	**01022**0450	
5	26	62	10	**01022**0500	
5,5	28	66	10	**01022**0550	
6	28	66	10	**01022**0600	



R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant


118°
HSS
AISI M2
W 27°
COD. 01066

PUNTE ELICOIDALI CILINDRICHE “BASIC”, ESECUZIONE RETTIFICATA, SERIE CORTA, FINITURA LUCIDA

EN *“BASIC” fully ground straight shank twist drills*
FR *Forets cylindriques rectifiés "BASIC"*
ESP *Brocas helicoidales rectificadas “BASIC”*
PT *Brocas helicoidais de veio reto "BÁSICAS" totalmente retificados*

01350 | **HSS-G**

DIN 338 RETTIFICATA
Ground from the solid

SERIE CORTA
Short serie

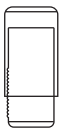
135° 27° N
H8

HV ≃ 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

< 5 d

SELF ART. 01351
Su richiesta / *On demand*





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,2	2,5	19	10	013500020	consultare
0,25	3	19	10	013500025	listino
0,3	3	19	10	013500030	*see price list*
0,35	4	19	10	013500035	
0,4	5	20	10	013500040	
0,45	5	20	10	013500045	
0,5	6	22	10	013500050	
0,55	7	24	10	013500055	
0,6	7	24	10	013500060	
0,65	8	26	10	013500065	
0,7	9	28	10	013500070	
0,75	9	28	10	013500075	
0,8	10	30	10	013500080	
0,85	10	30	10	013500085	
0,9	11	32	10	013500090	
0,95	11	32	10	013500095	
1	12	34	10	013500100	
1,1	14	36	10	013500110	
1,2	16	38	10	013500120	
1,25	16	38	10	013500125	
1,3	16	38	10	013500130	
1,4	18	40	10	013500140	
1,5	18	40	10	013500150	
1,6	20	43	10	013500160	
1,7	20	43	10	013500170	
1,75	22	46	10	013500175	
1,8	22	46	10	013500180	
1,9	22	46	10	013500190	
2	24	49	10	013500200	
2,1	24	49	10	013500210	
2,2	27	53	10	013500220	
2,25	27	53	10	013500225	
2,3	27	53	10	013500230	
2,4	30	57	10	013500240	
2,5	30	57	10	013500250	
2,6	30	57	10	013500260	
2,7	33	61	10	013500270	
2,75	33	61	10	013500275	
2,8	33	61	10	013500280	
2,9	33	61	10	013500290	
3	33	61	10	013500300	
3,1	36	65	10	013500310	
3,2	36	65	10	013500320	
3,25	36	65	10	013500325	
3,3	36	65	10	013500330	
3,4	39	70	10	013500340	
3,5	39	70	10	013500350	
3,6	39	70	10	013500360	
3,7	39	70	10	013500370	
3,75	39	70	10	013500375	
3,8	43	75	10	013500380	
3,9	43	75	10	013500390	
4	43	75	10	013500400	
4,1	43	75	10	013500410	
4,2	43	75	10	013500420	
4,25	43	75	10	013500425	
4,3	47	80	10	013500430	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
4,4	47	80	10	013500440	consultare
4,5	47	80	10	013500450	listino
4,6	47	80	10	013500460	*see price list*
4,7	47	80	10	013500470	
4,75	47	80	10	013500475	
4,8	52	86	10	013500480	
4,9	52	86	10	013500490	
5	52	86	10	013500500	
5,1	52	86	10	013500510	
5,2	52	86	10	013500520	
5,25	52	86	10	013500525	
5,3	52	86	10	013500530	
5,4	57	93	10	013500540	
5,5	57	93	10	013500550	
5,6	57	93	10	013500560	
5,7	57	93	10	013500570	
5,75	57	93	10	013500575	
5,8	57	93	10	013500580	
5,9	57	93	10	013500590	
6	57	93	10	013500600	
6,1	63	101	10	013500610	
6,2	63	101	10	013500620	
6,25	63	101	10	013500625	
6,3	63	101	10	013500630	
6,4	63	101	10	013500640	
6,5	63	101	10	013500650	
6,6	63	101	10	013500660	
6,7	63	101	10	013500670	
6,75	69	109	10	013500675	
6,8	69	109	10	013500680	
6,9	69	109	10	013500690	
7	69	109	10	013500700	
7,1	69	109	5	013500710	
7,2	69	109	5	013500720	
7,25	69	109	5	013500725	
7,3	69	109	5	013500730	
7,4	69	109	5	013500740	
7,5	69	109	5	013500750	
7,6	75	117	5	013500760	
7,7	75	117	5	013500770	
7,75	75	117	5	013500775	
7,8	75	117	5	013500780	
7,9	75	117	5	013500790	
8	75	117	5	013500800	
8,1	75	117	5	013500810	
8,2	75	117	5	013500820	
8,25	75	117	5	013500825	
8,3	75	117	5	013500830	
8,4	75	117	5	013500840	
8,5	75	117	5	013500850	
8,6	81	125	5	013500860	
8,7	81	125	5	013500870	
8,75	81	125	5	013500875	
8,8	81	125	5	013500880	
8,9	81	125	5	013500890	
9	81	125	5	013500900	
9,1	81	125	5	013500910	

R ≤ 700 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
9,2	81	125	5	**01350**0920	consultare
9,25	81	125	5	**01350**0925	listino
9,3	81	125	5	**01350**0930	*see price list*
9,4	81	125	5	**01350**0940	
9,5	81	125	5	**01350**0950	
9,6	87	133	5	**01350**0960	
9,7	87	133	5	**01350**0970	
9,75	87	133	5	**01350**0975	
9,8	87	133	5	**01350**0980	
9,9	87	133	5	**01350**0990	
10	87	133	5	**01350**1000	
10,1	87	133	5	**01350**1010	
10,2	87	133	5	**01350**1020	
10,25	87	133	5	**01350**1025	
10,3	87	133	5	**01350**1030	
10,4	87	133	5	**01350**1040	
10,5	87	133	5	**01350**1050	
10,6	87	133	5	**01350**1060	
10,7	94	142	5	**01350**1070	
10,75	94	142	5	**01350**1075	
10,8	94	142	5	**01350**1080	
10,9	94	142	5	**01350**1090	
11	94	142	5	**01350**1100	
11,1	94	142	5	**01350**1110	
11,2	94	142	5	**01350**1120	
11,25	94	142	5	**01350**1125	
11,3	94	142	5	**01350**1130	
11,4	94	142	5	**01350**1140	
11,5	94	142	5	**01350**1150	
11,6	94	142	5	**01350**1160	
11,7	94	142	5	**01350**1170	
11,75	94	142	5	**01350**1175	
11,8	94	142	5	**01350**1180	
11,9	101	151	5	**01350**1190	
12	101	151	5	**01350**1200	
12,1	101	151	5	**01350**1210	
12,2	101	151	5	**01350**1220	
12,25	101	151	5	**01350**1225	
12,3	101	151	5	**01350**1230	
12,4	101	151	5	**01350**1240	
12,5	101	151	5	**01350**1250	
12,6	101	151	5	**01350**1260	
12,7	101	151	5	**01350**1270	
12,75	101	151	5	**01350**1275	
12,8	101	151	5	**01350**1280	
12,9	101	151	5	**01350**1290	
13	101	151	5	**01350**1300	
13,1	101	151	3	**01350**1310	
13,2	101	151	3	**01350**1320	
13,25	108	160	3	**01350**1325	
13,3	108	160	3	**01350**1330	consultare
13,4	108	160	3	**01350**1340	listino
13,5	108	160	3	**01350**1350	*see price list*
13,6	108	160	3	**01350**1360	
13,7	108	160	3	**01350**1370	
13,75	108	160	3	**01350**1375	
13,8	108	160	3	**01350**1380	
13,9	108	160	3	**01350**1390	
14	108	160	3	**01350**1400	
14,1	108	160	3	**01350**1410	
14,2	114	169	3	**01350**1420	
14,25	114	169	3	**01350**1425	
14,3	114	169	3	**01350**1430	
14,4	114	169	3	**01350**1440	
14,5	114	169	3	**01350**1450	
14,6	114	169	3	**01350**1460	
14,7	114	169	3	**01350**1470	
14,75	114	169	3	**01350**1475	
14,8	114	169	3	**01350**1480	
14,9	114	169	3	**01350**1490	
15	114	169	3	**01350**1500	
15,1	120	178	3	**01350**1510	
15,2	120	178	3	**01350**1520	
15,25	120	178	3	**01350**1525	
15,3	120	178	3	**01350**1530	
15,4	120	178	3	**01350**1540	
15,5	120	178	3	**01350**1550	
15,6	120	178	3	**01350**1560	
15,7	120	178	3	**01350**1570	
15,75	120	178	3	**01350**1575	
15,8	120	178	3	**01350**1580	
15,9	120	178	3	**01350**1590	
16	120	178	3	**01350**1600	
16,25	125	184	1	**01350**1625	
16,5	125	184	1	**01350**1650	
16,75	125	184	1	**01350**1675	
17	125	184	1	**01350**1700	
17,25	130	191	1	**01350**1725	
17,5	130	191	1	**01350**1750	
17,75	130	191	1	**01350**1775	
18	130	191	1	**01350**1800	
18,25	135	198	1	**01350**1825	
18,5	135	198	1	**01350**1850	
18,75	135	198	1	**01350**1875	
19	135	198	1	**01350**1900	
19,25	140	205	1	**01350**1925	
19,5	140	205	1	**01350**1950	
19,75	140	205	1	**01350**1975	
20	140	205	1	**01350**2000	

PUNTE ELICOIDALI CILINDRICHE "BASIC" CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

EN *"BASIC" fully ground reduced shank twist drills*
FR *Forets cylindriques rectifiés "BASIC" à queue degageé*
ESP *Brocas helicoidales rectificadas "BASIC", vastago reducido*
PT *Brocas helicoidais de veio reduzida "BÁSICAS" totalmente retificados*

01352 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

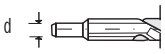
CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N
H8



HV ≃ 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

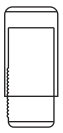


d=10 mm



< 5 d





Confezione
Packaging

H8	l	L	d			
Ø mm	mm	mm	mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**013521025**	consultare
10,5	87	133	10	5	**013521050**	listino
10,75	94	142	10	5	**013521075**	*see price list*
11	94	142	10	5	**013521100**	
11,25	94	142	10	5	**013521125**	
11,5	94	142	10	5	**013521150**	
11,75	94	142	10	5	**013521175**	
12	101	151	10	5	**013521200**	
12,25	101	151	10	5	**013521225**	
12,5	101	151	10	5	**013521250**	
12,75	101	151	10	5	**013521275**	
13	101	151	10	5	**013521300**	
13,25	108	160	10	3	**013521325**	
13,5	108	160	10	3	**013521350**	
13,75	108	160	10	3	**013521375**	
14	108	160	10	3	**013521400**	
14,25	114	169	10	3	**013521425**	
14,5	114	169	10	3	**013521450**	
14,75	114	169	10	3	**013521475**	
15	114	169	10	3	**013521500**	
15,25	120	178	10	3	**013521525**	
15,5	120	178	10	3	**013521550**	
15,75	120	178	10	3	**013521575**	
16	120	178	10	3	**013521600**	
16,5	125	184	10	1	**013521650**	
17	125	184	10	1	**013521700**	
17,5	130	191	10	1	**013521750**	
18	130	191	10	1	**013521800**	
18,5	135	198	10	1	**013521850**	
19	135	198	10	1	**013521900**	
19,5	140	205	10	1	**013521950**	
20	140	205	10	1	**013522000**	

R ≤ 700 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE "BASIC" CON CODOLO RIDOTTO INTERAMENTE RETTIFICATE, FINITURA BRILLANTE

EN *"BASIC" fully ground reduced shank twist drills*
FR *Forets cylindriques rectifiés "BASIC" à queue degageé*
ESP *Brocas helicoidales rectificadas "BASIC", vastago reducido*
PT *Brocas helicoidais de veio reduzida "BÁSICAS" totalmente retificados*

01354 — HSS-G

DIN 338 RETTIFICATA
Ground from the solid

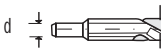
CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N
H8



HV ≃ 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

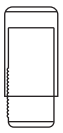


d=13 mm



< 5 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01354**1325	consultare
13,5	108	160	13	3	**01354**1350	listino
13,75	108	160	13	3	**01354**1375	*see price list*
14	108	160	13	3	**01354**1400	
14,25	114	169	13	3	**01354**1425	
14,5	114	169	13	3	**01354**1450	
14,75	114	169	13	3	**01354**1475	
15	114	169	13	3	**01354**1500	
15,25	120	178	13	3	**01354**1525	
15,5	120	178	13	3	**01354**1550	
15,75	120	178	13	3	**01354**1575	
16	120	178	13	3	**01354**1600	
16,5	125	184	13	1	**01354**1650	
17	125	184	13	1	**01354**1700	
17,5	130	191	13	1	**01354**1750	
18	130	191	13	1	**01354**1800	
18,5	135	198	13	1	**01354**1850	
19	135	198	13	1	**01354**1900	
19,5	140	205	13	1	**01354**1950	
20	140	205	13	1	**01354**2000	
20,5	145	213	13	1	**01354**2050	
21	145	213	13	1	**01354**2100	
21,5	150	221	13	1	**01354**2150	
22	150	221	13	1	**01354**2200	
22,5	150	221	13	1	**01354**2250	
23	155	229	13	1	**01354**2300	
23,5	155	229	13	1	**01354**2350	
24	160	236	13	1	**01354**2400	
24,5	160	236	13	1	**01354**2450	
25	160	236	13	1	**01354**2500	

R ≤ 700 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE “BASIC”, RETTIFICATE LUCIDE, SERIE EXTRA CORTA

EN *Straight shank twist drills, stub serie*
FR *Forets cylindriques série extra courte*
ESP *Brocas helicoidales, serie extra corta*
PT *Brocas helicoidais de veio reto série extra curta*

01356 | **HSS-G**

DIN 1897 RETTIFICATA
Ground from the solid

SERIE EXTRA CORTA
Stub serie



27° N
H8

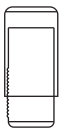


HV ≃ 750÷820
SPLIT POINT
DIN 1412C



< 3 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1,5	9	32	10	**013560**150	consultare
2	12	38	10	**013560**200	listino
2,2	13	40	10	**013560**220	*see price list*
2,25	13	40	10	**013560**225	
2,5	14	43	10	**013560**250	
2,75	16	46	10	**013560**275	
2,8	16	46	10	**013560**280	
3	16	46	10	**013560**300	
3,1	18	49	10	**013560**310	
3,2	18	49	10	**013560**320	
3,25	18	49	10	**013560**325	
3,5	20	52	10	**013560**350	
3,7	20	52	10	**013560**370	
3,75	20	52	10	**013560**375	
4	22	55	10	**013560**400	
4,1	22	55	10	**013560**410	
4,2	22	55	10	**013560**420	
4,25	22	55	10	**013560**425	
4,5	24	58	10	**013560**450	
4,75	24	58	10	**013560**475	
4,8	26	62	10	**013560**480	
5	26	62	10	**013560**500	
5,1	26	62	10	**013560**510	
5,2	26	62	10	**013560**520	
5,25	26	62	10	**013560**525	
5,5	28	66	10	**013560**550	
5,75	28	66	10	**013560**575	
6	28	66	10	**013560**600	
6,25	31	70	10	**013560**625	
6,5	31	70	10	**013560**650	
6,75	34	74	10	**013560**675	
7	34	74	10	**013560**700	
7,25	34	74	5	**013560**725	
7,5	34	74	5	**013560**750	
7,75	37	79	5	**013560**775	
8	37	79	5	**013560**800	
8,25	37	79	5	**013560**825	
8,5	37	79	5	**013560**825	
8,75	40	84	5	**013560**875	
9	40	84	5	**013560**900	
9,25	40	84	5	**013560**925	
9,5	40	84	5	**013560**950	
9,75	40	84	5	**013560**975	
10	43	89	5	**013561**000	
10,25	43	89	5	**013561**025	
10,5	43	89	5	**013561**050	
10,75	47	95	5	**013561**075	
11	47	95	5	**013561**100	
11,25	47	95	5	**013561**125	
11,5	47	95	5	**013561**150	
11,75	47	95	5	**013561**175	
12	51	102	5	**013561**200	
12,25	51	102	5	**013561**225	
12,5	51	102	5	**013561**250	
12,75	51	102	5	**013561**275	
13	51	102	5	**013561**300	

R ≤ 700 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant



PUNTE ELICOIDALI CILINDRICHE "BASIC", RETTIFICATE LUCIDE, SERIE LUNGA

EN *Long straight shank twist drills*
FR *Forets cylindriques, série longue*
ESP *Brocas helicoidales serie larga*
PT *Brocas helicoidais de veio reto longo*

01358 | **HSS-G**

DIN 340 RETTIFICATA
Ground from the solid

SERIE LUNGA
Long serie



27° N
H8

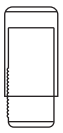


HV= 750÷820
SPLIT POINT
DIN 1412C



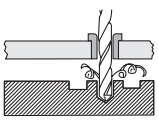
< 8 d





Confezione
Packaging

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
1	33	56	10	**013580**100	consultare
1,5	45	70	10	**013580**150	listino
1,75	53	80	10	**013580**175	*see price list*
2	56	85	10	**013580**200	
2,25	59	90	10	**013580**225	
2,5	62	95	10	**013580**250	
2,75	66	100	10	**013580**275	
3	66	100	10	**013580**300	
3,25	69	106	10	**013580**325	
3,5	73	112	10	**013580**350	
3,75	73	112	10	**013580**375	
4	78	119	10	**013580**400	
4,25	78	119	10	**013580**425	
4,5	82	126	10	**013580**450	
4,75	82	126	10	**013580**475	
5	87	132	10	**013580**500	
5,25	87	132	10	**013580**525	
5,5	91	139	10	**013580**550	
5,75	91	139	10	**013580**575	
6	91	139	10	**013580**600	
6,25	97	148	5	**013580**625	
6,5	97	148	5	**013580**650	
6,75	97	148	5	**013580**675	
7	102	156	5	**013580**700	
7,25	102	156	5	**013580**725	
7,5	102	156	5	**013580**750	
7,75	109	165	5	**013580**775	
8	109	165	5	**013580**800	
8,25	109	165	5	**013580**825	
8,5	109	165	5	**013580**850	
8,75	115	175	5	**013580**875	
9	115	175	5	**013580**900	
9,25	115	175	5	**013580**925	
9,5	115	175	5	**013580**950	
9,75	121	184	5	**013580**975	
10	121	184	5	**013581**000	
10,25	121	184	5	**013581**025	
10,5	121	184	5	**013581**050	
10,75	128	195	5	**013581**075	
11	128	195	5	**013581**100	
11,25	128	195	5	**013581**125	
11,5	128	195	5	**013581**150	
11,75	134	205	5	**013581**175	
11,8	134	205	5	**013581**180	
12	134	205	5	**013581**200	
12,25	134	205	5	**013581**225	
12,5	134	205	5	**013581**250	
12,75	134	205	5	**013581**275	
13	134	205	5	**013581**300	
13,5	140	214	3	**013581**350	
14	140	214	3	**013581**400	
14,5	144	220	3	**013581**450	
15	144	220	3	**013581**500	
15,5	149	227	3	**013581**550	
16	149	227	3	**013581**600	
16,5	154	235	1	**013581**650	
17	154	235	1	**013581**700	
17,5	158	241	1	**013581**750	
18	158	241	1	**013581**800	
18,5	162	247	1	**013581**850	
19	162	247	1	**013581**900	
19,5	166	254	1	**013581**950	
20	166	254	1	**013582**000	



R ≤ 700 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE, QUALITÀ STANDARD, FINITURA BLACK & WHITE

EN *Standard fully ground straight shank drills with black & white finish*
FR *Forets cylindriques rectifiés qualité standard, finition noir et blanc*
ESP *Brocas helicoidales rectificadas standard, acabado en blanco y negro*
PT *Brocas helicoidais de veio reto totalmente retificados com acabamento preto e branco*

01080 **HSS-G**

DIN 338 - RETTIFICATA

Ground from the solid

SERIE CORTA

Short serie



27° N



HV ≃ 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

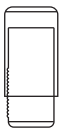


< 5 d



SELF ART. 01081
Su richiesta / *On demand*





Confezione
Packaging

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	10	**010800100**	consultare listino
1,1	14	36	10	**010800110**	*see price list*
1,2	16	38	10	**010800120**	
1,25	16	38	10	**010800125**	
1,3	16	38	10	**010800130**	
1,4	18	40	10	**010800140**	
1,5	18	40	10	**010800150**	
1,6	20	43	10	**010800160**	
1,7	20	43	10	**010800170**	
1,75	22	46	10	**010800175**	
1,8	22	46	10	**010800180**	
1,9	22	46	10	**010800190**	
2	24	49	10	**010800200**	
2,1	24	49	10	**010800210**	
2,2	27	53	10	**010800220**	
2,25	27	53	10	**010800225**	
2,3	27	53	10	**010800230**	
2,4	30	57	10	**010800240**	
2,5	30	57	10	**010800250**	
2,6	30	57	10	**010800260**	
2,7	33	61	10	**010800270**	
2,75	33	61	10	**010800275**	
2,8	33	61	10	**010800280**	
2,9	33	61	10	**010800290**	
3	33	61	10	**010800300**	
3,1	36	65	10	**010800310**	
3,2	36	65	10	**010800320**	
3,25	36	65	10	**010800325**	
3,3	36	65	10	**010800330**	
3,4	39	70	10	**010800340**	
3,5	39	70	10	**010800350**	
3,6	39	70	10	**010800360**	
3,7	39	70	10	**010800370**	
3,75	39	70	10	**010800375**	
3,8	43	75	10	**010800380**	
3,9	43	75	10	**010800390**	
4	43	75	10	**010800400**	
4,1	43	75	10	**010800410**	
4,2	43	75	10	**010800420**	
4,25	43	75	10	**010800425**	
4,3	47	80	10	**010800430**	
4,4	47	80	10	**010800440**	
4,5	47	80	10	**010800450**	
4,6	47	80	10	**010800460**	
4,7	47	80	10	**010800470**	
4,75	47	80	10	**010800475**	
4,8	52	86	10	**010800480**	
4,9	52	86	10	**010800490**	
5	52	86	10	**010800500**	
5,1	52	86	10	**010800510**	
5,2	52	86	10	**010800520**	
5,25	52	86	10	**010800525**	
5,3	52	86	10	**010800530**	
5,4	57	93	10	**010800540**	
5,5	57	93	10	**010800550**	
5,6	57	93	10	**010800560**	
5,7	57	93	10	**010800570**	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
5,75	57	93	10	**01080**0575	consultare listino
5,8	57	93	10	**01080**0580	*see price list*
5,9	57	93	10	**01080**0590	
6	57	93	10	**01080**0600	
6,1	63	101	10	**01080**0610	
6,2	63	101	10	**01080**0620	
6,25	63	101	10	**01080**0625	
6,3	63	101	10	**01080**0630	
6,4	63	101	10	**01080**0640	
6,5	63	101	10	**01080**0650	
6,6	63	101	10	**01080**0660	
6,7	63	101	10	**01080**0670	
6,75	69	109	10	**01080**0675	
6,8	69	109	10	**01080**0680	
6,9	69	109	10	**01080**0690	
7	69	109	10	**01080**0700	
7,1	69	109	5	**01080**0710	
7,2	69	109	5	**01080**0720	
7,25	69	109	5	**01080**0725	
7,3	69	109	5	**01080**0730	
7,4	69	109	5	**01080**0740	
7,5	69	109	5	**01080**0750	
7,6	75	117	5	**01080**0760	
7,7	75	117	5	**01080**0770	
7,75	75	117	5	**01080**0775	
7,8	75	117	5	**01080**0780	
7,9	75	117	5	**01080**0790	
8	75	117	5	**01080**0800	
8,1	75	117	5	**01080**0810	
8,2	75	117	5	**01080**0820	
8,25	75	117	5	**01080**0825	
8,3	75	117	5	**01080**0830	
8,4	75	117	5	**01080**0840	
8,5	75	117	5	**01080**0850	
8,6	81	125	5	**01080**0860	
8,7	81	125	5	**01080**0870	
8,75	81	125	5	**01080**0875	
8,8	81	125	5	**01080**0880	
8,9	81	125	5	**01080**0890	
9	81	125	5	**01080**0900	
9,1	81	125	5	**01080**0910	
9,2	81	125	5	**01080**0920	

H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
9,25	81	125	5	**01080**0925	consultare listino
9,3	81	125	5	**01080**0930	*see price list*
9,4	81	125	5	**01080**0940	
9,5	81	125	5	**01080**0950	
9,6	87	133	5	**01080**0960	
9,7	87	133	5	**01080**0970	
9,75	87	133	5	**01080**0975	
9,8	87	133	5	**01080**0980	
9,9	87	133	5	**01080**0990	
10	87	133	5	**01080**1000	
10,25	87	133	5	**01080**1025	
10,5	87	133	5	**01080**1050	
10,75	94	142	5	**01080**1075	
11	94	142	5	**01080**1100	
11,25	94	142	5	**01080**1125	
11,5	94	142	5	**01080**1150	
11,75	94	142	5	**01080**1175	
12	101	151	5	**01080**1200	
12,25	101	151	5	**01080**1225	
12,5	101	151	5	**01080**1250	
12,75	101	151	5	**01080**1275	
13	101	151	5	**01080**1300	
13,25	108	160	3	**01080**1325	
13,5	108	160	3	**01080**1350	
13,75	108	160	3	**01080**1375	
14	108	160	3	**01080**1400	
14,25	114	169	3	**01080**1425	
14,5	114	169	3	**01080**1450	
14,75	114	169	3	**01080**1475	
15	114	169	3	**01080**1500	
15,25	120	178	3	**01080**1525	
15,5	120	178	3	**01080**1550	
15,75	120	178	3	**01080**1575	
16	120	178	3	**01080**1600	
16,5	125	184	1	**01080**1650	
17	125	184	1	**01080**1700	
17,5	130	191	1	**01080**1750	
18	130	191	1	**01080**1800	
18,5	135	198	1	**01080**1850	
19	135	198	1	**01080**1900	
19,5	140	205	1	**01080**1950	
20	140	205	1	**01080**2000	

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE, QUALITÀ STANDARD, FINITURA BLACK & WHITE

EN *Standard fully ground reduced shank drills with black & white finish*
FR *Forets cylindriques rectifiés à queue degageé qualité standard, finition noir et blanc*
ESP *Brocas helicoidales rectificadas standard, vastago reducido, acabado en blanco y negro*
PT *Brocas helicoidais de veio reduzida totalmente retificados com acabamento preto e branco*

01082 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

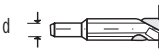
CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N



HV ≃ 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

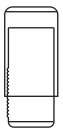


d=10 mm



< 5 d





Confezione
Packaging

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**010821**025	consultare
10,5	87	133	10	5	**010821**050	listino
10,75	94	142	10	5	**010821**075	*see price list*
11	94	142	10	5	**010821**100	
11,25	94	142	10	5	**010821**125	
11,5	94	142	10	5	**010821**150	
11,75	94	142	10	5	**010821**175	
12	101	151	10	5	**010821**200	
12,25	101	151	10	5	**010821**225	
12,5	101	151	10	5	**010821**250	
12,75	101	151	10	5	**010821**275	
13	101	151	10	5	**010821**300	
13,25	101	151	10	3	**010821**325	
13,5	108	160	10	3	**010821**350	
13,75	108	160	10	3	**010821**375	
14	108	160	10	3	**010821**400	
14,25	114	169	10	3	**010821**425	
14,5	114	169	10	3	**010821**450	
14,75	114	169	10	3	**010821**475	
15	114	169	10	3	**010821**500	
15,25	120	178	10	3	**010821**525	
15,5	120	178	10	3	**010821**550	
15,75	120	178	10	3	**010821**575	
16	120	178	10	3	**010821**600	
16,5	125	184	10	1	**010821**650	
17	125	184	10	1	**010821**700	
17,5	130	191	10	1	**010821**750	
18	130	191	10	1	**010821**800	
18,5	135	198	10	1	**010821**850	
19	135	198	10	1	**010821**900	
19,5	140	205	10	1	**010821**950	
20	140	205	10	1	**010822**000	

01084 HSS-G

DIN 338 RETTIFICATA
Ground from the solid

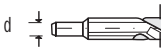
CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N



HV ≃ 750÷820
SPLIT POINT
DIN 1412C
(Ø≥3 mm)

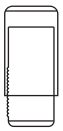


d=13 mm



< 5 d





Confezione
Packaging

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,25	101	151	13	3	**010841**325	consultare
13,5	108	160	13	3	**010841**350	listino
13,75	108	160	13	3	**010841**375	*see price list*
14	108	160	13	3	**010841**400	
14,25	114	169	13	3	**010841**425	
14,5	114	169	13	3	**010841**450	
14,75	114	169	13	3	**010841**475	
15	114	169	13	3	**010841**500	
15,25	120	178	13	3	**010841**525	
15,5	120	178	13	3	**010841**550	
15,75	120	178	13	3	**010841**575	
16	120	178	13	3	**010841**600	
16,5	125	184	13	1	**010841**650	
17	125	184	13	1	**010841**700	
17,5	130	191	13	1	**010841**750	
18	130	191	13	1	**010841**800	
18,5	135	198	13	1	**010841**850	
19	135	198	13	1	**010841**900	
19,5	140	205	13	1	**010841**950	
20	140	205	13	1	**010842**000	

PUNTE ELICOIDALI CILINDRICHE RETTIFICATE, QUALITÀ STANDARD, FINITURA BLACK & WHITE

EN *Standard fully ground straight shank drills with black & white finish*
FR *Forets cylindriques rectifiés qualité standard, finition noir et blanc*
ESP *Brocas helicoidales rectificadas standard, acabado en blanco y negro*
PT *Brocas helicoidais de veio reto totalmente retificados com acabamento preto e branco*

01087 HSS-G

DIN 1897 RETTIFICATA
Ground from the solid

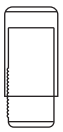
SERIE CORTA
Short serie

135° 27° N

HV= 750÷820
SPLIT POINT
DIN 1412C

< 3 d





Confezione
Packaging

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	16	46	10	**010870**300	consultare
3,25	18	49	10	**010870**325	listino
3,5	20	52	10	**010870**350	*see price list*
3,75	20	52	10	**010870**375	
4	22	55	10	**010870**400	
4,25	22	55	10	**010870**425	
4,5	24	58	10	**010870**450	
4,75	24	58	10	**010870**475	
5	26	62	10	**010870**500	
5,25	26	62	10	**010870**525	
5,5	28	66	10	**010870**550	
5,75	28	66	10	**010870**575	
6	28	66	10	**010870**600	

R ≤ 650 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

01086 HSS-G

DIN 340 RETTIFICATA
Ground from the solid

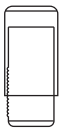
SERIE LUNGA
Long serie

135° 27° N

HV= 750÷820
SPLIT POINT
DIN 1412C

< 8 d





Confezione
Packaging

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	66	100	10	**010860**300	consultare
3,25	69	106	10	**010860**325	listino
3,5	73	112	10	**010860**350	*see price list*
3,75	73	112	10	**010860**375	
4	78	119	10	**010860**400	
4,25	78	119	10	**010860**425	
4,5	82	126	10	**010860**450	
4,75	82	126	10	**010860**475	
5	87	132	10	**010860**500	
5,25	87	132	10	**010860**525	
5,5	91	139	10	**010860**550	
5,75	91	139	10	**010860**575	
6	91	139	10	**010860**600	
6,5	97	148	5	**010860**650	
7	102	156	5	**010860**700	
7,5	102	156	5	**010860**750	
8	109	165	5	**010860**800	
8,5	109	165	5	**010860**850	
9	115	175	5	**010860**900	
9,5	115	175	5	**010860**950	
10	121	184	5	**010861**000	

R ≤ 650 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE, SERIE CORTA, ESECUZIONE RULLATA

EN *Rolled straight shank twist drills*
FR *Forets cylindriques laminés*
ESP *Brocas helicoidales laminada*
PT *Brocas helicoidais de veio reto laminadas*

01001 **HSS-R**

DIN 338 ESECUZIONE RULLATA
Rolled

SERIE CORTA
Short serie



27° N



HV= 750÷820



< 5 d



SELF ART. 01002
Su richiesta / *On demand*



Confezione
Packaging

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
0,3	3	19	10	010010030	consultare
0,35	4	19	10	010010035	listino
0,4	5	20	10	010010040	*see price list*
0,45	5	20	10	010010045	
0,5	6	22	10	010010050	
0,55	7	24	10	010010055	
0,6	7	24	10	010010060	
0,65	8	26	10	010010065	
0,7	9	28	10	010010070	
0,75	9	28	10	010010075	
0,8	10	30	10	010010080	
0,85	10	30	10	010010085	
0,9	11	32	10	010010090	
0,95	11	32	10	010010095	
1	12	34	10	010010100	
1,1	14	36	10	010010110	
1,2	16	38	10	010010120	
1,25	16	38	10	010010125	
1,3	16	38	10	010010130	
1,4	18	40	10	010010140	
1,5	18	40	10	010010150	
1,6	20	43	10	010010160	
1,7	20	43	10	010010170	
1,75	22	46	10	010010175	
1,8	22	46	10	010010180	
1,9	22	46	10	010010190	
2	24	49	10	010010200	
2,1	24	49	10	010010210	
2,2	27	53	10	010010220	
2,25	27	53	10	010010225	
2,3	27	53	10	010010230	
2,4	30	57	10	010010240	
2,5	30	57	10	010010250	
2,6	30	57	10	010010260	
2,7	33	61	10	010010270	
2,75	33	61	10	010010275	
2,8	33	61	10	010010280	
2,9	33	61	10	010010290	
3	33	61	10	010010300	
3,1	36	65	10	010010310	
3,2	36	65	10	010010320	
3,25	36	65	10	010010325	
3,3	36	65	10	010010330	
3,4	39	70	10	010010340	
3,5	39	70	10	010010350	
3,6	39	70	10	010010360	
3,7	39	70	10	010010370	
3,75	39	70	10	010010375	
3,8	43	75	10	010010380	
3,9	43	75	10	010010390	
4	43	75	10	010010400	
4,1	43	75	10	010010410	
4,2	43	75	10	010010420	
4,25	43	75	10	010010425	
4,3	47	80	10	010010430	
4,4	47	80	10	010010440	
4,5	47	80	10	010010450	
4,6	47	80	10	010010460	consultare
4,7	47	80	10	010010470	listino
4,75	47	80	10	010010475	*see price list*
4,8	52	86	10	010010480	
4,9	52	86	10	010010490	
5	52	86	10	010010500	
5,1	52	86	10	010010510	
5,2	52	86	10	010010520	
5,25	52	86	10	010010525	
5,3	52	86	10	010010530	
5,4	57	93	10	010010540	
5,5	57	93	10	010010550	
5,6	57	93	10	010010560	
5,7	57	93	10	010010570	
5,75	57	93	10	010010575	
5,8	57	93	10	010010580	
5,9	57	93	10	010010590	
6	57	93	10	010010600	
6,1	63	101	10	010010610	
6,2	63	101	10	010010620	
6,25	63	101	10	010010625	
6,3	63	101	10	010010630	
6,4	63	101	10	010010640	
6,5	63	101	10	010010650	
6,6	63	101	10	010010660	
6,7	63	101	10	010010670	
6,75	69	109	10	010010675	
6,8	69	109	10	010010680	
6,9	69	109	10	010010690	
7	69	109	10	010010700	
7,1	69	109	5	010010710	
7,2	69	109	5	010010720	
7,25	69	109	5	010010725	
7,3	69	109	5	010010730	
7,4	69	109	5	010010740	
7,5	69	109	5	010010750	
7,6	75	117	5	010010760	
7,7	75	117	5	010010770	
7,75	75	117	5	010010775	
7,8	75	117	5	010010780	
7,9	75	117	5	010010790	
8	75	117	5	010010800	
8,1	75	117	5	010010810	
8,2	75	117	5	010010820	
8,25	75	117	5	010010825	
8,3	75	117	5	010010830	
8,4	75	117	5	010010840	
8,5	75	117	5	010010850	
8,6	81	125	5	010010860	
8,7	81	125	5	010010870	
8,75	81	125	5	010010875	
8,8	81	125	5	010010880	
8,9	81	125	5	010010890	
9	81	125	5	010010900	
9,1	81	125	5	010010910	
9,2	81	125	5	010010920	
9,25	81	125	5	010010925	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
9,3	81	125	5	**01001**0930	consultare
9,4	81	125	5	**01001**0940	listino
9,5	81	125	5	**01001**0950	*see price list*
9,6	87	133	5	**01001**0960	
9,7	87	133	5	**01001**0970	
9,75	87	133	5	**01001**0975	
9,8	87	133	5	**01001**0980	
9,9	87	133	5	**01001**0990	
10	87	133	5	**01001**1000	
10,1	87	133	5	**01001**1010	
10,2	87	133	5	**01001**1020	
10,25	87	133	5	**01001**1025	
10,3	87	133	5	**01001**1030	
10,4	87	133	5	**01001**1040	
10,5	87	133	5	**01001**1050	
10,6	87	133	5	**01001**1060	
10,7	94	142	5	**01001**1070	
10,75	94	142	5	**01001**1075	
10,8	94	142	5	**01001**1080	
10,9	94	142	5	**01001**1090	
11	94	142	5	**01001**1100	
11,1	94	142	5	**01001**1110	
11,2	94	142	5	**01001**1120	
11,25	94	142	5	**01001**1125	
11,3	94	142	5	**01001**1130	
11,4	94	142	5	**01001**1140	
11,5	94	142	5	**01001**1150	
11,6	94	142	5	**01001**1160	
11,7	94	142	5	**01001**1170	
11,75	94	142	5	**01001**1175	
11,8	94	142	5	**01001**1180	
11,9	101	151	5	**01001**1190	
12	101	151	5	**01001**1200	
12,1	101	151	5	**01001**1210	
12,2	101	151	5	**01001**1220	
12,25	101	151	5	**01001**1225	
12,3	101	151	5	**01001**1230	
12,4	101	151	5	**01001**1240	
12,5	101	151	5	**01001**1250	
12,6	101	151	5	**01001**1260	
12,7	101	151	5	**01001**1270	
12,75	101	151	5	**01001**1275	

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
12,8	101	151	5	**01001**1280	consultare
12,9	101	151	5	**01001**1290	listino
13	101	151	5	**01001**1300	*see price list*
13,25	108	160	3	**01001**1325	
13,5	108	160	3	**01001**1350	
13,75	108	160	3	**01001**1375	
14	108	160	3	**01001**1400	
14,25	114	169	3	**01001**1425	
14,5	114	169	3	**01001**1450	
14,75	114	169	3	**01001**1475	
15	114	169	3	**01001**1500	
15,25	120	178	3	**01001**1525	
15,5	120	178	3	**01001**1550	
15,75	120	178	3	**01001**1575	
16	120	178	3	**01001**1600	
16,25	125	184	1	**01001**1625	
16,5	125	184	1	**01001**1650	
16,75	125	184	1	**01001**1675	
17	125	184	1	**01001**1700	
17,25	130	191	1	**01001**1725	
17,5	130	191	1	**01001**1750	
17,75	130	191	1	**01001**1775	
18	130	191	1	**01001**1800	
18,25	135	198	1	**01001**1825	
18,5	135	198	1	**01001**1850	
18,75	135	198	1	**01001**1875	
19	135	198	1	**01001**1900	
19,25	140	205	1	**01001**1925	
19,5	140	205	1	**01001**1950	
19,75	140	205	1	**01001**1975	
20	140	205	1	**01001**2000	
20,5	145	213	1	**01001**2050	
21	145	213	1	**01001**2100	
21,5	150	221	1	**01001**2150	
22	150	221	1	**01001**2200	
22,5	150	221	1	**01001**2250	
23	155	229	1	**01001**2300	
23,5	155	229	1	**01001**2350	
24	160	236	1	**01001**2400	
24,5	160	236	1	**01001**2450	
25	160	236	1	**01001**2500	

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, ESECUZIONE RULLATA

EN *Reduced shank twist drills*
FR *Forets cylindriques à queue réduite*
ESP *Brocas helicoidales con vastago reducido*
PT *Brocas helicoidais de veio reduzido*

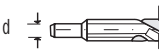
01003 **HSS-R**

DIN 338 ESECUZIONE RULLATA
Rolled

CODOLO RIDOTTO - 10 mm
Reduced shank - 10 mm



27° N



d=10 mm

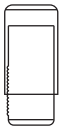


< 5 d



SELF ART. 01005
Su richiesta / *On demand*





Confezione
Packaging

Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
10,25	87	133	10	5	**010031025**	consultare
10,5	87	133	10	5	**010031050**	listino
10,75	94	142	10	5	**010031075**	*see price list*
11	94	142	10	5	**010031100**	
11,25	94	142	10	5	**010031125**	
11,5	94	142	10	5	**010031150**	
11,75	94	142	10	5	**010031175**	
12	101	151	10	5	**010031200**	
12,25	101	151	10	5	**010031225**	
12,5	101	151	10	5	**010031250**	
12,75	101	151	10	5	**010031275**	
13	101	151	10	5	**010031300**	
13,25	108	160	10	3	**010031325**	
13,5	108	160	10	3	**010031350**	
13,75	108	160	10	3	**010031375**	
14	108	160	10	3	**010031400**	
14,25	114	169	10	3	**010031425**	
14,5	114	169	10	3	**010031450**	
14,75	114	169	10	3	**010031475**	
15	114	169	10	3	**010031500**	
15,25	120	178	10	3	**010031525**	
15,5	120	178	10	3	**010031550**	
15,75	120	178	10	3	**010031575**	
16	120	178	10	3	**010031600**	
16,25	125	184	10	1	**010031625**	
16,5	125	184	10	1	**010031650**	
16,75	125	184	10	1	**010031675**	
17	125	184	10	1	**010031700**	
17,25	125	184	10	1	**010031725**	
17,5	130	191	10	1	**010031750**	
17,75	130	191	10	1	**010031775**	
18	130	191	10	1	**010031800**	
18,25	130	191	10	1	**010031825**	
18,5	135	198	10	1	**010031850**	
18,75	135	198	10	1	**010031875**	
19	135	198	10	1	**010031900**	
19,25	135	198	10	1	**010031925**	
19,5	140	205	10	1	**010031950**	
19,75	140	205	10	1	**010031975**	
20	140	205	10	1	**010032000**	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE CON CODOLO RIDOTTO, ESECUZIONE RULLATA

EN *Reduced shank twist drills*
FR *Forets cylindriques à queue réduite*
ESP *Brocas helicoidales con vastago reducido*
PT *Brocas helicoidais de veio reduzido*

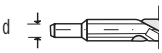
01004 **HSS-R**

DIN 338 ESECUZIONE RULLATA
Rolled

CODOLO RIDOTTO - 13 mm
Reduced shank - 13 mm



27° N



d=13 mm

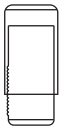


< 5 d



SELF ART. 01005
Su richiesta / *On demand*





Confezione
Packaging

Ø mm	l mm	L mm	d mm	pcs.	cod.	cad/each €
13,25	108	160	13	3	**01004**1325	consultare
13,5	108	160	13	3	**01004**1350	listino
13,75	108	160	13	3	**01004**1375	*see price list*
14	108	160	13	3	**01004**1400	
14,25	114	169	13	3	**01004**1425	
14,5	114	169	13	3	**01004**1450	
14,75	114	169	13	3	**01004**1475	
15	114	169	13	3	**01004**1500	
15,25	120	178	13	3	**01004**1525	
15,5	120	178	13	3	**01004**1550	
15,75	120	178	13	3	**01004**1575	
16	120	178	13	3	**01004**1600	
16,25	125	184	13	1	**01004**1625	
16,5	125	184	13	1	**01004**1650	
16,75	125	184	13	1	**01004**1675	
17	125	184	13	1	**01004**1700	
17,25	130	191	13	1	**01004**1725	
17,5	130	191	13	1	**01004**1750	
17,75	130	191	13	1	**01004**1775	
18	130	191	13	1	**01004**1800	
18,5	135	198	13	1	**01004**1850	
19	135	198	13	1	**01004**1900	
19,25	140	205	13	1	**01004**1925	
19,5	140	205	13	1	**01004**1950	
19,75	140	205	13	1	**01004**1975	
20	140	205	13	1	**01004**2000	
20,5	145	213	13	1	**01004**2050	
21	145	213	13	1	**01004**2100	
21,5	150	221	13	1	**01004**2150	
22	150	221	13	1	**01004**2200	
22,5	150	221	13	1	**01004**2250	
23	155	229	13	1	**01004**2300	
23,5	155	229	13	1	**01004**2350	
24	160	236	13	1	**01004**2400	
24,5	160	236	13	1	**01004**2450	
25	160	236	13	1	**01004**2500	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE SERIE EXTRA CORTA, ESECUZIONE RULLATA

EN *Straight shank twist drills-stub serie*
FR *Forets cylindriques série extra courte*
ESP *Brocas helicoidales serie extra corta*
PT *Brocas helicoidais de veio reto série extra curta*

01018 **HSS-R**

DIN 1897 ESECUZIONE RULLATA
Rolled

SERIE EXTRA CORTA
Extra short serie



27° N



HV= 750÷820

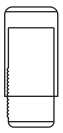


< 3 d



SELF ART. 01019
Su richiesta / *On demand*





Confezione
Packaging

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
2	12	38	10	**01018**0200	consultare listino
2,2	13	40	10	**01018**0220	*see price list*
2,25	13	40	10	**01018**0225	
2,5	14	43	10	**01018**0250	
2,75	16	46	10	**01018**0275	
2,8	16	46	10	**01018**0280	
3	16	46	10	**01018**0300	
3,2	18	49	10	**01018**0320	
3,25	18	49	10	**01018**0325	
3,3	18	49	10	**01018**0330	
3,5	20	52	10	**01018**0350	
3,75	20	52	10	**01018**0375	
3,8	22	55	10	**01018**0380	
4	22	55	10	**01018**0400	
4,2	22	55	10	**01018**0420	
4,25	22	55	10	**01018**0425	
4,5	24	58	10	**01018**0450	
4,75	24	58	10	**01018**0475	
4,8	26	62	10	**01018**0480	
5	26	62	10	**01018**0500	
5,2	26	62	10	**01018**0520	
5,25	26	62	10	**01018**0525	
5,5	28	66	10	**01018**0550	
5,75	28	66	10	**01018**0575	
5,8	28	66	10	**01018**0580	
6	28	66	10	**01018**0600	
6,5	31	70	5	**01018**0650	
7	34	74	5	**01018**0700	
7,5	34	74	5	**01018**0750	
8	37	79	5	**01018**0800	
8,5	37	79	5	**01018**0850	
9	40	84	5	**01018**0900	
9,5	40	84	5	**01018**0950	
10	43	89	5	**01018**1000	



R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CILINDRICHE SERIE LUNGA, ESECUZIONE RULLATA

EN *Straight shank twist drills, long serie*
FR *Forets cylindriques série longue*
ESP *Brocas helicoidales serie larga*
PT *Brocas helicoidais de veio reto série longa*

01020 **HSS-R**

DIN 340 ESECUZIONE RULLATA

Rolled

SERIE LUNGA
Long serie



27° N



HV= 750÷820

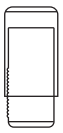


< 8 d



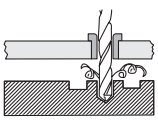
SELF ART. 01021
Su richiesta / *On demand*





Confezione
Packaging

Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1,5	45	70	10	**010200**150	consultare
1,75	53	80	10	**010200**175	listino
2	56	85	10	**010200**200	*see price list*
2,2	59	90	10	**010200**220	
2,25	59	90	10	**010200**225	
2,5	62	95	10	**010200**250	
2,75	66	100	10	**010200**275	
2,8	66	100	10	**010200**280	
3	66	100	10	**010200**300	
3,2	69	106	10	**010200**320	
3,25	69	106	10	**010200**325	
3,5	73	112	10	**010200**350	
3,75	73	112	10	**010200**375	
3,8	78	119	10	**010200**380	
4	78	119	10	**010200**400	
4,2	78	119	10	**010200**420	
4,25	78	119	10	**010200**425	
4,5	82	126	10	**010200**450	
4,75	82	126	10	**010200**475	
4,8	87	132	10	**010200**480	
5	87	132	10	**010200**500	
5,2	87	132	10	**010200**520	
5,25	87	132	10	**010200**525	
5,5	91	139	10	**010200**550	
5,75	91	139	10	**010200**575	
5,8	91	139	10	**010200**580	
6	91	139	10	**010200**600	
6,25	97	148	5	**010200**625	
6,5	97	148	5	**010200**650	
6,75	97	148	5	**010200**675	
7	102	156	5	**010200**700	
7,25	102	156	5	**010200**725	
7,5	102	156	5	**010200**750	
7,75	109	165	5	**010200**775	
8	109	165	5	**010200**800	
8,25	109	165	5	**010200**825	
8,5	109	165	5	**010200**850	
8,75	115	175	5	**010200**875	
9	115	175	5	**010200**900	
9,25	115	175	5	**010200**925	
9,5	115	175	5	**010200**950	
9,75	121	184	5	**010200**975	
10	121	184	5	**010201**000	
10,5	121	184	5	**010201**050	
11	128	195	5	**010201**100	
11,5	128	195	5	**010201**150	
12	134	205	5	**010201**200	
12,5	134	205	5	**010201**250	
13	134	205	5	**010201**300	
13,5	140	214	3	**010201**350	
14	140	214	3	**010201**400	
14,5	144	220	3	**010201**450	
15	144	220	3	**010201**500	
15,5	149	227	3	**010201**550	
16	149	227	3	**010201**600	
17	154	235	1	**010201**700	
18	158	241	1	**010201**800	
19	162	247	1	**010201**900	
20	166	254	1	**010202**000	



R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE HSS RULLATE IN POLLICI

EN *HSS roll-forged straight shank twist drills-jobber's length*
FR *Forets cylindriques laminés en HSS en Pouce*
ESP *Broca helicoidale laminada HSS en pulgadas*
PT *Brocas helicoidais de veio reto forjadas laminado hss - comprimento do operador*

01030 **HSS-R**

ANSI B94 ESECUZIONE RULLATA

Rolled

SERIE CORTA - POLLICI

Short series - Pulgadas



27° N

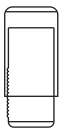


HV= 750÷820



< 5 d





Confezione
Packaging

Ø *inches*	Ø mm	*l inches*	L *inches*	pcs.	cod.	cad/each €
1/64	0,40	16/64	7/8	10	**01030**11	consultare listino
1/32	0,79	13/32	1-1/4	10	**01030**12	*see price list*
3/64	1,19	5/8	1-3/4	10	**01030**13	
1/16	1,59	7/8	1-7/8	10	**01030**14	
5/64	1,98	1	2	10	**01030**15	
3/32	2,38	1-1/4	2-1/4	10	**01030**16	
7/64	2,78	1-1/2	2-5/8	10	**01030**17	
1/8	3,17	1-5/8	2-3/4	10	**01030**18	
9/64	3,57	1-3/4	2-7/8	10	**01030**19	
5/32	3,97	2	3-1/8	10	**01030**20	
11/64	4,37	2-1/8	3-1/4	10	**01030**21	
3/16	4,76	2-5/16	3-1/2	10	**01030**22	
13/64	5,16	2-7/16	3-5/8	10	**01030**23	
7/32	5,56	2-1/2	3-3/4	10	**01030**24	
15/64	5,95	2-5/8	3-7/8	10	**01030**25	
1/4	6,35	2-3/4	4	10	**01030**26	
17/64	6,75	2-7/8	4-1/8	10	**01030**27	
9/32	7,14	2-15/16	4-1/4	5	**01030**28	
19/64	7,54	3-1/16	4-3/8	5	**01030**29	
5/16	7,94	3-3/16	4-1/2	5	**01030**30	
21/64	8,33	3-5/16	4-5/8	5	**01030**31	
11/32	8,73	3-7/16	4-3/4	5	**01030**32	
23/64	9,13	3-1/2	4-7/8	5	**01030**33	
3/8	9,52	3-5/8	5	5	**01030**34	
25/64	9,92	3-3/4	5-1/8	5	**01030**35	
13/32	10,32	3-7/8	5-1/4	5	**01030**36	
27/64	10,72	3-15/16	5-3/8	5	**01030**37	
7/16	11,11	4-1/16	5-1/2	5	**01030**38	
29/64	11,51	4-3/16	5-5/8	5	**01030**39	
15/32	11,91	4-5/16	5-3/4	5	**01030**40	
31/64	12,30	4-7/16	5-7/8	5	**01030**41	
1/2	12,70	4-1/2	6	5	**01030**42	
33/64	13,00	4-13/16	6-5/8	5	**01030**43	
17/32	13,50	4-13/16	6-5/8	3	**01030**44	
35/64	14,00	4-13/16	6-5/8	3	**01030**45	
9/16	14,30	4-13/16	6-5/8	3	**01030**46	
37/64	14,70	4-13/16	6-5/8	3	**01030**47	
19/32	15,00	5-3/16	7-1/8	3	**01030**48	
39/64	15,50	5-3/16	7-1/8	3	**01030**49	
5/8	16,00	5-3/16	7-1/8	3	**01030**50	
11/16	17,50	5-3/16	7-1/8	1	**01030**54	
3/4	19,00	5-5/16	7-3/8	1	**01030**58	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE HSS RULLATE IN POLLICI CON CODOLO RIDOTTO

EN *Reduced shank HSS roll-forged straight shank twist drills-jobber's length*
FR *Forets cylindriques laminés en HSS en pouce avec queue degageé*
ESP *Broca helicoidale laminada HSS en pulgadas con vastago reducido*
PT *Brocas helicoidais de veio reduzido hss forjadas laminado de veio reto - comprimento de trabalho*

01034 **HSS-R**

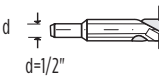
SILVER&DEMING ANSI B94 ESECUZIONE FRESATA

Milled

CODOLO RIDOTTO - POLLICI 1/2"

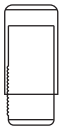
Reduced shank - Pulgadas 1/2"











Confezione
Packaging

Ø *inches*	Ø mm	*l inches*	L *inches*	d *inches*	pcs.	cod.	cad/each €
17/32	13,50	3-1/8	6	1/2	1	**0103402**	consultare
9/16	14,30	3-1/8	6	1/2	1	**0103404**	listino
19/32	15,00	3-1/8	6	1/2	1	**0103406**	*see price list*
5/8	16,00	3-1/8	6	1/2	1	**0103408**	
21/32	16,70	3-1/8	6	1/2	1	**0103410**	
11/16	17,50	3-1/8	6	1/2	1	**0103412**	
23/32	18,25	3-1/8	6	1/2	1	**0103414**	
3/4	19,00	3-1/8	6	1/2	1	**0103416**	
25/32	20,00	3-1/8	6	1/2	1	**0103418**	
13/16	20,50	3-1/8	6	1/2	1	**0103420**	
27/32	21,50	3-1/8	6	1/2	1	**0103422**	
7/8	22,25	3-1/8	6	1/2	1	**0103424**	
29/32	23,00	3-1/8	6	1/2	1	**0103426**	
15/16	24,00	3-1/8	6	1/2	1	**0103428**	
31/32	24,50	3-1/8	6	1/2	1	**0103430**	
1	25,40	3-1/8	6	1/2	1	**0103432**	
1-3/32	27,75	3-1/8	6	1/2	1	**0103438**	
1-1/8	28,50	3-1/8	6	1/2	1	**0103440**	
1-1/4	31,75	3-1/8	6	1/2	1	**0103448**	
1-3/8	35,00	3-1/8	6	1/2	1	**0103456**	
1-1/2	38,00	3-1/8	6	1/2	1	**0103464**	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE PER OTTONE E PER MATERIALI A TRUCIOLO CORTO, SERIE CORTA

EN *Fully ground twist drills for brass*
FR *Forets rectifiés pour laiton*
ESP *Brocas rectificadas para laton*
PT *Brocas helicoidais totalmente retificadas para latão*

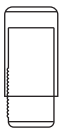
01091 | **HSS-G** | **DIN 338 RETTIFICATA**
Ground from the solid

SPECIALE PER OTTONE
Special for brass



20° H
H8

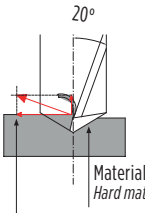




Confezione
Packaging



< 5 d



Materiale duro
Hard material

Alto sforzo di taglio
High cutting strenght

H8 Ø mm	l mm	L mm	 pcs.	cod.	cad/each €
1	12	34	10	**010910**100	consultare listino
1,5	18	40	10	**010910**150	*see price list*
2	24	49	10	**010910**200	
2,25	27	53	10	**010910**225	
2,5	30	57	10	**010910**250	
2,75	33	61	10	**010910**275	
3	33	61	10	**010910**300	
3,25	36	65	10	**010910**325	
3,5	39	70	10	**010910**350	
3,75	39	70	10	**010910**375	
4	43	75	10	**010910**400	
4,25	43	75	10	**010910**425	
4,5	47	80	10	**010910**450	
4,75	47	80	10	**010910**475	
5	52	86	10	**010910**500	
5,25	52	86	10	**010910**525	
5,5	57	93	10	**010910**550	
5,75	57	93	10	**010910**575	
6	57	93	10	**010910**600	
6,25	63	101	10	**010910**625	
6,5	63	101	10	**010910**650	
6,75	69	109	10	**010910**675	
7	69	109	10	**010910**700	
7,5	69	109	5	**010910**750	
7,75	75	117	5	**010910**775	
8	75	117	5	**010910**800	
8,25	75	117	5	**010910**825	
8,5	75	117	5	**010910**850	
8,75	81	125	5	**010910**875	
9	81	125	5	**010910**900	
9,25	81	125	5	**010910**925	
9,5	81	125	5	**010910**950	
9,75	87	133	5	**010910**975	
10	87	133	5	**010911**000	
10,5	87	133	5	**010911**050	
11	94	142	5	**010911**100	
11,5	94	142	5	**010911**150	
12	101	151	5	**010911**200	
12,5	101	151	5	**010911**250	
13	101	151	5	**010911**300	

In esaurimento
Running out

R ≤ 650 N/mm²

Ottone
Brass

Truciolo corto
Short chip

Emulsione
Lubrificant

PUNTE PER ALLUMINIO E PER MATERIALI A TRUCIOLO LUNGO, SERIE CORTA

EN *Fully ground twist drills for light alloys*
FR *Forets rectifiés pour aluminium et alliage léger*
ESP *Brocas rectificadas para aluminio y aleaciones ligeras*
PT *Brocas helicoidais totalmente retificadas para ligas leves*

01092 **HSS-G**

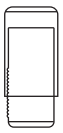
DIN 338 RETTIFICATA
Ground from the solid

SPECIALE PER ALLUMINIO
Special for alluminium



35° W
H8

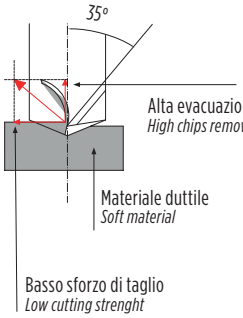




Confezione
Packaging



< 5 d



H8 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
1	12	34	10	**01092**0100	consultare listino
1,5	18	40	10	**01092**0150	*see price list*
2	24	49	10	**01092**0200	
2,25	27	53	10	**01092**0225	
2,5	30	57	10	**01092**0250	
2,75	33	61	10	**01092**0275	
3	33	61	10	**01092**0300	
3,2	36	65	10	**01092**0320	
3,25	36	65	10	**01092**0325	
3,5	39	70	10	**01092**0350	
3,75	39	70	10	**01092**0375	
4	43	75	10	**01092**0400	
4,2	43	75	10	**01092**0420	
4,25	43	75	10	**01092**0425	
4,5	47	80	10	**01092**0450	
4,75	47	80	10	**01092**0475	
5	52	86	10	**01092**0500	
5,2	52	86	10	**01092**0520	
5,25	52	86	10	**01092**0525	
5,5	57	93	10	**01092**0550	
5,75	57	93	10	**01092**0575	
6	57	93	10	**01092**0600	
6,25	63	101	10	**01092**0625	
6,5	63	101	10	**01092**0650	
6,75	69	109	10	**01092**0675	
7	69	109	10	**01092**0700	
7,25	69	109	5	**01092**0725	
7,5	69	109	5	**01092**0750	
7,75	75	117	5	**01092**0775	
8	75	117	5	**01092**0800	
8,25	75	117	5	**01092**0825	
8,5	75	117	5	**01092**0850	
8,75	81	125	5	**01092**0875	
9	81	125	5	**01092**0900	
9,25	81	125	5	**01092**0925	
9,5	81	125	5	**01092**0950	
9,75	87	133	5	**01092**0975	
10	87	133	5	**01092**1000	
10,5	87	133	5	**01092**1050	
11	94	142	5	**01092**1100	
11,5	94	142	5	**01092**1150	
12	101	151	5	**01092**1200	
12,5	101	151	5	**01092**1250	
13	101	151	5	**01092**1300	

R ≤ 650 N/mm²



Alluminio
Aluminum



Truciolo lungo
Long chip

VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER METALLO, SERIE CORTA DIN 338

EN *Overview: DIN 338 short serie twist drills assortments*
FR *Aperçu: Surtido de brocas helicoidales DIN 338 serie corta*
ESP *Visión general: Brocas para metal con vástago cilíndrico y hexagonal de 1/4"*
PT *Visão geral: DIN 338 série curta brocas helicoidais sortidas*

				N° PCS.	**6** *(7 for inches)*		**10**		**13**		**13**	
				GAMMA / *RANGE* Ø	2÷8 *(1/16" ÷ 1/4")*		1÷10		2÷8 *(1/16" ÷ 1/4")*		1,5÷6,5	
				PASSO / *PITCH* (mm)	1		1		0,5 *(1/64")*		0,5 + PREFORI	
				MATERIALE / *MATERIAL*	SLIM							
MATERIALE *Material*	**RIVESTIMENTO** *Coating*	**CODICE PUNTA** *Code*	**IMMAGINE** *Image*									
					cod.	**€***	**cod.**	**€***	**cod.**	**€***	**cod.**	**€***
CO8% AISI M42	-	**01120**			**01135**204		**01135**201		**01135**205		**01135**203	
HSS-E PM	TiAlN	**01295**			**01299**204							
CO5% AISI M35	-	**01140**										
	-	**01139**										
	-	**01145**			**01155**204		**01155**201		**01155**205		**01155**203	
	-	**01157** Pulgadas			**01159**201				**01159**202			
HSS-G AISI M2	TiN	**01320**										
	TiN	**01160**			**01170**204		**01170**201		**01170**205		**01170**203	
	TiN	**01162** Pulgadas			**01167**201				**01167**202			
	TiN	**01321**										
	TiN	**01322** Pulgadas										
	-	**01220**					**01229**201		**01229**205			
	-	**01401**			**01402**204		**01402**201		**01402**205			
	-	**01406**										
	-	**01407** Pulgadas										
	-	**01201**			**01205**204		**01205**201		**01205**205		**01205**203	
	-	**01060**			**01068**204		**01068**201		**01068**205		**01068**202	
	-	**01090** SX			**01068**209				**01068**207			
	-	**01070**			**01075**204		**01075**201		**01075**205		**01075**203	
		01115 Pulgadas			**01118**201				**01118**202			
		01066					**01068**211		**01068**215			
HSS-G	-	**01350**					**01360**201		**01360**205			
	-	**01080**					**01085**201		**01085**205			
HSS-R		**01001**			**01016**204		**01016**201 (HSS) **09010**231 (9 pcs HSS+W)		**01016**205		**01016**203	
		01030 Pulgadas							**01040**202			

19		19		5		10 - 12		19 *(21 for inches)*		25 *(29 for inches)*	
1÷10		1÷10						1÷10 *(1/16" ÷ 3/8")*		1÷13 *(1/16" ÷ 1/2")*	
0,5		0,5						0,5 *(1/64")*		0,5 *(1/64")*	
SLIM		SELETTORE		FIVE PACK		BLISTER		ABS			
											
cod.	**€***	**cod.**	**€***	**cod.**	**€***	**cod.**	**€***	**cod.**	**€***	**cod.**	**€***
								01135301		**01135**302	
								01299301		**01299**302	
								01142401		**01142**402	
								01155303		**01155**304	
								01155301		**01155**302	
								01159401		**01159**402	
								01170311		**01170**312	
								01170301		**01170**302	
								01167401		**01167**402	
				01170020 *(2 ÷ 6 mm)*		**01170**010 *(2 ÷ 10 mm)*					
				01167020 *(3/32" ÷ 1/4")*		**01167**010 *(1/16" ÷ 3/8")*					
								01229301		**01229**302	
								01402301		**01402**302	
				01408020 *(3 ÷ 8 mm)*		**01405**010 *(3 ÷ 10 mm)*					
				01408021 *(1/8" ÷ 5/16")*		**01408**010 *(1/8" ÷ 5/16")*					
								01205301		**01205**302	
								01068301		**01068**302	
								01068307		**01068**308	
								01075301		**01075**302	
								01118401		**01118**402	
								01068311		**01068**312	
01016206		**01016**101 HSS **09001**102 HSS+W **09005**105 MIX									
								01040401		**01040**402	

VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER METALLO, SERIE CORTA DIN 338

EN *Overview: DIN 338 short serie twist drills assortments*
FR *Aperçu: Surtido de brocas helicoidales DIN 338 serie corta*
ESP *Visión general: Brocas para metal con vástago cilíndrico y hexagonal de 1/4"*
PT *Visão geral: DIN 338 série curta brocas helicoidais sortidas*

				N° PCS.	**19**		**25**		**37**		**49**	
				GAMMA / *RANGE* Ø	1÷10		1÷13		1÷10		1÷13	
				PASSO / *PITCH* (mm)	0,5		0,5		0,25		0,25	
				MATERIALE / *MATERIAL*	METAL							
MATERIALE *Material*	**RIVESTIMENTO** *Coating*	**CODICE PUNTA** *Code*	**IMMAGINE** *Image*		**cod.**	**€***	**cod.**	**€***	**cod.**	**€***	**cod.**	**€***
CO8% AISI M42	-	**01120**							**01135**411		**01135**412	
HSS-E PM	TiAlN	**01295**							**01299**411			
CO5% AISI M35	-	**01140**										
	-	**01139**										
	-	**01145**							**01155**411		**01155**412	
	-	**01157** Pulgadas										
HSS-G AISI M2	TiN	**01320**										
	TiN	**01160**							**01170**411		**01170**412	
	TiN	**01162** Pulgadas										
	TiN	**01321**										
	TiN	**01322** Pulgadas										
	-	**01220**							**01229**411		**01229**412	
	-	**01401**										
	-	**01406**										
	-	**01407** Pulgadas										
	-	**01201**							**01205**411		**01205**412	
	-	**01060**			**01068**401		**01068**402		**01068**411		**01068**412	
	-	**01090** SX										
	-	**01070**			**01075**401		**01075**402		**01075**411		**01075**412	
		01115 Pulgadas										
		01066							**01068**413		**01068**414	
HSS-G	-	**01350**			**01360**401		**01360**402		**01360**411		**01360**412	
	-	**01080**			**01085**401		**01085**402		**01085**411		**01085**412	
HSS-R		**01001**			**01016**401		**01016**402		**01016**411		**01016**412	
		01030 Pulgadas										

51	41	116+	128+
1÷6	6÷10	1÷10	1÷13
0,1	0,1	0,5	0,5
METAL			
			
cod. €*	**cod.** €*	**cod.** €*	**cod.** €*
01135403	**01135**404	**01135**450 (116 pcs)	**01135**451 (148 pcs)
		01299450	**01299**451
		01142450 (116 pcs)	
		01155454 (116 pcs)	
01155403	**01155**404	**01155**450 (116 pcs)	**01155**451 (148 pcs)
		01170452 (116 pcs)	
01170407	**01170**408	**01170**450 (116 pcs)	**01170**451 (148 pcs)
		01229450 (116 pcs)	**01229**451 (148 pcs)
		01402450 (116 pcs)	**01402**451 (148 pcs)
01205404	**01205**405	**01205**450 (150 pcs)	**01205**451 (188 pcs)
01068404	**01068**405	**01068**450 (150 pcs)	**01068**451 (188 pcs)
01075407	**01075**408	**01075**450 (150 pcs)	**01075**451 (188 pcs)
01068422	**01068**423	**01068**460 (150pcs)	
01360407	**01360**408	**01360**450 (150 pcs)	**01360**451 (188 pcs)
01085407	**01085**408	**01085**450 (150 pcs)	**01085**451 (188 pcs)
01016407	**01016**408	**01016**450 (150 pcs)	**01016**451 (188 pcs)



MONOLIT®

SCOPRILO NELLE PROSSIME PAGINE
Find out in the following pages

COMPOSIZIONE ASSORTIMENTI IN VALIGETTA ED ESPOSITORI DA BANCO

EN *Composition of metal cases and displays*
FR *Composition des coffrets et présentoirs en métal*
ESP *Composición de cajas y expositores metálicos*
PT *Composição de caixas e expositores metálicos*

VALIGETTA IN METALLO

METAL CASE

1 ÷ 10 x 0,5 mm



Misure: 330x240x55 mm
Measures: 330x240x55 mm

codice famiglia *Family code*	01120	01295	01140	01145	01220	01401	01320	01160	01201	01060	01070	01066	01350	01080	01001
COD ART.	**01135450**	**01299450**	**01142450**	**01155450**	**01229450**	**01402450**	**01170452**	**01170450**	**01205450**	**01068450**	**01075450**	**01068460**	**01360450**	**01085450**	**01016450**
Ø	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**
1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1,5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2,5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10	10	20	20	20	20	20	20	20
3,5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
4,5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5,5	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
6	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
6,5	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
7	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
7,5	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
8	3	3	3	3	3	3	3	3	5	5	5	5	5	5	5
8,5	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
9	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
9,5	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
10	2	2	2	2	2	2	2	2	5	5	5	5	5	5	5
tot. pcs.	**116**	**116**	**116**	**116**	**116**	**116**	**116**	**116**	**150**	**150**	**150**	**150**	**150**	**150**	**150**

VALIGETTA IN METALLO
METAL CASE

1 ÷ 13 x 0,5 mm



Misure: 550 x 310 x 55 mm
Measures: 550 x 310 x 55 mm

codice famiglia *Family code*	01120	01295	01145	01220	01401	01160	01201	01060	01070	01350	01080	01001
COD ART.	**01135451**	**01299451**	**01155451**	**01229451**	**01402451**	**01170451**	**01205451**	**01068451**	**01075451**	**01360451**	**01085451**	**01016451**
Ø	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**	**pcs.**
1	10	10	10	10	10	10	10	10	10	10	10	10
1,5	10	10	10	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10	10	10	10
2,5	10	10	10	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	20	20	20	20	20	20
***3,3**	10	10	10	10	10	10	10	10	10	10	10	10
3,5	10	10	10	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10	10	10	10
***4,2**	10	10	10	10	10	10	10	10	10	10	10	10
4,5	10	10	10	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10	10	10	10
5,5	3	3	3	3	3	3	5	5	5	5	5	5
6	3	3	3	3	3	3	5	5	5	5	5	5
6,5	3	3	3	3	3	3	5	5	5	5	5	5
7	3	3	3	3	3	3	5	5	5	5	5	5
7,5	3	3	3	3	3	3	5	5	5	5	5	5
8	3	3	3	3	3	3	5	5	5	5	5	5
8,5	2	2	2	2	2	2	5	5	5	5	5	5
9	2	2	2	2	2	2	5	5	5	5	5	5
9,5	2	2	2	2	2	2	5	5	5	5	5	5
10	2	2	2	2	2	2	5	5	5	5	5	5
10,5	2	2	2	2	2	2	3	3	3	3	3	3
11	2	2	2	2	2	2	3	3	3	3	3	3
11,5	2	2	2	2	2	2	3	3	3	3	3	3
12	2	2	2	2	2	2	3	3	3	3	3	3
12,5	2	2	2	2	2	2	3	3	3	3	3	3
13	2	2	2	2	2	2	3	3	3	3	3	3
tot. pcs.	**148**	**148**	**148**	**148**	**148**	**148**	**188**	**188**	**188**	**188**	**188**	**188**

* Per la Fam. 01220 le punte saranno 4,25 anziche 4,2. Per la Fam. 01401 le punte saranno 3,20 anziche 3,3.
** For the family 01220 drill sizes 4,25 will be supplied instead of 4,2. For the family 01401 the drill sizes 3,20 will be supplied instead of 3,3.*

MONOLIT®

LA SOLUZIONE ESCLUSIVA PER ORGANIZZARE IL TUO PUNTO VENDITA

Monolit® è il nuovo espositore per punte interamente **pensato, disegnato e realizzato da Krino**, in cui **ordine ed efficienza** incontrano il design perfetto.
Vassoi estraibili, divisori modulari, portaprezzo ben visibili e ganci laterali ottimizzano ogni dettaglio dell'esposizione.

Con **Monolit**®, la tua gamma Krino non passa inosservata: ogni punta è valorizzata al massimo, per **un'esperienza d'acquisto chiara, intuitiva e irresistibile.**

EN THE OUTSTANDING SOLUTION FOR SETTING UP YOUR STORE

Monolit® is the new drill bits display entirely conceived, designed and manufactured by Krino, in which order and efficiency meet perfect design. Pull-out trays, modular dividers, clearly visible price holders and side hooks optimize every detail of the display. With Monolit®, your Krino range doesn't go unnoticed: each drill bit is maximized for a clear, intuitive and irresistible shopping experience.

FR LA SOLUTION EXCLUSIVE POUR ORGANISER VOTRE MAGASIN

*Monolit® est le nouveau présentoir à comptoir pour forets entièrement conçu et fabriqué par Krino, où ordre et efficacité rencontrent un design parfait.
Plateaux amovibles, séparateurs modulaires, porte-prix clairement visibles et crochets latéraux optimisent chaque détail de l'affichage. Avec Monolit®, votre gamme Krino ne passera pas inaperçue : chaque foret est valorisé au maximum pour une expérience d'achat claire, intuitive et convaincante.*

ESP LA SOLUCIÓN COMPLETA PARA ORGANIZAR TU PUNTO DE VENTA

*Monolit®, es el nuevo expositor para accesorios, diseñado y fabricado por Krino, donde el orden y la eficiencia se combinan con un diseño impecable. Sus bandejas extraíbles, espaciadores modulares, portaprecios visibles y ganchos laterales optimizan cada detalle en la exhibición.
Con MONOLIT®, tu gama de productos Krino no pasará desapercibida: cada producto se presenta de forma destacada, ofreciendo una experiencia de compra clara, intuitiva e irresistible.*

PT A SOLUÇÃO EXCELENTE PARA MONTAR SUA LOJA

Monolit® é o novo expositor para brocas inteiramente concebido, projetado e fabricado pela Krino, no qual a organização e a eficiência se unem a um design perfeito. Bandejas extraíveis, divisórias modulares, porta-preços bem visíveis e ganchos laterais otimizam cada detalhe do expositor. Com o Monolit®, sua linha Krino não passa despercebida: cada broca é destacada para proporcionar uma experiência de compra clara, intuitiva e irresistível.



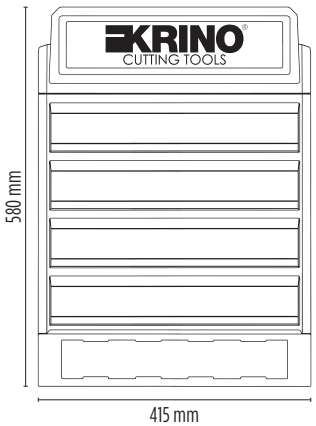
DIVISORI MODULARI
modular dividers

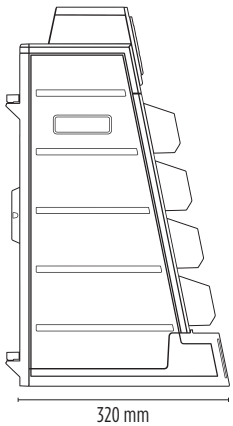
VASSOI ESTRAIBILI
Pull-out trays

PORTAPREZZO CHIARI
CLEAR price holders

GANCI LATERALI
side hooks

FRONTALINO ESTRAIBILE CON DIDATTICA
Extractable front panel with didactics





CARATTERISTICHE TECNICHE

DIMENSIONI: 415x320x580 mm
MATERIALE: materiale plastico resistente agli urti

4 cassetti estraibili
28 divisori
64 portaprezzo
6 ganci laterali in acciaio
2 frontalini estraibili
Sticker precompilati misure punte
Sticker da personalizzare per prezzi
Scatola in cartone dedicata

TECHNICAL FEATURES

DIMENSIONS: 415x320x580 mm
MATERIAL: impact-resistant plastic material

4 pull-out drawers
28 dividers
64 price holders
6 steel side hooks
2 pull-out faceplates
Pre-filled drill sizes stickers
Stickers to customize for prices
Dedicated cardboard box



COMPOSIZIONE ASSORTIMENTI IN VALIGETTA ED ESPOSITORI DA BANCO

EN *Composition of metal cases and displays*
FR *Composition des coffrets et présentoirs en métal*
ESP *Composición de cajas y expositores metálicos*
PT *Composição de caixas e expositores metálicos*

ALLESTIMENTO SINGOLO

Single configuration

1-13 x 0,5 mm
+ 2 DIAMETRI SPECIFICI PER PREFORI
1-13 x 0,5 mm
+ 2 dedicated pilot hole diameters

Scegli una singola famiglia di punte tra quelle disponibili e riempi tutti e 4 i ripiani.

Scegli una singola famiglia di punte tra quelle disponibili e riempi tutti e 4 i ripiani.





CODICE FAMIGLIA *Family code*	01120	01145	01220	01401	01160	01201	01060	01070	01350
CODICE ESPOSITORE *Display Code*	01135600	01155600	01229600	01402600	01170600	01205600	01068600	01075600	01360600
€*									
TOTALE PCS.	210	210	210	350	210	210	350	350	500
diametro	pezzi per composizione								
1	10	10	10	20	10	10	20	20	20
1,50	10	10	10	20	10	10	20	20	20
2	10	10	10	20	10	10	20	20	50
2,50	10	10	10	20	10	10	20	20	50
3	10	10	10	30	10	10	30	30	50
3,25*	10	10	10	20	10	10	20	20	20
3,50	10	10	10	20	10	10	20	20	50
4	10	10	10	30	10	10	30	30	50
4,25*	10	10	10	20	10	10	20	20	20
4,50	10	10	10	20	10	10	20	20	20
5	10	10	10	20	10	10	20	20	20
5,50	10	10	10	20	10	10	20	20	20
6	10	10	10	10	10	10	10	10	20
6,50	10	10	10	10	10	10	10	10	10
7	10	10	10	10	10	10	10	10	10
7,50	5	5	5	5	5	5	5	5	5
8	5	5	5	5	5	5	5	5	10
8,50	5	5	5	5	5	5	5	5	5
9	5	5	5	5	5	5	5	5	5
9,50	5	5	5	5	5	5	5	5	5
10	5	5	5	5	5	5	5	5	10
10,50	5	5	5	5	5	5	5	5	5
11	5	5	5	5	5	5	5	5	5
11,50	5	5	5	5	5	5	5	5	5
12	5	5	5	5	5	5	5	5	5
12,50	5	5	5	5	5	5	5	5	5
13	5	5	5	5	5	5	5	5	5

* Le punte 3,25 e 4,25 sono utili a realizzare i prefori per maschiature M4 e M5. Per la famiglia STEP+ le punte saranno 3,2 e 4,2 anziché 3,25 e 4,25.
** Drill sizes 3.25 and 4.25 are intended for pilot holes for M4 and M5 tapping operations. For the STEP+ range, drill sizes 3.2 and 4.2 will be supplied instead of 3.25 and 4.25.*

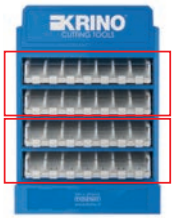
ALLESTIMENTO DOPPIO

Double configuration

2-7 x 0,5 + 8 + 10 mm
+ 1 DIAMETRO SPECIFICO PER PREFORI
1-13 x 0,5 mm
+ 2 dedicated pilot hole diameters

Scegli due famiglie di punte tra quelle disponibili, ogni famiglia occuperà 2 ripiani.

Scegli una singola famiglia di punte tra quelle disponibili e riempi tutti e 4 i ripiani.



CODICE FAMIGLIA *Family code*	01120	01145	01220	01401	01160	01201	01060	01070	01350
CODICE ESPOSITORE *Display Code*	0113560001	0115560001	0122960001	0140260001	0117060001	0120560001	0106860001	0107560001	0136060001
€*									
TOTALE PCS.	130	130	130	200	130	130	200	200	290
diametro	pezzi per composizione								
2	10	10	10	10	10	10	10	10	20
2,50	10	10	10	20	10	10	20	20	20
3	10	10	10	20	10	10	20	20	30
3,50	10	10	10	20	10	10	20	20	20
4	10	10	10	20	10	10	20	20	30
4,25*	10	10	10	10	10	10	10	10	20
4,50	10	10	10	20	10	10	20	20	20
5	10	10	10	20	10	10	20	20	30
5,50	10	10	10	10	10	10	10	10	20
6	10	10	10	20	10	10	20	20	20
6,50	10	10	10	10	10	10	10	10	20
7	10	10	10	10	10	10	10	10	20
8	5	5	5	5	5	5	5	5	10
10	5	5	5	5	5	5	5	5	10

* La punta 4,25 è utile a realizzare i prefori per maschiature M4. Per la famiglia STEP+ 4,2 anziché 4,25.
** Drill sizes 4.25 are intended for pilot holes for M4 tapping operations. For the STEP+ range, drill sizes 4.2 will be supplied instead 4.25.*


KRINO®



PUNTE GAMBO RINFORZATO E ATTACCO CONICO MORSE

Reinforced shank twist drills and Morse taper shank

Forets hélicoïdaux à queue renforcée et à queue conique morse

Brocas helicoidales de vastago reforzado y vastago cónico Morse

Brocas helicoidais de veio reforçado e veio cónico morse

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAlN CON GAMBO RINFORZATO, SERIE CORTA DIN 6537K

EN *TiAlN coated tungsten carbide drill bits with reinforced shank, short serie DIN 6537K*
FR *Forets en carbure, série courte DIN 6537K, avec TiAlN*
ESP *Broca de metal duro, serie corta DIN 6537K con TiAlN*
PT *Brocas de carboneto de tungsténio revestidas de tialn com veio reforçado, série curta din 6537K*

01368 | **VHM** | **TiAlN**

DIN 6537K METALLO DURO
Carbide

SERIE CORTA
Short serie



27° N
M7

VHM+TiAlN
Senza fori
Without holes



< 3 d





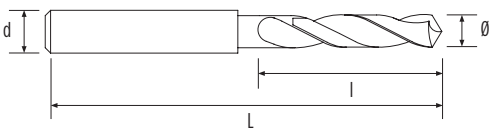
Confezione
Packaging

M7 Ø mm	H6 d mm	l mm	L mm	pcs.	cod.	cad each €
3	6	20	62	1	**013680**300	consultare
3,1	6	20	62	1	**013680**310	listino
3,2	6	20	62	1	**013680**320	*see price list*
3,3	6	20	62	1	**013680**330	
3,4	6	20	62	1	**013680**340	
3,5	6	20	62	1	**013680**350	
3,6	6	20	62	1	**013680**360	
3,7	6	20	62	1	**013680**370	
3,8	6	24	66	1	**013680**380	
3,9	6	24	66	1	**013680**390	
4	6	24	66	1	**013680**400	
4,1	6	24	66	1	**013680**410	
4,2	6	24	66	1	**013680**420	
4,3	6	24	66	1	**013680**430	
4,4	6	24	66	1	**013680**440	
4,5	6	24	66	1	**013680**450	
4,6	6	24	66	1	**013680**460	
4,7	6	28	66	1	**013680**470	
4,8	6	28	66	1	**013680**480	
4,9	6	28	66	1	**013680**490	
5	6	28	66	1	**013680**500	
5,1	6	28	66	1	**013680**510	
5,2	6	28	66	1	**013680**520	
5,3	6	28	66	1	**013680**530	
5,4	6	28	66	1	**013680**540	
5,5	6	28	66	1	**013680**550	
5,6	6	28	66	1	**013680**560	
5,7	6	28	66	1	**013680**570	
5,8	6	28	66	1	**013680**580	
5,9	6	28	66	1	**013680**590	
6	6	28	66	1	**013680**600	
6,1	8	34	79	1	**013680**610	
6,2	8	34	79	1	**013680**620	
6,3	8	34	79	1	**013680**630	
6,4	8	34	79	1	**013680**640	
6,5	8	34	79	1	**013680**650	
6,6	8	34	79	1	**013680**660	
6,7	8	34	79	1	**013680**670	
6,8	8	34	79	1	**013680**680	
6,9	8	34	79	1	**013680**690	
7	8	34	79	1	**013680**700	
7,1	8	41	79	1	**013680**710	

M7 Ø mm	H6 d mm	l mm	L mm	pcs.	cod.	cad each €
7,2	8	41	79	1	**013680**720	consultare
7,3	8	41	79	1	**013680**730	listino
7,4	8	41	79	1	**013680**740	*see price list*
7,5	8	41	79	1	**013680**750	
7,6	8	41	79	1	**013680**760	
7,7	8	41	79	1	**013680**770	
7,8	8	41	79	1	**013680**780	
7,9	8	41	79	1	**013680**790	
8	8	41	79	1	**013680**800	
8,1	10	47	89	1	**013680**810	
8,2	10	47	89	1	**013680**820	
8,3	10	47	89	1	**013680**830	
8,4	10	47	89	1	**013680**840	
8,5	10	47	89	1	**013680**850	
8,6	10	47	89	1	**013680**860	
8,7	10	47	89	1	**013680**870	
8,8	10	47	89	1	**013680**880	
8,9	10	47	89	1	**013680**890	
9	10	47	89	1	**013680**900	
9,1	10	47	89	1	**013680**910	
9,2	10	47	89	1	**013680**920	
9,3	10	47	89	1	**013680**930	
9,4	10	47	89	1	**013680**940	
9,5	10	47	89	1	**013680**950	
9,6	10	47	89	1	**013680**960	
9,7	10	47	89	1	**013680**970	
9,8	10	47	89	1	**013680**980	
10	10	47	89	1	**013681**000	
10,2	12	55	102	1	**013681**020	
10,5	12	55	102	1	**013681**050	
11	12	55	102	1	**013681**100	
11,5	12	55	102	1	**013681**150	
12	12	55	102	1	**013681**200	
12,5	14	60	107	1	**013681**250	
13	14	60	107	1	**013681**300	
13,5	14	60	107	1	**013681**350	
14	14	60	107	1	**013681**400	
14,5	16	65	115	1	**013681**450	
15	16	65	115	1	**013681**500	
15,5	16	65	115	1	**013681**550	
16	16	65	115	1	**013681**600	

Acciai induriti, acciai per lavorazioni a caldo, acciai legati fino a 1200 N/mm², acciai dolci, bronzo, ghisa, leghe Al-Si.

Structural and case hardened steels, cast steels, heat treatable steels, alloyed steels up to 1200 N/mm², carbon steels, bronze, cast iron, high alloyed Al-Si alloys.



PROFONDITÀ DI FORATURA 3 Ø
Cutting depth 3 Ø

R ≤ 1200 N/mm²



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Titanio e superleghe
titanium and nickel-based super alloys

PUNTE IN METALLO DURO INTEGRALE RIVESTITE TiAlN CON GAMBO RINFORZATO, SERIE LUNGA DIN 6537L

EN *TiAlN coated tungsten carbide drill bits with reinforced shank, long serie DIN 6537L*
FR *Forets en carbure, série longue DIN 6537L, avec TiAlN*
ESP *Broca de metal duro, serie larga DIN 6537L con TiAlN*
PT *Brocas de carboneto de tungsténio revestidas de tialn com veio reforçado, série LONGA din 6537L*

01369 | **VHM** | **TiAlN**

DIN 6537L METALLO DURO
Carbide

SERIE LUNGA
Long serie



27° N
M7

VHM+TiAlN
Senza fori
Without holes



< 5 d

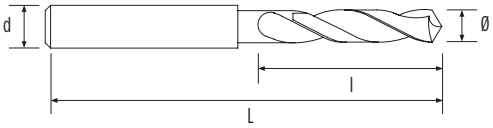




Confezione
Packaging

M7 Ø mm	H6 d mm	l mm	L mm	pcs.	cod.	cad each €
3	6	28	66	1	**013690**300	consultare
3,1	6	28	66	1	**013690**310	listino
3,2	6	28	66	1	**013690**320	*see price list*
3,3	6	28	66	1	**013690**330	
3,4	6	28	66	1	**013690**340	
3,5	6	28	66	1	**013690**350	
3,6	6	28	66	1	**013690**360	
3,7	6	28	66	1	**013690**370	
3,8	6	36	74	1	**013690**380	
3,9	6	36	74	1	**013690**390	
4	6	36	74	1	**013690**400	
4,1	6	36	74	1	**013690**410	
4,2	6	36	74	1	**013690**420	
4,3	6	36	74	1	**013690**430	
4,4	6	36	74	1	**013690**440	
4,5	6	36	74	1	**013690**450	
4,6	6	36	74	1	**013690**460	
4,7	6	44	82	1	**013690**470	
4,8	6	44	82	1	**013690**480	
4,9	6	44	82	1	**013690**490	
5	6	44	82	1	**013690**500	
5,1	6	44	82	1	**013690**510	
5,2	6	44	82	1	**013690**520	
5,3	6	44	82	1	**013690**530	
5,4	6	44	82	1	**013690**540	
5,5	6	44	82	1	**013690**550	
5,6	6	44	82	1	**013690**560	
5,7	6	44	82	1	**013690**570	
5,8	6	44	82	1	**013690**580	
5,9	6	44	82	1	**013690**590	
6	6	44	82	1	**013690**600	
6,1	8	53	91	1	**013690**610	
6,2	8	53	91	1	**013690**620	
6,3	8	53	91	1	**013690**630	
6,4	8	53	91	1	**013690**640	
6,5	8	53	91	1	**013690**650	
6,6	8	53	91	1	**013690**660	
6,7	8	53	91	1	**013690**670	
6,8	8	53	91	1	**013690**680	
6,9	8	53	91	1	**013690**690	
7	8	53	91	1	**013690**700	
7,1	8	53	91	1	**013690**710	

M7 Ø mm	H6 d mm	l mm	L mm	pcs.	cod.	cad each €
7,2	8	53	91	1	**013690**720	consultare
7,3	8	53	91	1	**013690**730	listino
7,4	8	53	91	1	**013690**740	*see price list*
7,5	8	53	91	1	**013690**750	
7,6	8	53	91	1	**013690**760	
7,7	8	53	91	1	**013690**770	
7,8	8	53	91	1	**013690**780	
7,9	8	53	91	1	**013690**790	
8	8	53	91	1	**013690**800	
8,1	10	61	103	1	**013690**810	
8,2	10	61	103	1	**013690**820	
8,3	10	61	103	1	**013690**830	
8,4	10	61	103	1	**013690**840	
8,5	10	61	103	1	**013690**850	
8,6	10	61	103	1	**013690**860	
8,7	10	61	103	1	**013690**870	
8,8	10	61	103	1	**013690**880	
8,9	10	61	103	1	**013690**890	
9	10	61	103	1	**013690**900	
9,1	10	61	103	1	**013690**910	
9,2	10	61	103	1	**013690**920	
9,3	10	61	103	1	**013690**930	
9,4	10	61	103	1	**013690**940	
9,5	10	61	103	1	**013690**950	
9,6	10	61	103	1	**013690**960	
9,7	10	61	103	1	**013690**970	
9,8	10	61	103	1	**013690**980	
10	10	61	103	1	**013691**000	
10,2	12	71	118	1	**013691**020	
10,5	12	71	118	1	**013691**050	
11	12	71	118	1	**013691**100	
11,5	12	71	118	1	**013691**150	
12	12	71	118	1	**013691**200	
12,5	14	77	124	1	**013691**250	
13	14	77	124	1	**013691**300	
13,5	14	77	124	1	**013691**350	
14	14	77	124	1	**013691**400	
14,5	16	83	133	1	**013691**450	
15	16	83	133	1	**013691**500	
15,5	16	83	133	1	**013691**550	
16	16	83	133	1	**013691**600	



PROFONDITÀ DI FORATURA 5 Ø
Cutting depth 5 Ø

R ≤ 1200 N/mm²



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Titanio e superleghe
titanium and nickel-based super alloys

PUNTE ELICOIDALI AL COBALTO 5% CODOLO CONICO MORSE

EN *Cobalt 5% Morse taper shank twist drills*
FR *Forets à queue conique morse au cobalt 5%*
ESP *Brocas helicoidales de cobalto 5% con vastago conico*
PT *Brocas helicoidais com veio cónico morse em cobalto 5%*

01150 **HSS-CO 5%**

DIN 345 FRESATA
Milled

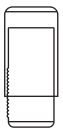
SERIE CORTA
Short serie

135° 27° N
H8

HV ≃ 800÷860
AISI M35
DIN 1412 C







Confezione
Packaging

H8		l	L			
Ø mm	**M.K.**	**mm**	**mm**	**pcs.**	**cod.**	**cad/each €**
7	1	69	150	1	**01150**0700	consultare listino
7,5	1	69	150	1	**01150**0750	*see price list*
8	1	75	156	1	**01150**0800	
8,5	1	75	156	1	**01150**0850	
9	1	81	162	1	**01150**0900	
9,25	1	81	162	1	**01150**0925	
9,5	1	81	162	1	**01150**0950	
10	1	87	168	1	**01150**1000	
10,25	1	87	168	1	**01150**1025	
10,5	1	87	168	1	**01150**1050	
10,75	1	94	175	1	**01150**1075	
10,80	1	94	175	1	**01150**1080	
11	1	94	175	1	**01150**1100	
11,25	1	94	175	1	**01150**1125	
11,5	1	94	175	1	**01150**1150	
11,75	1	94	175	1	**01150**1175	
12	1	101	182	1	**01150**1200	
12,25	1	101	182	1	**01150**1225	
12,5	1	101	182	1	**01150**1250	
12,75	1	101	182	1	**01150**1275	
13	1	101	182	1	**01150**1300	
13,25	1	108	189	1	**01150**1325	
13,5	1	108	189	1	**01150**1350	
13,75	1	108	189	1	**01150**1375	
14	1	108	189	1	**01150**1400	
14,25	2	114	212	1	**01150**1425	
14,5	2	114	212	1	**01150**1450	
14,75	2	114	212	1	**01150**1475	
15	2	114	212	1	**01150**1500	
15,25	2	120	218	1	**01150**1525	
15,5	2	120	218	1	**01150**1550	
15,75	2	120	218	1	**01150**1575	
16	2	120	218	1	**01150**1600	
16,25	2	125	223	1	**01150**1625	
16,5	2	125	223	1	**01150**1650	
16,75	2	125	223	1	**01150**1675	
17	2	125	223	1	**01150**1700	
17,25	2	130	228	1	**01150**1725	
17,5	2	130	228	1	**01150**1750	
17,75	2	130	228	1	**01150**1775	
18	2	130	228	1	**01150**1800	
18,25	2	135	233	1	**01150**1825	
18,5	2	135	233	1	**01150**1850	
18,75	2	135	233	1	**01150**1875	
19	2	135	233	1	**01150**1900	
19,25	2	140	238	1	**01150**1925	
19,5	2	140	238	1	**01150**1950	
19,75	2	140	238	1	**01150**1975	
20	2	140	238	1	**01150**2000	
20,25	2	145	243	1	**01150**2025	
20,5	2	145	243	1	**01150**2050	
20,75	2	145	243	1	**01150**2075	
21	2	145	243	1	**01150**2100	
21,25	2	150	248	1	**01150**2125	
21,5	2	150	248	1	**01150**2150	
21,75	2	150	248	1	**01150**2175	
22	2	150	248	1	**01150**2200	

R ≤ 1200 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
22,25	2	155	248	1	**01150**2225	consultare listino
22,5	2	155	253	1	**01150**2250	*see price list*
22,75	2	155	253	1	**01150**2275	
23	2	155	253	1	**01150**2300	
23,25	3	155	276	1	**01150**2325	
23,5	3	155	276	1	**01150**2350	
23,75	3	160	281	1	**01150**2375	
24	3	160	281	1	**01150**2400	
24,25	3	160	281	1	**01150**2425	
24,5	3	160	281	1	**01150**2450	
24,75	3	160	281	1	**01150**2475	
25	3	160	281	1	**01150**2500	
25,25	3	165	286	1	**01150**2525	
25,5	3	165	286	1	**01150**2550	
25,75	3	165	286	1	**01150**2575	
26	3	165	286	1	**01150**2600	
26,25	3	165	286	1	**01150**2625	
26,5	3	165	286	1	**01150**2650	
26,75	3	170	291	1	**01150**2675	
27	3	170	291	1	**01150**2700	
27,25	3	170	291	1	**01150**2725	
27,5	3	170	291	1	**01150**2750	
27,75	3	170	291	1	**01150**2775	
28	3	170	291	1	**01150**2800	
28,25	3	175	296	1	**01150**2825	
28,5	3	175	296	1	**01150**2850	
28,75	3	175	296	1	**01150**2875	
29	3	175	296	1	**01150**2900	
29,25	3	175	296	1	**01150**2925	
29,5	3	175	296	1	**01150**2950	
29,75	3	175	296	1	**01150**2975	
30	3	175	296	1	**01150**3000	
30,25	3	180	301	1	**01150**3025	
30,5	3	180	301	1	**01150**3050	
30,75	3	180	301	1	**01150**3075	
31	3	180	301	1	**01150**3100	
31,25	3	180	301	1	**01150**3125	
31,5	3	180	301	1	**01150**3150	
31,75	3	185	306	1	**01150**3175	
32	4	185	334	1	**01150**3200	
32,25	4	185	334	1	**01150**3225	
32,5	4	185	334	1	**01150**3250	
32,75	4	185	334	1	**01150**3275	
33	4	185	334	1	**01150**3300	
33,25	4	185	334	1	**01150**3325	
33,5	4	185	334	1	**01150**3350	
33,75	4	185	334	1	**01150**3375	
34	4	190	339	1	**01150**3400	
34,25	4	190	339	1	**01150**3425	
34,5	4	190	339	1	**01150**3450	
34,75	4	190	339	1	**01150**3475	
35	4	190	339	1	**01150**3500	
35,25	4	190	339	1	**01150**3525	
35,5	4	190	339	1	**01150**3550	
35,75	4	190	339	1	**01150**3575	
36	4	195	344	1	**01150**3600	

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
36,25	4	195	344	1	**01150**3625	consultare listino
36,5	4	195	344	1	**01150**3650	*see price list*
36,75	4	195	344	1	**01150**3675	
37	4	195	344	1	**01150**3700	
37,25	4	195	344	1	**01150**3725	
37,5	4	195	344	1	**01150**3750	
37,75	4	195	344	1	**01150**3775	
38	4	200	349	1	**01150**3800	
38,25	4	200	349	1	**01150**3825	
38,5	4	200	349	1	**01150**3850	
38,75	4	200	349	1	**01150**3875	
39	4	200	349	1	**01150**3900	
39,25	4	200	349	1	**01150**3925	
39,5	4	200	349	1	**01150**3950	
39,75	4	200	349	1	**01150**3975	
40	4	200	349	1	**01150**4000	
40,5	4	205	354	1	**01150**4050	
41	4	205	354	1	**01150**4100	
41,5	4	205	354	1	**01150**4150	
42	4	205	354	1	**01150**4200	
42,5	4	205	354	1	**01150**4250	
43	4	210	359	1	**01150**4300	
43,5	4	210	359	1	**01150**4350	
44	4	210	359	1	**01150**4400	
44,5	4	210	359	1	**01150**4450	
45	4	210	359	1	**01150**4500	
45,5	4	215	364	1	**01150**4550	
46	4	215	364	1	**01150**4600	
46,5	4	215	364	1	**01150**4650	
47	4	215	364	1	**01150**4700	
47,5	4	215	364	1	**01150**4750	
48	4	220	369	1	**01150**4800	
48,5	4	220	369	1	**01150**4850	
49	4	220	369	1	**01150**4900	
49,5	4	220	369	1	**01150**4950	
***50**	4	220	369	1	**01150**5000	
***50,5**	4	225	374	1	**01150**5050	
***51**	4	225	412	1	**01150**5100	
***51,5**	5	225	412	1	**01150**5150	
***52**	5	225	412	1	**01150**5200	
***52,5**	5	225	412	1	**01150**5250	
***53**	5	225	412	1	**01150**5300	
***53,5**	5	230	417	1	**01150**5350	
***54**	5	230	417	1	**01150**5400	
***54,5**	5	230	417	1	**01150**5450	
***55**	5	230	417	1	**01150**5500	
***55,5**	5	230	417	1	**01150**5550	
***56**	5	230	417	1	**01150**5600	
***56,5**	5	235	422	1	**01150**5650	
***57**	5	235	422	1	**01150**5700	
***57,5**	5	235	422	1	**01150**5750	
***58**	5	235	422	1	**01150**5800	
***58,5**	5	235	422	1	**01150**5850	
***59**	5	235	422	1	**01150**5900	
***59,5**	5	235	422	1	**01150**5950	
***60**	5	235	422	1	**01150**6000	

*In esaurimento
**Running out*

PUNTE ELICOIDALI CODOLO CONICO MORSE, ESECUZIONE FRESATA

EN *Morse taper shank twist drills*
FR *Forets à queue conique morse*
ESP *Brocas helicoidales con vastago conico*
PT *Brocas helicoidais com veio cónico morse*

01097 | **HSS**

DIN 345 FRESATA
Milled

SERIE CORTA
Short serie



27° N
H8



HV = 820



< 5 d



Confezione
Packaging

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
5	1	52	133	1	**010970**500	consultare
5,5	1	57	138	1	**010970**550	listino
6	1	57	138	1	**010970**600	*see price list*
6,25	1	63	144	1	**010970**625	
6,5	1	63	144	1	**010970**650	
6,75	1	69	150	1	**010970**675	
7	1	69	150	1	**010970**700	
7,25	1	69	150	1	**010970**725	
7,5	1	69	150	1	**010970**750	
7,75	1	75	156	1	**010970**775	
8	1	75	156	1	**010970**800	
8,25	1	75	156	1	**010970**825	
8,5	1	75	156	1	**010970**850	
8,75	1	81	162	1	**010970**875	
9	1	81	162	1	**010970**900	
9,25	1	81	162	1	**010970**925	
9,5	1	81	162	1	**010970**950	
9,75	1	87	168	1	**010970**975	
10	1	87	168	1	**010971**000	
10,25	1	87	168	1	**010971**025	
10,5	1	87	168	1	**010971**050	
10,75	1	94	175	1	**010971**075	
11	1	94	175	1	**010971**100	
11,25	1	94	175	1	**010971**125	
11,5	1	94	175	1	**010971**150	
11,75	1	94	175	1	**010971**175	
12	1	101	182	1	**010971**200	
12,25	1	101	182	1	**010971**225	
12,5	1	101	182	1	**010971**250	
12,75	1	101	182	1	**010971**275	
13	1	101	182	1	**010971**300	
13,25	1	108	189	1	**010971**325	
13,5	1	108	189	1	**010971**350	
13,75	1	108	189	1	**010971**375	
14	1	108	189	1	**010971**400	
14,25	2	114	212	1	**010971**425	
14,5	2	114	212	1	**010971**450	
14,5	2	192	212	1	**010971**450C192	
14,75	2	114	212	1	**010971**475	
15	2	114	212	1	**010971**500	
15,25	2	120	218	1	**010971**525	
15,5	2	120	218	1	**010971**550	
15,75	2	120	218	1	**010971**575	
16	2	120	218	1	**010971**600	
16,25	2	125	223	1	**010971**625	
16,5	2	125	223	1	**010971**650	
16,75	2	125	223	1	**010971**675	
17	2	125	223	1	**010971**700	
17,25	2	130	228	1	**010971**725	
17,5	2	130	228	1	**010971**750	
17,75	2	130	228	1	**010971**775	
18	2	130	228	1	**010971**800	
18,25	2	135	233	1	**010971**825	
18,5	2	135	233	1	**010971**850	
18,75	2	135	233	1	**010971**875	
19	2	135	233	1	**010971**900	
19,25	2	140	238	1	**010971**925	

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
19,5	2	140	238	1	**010971**950	consultare
19,75	2	140	238	1	**010971**975	listino
20	2	140	238	1	**010972**000	*see price list*
20,25	2	145	243	1	**010972**025	
20,5	2	145	243	1	**010972**050	
20,75	2	145	243	1	**010972**075	
21	2	145	243	1	**010972**100	
21,25	2	150	248	1	**010972**125	
21,5	2	150	248	1	**010972**150	
21,75	2	150	248	1	**010972**175	
22	2	150	248	1	**010972**200	
22,25	2	155	248	1	**010972**225	
22,5	2	155	253	1	**010972**250	
22,75	2	155	253	1	**010972**275	
23	2	155	253	1	**010972**300	
23,25	3	155	276	1	**010972**325	
23,5	3	155	276	1	**010972**350	
23,75	3	160	281	1	**010972**375	
24	3	160	281	1	**010972**400	
24,25	3	160	281	1	**010972**425	
24,5	3	160	281	1	**010972**450	
24,75	3	160	281	1	**010972**475	
25	3	160	281	1	**010972**500	
25,25	3	165	286	1	**010972**525	
25,5	3	165	286	1	**010972**550	
25,75	3	165	286	1	**010972**575	
26	3	165	286	1	**010972**600	
26,25	3	165	286	1	**010972**625	
26,5	3	165	286	1	**010972**650	
26,75	3	170	291	1	**010972**675	
27	3	170	291	1	**010972**700	
27,25	3	170	291	1	**010972**725	
27,5	3	170	291	1	**010972**750	
27,75	3	170	291	1	**010972**775	
28	3	170	291	1	**010972**800	
28,25	3	175	296	1	**010972**825	
28,5	3	175	296	1	**010972**850	
28,75	3	175	296	1	**010972**875	
29	3	175	296	1	**010972**900	
29,25	3	175	296	1	**010972**925	
29,5	3	175	296	1	**010972**950	
29,75	3	175	296	1	**010972**975	
30	3	175	296	1	**010973**000	
30,25	3	180	301	1	**010973**025	
30,5	3	180	301	1	**010973**050	
30,75	3	180	301	1	**010973**075	
31	3	180	301	1	**010973**100	
31,25	3	180	301	1	**010973**125	
31,5	3	180	301	1	**010973**150	
31,75	3	185	306	1	**010973**175	
32	4	185	334	1	**010973**200	
32,25	4	185	334	1	**010973**225	
32,5	4	185	334	1	**010973**250	
32,75	4	185	334	1	**010973**275	
33	4	185	334	1	**010973**300	
33,25	4	185	334	1	**010973**325	
33,5	4	185	334	1	**010973**350	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
33,75	4	185	334	1	**010973375**	consultare
34	4	190	339	1	**010973400**	listino
34,25	4	190	339	1	**010973425**	*see price list*
34,5	4	190	339	1	**010973450**	
34,75	4	190	339	1	**010973475**	
35	4	190	339	1	**010973500**	
35,25	4	190	339	1	**010973525**	
35,5	4	190	339	1	**010973550**	
35,75	4	190	339	1	**010973575**	
36	4	195	344	1	**010973600**	
36,25	4	195	344	1	**010973625**	
36,5	4	195	344	1	**010973650**	
36,75	4	195	344	1	**010973675**	
37	4	195	344	1	**010973700**	
37,25	4	195	344	1	**010973725**	
37,5	4	195	344	1	**010973750**	
37,75	4	195	344	1	**010973775**	
38	4	200	349	1	**010973800**	
38,25	4	200	349	1	**010973825**	
38,5	4	200	349	1	**010973850**	
38,75	4	200	349	1	**010973875**	
39	4	200	349	1	**010973900**	
39,25	4	200	349	1	**010973925**	
39,5	4	200	349	1	**010973950**	
39,75	4	200	349	1	**010973975**	
40	4	200	349	1	**010974000**	
40,5	4	205	354	1	**010974050**	
41	4	205	354	1	**010974100**	
41,5	4	205	354	1	**010974150**	
42	4	205	354	1	**010974200**	
42,5	4	205	354	1	**010974250**	
43	4	210	359	1	**010974300**	
43,5	4	210	359	1	**010974350**	
44	4	210	359	1	**010974400**	
44,5	4	210	359	1	**010974450**	
45	4	210	359	1	**010974500**	
45,5	4	215	364	1	**010974550**	
46	4	215	364	1	**010974600**	
46,5	4	215	364	1	**010974650**	
47	4	215	364	1	**010974700**	
47,5	4	215	364	1	**010974750**	
48	4	220	369	1	**010974800**	
48,5	4	220	369	1	**010974850**	
49	4	220	369	1	**010974900**	
49,5	4	220	369	1	**010974950**	
50	4	220	369	1	**010975000**	
50,5	4	225	374	1	**010975050**	
51	5	225	412	1	**010975100**	
51,5	5	225	412	1	**010975150**	
52	5	225	412	1	**010975200**	
52,5	5	225	412	1	**010975250**	
53	5	225	412	1	**010975300**	
53,5	5	230	417	1	**010975350**	
54	5	230	417	1	**010975400**	

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
54,5	5	230	417	1	**010975450**	consultare
55	5	230	417	1	**010975500**	listino
55,5	5	230	417	1	**010975550**	*see price list*
56	5	230	417	1	**010975600**	
56,5	5	235	422	1	**010975650**	
57	5	235	422	1	**010975700**	
57,5	5	235	422	1	**010975750**	
58	5	235	422	1	**010975800**	
58,5	5	235	422	1	**010975850**	
59	5	235	422	1	**010975900**	
59,5	5	235	422	1	**010975950**	
60	5	235	422	1	**010976000**	
61	5	240	427	1	**010976100**	
62	5	240	427	1	**010976200**	
63	5	240	427	1	**010976300**	
64	5	245	432	1	**010976400**	
65	5	245	432	1	**010976500**	
66	5	245	432	1	**010976600**	
67	5	245	432	1	**010976700**	
68	5	250	437	1	**010976800**	
69	5	250	437	1	**010976900**	
70	5	250	437	1	**010977000**	
71	5	250	437	1	**010977100**	
72	5	255	442	1	**010977200**	
73	5	255	442	1	**010977300**	
74	5	255	442	1	**010977400**	
75	5	255	442	1	**010977500**	
76	5	260	447	1	**010977600**	
77	6	260	514	1	**010977700**	
78	6	260	514	1	**010977800**	
79	6	260	514	1	**010977900**	
80	6	260	514	1	**010978000**	
81	6	265	519	1	**010978100**	
82	6	265	519	1	**010978200**	
83	6	265	519	1	**010978300**	
84	6	265	519	1	**010978400**	
85	6	265	519	1	**010978500**	
86	6	270	524	1	**010978600**	
87	6	270	524	1	**010978700**	
88	6	270	524	1	**010978800**	
89	6	270	524	1	**010978900**	
90	6	270	524	1	**010979000**	
91	6	275	529	1	**010979100**	
92	6	275	529	1	**010979200**	
93	6	275	529	1	**010979300**	
94	6	275	529	1	**010979400**	
95	6	275	529	1	**010979500**	
96	6	280	534	1	**010979600**	
97	6	280	534	1	**010979700**	
98	6	280	534	1	**010979800**	
99	6	280	534	1	**010979900**	
100	6	280	534	1	**0109710000**	

PUNTE ELICOIDALI CODOLO CONICO MORSE, SERIE LUNGA, ESECUZIONE FRESATA

EN *Morse taper shank twist drills, long serie*
FR *Forets à queue conique morse, série longue*
ESP *Brocas helicoidales con vastago conico, serie larga*
PT *Brocas helicoidais de veio cónico morse, série longa*

01028 | **HSS** | **DIN 341 FRESATA** *Milled* | **SERIE LUNGA** *Long serie*



27° N
H8

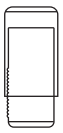


HV ≈ 820



< 8 d





Confezione
Packaging

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
8	1	100	181	1	**010280800**	consultare listino
8,5	1	100	181	1	**010280850**	*see price list*
9	1	107	188	1	**010280900**	
9,5	1	107	188	1	**010280950**	
10	1	116	197	1	**010281000**	
10,25	1	116	197	1	**010281025**	
10,5	1	116	197	1	**010281050**	
11	1	125	206	1	**010281100**	
12	1	134	215	1	**010281200**	
12,25	1	134	215	1	**010281225**	
12,5	1	134	215	1	**010281250**	
13	1	134	215	1	**010281300**	
13,25	1	142	223	1	**010281325**	
13,5	1	142	223	1	**010281350**	
14,5	2	147	245	1	**010281450**	
15	2	147	245	1	**010281500**	
15,5	2	153	251	1	**010281550**	
16	2	153	251	1	**010281600**	
16,5	2	159	257	1	**010281650**	
17	2	159	257	1	**010281700**	
17,5	2	165	263	1	**010281750**	
18	2	165	263	1	**010281800**	
18,5	2	171	269	1	**010281850**	
19	2	171	269	1	**010281900**	
19,5	2	177	275	1	**010281950**	
20	2	177	275	1	**010282000**	
20,5	2	184	282	1	**010282050**	
21	2	184	282	1	**010282100**	
21,5	2	191	289	1	**010282150**	
22	2	191	289	1	**010282200**	
22,5	2	198	296	1	**010282250**	
23	2	198	296	1	**010282300**	
23,5	3	198	319	1	**010282350**	
24	3	206	327	1	**010282400**	
24,5	3	206	327	1	**010282450**	
25	3	206	327	1	**010282500**	
25,5	3	214	335	1	**010282550**	
26	3	214	335	1	**010282600**	
26,5	3	214	335	1	**010282650**	
27	3	222	343	1	**010282700**	
27,5	3	222	343	1	**010282750**	
28	3	222	343	1	**010282800**	
28,5	3	230	351	1	**010282850**	
29	3	230	351	1	**010282900**	
29,5	3	230	351	1	**010282950**	
30	3	230	351	1	**010283000**	
31	3	239	360	1	**010283100**	
32	4	248	397	1	**010283200**	
34	4	257	406	1	**010283400**	
35	4	257	406	1	**010283500**	
36	4	267	416	1	**010283600**	
36,5	4	267	416	1	**010283650**	
37	4	267	416	1	**010283700**	
38	4	277	426	1	**010283800**	
39	4	277	426	1	**010283900**	
40	4	277	426	1	**010284000**	
41	4	287	436	1	**010284100**	
42	4	287	436	1	**010284200**	
43	4	298	447	1	**010284300**	
44	4	298	447	1	**010284400**	
46	4	310	459	1	**010284600**	
47	4	310	459	1	**010284700**	
49	4	321	470	1	**010284900**	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

PUNTE ELICOIDALI CODOLO CONICO MORSE, SERIE EXTRA LUNGA, ESECUZIONE FRESATA

EN *Morse taper shank twist drills, extra long serie*
FR *Forets à queue conique morse, série extra longue*
ESP *Brocas helicoidales con vastago conico, serie extra larga*
PT *Brocas helicoidais de veio cónico morse, série extra longa*

01088 | **HSS** | **DIN 1870/1 FRESATA** *Milled* | **SERIE EXTRA LUNGA** *Extra long serie*



27° N
H8



HV = 820



< 10 d



Confezione
Packaging

H8 Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
8	1	165	265	1	**010880800**	consultare listino
8,5	1	165	265	1	**010880850**	*see price list*
9	1	175	275	1	**010880900**	
9,5	1	175	275	1	**010880950**	
10	1	185	285	1	**010881000**	
10,5	1	185	285	1	**010881050**	
11,5	1	195	300	1	**010881150**	
12	1	205	310	1	**010881200**	
12,5	1	205	310	1	**010881250**	
13	1	205	310	1	**010881300**	
14	1	220	325	1	**010881400**	
15	2	220	340	1	**010881500**	
15,5	2	230	355	1	**010881550**	
16	2	230	355	1	**010881600**	
16,5	2	230	355	1	**010881650**	
17	2	230	355	1	**010881700**	
17,5	2	245	370	1	**010881750**	
18	2	245	370	1	**010881800**	
18,5	2	245	370	1	**010881850**	
19	2	245	370	1	**010881900**	
19,5	2	260	385	1	**010881950**	
20	2	260	385	1	**010882000**	
21	2	260	385	1	**010882100**	
21,5	2	270	405	1	**010882150**	
22	2	270	405	1	**010882200**	
22,5	2	270	405	1	**010882250**	
23	2	270	405	1	**010882300**	
23,5	3	270	425	1	**010882350**	
24,5	3	290	440	1	**010882450**	
25,5	3	290	440	1	**010882550**	
26	3	290	440	1	**010882600**	
26,5	3	290	440	1	**010882650**	
27	3	305	460	1	**010882700**	
27,5	3	305	460	1	**010882750**	
28	3	305	460	1	**010882800**	
28,5	3	305	460	1	**010882850**	
29	3	305	460	1	**010882900**	
29,5	3	305	460	1	**010882950**	
30	3	305	460	1	**010883000**	
33	4	320	505	1	**010883300**	
34	4	340	530	1	**010883400**	
35	4	340	530	1	**010883500**	
36	4	340	530	1	**010883600**	
37	4	340	530	1	**010883700**	
38	4	360	555	1	**010883800**	
39	4	360	555	1	**010883900**	
42	4	360	555	1	**010884200**	
44	4	385	585	1	**010884400**	
46	4	385	585	1	**010884600**	
47	4	385	585	1	**010884700**	
48	4	405	605	1	**010884800**	

R ≤ 800 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

In esaurimento
Running out



PUNTE ELICOIDALI CODOLO CONICO MORSE, ESECUZIONE RULLATA

EN *Morse taper shank twist drills*
FR *Forets à queue conique morse*
ESP *Brocas helicoidales con vastago conico*
PT *Brocas helicoidais com veio cónico morse*

01025 **HSS-R**

DIN 345 ESECUZIONE RULLATA
Rolled

SERIE CORTA
Short serie



27° N
H8

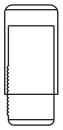


HV ≃ 750÷820



< 5 d





Confezione
Packaging

Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
5	1	52	133	1	**010250500**	consultare
6	1	57	138	1	**010250600**	listino
6,25	1	63	144	1	**010250625**	*see price list*
6,5	1	63	144	1	**010250650**	
6,75	1	69	150	1	**010250675**	
7	1	69	150	1	**010250700**	
7,25	1	69	150	1	**010250725**	
7,5	1	69	150	1	**010250750**	
7,75	1	75	156	1	**010250775**	
8	1	75	156	1	**010250800**	
8,25	1	75	156	1	**010250825**	
8,5	1	75	156	1	**010250850**	
8,75	1	81	162	1	**010250875**	
9	1	81	162	1	**010250900**	
9,25	1	81	162	1	**010250925**	
9,5	1	81	162	1	**010250950**	
9,75	1	87	168	1	**010250975**	
10	1	87	168	1	**010251000**	
10,25	1	87	168	1	**010251025**	
10,5	1	87	168	1	**010251050**	
10,75	1	94	175	1	**010251075**	
11	1	94	175	1	**010251100**	
11,25	1	94	175	1	**010251125**	
11,5	1	94	175	1	**010251150**	
11,75	1	94	175	1	**010251175**	
12	1	101	182	1	**010251200**	
12,25	1	101	182	1	**010251225**	
12,5	1	101	182	1	**010251250**	
12,75	1	101	182	1	**010251275**	
13	1	101	182	1	**010251300**	
13,25	1	108	189	1	**010251325**	
13,5	1	108	189	1	**010251350**	
13,75	1	108	189	1	**010251375**	
14	1	108	189	1	**010251400**	
14,25	2	114	212	1	**010251425**	
14,5	2	114	212	1	**010251450**	
14,75	2	114	212	1	**010251475**	
15	2	114	212	1	**010251500**	
15,25	2	120	218	1	**010251525**	
15,5	2	120	218	1	**010251550**	
15,75	2	120	218	1	**010251575**	
16	2	120	218	1	**010251600**	
16,25	2	125	223	1	**010251625**	
16,5	2	125	223	1	**010251650**	
16,75	2	125	223	1	**010251675**	
17	2	125	223	1	**010251700**	
17,25	2	130	228	1	**010251725**	
17,5	2	130	228	1	**010251750**	
17,75	2	130	228	1	**010251775**	
18	2	130	228	1	**010251800**	
18,25	2	135	233	1	**010251825**	
18,5	2	135	233	1	**010251850**	
18,75	2	135	233	1	**010251875**	
19	2	135	233	1	**010251900**	
19,25	2	140	238	1	**010251925**	
19,5	2	140	238	1	**010251950**	
19,75	2	140	238	1	**010251975**	

Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
20	2	140	238	1	**010252000**	consultare
20,25	2	145	243	1	**010252025**	listino
20,5	2	145	243	1	**010252050**	*see price list*
20,75	2	145	243	1	**010252075**	
21	2	145	243	1	**010252100**	
21,25	2	150	248	1	**010252125**	
21,5	2	150	248	1	**010252150**	
21,75	2	150	248	1	**010252175**	
22	2	150	248	1	**010252200**	
22,25	2	150	248	1	**010252225**	
22,5	2	155	253	1	**010252250**	
22,75	2	155	253	1	**010252275**	
23	2	155	253	1	**010252300**	
23,25	3	155	276	1	**010252325**	
23,5	3	155	276	1	**010252350**	
23,75	3	160	281	1	**010252375**	
24	3	160	281	1	**010252400**	
24,25	3	160	281	1	**010252425**	
24,5	3	160	281	1	**010252450**	
24,75	3	160	281	1	**010252475**	
25	3	160	281	1	**010252500**	
25,25	3	165	286	1	**010252525**	
25,5	3	165	286	1	**010252550**	
25,75	3	165	286	1	**010252575**	
26	3	165	286	1	**010252600**	
26,25	3	165	286	1	**010252625**	
26,5	3	165	286	1	**010252650**	
26,75	3	170	291	1	**010252675**	
27	3	170	291	1	**010252700**	
27,25	3	170	291	1	**010252725**	
27,5	3	170	291	1	**010252750**	
27,75	3	170	291	1	**010252775**	
28	3	170	291	1	**010252800**	
28,25	3	175	296	1	**010252825**	
28,5	3	175	296	1	**010252850**	
28,75	3	175	296	1	**010252875**	
29	3	175	296	1	**010252900**	
29,25	3	175	296	1	**010252925**	
29,5	3	175	296	1	**010252950**	
29,75	3	175	296	1	**010252975**	
30	3	175	296	1	**010253000**	
30,25	3	180	301	1	**010253025**	
30,5	3	180	301	1	**010253050**	
30,75	3	180	301	1	**010253075**	
31	3	180	301	1	**010253100**	
31,25	3	180	301	1	**010253125**	
31,5	3	180	301	1	**010253150**	
31,75	3	185	306	1	**010253175**	
32	4	185	334	1	**010253200**	
32,25	4	185	334	1	**010253225**	
32,5	4	185	334	1	**010253250**	
32,75	4	185	334	1	**010253275**	
33	4	185	334	1	**010253300**	
33,25	4	185	334	1	**010253325**	
33,5	4	185	334	1	**010253350**	
33,75	4	185	334	1	**010253375**	
34	4	190	339	1	**010253400**	

R ≤ 650 N/mm²



Metalli
Metals



Acciaio
Steel



Emulsione
Lubrificant

SERIE CORTA
Short serie

Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
34,25	4	190	339	1	**010253425**	consultare
34,5	4	190	339	1	**010253450**	listino
34,75	4	190	339	1	**010253475**	*see price list*
35	4	190	339	1	**010253500**	
35,25	4	190	339	1	**010253525**	
35,5	4	190	339	1	**010253550**	
35,75	4	190	339	1	**010253575**	
36	4	195	344	1	**010253600**	
36,25	4	195	344	1	**010253625**	
36,5	4	195	344	1	**010253650**	
36,75	4	195	344	1	**010253675**	
37	4	195	344	1	**010253700**	
37,25	4	195	344	1	**010253725**	
37,5	4	195	344	1	**010253750**	
37,75	4	195	344	1	**010253775**	
38	4	200	349	1	**010253800**	
38,25	4	200	349	1	**010253825**	
38,5	4	200	349	1	**010253850**	
38,75	4	200	349	1	**010253875**	
39	4	200	349	1	**010253900**	
39,25	4	200	349	1	**010253925**	
39,5	4	200	349	1	**010253950**	
39,75	4	200	349	1	**010253975**	
40	4	200	349	1	**010254000**	
40,25	4	205	354	1	**010254025**	
40,5	4	205	354	1	**010254050**	
40,75	4	205	354	1	**010254075**	
41	4	205	354	1	**010254100**	
41,25	4	205	354	1	**010254125**	
41,5	4	205	354	1	**010254150**	
41,75	4	205	354	1	**010254175**	
42	4	205	354	1	**010254200**	
42,25	4	205	354	1	**010254225**	
42,5	4	205	354	1	**010254250**	
42,75	4	205	354	1	**010254275**	
43	4	210	359	1	**010254300**	
43,25	4	210	359	1	**010254325**	
43,5	4	210	359	1	**010254350**	
43,75	4	210	359	1	**010254375**	
44	4	210	359	1	**010254400**	
44,25	4	210	359	1	**010254425**	
44,5	4	210	359	1	**010254450**	
44,75	4	210	359	1	**010254475**	
45	4	210	359	1	**010254500**	

Ø mm	M.K.	l mm	L mm	pcs.	cod.	cad/each €
45,25	4	215	364	1	**010254525**	consultare
45,5	4	215	364	1	**010254550**	listino
45,75	4	215	364	1	**010254575**	*see price list*
46	4	215	364	1	**010254600**	
46,25	4	215	364	1	**010254625**	
46,5	4	215	364	1	**010254650**	
46,75	4	215	364	1	**010254675**	
47	4	215	364	1	**010254700**	
47,25	4	215	364	1	**010254725**	
47,5	4	215	364	1	**010254750**	
47,75	4	215	364	1	**010254775**	
48	4	220	369	1	**010254800**	
48,25	4	220	369	1	**010254825**	
48,5	4	220	369	1	**010254850**	
48,75	4	220	369	1	**010254875**	
49	4	220	369	1	**010254900**	
49,25	4	220	369	1	**010254925**	
49,5	4	220	369	1	**010254950**	
49,75	4	220	369	1	**010254975**	
50	4	220	369	1	**010255000**	
50,5	4	225	374	1	**010255050**	
51	5	225	412	1	**010255100**	
52	5	225	412	1	**010255200**	
53	5	225	412	1	**010255300**	
54	5	230	417	1	**010255400**	
55	5	230	417	1	**010255500**	
56	5	230	417	1	**010255600**	
57	5	235	422	1	**010255700**	
58	5	235	422	1	**010255800**	
59	5	235	422	1	**010255900**	
60	5	235	422	1	**010256000**	
61	5	240	427	1	**010256100**	
62	5	240	427	1	**010256200**	
63	5	240	427	1	**010256300**	
64	5	245	432	1	**010256400**	
65	5	245	432	1	**010256500**	
66	5	245	432	1	**010256600**	
67	5	245	432	1	**010256700**	
68	5	250	437	1	**010256800**	
69	5	250	437	1	**010256900**	
70	5	250	437	1	**010257000**	


16
14
12
10
8
6
4



UTENSILI CONICI E A GRADINO

Conical and step drill bits

Forets coniques

Brocas conicas

Brocas cónicas e escalonadas

UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO

EN *Spiral step drill bits*
FR *Forets étages hélicoïdaux*
ESP *Brocas escalonadas helicoidale*
PT *Brocas em espiral*

01248 HSS-G TiAlN



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step	d mm	L mm	cod.	cad/each €
2	**4 ÷ 12**	1	9	6	70	**0124**02	consultare
4	**4 ÷ 20**	2	9	10	85	**0124**04	listino
6	**4 ÷ 30**	2	13	10	100	**0124**06	*see price list*
9	**6 ÷ 36**	3	10	10	80	**0124**09	
11	**4 ÷ 39**	3	13	10	107	**0124**11	
24	**6 ÷ 38**	-	11	10	96	**0124**24	



Art. 01259109

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

R ≤ 1400 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*

5 mm
Spessore lavorabile
Material tickness workable

01244 HSS-G TiN



Gr.	Ø min - max	Progressione Step mm	N° Gradini N° Step	d mm	L mm	cod.	cad/each €
2	**4 ÷ 12**	1	9	6	70	**0124**02	consultare
4	**4 ÷ 20**	2	9	10	85	**0124**04	listino
6	**4 ÷ 30**	2	13	10	100	**0124**06	*see price list*
9	**6 ÷ 36**	3	10	10	80	**0124**09	
11	**4 ÷ 39**	3	13	10	107	**0124**11	
24	**6 ÷ 38**	-	11	10	96	**0124**24	



Art. 01259108

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

R ≤ 1000 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*

5 mm
Spessore lavorabile
Material tickness workable

UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI AD ALTO RENDIMENTO

EN *Spiral step drill bits*
FR *Forets étages hélicoïdaux*
ESP *Brocas escalonadas helicoidale*
PT *Brocas em espiral*

01240 HSS-G



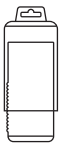
HSS-G
HV 820



Gambo antisdrucciolo
High grip shank







Confezione
Packaging

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
2	**4 ÷ 12**	1	9	6	70	**01240**02	consultare
4	**4 ÷ 20**	2	9	10	85	**01240**04	listino
6	**4 ÷ 30**	2	13	10	100	**01240**06	*see price list*
9	**6 ÷ 36**	3	10	10	80	**01240**09	
11	**4 ÷ 39**	3	13	10	107	**01240**11	
24	**6 ÷ 38**	-	11	10	96	**01240**24	



Art. 01259107

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

R ≤ 800 N/mm²



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



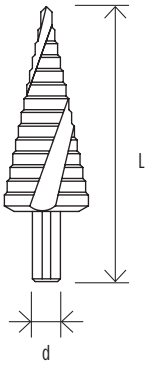
5 mm
Spessore lavorabile
Material tickness workable

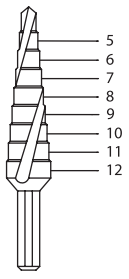


Emulsione
Lubrificant

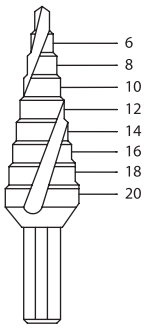


Plastica
Plastic

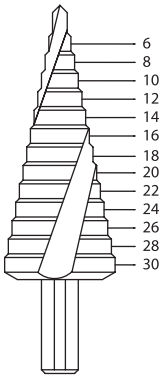




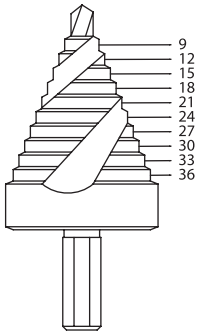
Gr.2



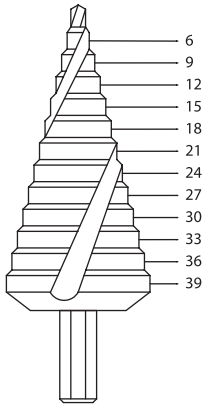
Gr.4



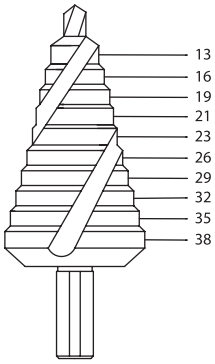
Gr.6



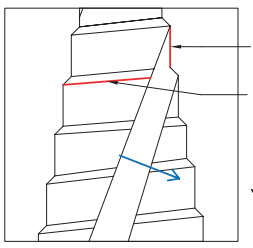
Gr.9

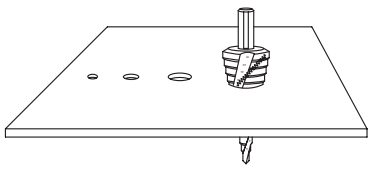


Gr.11



Gr.24





Esercitare solo una lieve pressione durante il taglio.
L'elicoide è autoalimentante grazie alla componente assiale della forza di taglio.

Please use a very soft press while drilling. The tool proceeds by itself, due to the axial cutting strenght.

UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI ED ATTACCO HEX 1/4"

EN *Spiral Flute Step Drill Bit – 1/4" Hex Shank*
FR *Foret étagé hélicoïdal – Queue hexagonale 1/4"*
ESP *Broca escalonada helicoidal – Vástago hexagonal 1/4"*
PT *Broca escalonada helicoidal – Haste sextavada 1/4"*

01242 **01243** **HSS-G** **VAPO**

ATTACCO 1/4" HEX FORM E PER AVVITATORI

Shank 1/4" HEX form e for drills



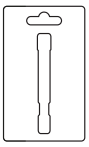
HSS-G
HV 820



1/4" HEX







Confezione
Packaging

METRIC SERIE

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d	L mm	cod.	cad/each €
2	**4 ÷ 12**	1	9	1/4 QC	78	**01242**02	consultare
4	**4 ÷ 20**	2	9	1/4 QC	81,7	**01242**04	listino
6	**4 ÷ 30**	2	13	1/4 QC	100	**01242**06	*see price list*

INCHES SERIE

Gr.	Ø min - max	Progressione *Step* inches	N° Gradini *N° Step*	d	L inches	cod.	cad/each €
-	**1/8" ÷ 1/2"**	5/16"	13	1/4 QC	3-31/64"	**01243**02	consultare
-	**3/16" ÷ 1/2"**	5/8"	6	1/4 QC	3-9/16"	**01243**04	listino
-	**3/16" ÷ 7/8"**	5/8"	12	1/4 QC	3-5/8"	**01243**06	*see price list*



Art. 01259150

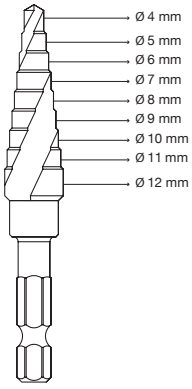
Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

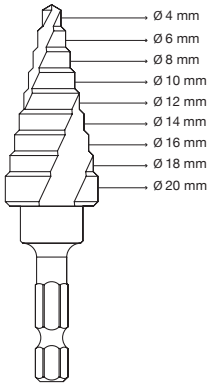


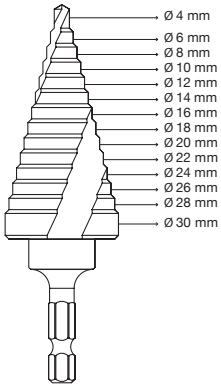
Art. 01259151

Composizione
Description
1/8" ÷ 1/2"
3/16" ÷ 7/8"
3/16" ÷ 1/2"

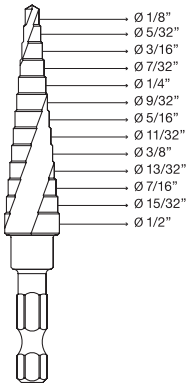
01242

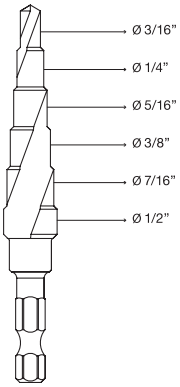


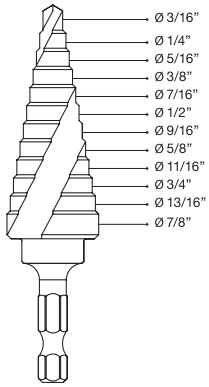




01243







R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Emulsione
Lubricant



Plastica
Plastic







5 mm
Spessore lavorabile
Material tickness workable

UTENSILI CONICI A GRADINO CON TAGLIENTI ELICOIDALI PER FORATURA PROFONDA

EN *Spiral step drill bits for deep drilling*
FR *Forets étages hélicoïdaux pour le forage profond*
ESP *Brocas escalonadas helicoidale para perforación profunda*
PT *Brocas em espiral para perfuração profunda*

01249 **01250** **HSS-G** **TiAlN**

SPECIALE FORATURA PROFONDA - 10 mm

Special for deep drilling - 10 mm

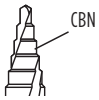


HSS-G+TiAlN
HV 0,05=3300

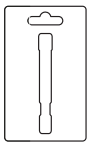




Pianetti antislittamento
Anti slip shank







Confezione
Packaging

METRIC SERIE

Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
4 ÷ 12	1	9	6	126	**01249**02	consultare
8 ÷ 20	2	7	10	110,2	**01249**04	listino
9 ÷ 19	2	6	12	101,2	**01249**06	*see price list*

INCHES SERIE

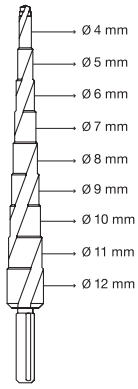
Ø min - max	Progressione *Step* inches	N° Gradini *N° Step*	d inches	L inches	cod.	cad/each €
5/32" ÷ 1/2"		9	1/4"	5"	**01250**02	consultare listino *see price list*

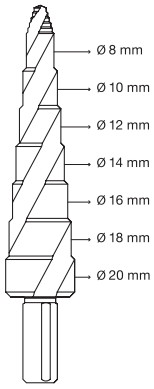


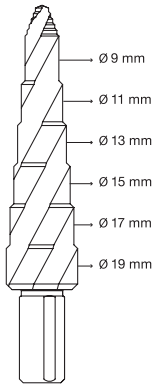
Art. 01259152

Composizione
Description
4÷12 mm
8÷20 mm
9÷19 mm

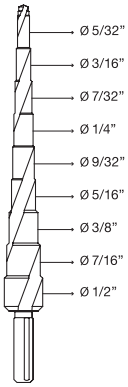
01249







01250



R ≤ 1400 N/mm²



Inox
Stainless
≤3mm



Acciaio
Steel



Metalli
Metals



Alluminio
Aluminum



Emulsione
Lubrificant



Plastica
Plastic



10 mm
Spessore lavorabile
Material tickness workable

UTENSILI CONICI A GRADINO

EN *Step drill bits*
FR *Foret étagé*
ESP *Broca escalonada*
PT *Broca escalonada*

01236 HSS-G TiAlN



118°
HSS-G+TiAlN
HV 0,05=3300

Pianetti antislittamento
Anti slip shank

CBN

Confezione
Packaging

R ≤ 1400 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*

5 mm Spessore lavorabile
Material tickness workable

METRIC SERIE

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
1	4 ÷ 12	2	5	6	56	**0123601**	consultare
2	4 ÷ 12	1	9	6	70	**0123602**	listino
3	12 ÷ 20	1	9	10	85	**0123603**	*see price list*
4	4 ÷ 20	2	9	10	85	**0123604**	
5	20 ÷ 30	1	11	10	97	**0123605**	
6	4 ÷ 30	2	13	10	97	**0123606**	
7	30 ÷ 40	1	11	13	97	**0123607**	
8	40 ÷ 50	1	11	13	100	**0123608**	
9	6 ÷ 36	3	10	10	80	**0123609**	
*10	25 ÷ 60	3	12	13	95	**0123610**	
11	4 ÷ 39	3	13	10	107	**0123611**	
24	6 ÷ 38	-	11	10	96	**0123624**	

PG SERIE

Per tubi di conduzione elettrica
For electrical conduction tubes

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
21	6,3 ÷ 26,75	-	7	10	91	**0123621**	consultare
22	6 ÷ 30,5	-	7	10	80	**0123622**	listino
23	6 ÷ 37	-	7	10	85	**0123623**	*see price list*

01230 HSS-G TiN



118°
HSS-G+TiN
HV 0,05=3300

Pianetti antislittamento
Anti slip shank

CBN

Confezione
Packaging

R ≤ 1000 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*

5 mm Spessore lavorabile
Material tickness workable

METRIC SERIE

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
1	4 ÷ 12	2	5	6	56	**0123001**	consultare
2	4 ÷ 12	1	9	6	70	**0123002**	listino
3	12 ÷ 20	1	9	10	85	**0123003**	*see price list*
4	4 ÷ 20	2	9	10	85	**0123004**	
5	20 ÷ 30	1	11	10	97	**0123005**	
6	4 ÷ 30	2	13	10	97	**0123006**	
7	30 ÷ 40	1	11	13	97	**0123007**	
8	40 ÷ 50	1	11	13	100	**0123008**	
9	6 ÷ 36	3	10	10	80	**0123009**	
*10	25 ÷ 60	3	12	13	95	**0123010**	
11	4 ÷ 39	3	13	10	107	**0123011**	
24	6 ÷ 38	-	11	10	96	**0123024**	

PG SERIE

Per tubi di conduzione elettrica
For electrical conduction tubes

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
21	6,3 ÷ 26,75	-	7	10	91	**0123021**	consultare
22	6 ÷ 30,5	-	7	10	80	**0123022**	listino
23	6 ÷ 37	-	7	10	85	**0123023**	*see price list*



Art. 01259103

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm

UTENSILI CONICI A GRADINO

EN *Step drill bits*
FR *Foret étagé*
ESP *Broca escalonada*
PT *Broca escalonada*

01183

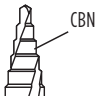
HSS-G



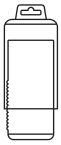
HSS-G
HV 820



Gambo antisdrucciolo
High grip shank







Confezione
Packaging

R ≤ 800 N/mm²



Acciaio
Steel



Metalli
Metals



5 mm
Spessore
lavorabile
Material tickness workable



Alluminio
Aluminum



Emulsione
Lubrificant



Plastica
Plastic

METRIC SERIE

Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
1	4 ÷ 12	2	5	6	56	**0118**301	consultare
2	4 ÷ 12	1	9	6	70	**0118**302	listino
3	12 ÷ 20	1	9	10	85	**0118**303	*see price list*
4	4 ÷ 20	2	9	10	85	**0118**304	
5	20 ÷ 30	1	11	10	97	**0118**305	
6	4 ÷ 30	2	13	10	97	**0118**306	
7	30 ÷ 40	1	11	13	97	**0118**307	
8	40 ÷ 50	1	11	13	100	**0118**308	
9	6 ÷ 36	3	10	10	80	**0118**309	
*10	25 ÷ 60	3	12	12	95	**0118**310	
11	4 ÷ 39	3	13	10	107	**0118**311	
24	6 ÷ 38	-	11	10	96	**0118**324	

PG SERIE

Per tubi di conduzione elettrica
For electrical conduction tubes

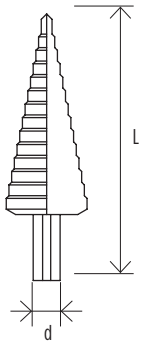


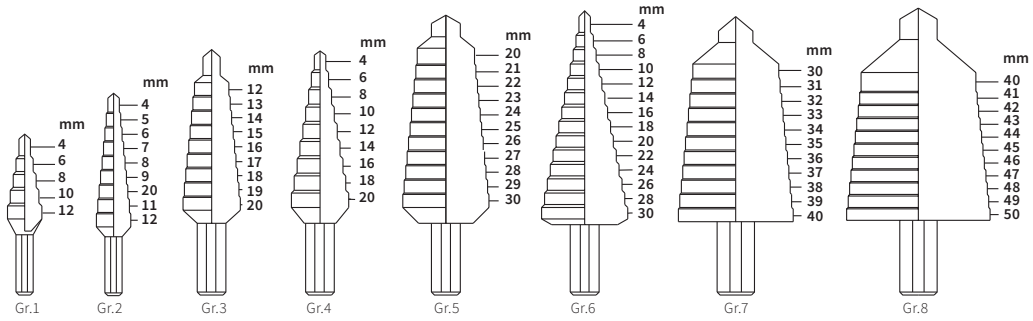
Gr.	Ø min - max	Progressione *Step* mm	N° Gradini *N° Step*	d mm	L mm	cod.	cad/each €
21	6,3 ÷ 26,75	-	7	10	91	**0118**321	consultare
22	6 ÷ 30,5	-	8	10	80	**0118**322	listino
23	6 ÷ 37	-	7	10	85	**0118**323	*see price list*

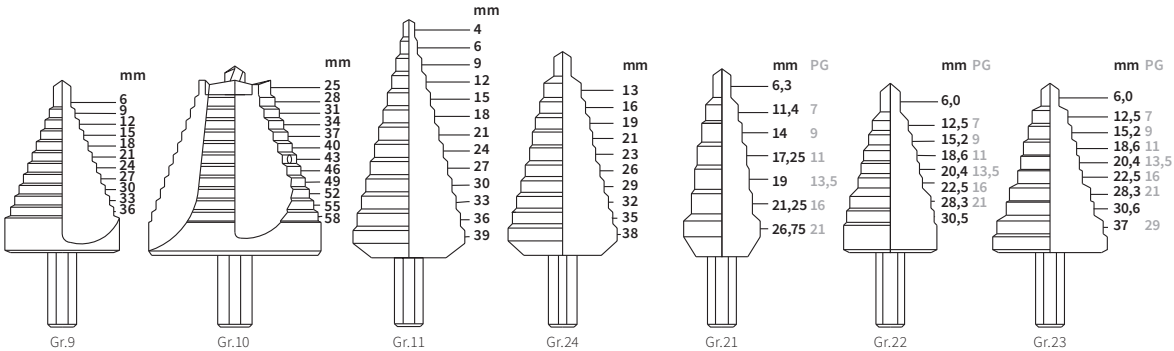


Art. 01259102

Composizione
Description
Gr.2 4÷12 mm
Gr.4 4÷20 mm
Gr.6 4÷30 mm









Per fori cilindrici e precisi in lamiere di acciaio, tubi, profilati, leghe leggere, plastica, plexiglass sino a 5 mm spessore.

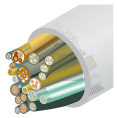
For parallel and precise holes in metal sheets, pipes, structurals, light alloys, plastics, plexiglass up to 5 mm thickness.

* Punta a centrare per utensile conico Gr. 10
Pilot drill for Gr.10 step drill bit

	Ø x L	cod.	cad/each €
	**8x48**	0118300	consultare listino *see price list*

UTENSILI CONICI UNIVERSALI PER PREFORI DI FILETTATURA DI TUBI PER CAVI DI CONDUZIONE ELETTRICA

EN *Universal step drill bits for cables connections*
FR *Forets étages universelles pour tubes avec armature en acier*
ESP *Brocas escalonadas universales para tubos de conducción eléctrica*
PT *Brocas de passo universal para ligações de cabos*



0125405 HSS-G

Composizione
Description
Ø 7 ÷ 40,5 mm
M 12 x 1,5 ÷ 40 x 1,5



Confezione
Packaging

0125406 HSS-G TiN

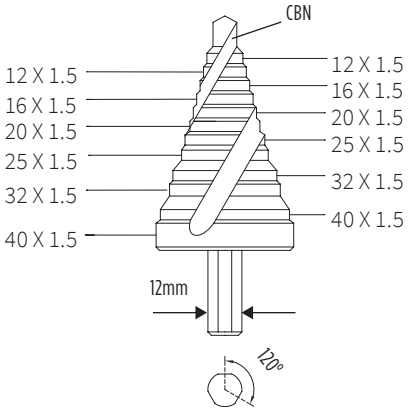
Composizione
Description
Ø 7 ÷ 40,5 mm
M 12 x 1,5 ÷ 40 x 1,5



Confezione
Packaging

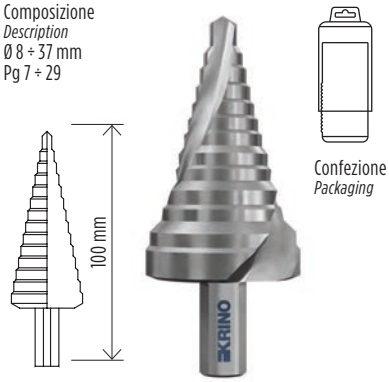
METRICA DIN-EN 60423
METRICA DIN-EN 60423

M DIN-EN 60423



0125403 HSS-G

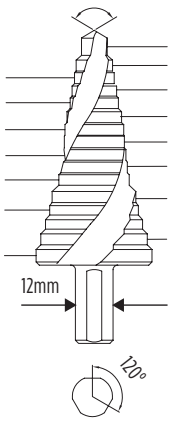
Composizione
Description
Ø 8 ÷ 37 mm
Pg 7 ÷ 29



Confezione
Packaging

PG DIN-EN 40430
PG DIN-EN 40430

PG DIN-EN 40430



Foro passante *Through holes*		Preforo maschiatura *Core holes*	
		Ø 8	
12,5 ± 0,05	PG 7	PG 7	11,4 ± 0,05
15,2 ± 0,05	PG 9	PG 9	14 ± 0,05
18,6 ± 0,05	PG 11	PG 11	17,25 ± 0,05
20,4 ± 0,05	PG 13,5	PG 13,5	19 ± 0,05
22,5 ± 0,05	PG 16	PG 16	21,25 ± 0,05
28,3 ± 0,05	PG 21	PG 21	26,75 ± 0,05 (31 ± 0,05)
37 ± 0,05	PG 29	PG 29	34 ± 0,05

UTENSILI CONICI COMBINATI UNIVERSALI PER FORI NOCCIOLO E FORI PASSANTI

utilizzati per fori nocciolo (quando è prevista la successiva filettatura) e fori passanti (quando si inserisce un raccordo filettato serrato con un relativo dado

COMBINED UNIVERSAL FOR CORE AND AND THROUGH HOLESUSED FOR CORE HOLES

(when the thread is needed) and through holes (when inserting a threaded connection with a relative nut)

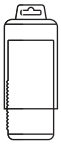
FRESA CONICA ALLARGAFORI PER LAMIERE, SPECIALE PER MECCANICI, ELETTRAUTO, CARROZZIERI

EN *Conical drill bits for metal sheets*
FR *Forets coniques pour la tôle*
ESP *Brocas conicas para planchas*
PT *Brocas cónicas para chapas metálicas*

01176 INTERAMENTE RETTIFICATA

Fully ground





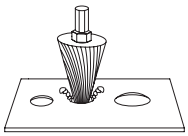
Confezione
Packaging

HSS-G

Øxl	d	cod.	cad/each €
25 x 40	10	**01176**01	consultare listino
32 x 50	10	**01176**03	*see price list*
45 x 60	12	**01176**04	

C.V.

Øxl	d	cod.	cad/each €
25 x 40	10	**01176**02	consultare listino
			see price list



SELF ART. 01177
Su richiesta / *On demand*

La fresa allargafori va usata con velocità massima di 420 giri/min per allargare fori in lamiere di materiali dolci con spessore inferiore a 0,5 mm.

The conical drill bit shoud work at max 420 rpm to enlarge holes inside mild steel sheet 0,5 mm thick.

R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

5 mm
Spessore lavorabile
Material tickness workable

Emulsione
Lubrificant

Plastica
Plastic

UTENSILI CONICI

EN *Cone Drills*
FR *Forets coniques*
ESP *Brocas cónicas*
PT *Brocas cónicas*

01206 HSS-G TiAlN



Gr.	Ø min - max	d mm	l mm	L mm	cod.	cad/each €
1	3 ÷ 14	6	21	58	01206**01**	consultare
2	6 ÷ 20	8	21	70	01206**02**	listino
3	16 ÷ 30,5	10	25	79	01206**03**	*see price list*
4	26 ÷ 40	10	25	86	01206**04**	
5	36 ÷ 50	13	25	90	01206**05**	
7	3 ÷ 31	10	21	109	01206**07**	
8	3 ÷ 22,5	8	21	85	01206**08**	

R ≤ 1400 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*
5 mm Spessore lavorabile *Material tickness workable*

01200 HSS-G TiN



Gr.	Ø min - max	d mm	l mm	L mm	cod.	cad/each €
1	3 ÷ 14	6	21	58	01200**01**	consultare
2	6 ÷ 20	8	21	70	01200**02**	listino
3	16 ÷ 30,5	10	25	79	01200**03**	*see price list*
4	26 ÷ 40	10	25	86	01200**04**	
5	36 ÷ 50	13	25	90	01200**05**	
*6	40 ÷ 61	13	25	97	01200**06**	
7	3 ÷ 31	10	21	109	01200**07**	
8	3 ÷ 22,5	8	21	85	01200**08**	

* In esaurimento *Running out*

R ≤ 1000 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Emulsione *Lubrificant*
Plastica *Plastic*
5 mm Spessore lavorabile *Material tickness workable*

UTENSILI CONICI

EN *Cone Drills*
FR *Forets coniques*
ESP *Brocas cónicas*
PT *Brocas cónicas*

01180 HSS-G



Gr.	Ø min - max	d mm	l mm	L mm	cod.	cad/each €
1	3 ÷ 14	6	21	58	0118001	consultare
2	6 ÷ 20	8	21	70	0118002	listino
3	16 ÷ 30,5	10	25	79	0118003	*see price list*
4	26 ÷ 40	10	25	86	0118004	
5	36 ÷ 50	13	25	90	0118005	
7	3 ÷ 31	10	21	109	0118007	
8	3 ÷ 22,5	8	21	85	0118008	



Art. 01195101

Composizione
Description
Gr.1 3÷14 mm
Gr.2 6÷20 mm
Gr.3 16÷30,5 mm

R ≤ 800 N/mm²

Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Plastica *Plastic*

5 mm Spessore lavorabile *Material tickness workable*

Emulsione *Lubrificant*

01215 HSS-G

ATTACCO 1/4" HEX FORM E PER AVVITATORI

Shank 1/4" HEX form e for drills



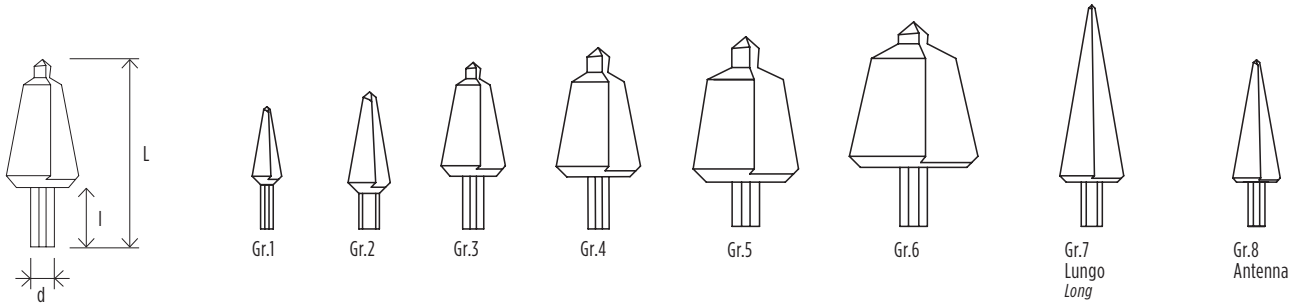
Gr.	Ø min - max	d inches	l mm	L mm	cod.	cad/each €
2	8 ÷ 20	1/4"	20	68	0121502	consultare listino *see price list*

R ≤ 800 N/mm²

Acciaio *Steel* · Metalli *Metals* · Alluminio *Aluminum* · Plastica *Plastic*

5 mm Spessore lavorabile *Material tickness workable*

Emulsione *Lubrificant*





TRAPANI MAGNETICI E FRESE A CAROTARE

Magnetic drills and core drills

Perceuses magnétiques et fraises à carotter

Taladros magnéticos y brocas corona

Berbequins magnéticos e cortadores anulares

GAMMA TRAPANI MAGNETICI

EN *Magnetic drills range*
FR *Gamme de perceuses magnétiques*
ESP *Gama de taladros magnéticos*
PT *Gama de berbequins magnéticos*





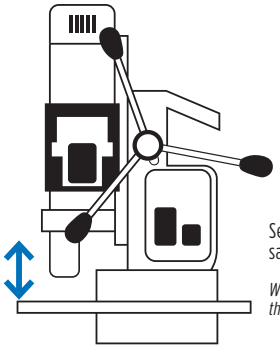



		FULL50t 28011203	FULL50t 28011209	FULL32t 28011202	CORDLESS.36 28011205	CORDLESS.36 28011206	COMPACT.36+ 28011204	PURE.50 28011201	PURE.50 28011208	PURE.35 28011200	PURE.35 28011207
	*CONSULTARE LISTINO *see price list	€*	€*	€*	€*	€*	€*	€*	€*	€*	€*
CAPACITÀ DI FORATURA *Drilling capacity*	**FRESE A CAROTARE** *Core drills*	Ø 12÷50 mm		Ø 12÷32 mm	Ø 12÷36 mm		Ø 12÷36 mm	Ø 12÷50 mm		Ø 12÷35 mm	
	PUNTE ELICOIDALI *Twist drills*	Ø 1÷23 mm		Ø 1÷13 mm	Ø 1÷13 mm		Ø 1÷14 mm	Ø 1÷20 mm		Ø 1÷13 mm	
	SVASATORI *Countersink*	Ø 10÷55 mm		Ø 10÷40 mm	Ø 10÷40 mm		Ø 10÷40 mm	Ø 10÷50 mm		Ø 10÷35 mm	
	MASCHI *Taps*	Ø M3÷M20		Ø M3÷M12							
MANDRINO *Chuck*	**ATTACCO FRESE** *Core drill shank*	Weldon		Weldon	Weldon		Weldon (sgancio rapido) *(quick coupling)*	Weldon		Weldon	
	ATTACCO *Machine connection*	CM2									
MAGNETE *Magnet*	**DIMENSIONI** *Dimensions*	170x85x48 mm		160x80x42 mm	150x96x45 mm		160x80x37 mm	168x84x49 mm		160x81x36 mm	
	FORZA DI ADESIONE *Holding force*	1850 Kg		1500 Kg	650 Kg		1200 Kg	1600 Kg		1000 Kg	
MOTORE *Motor*	**POTENZA MOTORE** *Motor power*	1250 W		1000 W	1000 W		1050 W	1200 W		850 W	
	VELOCITÀ A VUOTO *No-load speed*	100÷280 185÷530 rpm		150÷600 rpm	530 rpm		700 rpm	380/690 rpm		750 rpm	
	VELOCITÀ SOTTO CARICO *Loaded speed*	250/460 rpm		225 rpm	430 rpm		400 rpm	235/425 rpm		400 rpm	
POTENZA *Power*	**ALIMENTAZIONE** *Power Supply*	220-240 V 50-60 Hz	110-120 V 60 Hz	220-240 V 50-60 Hz	Batteria 18 V *Battery 18 V*		220-240 V 50-60 Hz	220-240 V 50-60 Hz	110-120 V 60 Hz	220-240 V 50-60 Hz	110-120 V 60 Hz
	TOTALE MOTORE + MAGNETE *Motor + magnet total power*	1375 W		1050 W	1000 W		1100 W	1250 W		900 W	
DIMENSIONI TRAPANO *Drill dimensions*	**ALTEZZA (MIN-MAX)** *Height (min-max)*	385-540 mm		370-512 mm	370-410 mm		165 mm	380-550 mm		293-383 mm	
	LUNGHEZZA *Length*	320 mm		320 mm	325 mm		310 mm	320 mm		265 mm	
	LARGHEZZA *Width*	210 mm		210 mm	235 mm		135 mm	210 mm		175 mm	
	CORSA *Stroke*	170 mm		150 mm	140 mm		40 mm	170 mm		90 mm	
	PESO *Weight*	13,5 Kg		11 Kg	10,2 Kg (con batteria) *(with battery)*		10,3 Kg	13,5 Kg		8,5 Kg	
FUNZIONI *Features*	**VARIATORE DI VELOCITÀ** *Variable speed drive*	✔		✔							
	N° VELOCITÀ *Number of speeds*	2		1	1		1	2		1	
	INVERSIONE DI ROTAZIONE *Reverse rotation*	✔		✔							
	SISTEMA DI LUBRIFICAZIONE *Lubrication system*	✔		✔	✔		✔	✔		✔	

UTENSILI COMPATIBILI

EN *Compatible tools*
FR *Outils compatibles*
ESP *Herramientas compatibles*
PT *Ferramentas compatíveis*

	FRESE A CAROTARE *Core drills*				PUNTE ELICOIDALI *Twist drills*			SVASATORI *Countersink*		MASCHI *Taps*	
	WELDON		QUICK-IN		WELDON		CILINDRICO	WELDON	CILINDRICO	CILINDRICO	
	SHORT SERIE	LONG SERIE	SHORT SERIE	LONG SERIE	SHORT SERIE	LONG SERIE					
FULL50T 28011203 28011209	●	●	●	●	●	●	●	●	●	● M8÷M20	● M3÷M6
FULL32T 28011202	●	●	●	●	●	●	● ≥ 8 mm DIN1897	●	●	● M8÷M12	● M3÷M6
CORDLESS.36 28011205 28011206	●	●	●	●	●	●	● ≥ 8 mm DIN1897	●	●		
COMPACT.36+ 28011204	●				●			●			
PURE.50 28011201 28011208	●	●	●	●	●	●	● ≥ 8 mm DIN1897	●	●		
PURE.35 28011200 28011207	●	●	●		●	●		●			



Se lavori in piano controlla sempre la corsa del trapano:
sarà il limite dell'ingombro degli utensili che potrai montare.

When working on flat surfaces, always check the stroke of the drill:
this will determine the maximum tool length you can use.

FULL 50t

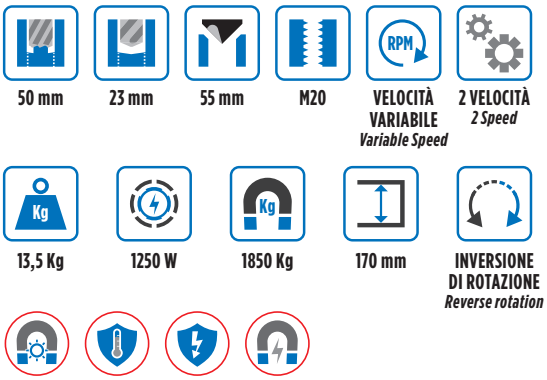
TRAPANO CON BASE MAGNETICA PER FRESE A CAROTARE FINO A Ø 50 MM, DUE VELOCITÀ MECCANICHE E INVERSIONE DI ROTAZIONE

Magnetic base drill for core drills up to ø 50 mm, two mechanical speeds and reverse rotation

28011203 220 V

28011209 110 V





50 mm | 23 mm | 55 mm | M20 | VELOCITÀ VARIABILE *Variable Speed* | 2 VELOCITÀ *2 Speed*

13,5 Kg | 1250 W | 1850 Kg | 170 mm | INVERSIONE DI ROTAZIONE *Reverse rotation*

CAPACITÀ DI FORATURA / *DRILLING CAPACITY*	
FRESE A CAROTARE / *Core drills*	Ø 12÷50 mm
PUNTE ELICOIDALI / *Twist drills*	Ø 1÷23 mm
SVASATORI / *Countersink*	Ø 10÷55 mm
MASCHI / *Taps*	Ø M3÷M20
MANDRINO / *CHUCK*	
ATTACCO FRESE / *Core drill shank*	Weldon
ATTACCO / *Machine connection*	CM2
MAGNETE / *MAGNET*	
DIMENSIONI / *Dimensions*	170x85x48 mm
FORZA DI ADESIONE / *Holding force*	1850 Kg
SPESSORE MIN. PER ADERENZA MAGNETE *Min. Thickness for magnet adhesion*	10 mm
MOTORE / *MOTOR*	
POTENZA MOTORE / *Motor power*	1250 W
VELOCITÀ A VUOTO / *No-load speed*	100-280 / 185-530 rpm
VELOCITÀ SOTTO CARICO / *Loaded speed*	250/460 rpm
POTENZA / *POWER*	
ALIMENTAZIONE / *Power Supply*	220/240 V - 50/60 Hz (28011203) 110/120 V - 60 Hz (28011209)
POTENZA TOTALE (MOTORE+MAGNETE) *Total Power (motor+magnet)*	1375 W
DIMENSIONI TRAPANO / *MAGNETIC DRILL DIMENSIONS*	
ALTEZZA (MIN-MAX) / *Height (min-max)*	385-540 mm
LUNGHEZZA / *Length*	320 mm
LARGHEZZA / *Width*	210 mm
CORSA / *Stroke*	170 mm
PESO / *Weight*	13,5 Kg
FUNZIONI / *FUNCTIONS*	
VARIATORE DI VELOCITÀ / *Variable speed drive*	✓
N° VELOCITÀ / *Number of speeds*	2
INVERSIONE DI ROTAZIONE / *Reverse rotation*	✓
SISTEMA DI LUBRIFICAZIONE / *Lubrication system*	✓

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
4 x adattatori Weldon per maschi M10, M12, M14, M16
1 x custodia per il trasporto
1 x protezione di sicurezza
3 x maniglie
1 x chiave esagonale da 2,5mm
1 x chiave esagonale da 3 mm
1 x chiave esagonale da 4 mm
1 x chiave esagonale da 5 mm
1 x chiave a forchetta 8
1 x sistema di lubrificazione
1 x catena di sicurezza
1 x mandrino CM2 / Weldon
1 x estrattore CM2
1 x manuale d'uso (ITA/ENG)

Box content:
1 x magnetic base drill
4 x Weldon adapters for taps M10, M12, M14, M16
1 x carrying case
1 x safety guard
3 x handles
1 x 2,5 mm hex key
1 x 3 mm hex key
1 x 4 mm hex key
1 x 5 mm hex key
1 x 8 mm open-end wrench
1 x lubrication system
1 x safety chain
1 x CM2 / Weldon chuck
1 x CM2 extractor
1 x user manual (ITA/ENG)

Capacità di foratura
con frese a carotare Ø 12÷50 mm
Drilling capacity with core drills
Ø 12÷50 mm

Capacità di foratura
con punte elicoidali Ø 1÷23 mm
Drilling capacity with twist drills
Ø 13÷23 mm

Capacità di svasatura Ø 10÷55 mm
Countersinking capacity
Ø 10÷55 mm

Capacità di maschiatura
Ø M3÷M20
Tapping capacity Ø M3÷M20

WELDON



Art. **28015001**
Adattatore Weldon/Quick-in
Weldon/Quick-in adapter



Art. **28165021/2**
Adattatore CM2 - 1/2 UNF
Adapter CM2 - 1/2 UNF



Mandrino
attacco 1/2 x 20 UNF
1/2 x 20 UNF Chuck

WELDON



Art. **28015XXX**
Adattatore
maschi DIN376/371
Taps adapter DIN376/371



Art. **28165021/2**
Adattatore CM2 - 1/2 UNF
Adapter CM2 - 1/2 UNF



Mandrino
attacco 1/2 x 20 UNF
1/2 x 20 UNF Chuck

WELDON



SHORT SERIE
LONG SERIE

QUICK-IN



SHORT SERIE
LONG SERIE

WELDON



SHORT SERIE
LONG SERIE

CILINDRICO



CILINDRICO



WELDON



QUADRO



Maschi DIN 376/371
Taps DIN 376/371

QUADRO



Maschi DIN 376/371
Fino a Ø 6 con l'uso del mandrino
Taps DIN 376/371. Up to Ø 6 with the use of chuck

FULL32t

TRAPANO CON BASE MAGNETICA PER FRESE A CAROTARE FINO A Ø 32 MM, VELOCITÀ VARIABILE E INVERSIONE DI ROTAZIONE

Magnetic base drill for core drills up to ø 32 mm, variable speed and reverse rotation

28011202



32 mm | 13 mm | 40 mm | M12 | VELOCITÀ VARIABILE *Variable Speed*

11 Kg | 1000 W | 1500 Kg | 150 mm | INVERSIONE DI ROTAZIONE *Reverse rotation*

CAPACITÀ DI FORATURA / *DRILLING CAPACITY*	
FRESE A CAROTARE / *Core drills*	Ø 12÷32 mm
PUNTE ELICOIDALI / *Twist drills*	Ø 1÷13 mm
SVASATORI / *Countersink*	Ø 10÷40 mm
MASCHI / *Taps*	Ø M3÷M12
MANDRINO / *CHUCK*	
ATTACCO FRESE / *Core drill shank*	Weldon
ATTACCO / *Machine connection*	-
MAGNETE / *MAGNET*	
DIMENSIONI / *Dimensions*	160x80x42 mm
FORZA DI ADESIONE / *Holding force*	1500 Kg
SPESSORE MIN. PER ADERENZA MAGNETE *Min. Thickness for magnet adhesion*	6 mm
MOTORE / *MOTOR*	
POTENZA MOTORE / *Motor power*	1000 W
VELOCITÀ A VUOTO / *No-load speed*	150 - 600 rpm
VELOCITÀ SOTTO CARICO / *Loaded speed*	225 rpm
POTENZA / *POWER*	
ALIMENTAZIONE / *Power Supply*	220-240 V / 50-60 Hz
POTENZA TOTALE (MOTORE+MAGNETE) *Total Power (motor+magnet)*	1050 W
DIMENSIONI TRAPANO / *MAGNETIC DRILL DIMENSIONS*	
ALTEZZA (MIN-MAX) / *Height (min-max)*	370-512 mm
LUNGHEZZA / *Length*	320 mm
LARGHEZZA / *Width*	210 mm
CORSA / *Stroke*	150 mm
PESO / *Weight*	11 Kg
FUNZIONI / *FUNCTIONS*	
VARIATORE DI VELOCITÀ / *Variable speed drive*	✓
N° VELOCITÀ / *Number of speeds*	1
INVERSIONE DI ROTAZIONE / *Reverse rotation*	✓
SISTEMA DI LUBRIFICAZIONE / *Lubrication system*	✓

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
1 x protezione di sicurezza
3 x maniglie
3 x adattatori Weldon per maschi con gambo M8, M10, M12
1 chiave esagonale da 2,5 mm
1 chiave esagonale da 3 mm
1 chiave esagonale da 4 mm
1 chiave esagonale da 5 mm
1 x sistema di lubrificazione
1 x catena di sicurezza
1 x manuale d'uso (ITA/ENG)
1 x espulsore

Box content:
1 x magnetic base drill
1 x safety guard
3 x handles
3 x Weldon adapters for taps with M8, M10, M12 shank
1 2,5 mm hex key
1 3 mm hex key
1 4 mm hex key
1 5 mm hex key
1 x lubrication system
1 x safety chain
1 x user manual (ITA/ENG)
1 x ejector pin

Capacità di foratura
con frese a carotare Ø 12÷32 mm
Drilling capacity with core drills
Ø 12÷32 mm

Capacità di foratura
con punte elicoidali Ø 1÷13 mm
Drilling capacity with twist drills
Ø 1÷13 mm

Capacità di svasatura Ø 10÷40 mm
Countersinking capacity
Ø 10÷40 mm

Capacità di maschiatura
Ø M3÷M13
Tapping capacity Ø M3÷M13

WELDON



Art. **28015001**
Adattatore Weldon/Quick-in
Weldon/Quick-in adapter

WELDON



Art. **28015004**
Adattatore 1/2 UNF
Adapter 1/2 UNF



Mandrino
attacco 1/2 x 20 UNF
1/2 x 20 UNF Chuck

WELDON



Art. **28015XXX**
Adattatore
maschi DIN376/371
Taps adapter DIN376/371

WELDON



Art. **28015004**
Adattatore 1/2 UNF
Adapter 1/2 UNF



Mandrino
attacco 1/2 x 20 UNF
1/2 x 20 UNF Chuck

WELDON



SHORT SERIE
LONG SERIE

QUICK-IN



SHORT SERIE
LONG SERIE

WELDON



SHORT SERIE
LONG SERIE

CILINDRICO



CILINDRICO



Per diametri ≥ 8mm usare serie corta din 1897
For diameters ≥ 8 mm, use the short series DIN 1897

WELDON



QUADRO



Maschi DIN 376/371
Taps DIN 376/371

QUADRO



Maschi DIN 376/371
Fino a Ø 6 con l'uso del mandrino
Taps DIN 376/371. Up to Ø 6 with the use of chuck

CORDLESS·36

TRAPANO PORTATILE A BATTERIA CON BASE MAGNETICA PER FRESE A CAROTARE FINO Ø 36 MM

Cordless portable magnetic base drill for core drills up to ø 36 mm

28011205 SET COMPLETO CON BATTERIA *complete set with battery*

28011206 SOLO CORPO MACCHINA *bare tool*







36 mm | 13 mm | 40 mm

10,2 Kg con batteria *with battery* | 1000 W | 650 Kg | 140 mm

CAPACITÀ DI FORATURA / *DRILLING CAPACITY*	
FRESE A CAROTARE / *Core drills*	Ø 12÷36 mm
PUNTE ELICOIDALI / *Twist drills*	Ø 1÷13 mm
SVASATORI / *Countersink*	Ø 10÷40 mm
MASCHI / *Taps*	-
MANDRINO / *CHUCK*	
ATTACCO FRESE / *Core drill shank*	Weldon
ATTACCO / *Machine connection*	-
MAGNETE / *MAGNET*	
DIMENSIONI / *Dimensions*	157x96x45 mm
FORZA DI ADESIONE / *Holding force*	650 Kg
SPESSORE MIN. PER ADERENZA MAGNETE *Min. Thickness for magnet adhesion*	6 mm
MOTORE / *MOTOR*	
POTENZA MOTORE / *Motor power*	1000 W
VELOCITÀ A VUOTO / *No-load speed*	530 rpm
VELOCITÀ SOTTO CARICO / *Loaded speed*	430 rpm
POTENZA / *POWER*	
ALIMENTAZIONE / *Power Supply*	Batteria 18 V
POTENZA TOTALE (MOTORE+MAGNETE) *Total Power (motor+magnet)*	1000 W
DIMENSIONI TRAPANO / *MAGNETIC DRILL DIMENSIONS*	
ALTEZZA (MIN-MAX) / *Height (min-max)*	370-410 mm
LUNGHEZZA / *Length*	325 mm
LARGHEZZA / *Width*	235 mm
CORSA / *Stroke*	140 mm
PESO / *Weight*	10,2 Kg (con batteria/ with battery)
FUNZIONI / *FUNCTIONS*	
VARIATORE DI VELOCITÀ / *Variable speed drive*	-
N° VELOCITÀ / *Number of speeds*	1
INVERSIONE DI ROTAZIONE / *Reverse rotation*	-
SISTEMA DI LUBRIFICAZIONE / *Lubrication system*	✓

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
3 x maniglie
1 x chiave esagonale da 2,5 mm
1 x chiave esagonale da 3 mm
1 x chiave esagonale da 4 mm
1 x chiave esagonale da 5 mm
1 x sistema di lubrificazione
1 x manuale d'uso (ITA/ENG)

Box content:
1 x magnetic base drill
3 x handles
1 x 2,5 mm hex key
1 x 3 mm hex key
1 x 4 mm hex key
1 x 5 mm hex key
1 x lubrication system
1 x user manual (ITA/ENG)

IL TRAPANO CORDLESS.36 È COMPATIBILE CON LA PIATTAFORMA BATTERIE LXT 18 V MAKITA®

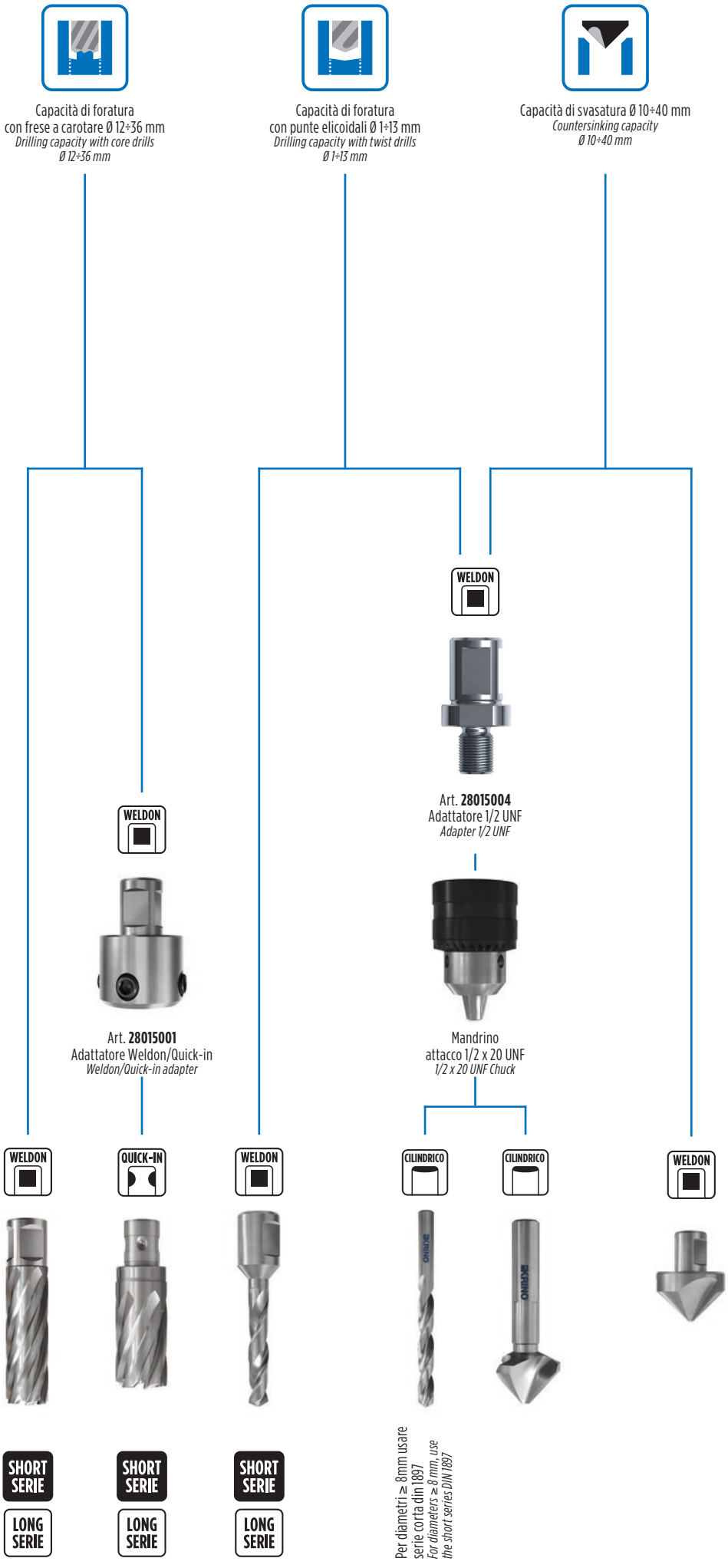
Ricarica batteria:
Circa 3 h per una ricarica completa della batteria 18 V 9 Ah

Durata batteria:
44 fori con fresa Ø 14 mm in acciaio spessore 10 mm

The CORDLESS.36 drill is compatible with the Makita® LXT 18V battery platform.

Battery charging time:
Approx. 3 hours for a full charge of the 18V 9 Ah battery

Battery life:
44 holes with Ø 14 mm steel core drill
Thickness: 10 mm



COMPACT·36+

TRAPANO ULTRA COMPATTO CON BASE MAGNETICA PER FRESE A CAROTARE FINO A Ø 36 MM

Cordless portable magnetic base drill for core drills up to ø 36 mm

28011204







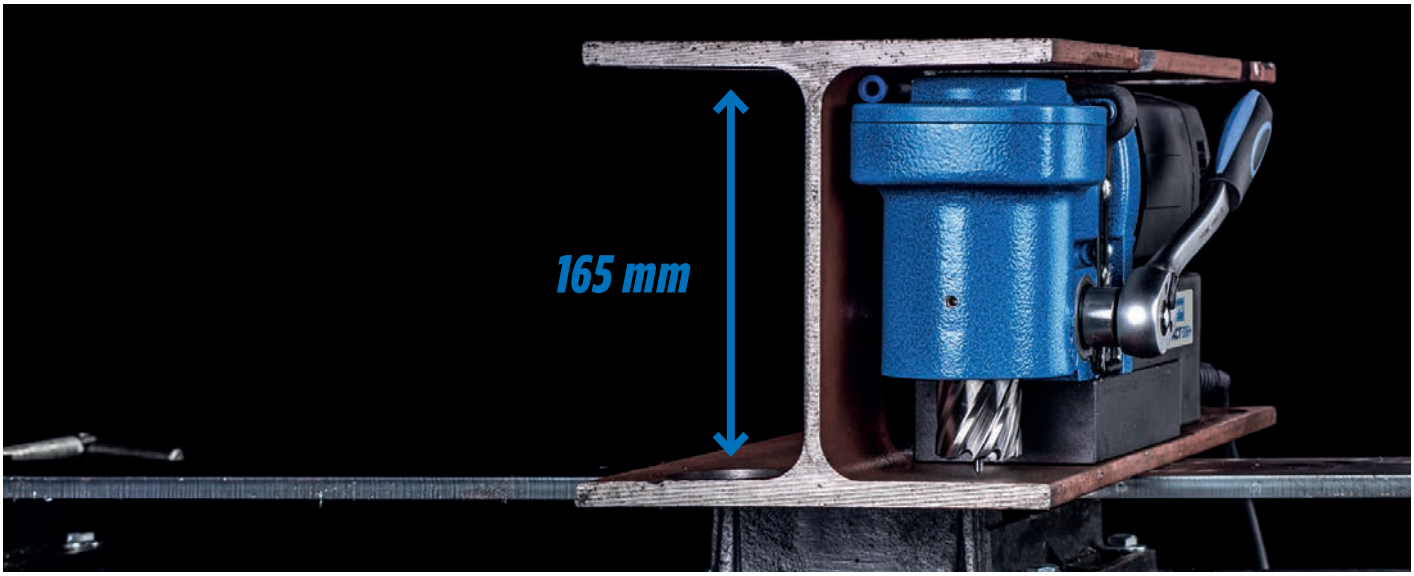
36 mm | 13 mm | 40 mm

10,3 Kg | 1050 W | 1200 Kg | 40 mm

CAPACITÀ DI FORATURA / *DRILLING CAPACITY*	
FRESE A CAROTARE / *Core drills*	Ø 12÷36 mm
PUNTE ELICOIDALI / *Twist drills*	Ø 1÷13 mm
SVASATORI / *Countersink*	Ø 10÷40 mm
MASCHI / *Taps*	-
MANDRINO / *CHUCK*	
ATTACCO FRESE / *Core drill shank*	Weldon
ATTACCO / *Machine connection*	-
MAGNETE / *MAGNET*	
DIMENSIONI / *Dimensions*	160x80x37 mm
FORZA DI ADESIONE / *Holding force*	1200 Kg
SPESSORE MIN. PER ADERENZA MAGNETE *Min. Thickness for magnet adhesion*	6 mm
MOTORE / *MOTOR*	
POTENZA MOTORE / *Motor power*	1050 W
VELOCITÀ A VUOTO / *No-load speed*	700 rpm
VELOCITÀ SOTTO CARICO / *Loaded speed*	400 rpm
POTENZA / *POWER*	
ALIMENTAZIONE / *Power Supply*	220-240 V / 50-60 Hz
POTENZA TOTALE (MOTORE+MAGNETE) *Total Power (motor+magnet)*	1100 W
DIMENSIONI TRAPANO / *MAGNETIC DRILL DIMENSIONS*	
ALTEZZA (MIN-MAX) / *Height (min-max)*	165 mm
LUNGHEZZA / *Length*	310 mm
LARGHEZZA / *Width*	135 mm
CORSA / *Stroke*	40 mm
PESO / *Weight*	10,3 Kg
FUNZIONI / *FUNCTIONS*	
VARIATORE DI VELOCITÀ / *Variable speed drive*	-
N° VELOCITÀ / *Number of speeds*	1
INVERSIONE DI ROTAZIONE / *Reverse rotation*	-
SISTEMA DI LUBRIFICAZIONE / *Lubrication system*	✓

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
1 x protezione di sicurezza
1 x maniglia a cricchetto
1 x chiave esagonale da 3 mm
1 x cinghia di sicurezza
1 x sistema di lubrificazione
1 x manuale d'uso (ITA/ENG)

Box content:
1 x magnetic base drill
1 x safety guard
1 x ratcheting handle
1 x 3 mm hex key
1 x safety strap
1 x lubrication system
1 x user manual (ITA/ENG)



Capacità di foratura
con frese a carotare Ø 12÷36 mm
Drilling capacity with core drills
Ø 12÷36 mm

WELDON



SHORT SERIE

L max = 63mm

Capacità di foratura
con punte elicoidali Ø 1÷14 mm
Drilling capacity with twist drills
Ø 1÷14 mm

WELDON



SHORT SERIE

Capacità di svasatura Ø 10÷40 mm
Countersinking capacity
Ø 10÷40 mm

WELDON



PURE-50

TRAPANO CON BASE MAGNETICA PER FRESE A CAROTARE FINO A Ø 50 MM, DUE VELOCITÀ

Magnetic base drill for core drills up to ø 50 mm, two speeds

28011201 220 V

28011208 110 V






50 mm


20 mm


50 mm


2 VELOCITÀ
2 Speed



13,5 Kg


1200 W



1600 Kg


170 mm

CAPACITÀ DI FORATURA / *DRILLING CAPACITY*	
FRESE A CAROTARE / *Core drills*	Ø 1÷50 mm
PUNTE ELICOIDALI / *Twist drills*	Ø 1÷20 mm
SVASATORI / *Countersink*	Ø 10÷50 mm
MASCHI / *Taps*	-
MANDRINO / *CHUCK*	
ATTACCO FRESE / *Core drill shank*	Weldon
ATTACCO / *Machine connection*	-
MAGNETE / *MAGNET*	
DIMENSIONI / *Dimensions*	168x84x49 mm
FORZA DI ADESIONE / *Holding force*	1600 Kg
SPESSORE MIN. PER ADERENZA MAGNETE *Min. Thickness for magnet adhesion*	6 mm
MOTORE / *MOTOR*	
POTENZA MOTORE / *Motor power*	1200 W
VELOCITÀ A VUOTO / *No-load speed*	380/690 rpm
VELOCITÀ SOTTO CARICO / *Loaded speed*	235/425 rpm
POTENZA / *POWER*	
ALIMENTAZIONE / *Power Supply*	220/240 V - 50/60 Hz (28011201) 110/120 V - 60 Hz (28011208)
POTENZA TOTALE (MOTORE+MAGNETE) *Total Power (motor+magnet)*	1250 W
DIMENSIONI TRAPANO / *MAGNETIC DRILL DIMENSIONS*	
ALTEZZA (MIN-MAX) / *Height (min-max)*	380-550 mm
LUNGHEZZA / *Length*	320 mm
LARGHEZZA / *Width*	210 mm
CORSA / *Stroke*	170 mm
PESO / *Weight*	13,5 Kg
FUNZIONI / *FUNCTIONS*	
VARIATORE DI VELOCITÀ / *Variable speed drive*	-
N° VELOCITÀ / *Number of speeds*	2
INVERSIONE DI ROTAZIONE / *Reverse rotation*	-
SISTEMA DI LUBRIFICAZIONE / *Lubrication system*	✓

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
1 x protezione di sicurezza
1 x maniglia a cricchetto
1 x chiave esagonale da 3 mm
1 x cinghia di sicurezza
1 x sistema di lubrificazione
1 x manuale d'uso (ITA/ENG)

Box content:
1 x magnetic base drill
1 x safety guard
1 x ratcheting handle
1 x 3 mm hex key
1 x safety strap
1 x lubrication system
1 x user manual (ITA/ENG)

Capacità di foratura
con frese a carotare Ø 1÷50 mm
Drilling capacity with core drills
Ø 1÷40 mm

Capacità di foratura
con punte elicoidali Ø 1÷20 mm
Drilling capacity with twist drills
Ø 1÷20 mm

Capacità di svasatura Ø 10÷50 mm
Countersinking capacity
Ø 10÷50 mm

WELDON



Art. **28015004**
Adattatore 1/2 UNF
Adapter 1/2 UNF

WELDON



Art. **28015001**
Adattatore Weldon/Quick-in
Weldon/Quick-in adapter



Mandrino
attacco 1/2 x 20 UNF
1/2 x 20 UNF Chuck

WELDON



SHORT SERIE
LONG SERIE

QUICK-IN



SHORT SERIE
LONG SERIE

WELDON



SHORT SERIE
LONG SERIE

CILINDRICO



CILINDRICO



Per diametri ≥ 8mm usare serie corta din 1897
For diameters ≥ 8 mm, use the short series DIN 1897

WELDON



PURE-35

TRAPANO CON BASE MAGNETICA PER FRESE A CAROTARE FINO A Ø 35 MM

Magnetic base drill for core drills up to ø 35 mm

28011200 220 V

28011207 110 V



35 mm | 13 mm | 35 mm

8,5 Kg | 850 W | 1000 Kg | 90 mm

CAPACITÀ DI FORATURA / *DRILLING CAPACITY*	
FRESE A CAROTARE / *Core drills*	Ø 12÷35 mm
PUNTE ELICOIDALI / *Twist drills*	Ø 1÷13 mm
SVASATORI / *Countersink*	Ø 10÷35 mm
MASCHI / *Taps*	-
MANDRINO / *CHUCK*	
ATTACCO FRESE / *Core drill shank*	Weldon
ATTACCO / *Machine connection*	-
MAGNETE / *MAGNET*	
DIMENSIONI / *Dimensions*	160x80x37 mm
FORZA DI ADESIONE / *Holding force*	1000 Kg
SPESSORE MIN. PER ADERENZA MAGNETE *Min. Thickness for magnet adhesion*	6 mm
MOTORE / *MOTOR*	
POTENZA MOTORE / *Motor power*	**850 W**
VELOCITÀ A VUOTO / *No-load speed*	**750 rpm**
VELOCITÀ SOTTO CARICO / *Loaded speed*	**400 rpm**
POTENZA / *POWER*	
ALIMENTAZIONE / *Power Supply*	220/240 V - 50/60 Hz (28011200) 110/120 V - 60 Hz (28011207)
POTENZA TOTALE (MOTORE+MAGNETE) *Total Power (motor+magnet)*	900 W
DIMENSIONI TRAPANO / *MAGNETIC DRILL DIMENSIONS*	
ALTEZZA (MIN-MAX) / *Height (min-max)*	293-383 mm
LUNGHEZZA / *Length*	265 mm
LARGHEZZA / *Width*	175 mm
CORSA / *Stroke*	90 mm
PESO / *Weight*	8,5 Kg
FUNZIONI / *FUNCTIONS*	
VARIATORE DI VELOCITÀ / *Variable speed drive*	-
N° VELOCITÀ / *Number of speeds*	1
INVERSIONE DI ROTAZIONE / *Reverse rotation*	-
SISTEMA DI LUBRIFICAZIONE / *Lubrication system*	✓

CONTENUTO DELLA CONFEZIONE:
1 x trapano a base magnetica
1 x protezione di sicurezza
1 x maniglia a cricchetto
1 x chiave esagonale da 3 mm
1 x cinghia di sicurezza
1 x sistema di lubrificazione
1 x manuale d'uso (ITA/ENG)

Box content:
1 x magnetic base drill
1 x safety guard
1 x ratcheting handle
1 x 3 mm hex key
1 x safety strap
1 x lubrication system
1 x user manual (ITA/ENG)



Capacità di foratura
con frese a carotare Ø 12÷35 mm
Drilling capacity with core drills
Ø 12÷35 mm

Capacità di foratura
con punte elicoidali Ø 1÷13 mm
Drilling capacity with twist drills
Ø 1÷13 mm

Capacità di svasatura Ø 10÷35 mm
Countersinking capacity
Ø 10÷35 mm

WELDON



Art. **28015001**
Adattatore Weldon/Quick-in
Weldon/Quick-in adapter

WELDON



SHORT SERIE

LONG SERIE

QUICK-IN



SHORT SERIE

LONG SERIE

WELDON



SHORT SERIE

LONG SERIE

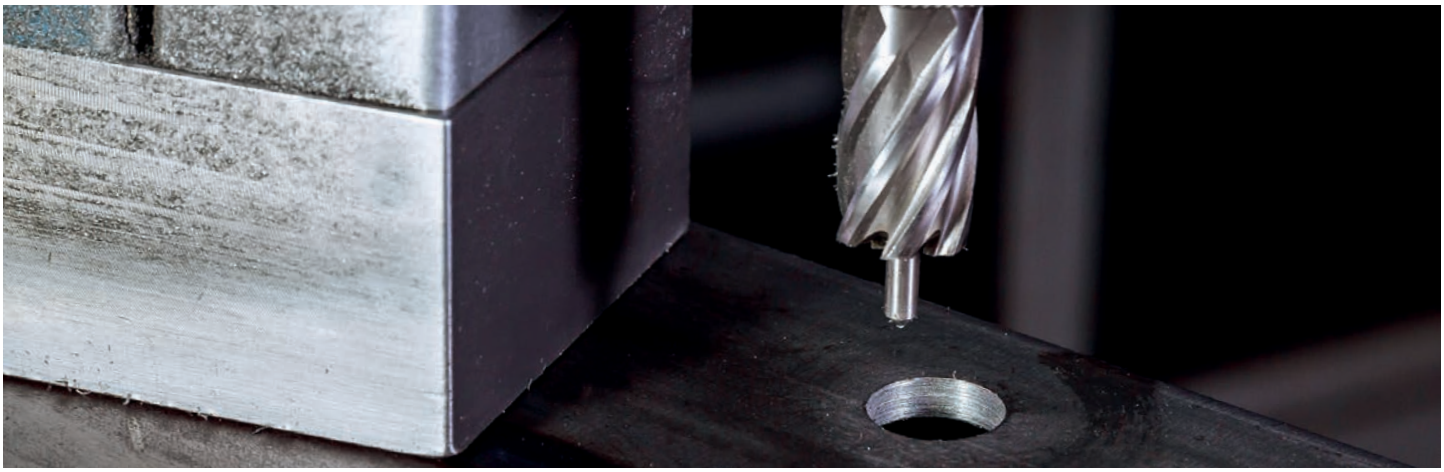
WELDON



VISIONE D'INSIEME: FRESE A CAROTARE

EN *Overview: Core drills*
FR *Aperçu: Fraises à carotter*
ESP *Visión general: Brocas corona*
PT *Visão geral: Cortadores anulares*

MATERIALE *Material*	SPESSORE LAVORABILE *Workable thickness*	SERIE *Series*	ATTACCO *SHANK*	UNITÀ DI MISURA *System*	IMMAGINE *Image*	HARDOX 400 *Hardox 400*	INOX *Stainless steel*	ACCIAIO <1200 N/mm² *Steel*	ACCIAIO <800 N/mm² *Steel*	LAMIERE *Sheet metal*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium/alloys*	CODICE FAMIGLIA *Family code*
TCT	50 mm	LONG SERIE	WELDON	METRICA *Metric*		✓	✓	✓	✓	✓	✓	✓	21217
	2"	LONG SERIE	WELDON	IMPERIALE *Imperial*		✓	✓	✓	✓	✓	✓	✓	21219
	50 mm	LONG SERIE	QUICK-IN	METRICA *Metric*		✓	✓	✓	✓	✓	✓	✓	21212
	35 mm	SHORT SERIE	WELDON	METRICA *Metric*		✓	✓	✓	✓	✓	✓	✓	21215
HSS-CO 5%	50 mm	LONG SERIE	WELDON	METRICA *Metric*			✓	✓	✓	✓	✓	✓	21207
	50 mm	LONG SERIE	QUICK-IN	METRICA *Metric*			✓	✓	✓	✓	✓	✓	21211
	30 mm	SHORT SERIE	WELDON	METRICA *Metric*			✓	✓	✓	✓	✓	✓	21206
HSS M2	50 mm	LONG SERIE	WELDON	METRICA *Metric*					✓	✓	✓	✓	21202
	2"	LONG SERIE	WELDON	IMPERIALE *Imperial*					✓	✓	✓	✓	21201
	30 mm	SHORT SERIE	WELDON	METRICA *Metric*					✓	✓	✓	✓	21200
	1"	SHORT SERIE	WELDON	IMPERIALE *Imperial*					✓	✓	✓	✓	21199
	30 mm	SHORT SERIE	QUICK-IN	METRICA *Metric*					✓	✓	✓	✓	21213

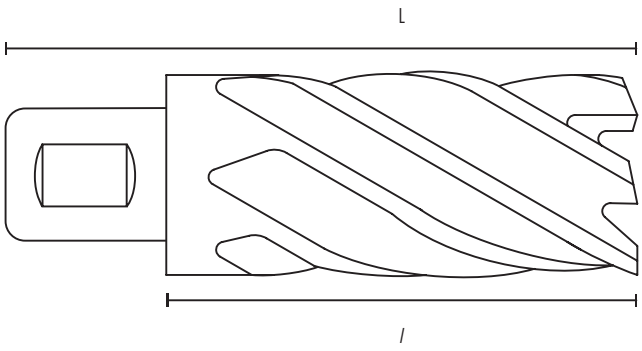


FRESE A CAROTARE - DISEGNI TECNICI

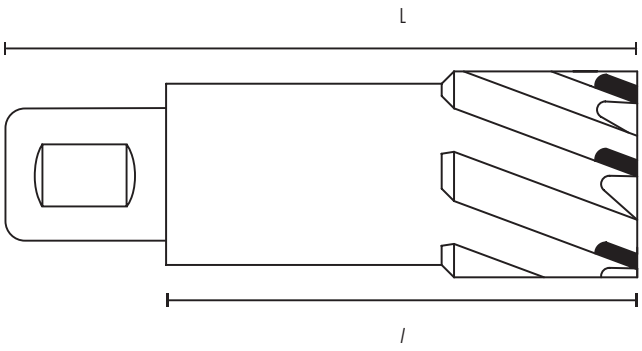
EN *Core drills - Technical drawings*
FR *Fraises à carotter - Dessins techniques*
ESP *Brocas corona - Planos técnicos*
PT *Cortadores anulares - Desenhos técnicos*

HSS-CO 5%

HSS M2



TCT



SHORT SERIE

CODICE *Code*	MATERIALE *Material*	ATTACCO *Shank*	UNITÀ DI MISURA *System*	*l*	L
21215	TCT	WELDON	METRICA *Metric*	42,5 mm	74,5 mm
21206	HSS-CO 5%	WELDON	METRICA *Metric*	40 mm	63 mm
21200	HSS M2	WELDON	METRICA *Metric*	40 mm	63 mm
21213	HSS M2	QUICK-IN	METRICA *Metric*	37 mm	60 mm
21199	HSS M2	WELDON	IMPERIALE *Imperial*	1-17/32”	2-7/16”

LONG SERIE

CODICE *Code*	MATERIALE *Material*	ATTACCO *Shank*	UNITÀ DI MISURA *System*	*l*	L
21217	TCT	WELDON	METRICA *Metric*	61 mm	93 mm
21212	TCT	QUICK-IN	METRICA *Metric*	67 mm	90 mm
21219	TCT	WELDON	IMPERIALE *Imperial*	2-13/32”	3-21/32”
21207	HSS-CO 5%	WELDON	METRICA *Metric*	60 mm	83 mm
21211	HSS-CO 5%	QUICK-IN	METRICA *Metric*	67 mm	90 mm
21202	HSS M2	WELDON	METRICA *Metric*	60 mm	83 mm
21201	HSS M2	WELDON	IMPERIALE *Imperial*	2-5/32”	3-3/8”

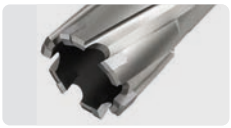
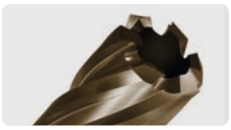
GAMMA FRESE A CAROTARE, SERIE CORTA

EN *Core drills range, short serie*
FR *Gamme de fraises à carotter, série courte*
ESP *Gama de Brocas corona, serie corta*
PT *Gama de Cortadores anulares, série corta*

SHORT SERIE

SPESSORE LAVORABILE MASSIMO: 30-35 mm (1")

MAX WORKABLE THICKNESS: 30-35 mm (1")

		TCT		HSS-CO 5%		HSS M2			
									
		METRICA *Metric*		METRICA *Metric*		METRICA *Metric*		IMPERIALI *Imperial*	
		WELDON		WELDON		WELDON	QUICK-IN	WELDON	
Ø		21215	cad/each €	21206	cad/each €	21200	21213	21199	cad/each €
12 mm	7/16"	21215**1200**	consultare	21206**1200**	consultare	21200**1200**	21213**1200**	21199**12**	consultare
13 mm	1/2"	21215**1300**	listino	21206**1300**	listino	21200**1300**	21213**1300**	21199**13**	listino
14 mm	9/16"	21215**1400**	*see price list*	21206**1400**	*see price list*	21200**1400**	21213**1400**	21199**14**	*see price list*
15 mm		21215**1500**		21206**1500**		21200**1500**	21213**1500**		
16 mm	5/8"	21215**1600**		21206**1600**		21200**1600**	21213**1600**	21199**16**	
17 mm	11/16"	21215**1700**		21206**1700**		21200**1700**	21213**1700**	21199**17**	
18 mm		21215**1800**		21206**1800**		21200**1800**	21213**1800**		
19 mm	3/4"	21215**1900**		21206**1900**		21200**1900**	21213**1900**	21199**19**	
20 mm		21215**2000**		21206**2000**		21200**2000**	21213**2000**		
21 mm	13/16"	21215**2100**		21206**2100**		21200**2100**	21213**2100**	21199**21**	
22 mm	7/8"	21215**2200**		21206**2200**		21200**2200**	21213**2200**	21199**22**	
23 mm		21215**2300**				21200**2300**	21213**2300**		
24 mm	15/16"	21215**2400**				21200**2400**	21213**2400**	21199**24**	
25 mm	1"	21215**2500**				21200**2500**	21213**2500**	21199**25**	
26 mm		21215**2600**				21200**2600**	21213**2600**		
27 mm	1-1/16"	21215**2700**				21200**2700**	21213**2700**	21199**27**	
28 mm		21215**2800**				21200**2800**	21213**2800**		
29 mm	1-1/8"	21215**2900**				21200**2900**	21213**2900**	21199**29**	
30 mm	1-3/16"	21215**3000**				21200**3000**	21213**3000**	21199**30**	
31 mm		21215**3100**				21200**3100**	21213**3100**		
32 mm	1-1/4"	21215**3200**				21200**3200**	21213**3200**	21199**32**	
33 mm	1-5/16"	21215**3300**				21200**3300**	21213**3300**	21199**33**	
34 mm		21215**3400**				21200**3400**	21213**3400**		
35 mm	1-3/8"	21215**3500**				21200**3500**	21213**3500**	21199**35**	
36 mm		21215**3600**				21200**3600**	21213**3600**		
37 mm	1-7/16"	21215**3700**				21200**3700**	21213**3700**	21199**37**	
38 mm	1-1/2"	21215**3800**				21200**3800**	21213**3800**	21199**38**	
39 mm		21215**3900**				21200**3900**	21213**3900**		
40 mm	1-9/16"	21215**4000**				21200**4000**	21213**4000**		
41 mm	1-5/8"	21215**4100**				21200**4100**			
42 mm		21215**4200**				21200**4200**			
43 mm	1-11/16"	21215**4300**				21200**4300**			
44 mm	1-3/4"	21215**4400**				21200**4400**		21199**44**	
45 mm		21215**4500**				21200**4500**	21213**4500**		
46 mm	1-13/16"	21215**4600**				21200**4600**			
47 mm		21215**4700**				21200**4700**			
48 mm	1-7/8"	21215**4800**				21200**4800**			
49 mm	1-15/16"	21215**4900**				21200**4900**			
50 mm		21215**5000**				21200**5000**	21213**5000**		
51 mm	2"	21215**5100**				21200**5100**		21199**51**	
52 mm	2-1/16"	21215**5200**				21200**5200**			
53 mm		21215**5300**				21200**5300**			
54 mm	2-1/8"	21215**5400**				21200**5400**			
55 mm		21215**5500**				21200**5500**			
56 mm	2-3/16"	21215**5600**							
57 mm	2-1/4"	21215**5700**							
58 mm		21215**5800**							
59 mm	2-5/16"	21215**5900**							
60 mm	2-3/8"	21215**6000**				21200**6000**			

GAMMA FRESE A CAROTARE, SERIE LUNGA

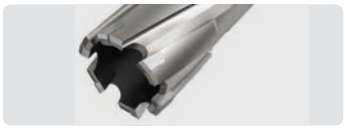
EN *Core drills range, long serie*
FR *Gamme de fraises à carotter, série longue*
ESP *Gama de Brocas corona, serie larga*
PT *Gama de Cortadores anulares, série longa*

LONG SERIE

SPESSORE LAVORABILE MASSIMO:
50 mm
(2")

MAX WORKABLE THICKNESS:
50 mm
(2")

TCT



METRICA *Metric* — WELDON | QUICK-IN
IMPERIALI *Imperial* — WELDON

HSS-CO 5%



METRICA *Metric* — WELDON | QUICK-IN

HSS M2



METRICA *Metric* — WELDON
IMPERIALE *Imperial* — WELDON

Ø		TCT 21217	TCT 21212	TCT 21219	cad/each €	HSS-CO 5% 21207	HSS-CO 5% 21211	cad/each €	HSS M2 21202	HSS M2 21201	cad/each €
12 mm	7/16"	21217**1200**	21212**1200**	21219**12**	consultare	21207**1200**	21211**01200**	consultare	21202**1200**	21201**12**	consultare
13 mm	1/2"	21217**1300**	21212**1300**		listino	21207**1300**	21211**01300**	listino	21202**1300**	21201**13**	listino
14 mm	9/16"	21217**1400**	21212**1400**	21219**14**	*see price list*	21207**1400**	21211**01400**	*see price list*	21202**1400**	21201**14**	*see price list*
15 mm		21217**1500**	21212**1500**			21207**1500**	21211**01500**		21202**1500**		
16 mm	5/8"	21217**1600**	21212**1600**	21219**16**		21207**1600**	21211**01600**		21202**1600**	21201**16**	
17 mm	11/16"	21217**1700**	21212**1700**	21219**17**		21207**1700**	21211**01700**		21202**1700**	21201**17**	
18 mm		21217**1800**	21212**1800**			21207**1800**	21211**01800**		21202**1800**		
19 mm	3/4"	21217**1900**	21212**1900**	21219**19**		21207**1900**	21211**01900**		21202**1900**	21201**19**	
20 mm		21217**2000**	21212**2000**			21207**2000**	21211**02000**		21202**2000**		
21 mm	13/16"	21217**2100**	21212**2100**	21219**21**		21207**2100**	21211**02100**		21202**2100**	21201**21**	
22 mm	7/8"	21217**2200**	21212**2200**	21219**22**		21207**2200**	21211**02200**		21202**2200**	21201**22**	
23 mm		21217**2300**	21212**2300**						21202**2300**		
24 mm	15/16"	21217**2400**	21212**2400**	21219**24**					21202**2400**	21201**24**	
25 mm	1"	21217**2500**	21212**2500**	21219**25**					21202**2500**	21201**25**	
26 mm		21217**2600**	21212**2600**						21202**2600**		
27 mm	1-1/16"	21217**2700**	21212**2700**	21219**27**					21202**2700**	21201**27**	
28 mm		21217**2800**	21212**2800**						21202**2800**		
29 mm	1-1/8"	21217**2900**	21212**2900**	21219**29**					21202**2900**	21201**29**	
30 mm	1-3/16"	21217**3000**	21212**3000**	21219**30**					21202**3000**	21201**30**	
31 mm		21217**3100**	21212**3100**						21202**3100**		
32 mm	1-1/4"	21217**3200**	21212**3200**	21219**32**					21202**3200**	21201**32**	
33 mm	1-5/16"	21217**3300**	21212**3300**	21219**33**					21202**3300**	21201**33**	
34 mm		21217**3400**	21212**3400**						21202**3400**		
35 mm	1-3/8"	21217**3500**	21212**3500**	21219**35**					21202**3500**	21201**35**	
36 mm		21217**3600**	21212**3600**						21202**3600**		
37 mm	1-7/16"	21217**3700**	21212**3700**	21219**37**					21202**3700**	21201**37**	
38 mm	1-1/2"	21217**3800**	21212**3800**	21219**38**					21202**3800**	21201**38**	
39 mm		21217**3900**	21212**3900**						21202**3900**		
40 mm	1-9/16"	21217**4000**	21212**4000**	21219**40**					21202**4000**	21201**40**	
41 mm	1-5/8"	21217**4100**	21212**4100**	21219**41**					21202**4100**	21201**41**	
42 mm		21217**4200**	21212**4200**						21202**4200**		
43 mm	1-11/16"	21217**4300**	21212**4300**	21219**43**					21202**4300**	21201**43**	
44 mm	1-3/4"	21217**4400**	21212**4400**	21219**44**					21202**4400**	21201**44**	
45 mm		21217**4500**	21212**4500**						21202**4500**		
46 mm	1-13/16"	21217**4600**	21212**4600**	21219**46**					21202**4600**	21201**46**	
47 mm		21217**4700**	21212**4700**						21202**4700**		
48 mm	1-7/8"	21217**4800**	21212**4800**	21219**48**					21202**4800**	21201**48**	
49 mm	1-15/16"	21217**4900**	21212**4900**	21219**49**					21202**4900**	21201**49**	
50 mm		21217**5000**	21212**5000**						21202**5000**		
51 mm	2"	21217**5100**		21219**51**					21202**5100**	21201**51**	
52 mm	2-1/16"	21217**5200**		21219**52**					21202**5200**	21201**52**	
53 mm		21217**5300**							21202**5300**		
54 mm	2-1/8"	21217**5400**		21219**54**					21202**5400**	21201**54**	
55 mm		21217**5500**	21212**5500**						21202**5500**		
56 mm	2-3/16"	21217**5600**		21219**56**						21201**56**	
57 mm	2-1/4"	21217**5700**		21219**57**						21201**57**	
58 mm		21217**5800**									
59 mm	2-5/16"	21217**5900**		21219**59**						21201**59**	
60 mm	2-3/8"	21217**6000**	21212**6000**	21219**60**					21202**6000**	21201**60**	

FRESE A CAROTARE CON DENTI IN METALLO DURO, ATTACCO WELDON

EN *Weldon shank carbide tip core drill for magnetic drilling machines*
FR *Fraises à carotter au carbure de tungstène avec Weldon queue*
ESP *Fresas con dientes de metal duro y vastago Weldon*
PT *Broca de núcleo com ponta de carboneto com veio weldon*

21218 | **TCT**

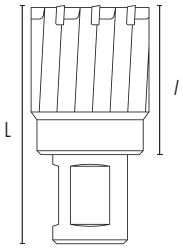
WELDON

SPESSORE LAVORABILE MASSIMO: 25 mm

Max workable thickness: 25 mm



Confezione
Packaging



SPECIALE ROTAIE
Special for rails

Ø mm	L mm	l mm	pcs.	cod.	cad/each €
19	60	37	1	**21218**1900	consultare
20	60	37	1	**21218**2000	listino
21	60	37	1	**21218**2100	*see price list*
22	60	37	1	**21218**2200	
23	60	37	1	**21218**2300	
24	60	37	1	**21218**2400	
25	60	37	1	**21218**2500	
26	60	37	1	**21218**2600	
26,5	60	37	1	**21218**2650	
27	60	37	1	**21218**2700	
27,5	60	37	1	**21218**2750	
28	60	37	1	**21218**2800	
29	60	37	1	**21218**2900	
30	60	37	1	**21218**3000	
31	60	37	1	**21218**3100	
32	60	37	1	**21218**3200	
33	60	37	1	**21218**3300	
34	60	37	1	**21218**3400	
35	60	37	1	**21218**3500	
36	60	37	1	**21218**3600	

ESPULSORE COMPATIBILE
Compatible ejector pin



Ø mm	cod.	cad/each €
Ø 8 x 90	**21218**000	consultare listino *see price list*



R ≤ 1200 N/mm²

- Hardox Weldox 400
- Inox *Stainless*
- Acciaio *Steel*
- Leghe leggere *Light alloys*
- Alluminio *Aluminum*

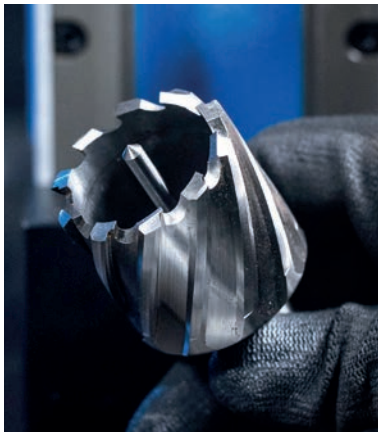
Emulsione
Lubrificant

ESPULSORI

EN *Ejector*
FR *Ejecteurs*
ESP *Expulsores*
PT *Ejetor*

28016
21218





Ø mm	L mm	cod.	cad/each €
6,35	77	**28016**001	consultare
6,35	102	**28016**002	listino
6,35	123	**28016**003	*see price list*
6,34	90	**28016**004	
6,34	106	**28016**005	
7,98	90	**28016**006	
7,98	108	**28016**007	
6,34	116	**28016**008	
8	90	**21218**000	

INDIVIDUA L'ESPULSORE ADATTO IN BASE ALLA TIPOLOGIA E AL DIAMETRO DELLA TUA FRESA KRINO

EN *Find the right ejector pin based on your Krino core drill type and diameter*
FR *Identifiez le bon éjecteur en fonction du type et du diamètre de votre fraise Krino*
ESP *Identifica el expulsor adecuado según el tipo y el diámetro de tu fresa Krino*
PT *Escolha o expulsor adequado de acordo com o tipo e o diâmetro da sua fresa krino*

SHORT SERIE

TCT		HSS-CO 5%	HSS M2				
METRICA *Metric*		METRICA *Metric*	METRICA *Metric*		IMPERIALE *Imperial*		
WELDON		WELDON	WELDON	QUICK-IN	WELDON		
21215		**21206**	**21200**	**21213**	**21199**	CODICE ESPULSORE *ejector code*	DIMENSIONI *Dimensions*
		12÷22 mm	12÷60 mm	12÷50 mm	7/16÷2"	**28016**001	6,35x77 mm
12÷17 mm						**28016**004	6,34x90 mm
18÷60 mm						**28016**006	7,98x90 mm

LONG SERIE

TCT			HSS-CO 5%		HSS M2			
METRICA *Metric*		IMPERIALE *Imperial*	METRICA *Metric*		METRICA *Metric*	IMPERIALE *Imperial*		
WELDON	QUICK-IN	WELDON	WELDON	QUICK-IN	WELDON			
21217	**21212**	**21219**	**21207**	**21211**	**21202**	**21201**	CODICE ESPULSORE *ejector code*	DIMENSIONI *Dimensions*
	12÷60mm		12÷22 mm	12÷22 mm	12÷60 mm	7/16"÷2-3/8"	**28016**002	6,35x102 mm
12÷17 mm		7/16"÷5/8"					**28016**005	6,34x106 mm
18÷60 mm		11/16"÷2-3/8"					**28016**007	7,98x108 mm

ASSORTIMENTI FRESE A CAROTARE IN VALIGETTA

EN *Core drill sets*
FR *Assortiments fraises à carotter*
ESP *Juegos de Fresas*
PT *Conjuntos de Broca de núcleo*

TCT | SHORT SERIE





METRIC SERIE

WELDON

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	14 - 14 - 18 - 18 - 22 - 22	21210416	consultare
6	12 - 14 - 16 - 18 - 20 - 22	21210417	listino
5	24 - 26 - 28 - 30 - 32	21210418	*see price list*

TCT | LONG SERIE





METRIC SERIE

WELDON

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	14 - 14 - 18 - 18 - 22 - 22	21210419	consultare
6	12 - 14 - 16 - 18 - 20 - 22	21210420	listino
5	24 - 26 - 28 - 30 - 32	21210421	*see price list*

QUICK-IN

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	14 - 14 - 18 - 18 - 22 - 22	21210433	consultare
6	12 - 14 - 16 - 18 - 20 - 22	21210434	listino
5	24 - 26 - 28 - 30 - 32	21210435	*see price list*

INCHES SERIE

WELDON

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø inches	cod.	cad/each €
5	13/16, 13/16, 15/16, 15/16, 1-1/16	21210442	consultare
5	5/8, 11/16, 3/4, 13/16, 1-1/16	21210443	listino

see price list

DIMENSIONI VALIGETTA: LxPxH: 197x167x35 mm - 1 o 2 espulsori inclusi a seconda dell'assortimento
CASE DIMENSIONS: LxWxH: 197x167x35 mm - 1 or 2 ejectors included, depending on the set

ASSORTIMENTI FRESE A CAROTARE IN VALIGETTA

EN *Core drill sets*
FR *Assortiments fraises à carotter*
ESP *Juegos de Fresas*
PT *Conjuntos de Broca de núcleo*

HSS-CO 5% SHORT SERIE





METRIC SERIE

WELDON

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	14 - 14 - 18 - 18 - 22 - 22	**21210**453	consultare
6	12 - 14 - 16 - 18 - 20 - 22	**21210**454	listino

see price list

HSS-CO 5% LONG SERIE





METRIC SERIE

WELDON

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	14 - 14 - 18 - 18 - 22 - 22	**21210**455	consultare
6	12 - 14 - 16 - 18 - 20 - 22	**21210**456	listino

see price list

QUICK-IN

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	14 - 14 - 18 - 18 - 22 - 22	**21210**458	consultare
6	12 - 14 - 16 - 18 - 20 - 22	**21210**459	listino

see price list

DIMENSIONI VALIGETTA: LxPxH: 197x167x35 mm - 1 o 2 espulsori inclusi a seconda dell'assortimento
CASE DIMENSIONS: LxWxH: 197x167x35 mm - 1 or 2 ejectors included, depending on the set

ASSORTIMENTI FRESE A CAROTARE IN VALIGETTA

EN *Core drill sets*
FR *Assortiments fraises à carotter*
ESP *Juegos de Fresas*
PT *Conjuntos de Broca de núcleo*

HSS M2 SHORT SERIE





METRIC SERIE

WELDON	pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
	6	14 - 14 - 18 - 18 - 22 - 22	21210410	consultare
	6	12 - 14 - 16 - 18 - 20 - 22	21210411	listino
	5	24 - 26 - 28 - 30 - 32	21210412	*see price list*

QUICK-IN	pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
	6	14 - 14 - 18 - 18 - 22 - 22	21210430	consultare
	6	12 - 14 - 16 - 18 - 20 - 22	21210431	listino
	5	24 - 26 - 28 - 30 - 32	21210432	*see price list*

INCHES SERIE

WELDON	pcs./valigetta *pcs./case*	Composizione / *Composition* Ø inches	cod.	cad/each €
	5	13/16, 13/16, 15/16, 15/16, 1-1/16	21210438	consultare
	5	5/8, 11/16, 3/4, 13/16, 1-1/16	21210439	listino

see price list

HSS M2 LONG SERIE





METRIC SERIE

WELDON	pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
	6	14 - 14 - 18 - 18 - 22 - 22	21210413	consultare
	6	12 - 14 - 16 - 18 - 20 - 22	21210414	listino
	5	24 - 26 - 28 - 30 - 32	21210415	*see price list*

INCHES SERIE

WELDON	pcs./valigetta *pcs./case*	Composizione / *Composition* Ø inches	cod.	cad/each €
	5	13/16, 13/16, 15/16, 15/16, 1-1/16	21210440	consultare
	5	5/8, 11/16, 3/4, 13/16, 1-1/16	21210441	listino

see price list

DIMENSIONI VALIGETTA: LxPxH: 197x167x35 mm - 1 o 2 espulsori inclusi a seconda dell'assortimento
CASE DIMENSIONS: LxWxH: 197x167x35 mm - 1 or 2 ejectors included, depending on the set

ASSORTIMENTI FRESE A CAROTARE IN RIPIANI

EN *Core drill sets*
FR *Assortiments fraises à carotter*
ESP *Juegos de Fresas*
PT *Conjuntos de Broca de núcleo*

TCT



SHORT SERIE | WELDON

Art. 21210303

16 pcs.

composizione
Composition
Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 28 - 30 - 32 - 35 mm



LONG SERIE | WELDON

Art. 21210304

16 pcs.

composizione
Composition
Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 28 - 30 - 32 - 35 mm



LONG SERIE | QUICK-IN

Art. 21210310

16 pcs.

composizione
Composition
Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 28 - 30 - 32 - 35 mm

HSS M2



SHORT SERIE | WELDON

Art. 21210300

16 pcs.

composizione
Composition
Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 28 - 30 - 32 - 35 mm



SHORT SERIE | QUICK-IN

Art. 21210311

16 pcs.

composizione
Composition
Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 28 - 30 - 32 - 35 mm



LONG SERIE | WELDON

Art. 21210302

16 pcs.

composizione
Composition
Ø 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22
23 - 24 - 25 - 28 - 30 - 32 - 35 mm

DIMENSIONI RIPIANO: LxPxH: 23x13x2,5 cm
CASE SHOWCASE: LxWxH: 23x13x2,5 Cm

PUNTE ELICOIDALI ATTACCO WELDON

EN *Straight shank twist drills, Weldon shank*
FR *Forets cylindriques Weldon queue*
ESP *Brocas helicoidales vastago Weldon*
PT *Brocas helicoidais com veio weldon*

21203
21220

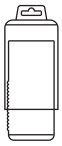
HSS M2

135° 27° N
H8

SHORT SERIE

WELDON





Confezione
Packaging

R ≤ 850 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

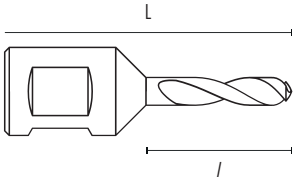
SERIE CORTA
Short serie

METRIC SERIE

H8 Ø mm	L mm	l mm	pcs.	cod.	cad/each €
6	62	30	1	**21203**0600	consultare
7	62	30	1	**21203**0700	listino
8	62	30	1	**21203**0800	*see price list*
9	62	30	1	**21203**0900	
10	62	30	1	**21203**1000	
11	62	30	1	**21203**1100	

INCHES SERIE

H8 Ø inches	L inches	l inches	pcs.	cod.	cad/each €
1/4	2-7/16	1	1	**21220**26	consultare
5/16	2-7/16	1	1	**21220**30	listino
3/8	2-7/16	1	1	**21220**34	*see price list*



21208
21221

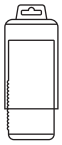
HSS M2

135° 27° N
H8

LONG SERIE

WELDON





Confezione
Packaging

R ≤ 850 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

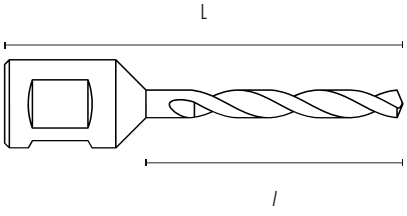
SERIE LUNGA
Long serie

METRIC SERIE

H8 Ø mm	L mm	l mm	pcs.	cod.	cad/each €
6	86	50	1	**21208**0600	consultare
7	86	50	1	**21208**0700	listino
8	86	50	1	**21208**0800	*see price list*
9	86	50	1	**21208**0900	
10	86	50	1	**21208**1000	
11	86	50	1	**21208**1100	

INCHES SERIE

H8 Ø inches	L inches	l inches	pcs.	cod.	cad/each €
1/4	3-3/8	2	1	**21221**26	consultare
5/16	3-3/8	2	1	**21221**30	listino
3/8	3-3/8	2	1	**21221**34	*see price list*



ASSORTIMENTI PUNTE ELICOIDALI ATTACCO WELDON

EN *Straight shank twist drills, Weldon shank set*
FR *Assortiments forets cylindriques Weldon queue*
ESP *Juegos de brocas helicoidales vastago Weldon*
PT *Conjuntos de brocas helicoidais com veio weldon*

21210 **HSS M2**



SHORT SERIE | WELDON

METRIC SERIE

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	**6 - 7 -8 - 9 - 10 - 11**	**21210**425	consultare listino *see price list*



LONG SERIE | WELDON

METRIC SERIE

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø mm	cod.	cad/each €
6	**6 - 7 -8 - 9 - 10 - 11**	**21210**426	consultare listino *see price list*



LONG SERIE / SHORT SERIE | WELDON

INCHES SERIE

pcs./valigetta *pcs./case*	Composizione / *Composition* Ø inches	cod.	cad/each €
6 (3+3)	**1/4, 5/16 3/8 (short)** **1/4, 5/16, 3/8" (long)**	**21210**447	consultare listino *see price list*

DIMENSIONI VALIGETTA: LxPxH: 197x167x35 mm - 1 o 2 espulsori inclusi a seconda dell'assortimento
CASE DIMENSIONS: LxWxH: 197x167x35 mm - 1 or 2 ejectors included, depending on the set

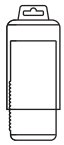
SVASATORI ATTACCO WELDON

EN: *Countersinks with Weldon shank*
ES: *Avellanadores con vástago Weldon*
FR: *Fraises à chanfreiner avec queue Weldon*
PT: *Escareadores com haste Weldon*

21209 **HSS M2**

90° | WELDON



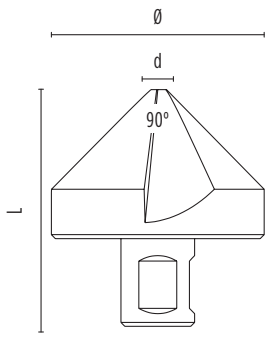


Confezione
Packaging

SERIE CORTA
Short serie

METRIC SERIE

Ø mm	d mm	L mm	pcs.	cod.	cad/each €
25	3,8	45	1	**21209**25	consultare
30	4,2	48	1	**21209**30	listino
40	4,2	58	1	**21209**40	*see price list*
55	4,5	60	1	**21209**55	



R ≤ 850 N/mm²

Metalli
Metals

Acciaio
Steel

Emulsione
Lubrificant

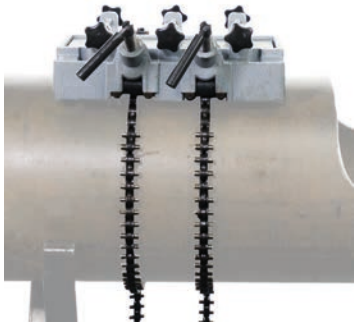
ACCESSORI PER L'UTILIZZO DELLE FRESE A CAROTARE

EN *Accessories for core drills*
FR *Accessoires pour fraises à carotter*
ESP *Accesorios para coronas fresas*
PT *Acessórios para brocas com coroa*

28015

BASE PER FORATURA TUBI

Base for pipe drilling



Dimensioni / *dimension* mm	Peso / *Weight* Kg	pcs.	cod.	cad/each €
286x268x96	12,5	1	**28015**006	consultare listino *see price list*

Base per poter fissare il trapano magnetico su tubi (metallici e non) così da permetterne la foratura in modo rapido e sicuro.
Fornito in valigetta.
- Adatta a tubi con diametro da 50 a 500 mm
- Adatta a tutti i trapani con base magnetica (piano 265x112x14 mm)

Base to secure the magnetic drill on pipes (metallic or not), allowing fast and safe drilling.
Supplied in a case.
- *Suitable for pipes having diameter from 50 to 500 mm*
- *Fits all magnetic base drills (base plate 265x112x14 mm)*

28021

ASTA MAGNETICA RACCOGLITRUCIOLI

Magnetic rod for chip collection



Dimensione / *dimensions* mm	pcs.	cod.	cad/each €
22x400	1	**28021**006	consultare listino *see price list*

- Adatta a raggiungere i punti difficili da ripulire
- Facile sistema per scaricare i trucioli raccolti nel vano degli scart

- *Suitable to reach hard-to-clean areas*
- *Simple system to release chips into the waste bin*

28012

MANDRINO SENZA LUBRIFICAZIONE INTERNA

Chuck without internal lubrication



Cono Morse *morse taper*	L mm	Attacco *Connection*	pcs.	cod.	cad/each €
2	160	Weldon	1	**28012**001	consultare listino
3	175	Weldon	1	**28012**002	*see price list*

ACCESSORI PER L'UTILIZZO DELLE FRESE A CAROTARE

EN *Accessories for core drills*
FR *Accessoires pour fraises à carotter*
ESP *Accesorios para coronas fresas*
PT *Acessórios para brocas com coroa*

28013

MANDRINO CON LUBRIFICAZIONE INTERNA

Chuck with internal lubrication



Cono Morse *morse taper*	L mm	Attacco *Connection*	 pcs.	cod.	cad/each €
2	160	Weldon	1	**28013**003	consultare listino
3	160	Weldon	1	**28013**004	*see price list*

28014

MANDRINO CON LUBRIFICAZIONE INTERNA E ATTACCO RAPIDO WELDON

Chuck with internal lubrication and quick weldon coupling



Cono Morse *morse taper*	L mm	Attacco *Connection*	 pcs.	cod.	cad/each €
2	160	Weldon	1	**28014**005	consultare listino *see price list*

ACCESSORI PER L'UTILIZZO DELLE FRESE A CAROTARE

EN *Accessories for core drills*
FR *Accessoires pour fraises à carotter*
ESP *Accesorios para coronas fresas*
PT *Acessórios para brocas com coroa*

28015 ALBERI PORTAMANDRINO E ADATTATORI

Chuck holder arbors and adapters



28015001



28015002



28015004



28015005

Albero *Arbor*	Attacco *Machine connection*	pcs.	cod.	cad/each €
Weldon	Quick-in	1	**28015**001	consultare listino
Quick-in	Weldon	1	**28015**002	*see price list*
Weldon	1/2" UNF	1	**28015**004	
Weldon	B16	1	**28015**005	

28021 PROLUNGHE ALBERI WELDON

Weldon extension arbors



L mm	Ø esterno mm *Outer Ø mm*	Attacco *Machine connection*	pcs.	cod.	cad/each €
50	35	Weldon	1	**28021**001	consultare listino
75	35	Weldon	1	**28021**002	*see price list*

28015 ALBERI PORTAMASCHIO DIN 371/B E DIN 376/B

Tap holder arbors din 371/b e din 376/b



L mm	Ø gambo *Ø Shank* mm	Attacco *Machine connection*	corrispondenza maschio* *Tap matching**	pcs.	cod.	cad/each €
37	6	Weldon	M8	1	**28015**010	consultare listino
37	7	Weldon	M10	1	**28015**011	*see price list*
37	9	Weldon	M12	1	**28015**012	
37	11	Weldon	M14	1	**28015**013	
37	12	Weldon	M16	1	**28015**014	
37	14	Weldon	M18	1	**28015**015	
37	16	Weldon	M20	1	**28015**016	

*La corrispondenza è indicativa dipendendo dal maschio utilizzato
**Matching is approximate as depending on the used tap*

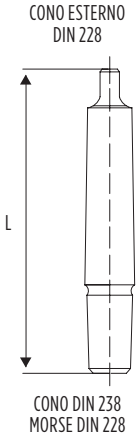
ACCESSORI PER L'UTILIZZO DELLE FRESE A CAROTARE

EN *Accessories for core drills*
FR *Accessoires pour fraises à carotter*
ESP *Accesorios para coronas fresas*
PT *Acessórios para brocas com coroa*

28160

ATTACCHI CONICI MORSE PER MANDRINI, TEMPRATI E RETTIFICATI

Morse taper shanks for chucks, hardened and ground



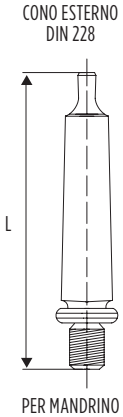


cono morse *morse taper* DIN 228	attacco conico mandrino *drill chuck taper*	L mm	pcs.	cod.	cad/each €
2	B10	105	1	**28160**0210	consultare listino
2	B12	105	1	**28160**0212	*see price list*
2	B16	112	1	**28160**0216	
2	B18	119	1	**28160**0218	

28165

ATTACCHI CONICI MORSE PER MANDRINI, TEMPRATI E RETTIFICATI

Morse taper shanks for chucks, hardened and ground





cono morse *morse taper* DIN 228	attacco mandrino *drill chuck taper*	L mm	pcs.	cod.	cad/each €
2	3/8x24 UNF	95	1	**28165**023/8	consultare listino
2	1/2x20 UNF	110	1	**28165**021/2	*see price list*
2	5/8x16 UNF	135	1	**28165**025/8	



FRESE E SEGHE A TAZZA

Hole saws for metal cutting

Scies trèpans pour la coupe des métaux

Coronas perforadoras

Serras de trépano para corte de metal

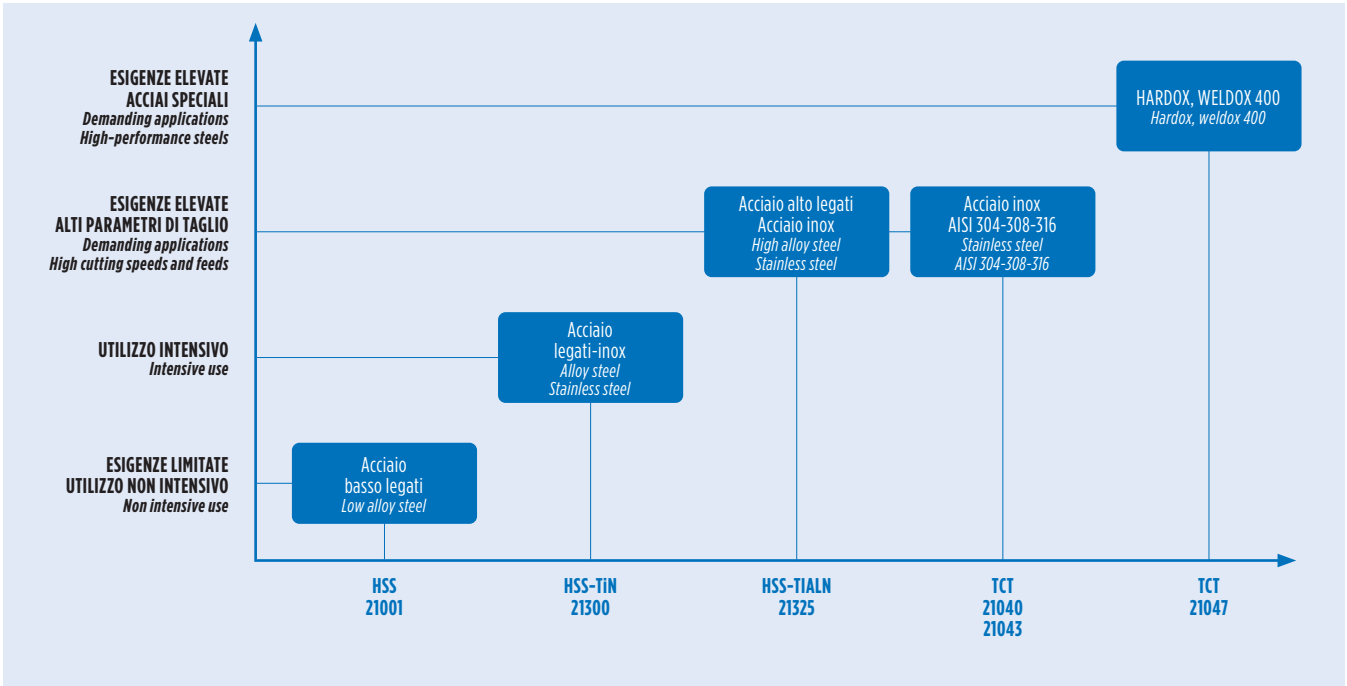
VISIONE D'INSIEME: FRESE E SEGHE A TAZZA

EN *Overview: Hole saws*
FR *Aperçu: Scies trépans*
ESP *Visión general: Coronas perforadoras*
PT *Visão geral: Serras de trépano*

FRESE PERFORATRICI / *Hole saws*

MATERIALE *Material*	SPESSORE LAVORABILE *Material thickness*	ATTACCO / SERIE *Shank / Series*	GAMMA DISPONIBILE (Ø MIN÷ MAX mm) *Range*	IMMAGINE *Image*	ACCIAIO AL MANGANESE *Manganese steel*	HARDOX, WELDOX 400 *Hardox, weldox 400*	INOX *Stainless Steel*	ACCIAIO <1200 N/mm *Steel <1200 N/mm*	ACCIAIO <800 N/mm *Steel <800 N/mm*	LAMIERE *Iron*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium*	LEGNO DURO *Hard wood*	LEGNO DOLCE *Soft wood*	PLASTICA, LAMINATI, CARTONGESSO *PLASTER BOARD*	R≤N/mm²	COD.	
TCT	7 mm	MULTI	20÷100	OPTIMA	●	●	●	●	●	●	●	●			●	1400	21047	190
	5 mm		15÷150			●	●	●	●	●	●	●			●	1300	21040	191
	5 mm		15÷130	TCT			●	●	●	●	●	●			●	1100	21043	192
HSS-G	5 mm		12÷100	TiAlN			●	●	●	●	●	●			●	1300	21325	193
	5 mm		12÷100	TiN			●		●	●	●	●			●	1000	21300	194
	5 mm		10÷120						●	●	●	●			●	800	21001	195

GUIDA ALLA SCELTA DELLA TAZZA
Choosing chart



SEGHE A TAZZA / *Bimetal hole saws*

MATERIALE *Material*	SPESSORE LAVORABILE *Material thickness*	SPECIALITÀ *Features*	GAMMA DISPONIBILE (Ø MIN÷ MAX mm) *Range*	IMMAGINE *Image*	ACCIAIO AL MANGANESE *Manganese steel*	INOX *Stainless Steel*	ACCIAIO <1200 N/mm *Steel <1200 N/mm*	ACCIAIO <800 N/mm *Steel <800 N/mm*	LAMIERE *Iron*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium*	LEGNO DURO *Hard wood*	LEGNO DOLCE *Soft wood*	PLASTICA, LAMINATI, CARTONGESSO *PLASTER BOARD*	MARMO E GRANITO *Marble and granite*	PIASTRELLE *TILES*	MATTONI *Masonry*	R≤N/mm²	COD.	
TCT	4 mm Acciaio *Steel* 20 mm Legno *Wood*	SPECIALE INSTALLAZIONE DEFENDER® *special defender® installation*	51÷57		●	●	●	●	●	●	●	●	●	●		●	●	1200	**21098**	**196**
	4 mm Acciaio *Steel* 20 mm Legno *Wood*	MULTIMATERIALE *multimaterial*	19÷108		●	●	●	●	●	●	●	●	●	●		●	●	1200	**21099**	**197**
	50 mm	PER LEGNO *For wood*	19÷152						●			●	●	●			●	1200	**05078**	**198**
MD	5 mm	PER MATERIALI EDILI *Construction materials*	16÷114						●					●	●	●	●	1200	**21105**	**199**
HSS-CO 8% M42	3 mm Acciaio *Steel* 20 mm Legno *Wood*	-	14÷305			●	●	●	●	●	●	●	●	●				1000	**21090**	**200**
HSS M3	4 mm Acciaio *Steel* 30 mm Legno *Wood*	DENTE RINFORZATO ALTE PRESTAZIONI SISTEMA K-LOCK *Reinforced tooth high performance K-LOCK SYSTEM*	16÷133					●	●	●	●	●	●	●				850	**21058**	**203**
	3 mm Acciaio *Steel* 20 mm Legno *Wood*	-	14÷305					●	●	●	●	●	●	●				800	**21060**	**204**
	3 mm Acciaio *Steel* 20 mm Legno *Wood*	-	14÷210					●	●	●	●	●	●	●				750	**21067**	**206**
	3 mm Acciaio *Steel* 20 mm Legno *Wood*	ALBERO FISSO *Fixed arbor*	16÷102					●	●	●	●	●	●	●				800	**21061**	**208**

BLU-MOL®

SEGHE A TAZZA / *Bimetal hole saws*

HSS-CO 8% M42	2 mm	SPECIALE LAMIERE SOTTILI ATTACCO 1/4" HEX *Speciale lamiere sottili attacco 1/4" HEX*	16÷38			●	●	●	●	●	●			●				1000	**21069**	**209**
	3 mm Acciaio *Steel* 20 mm Legno *Wood*	ALTE PRESTAZIONI *Alte prestazioni*	14÷152			●	●	●	●	●	●	●	●	●				1000	**21065**	**210**

FRESE A TAZZA TCT CON ALBERO INTERCAMBIABILE (VARIE TIPOLOGIE DI ATTACCO) PER LA FORATURA DI ACCIAI ALTOLEGATI, HARDOX, ACCIAIO AL MANGANESE E INOX

EN *TCT hole saws with interchangeable arbor (various shank types) for drilling high-alloy steels, hardox, manganese steel and stainless steel*
FR *Scies-cloches TCT à arbre interchangeable (différents types de fixation) pour le perçage des aciers hautement alliés, hardox, aciers au manganèse et aciers inoxydables*
ESP *Sierras de corona TCT con mandril intercambiable (diferentes tipos de sujeción) para el taladrado de aceros de alta aleación, hardox, acero al manganeso y acero inoxidable*
PT *Serras copo TCT com haste intercambiável (vários tipos de encaixe) para a perfuração de aços de alta liga, hardox, aço manganês e aço inoxidável*

21047 | **TCT**

USO INTENSIVO
Intensive use

Inserti
in metallo duro
Carbide tips

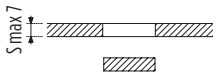
SHORT SERIE

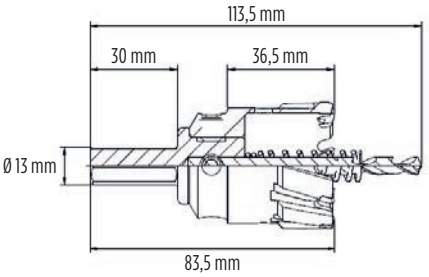




Confezione
Packaging

Spessore lavorabile
Material tickness workable

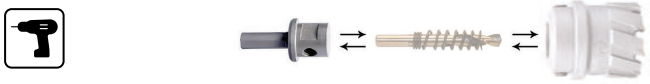
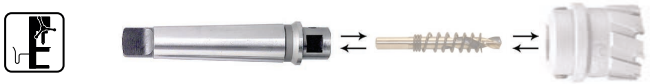




Ø mm	d mm	z	cod.	cad/each €
14	13	4	**2104**01400	consultare
15	13	4	**2104**01500	listino
16	13	4	**2104**01600	*see price list*
17	13	4	**2104**01700	
18	13	6	**2104**01800	
19	13	6	**2104**01900	
20	13	6	**2104**02000	
21	13	6	**2104**02100	
22	13	6	**2104**02200	
23	13	6	**2104**02300	
24	13	6	**2104**02400	
25	13	6	**2104**02500	
26	13	6	**2104**02600	
27	13	6	**2104**02700	
28	13	6	**2104**02800	
29	13	6	**2104**02900	
30	13	6	**2104**03000	
31	13	6	**2104**03100	
32	13	6	**2104**03200	
33	13	6	**2104**03300	
34	13	6	**2104**03400	
35	13	6	**2104**03500	
36	13	6	**2104**03600	
37	13	6	**2104**03700	
38	13	6	**2104**03800	
39	13	6	**2104**03900	
40	13	9	**2104**04000	
41	13	9	**2104**04100	

Ø mm	d mm	z	cod.	cad/each €
42	13	9	**2104**04200	consultare
43	13	9	**2104**04300	listino
44	13	9	**2104**04400	*see price list*
45	13	9	**2104**04500	
46	13	9	**2104**04600	
47	13	9	**2104**04700	
48	13	9	**2104**04800	
49	13	9	**2104**04900	
50	13	9	**2104**05000	
51	13	9	**2104**05100	
52	13	9	**2104**05200	
53	13	9	**2104**05300	
54	13	9	**2104**05400	
55	13	9	**2104**05500	
56	13	9	**2104**05600	
57	13	9	**2104**05700	
58	13	9	**2104**05800	
59	13	9	**2104**05900	
60	13	9	**2104**06000	
65	13	9	**2104**06500	
70	13	12	**2104**07000	
75	13	12	**2104**07500	
80	13	12	**2104**08000	
85	13	12	**2104**08500	
90	13	12	**2104**09000	
95	13	12	**2104**09500	
100	13	12	**2104**10000	

SCHEMA UTILIZZO ACCESSORI
Accessory usage diagram

	Tipo di attacco *Type of shank*	Per frese Ø *Fit hole cutters Ø*	cod.	cad/each €
	**3 pianetti (13 mm)** ***3 anti slip flats (13 mm)***	14-100 mm	**21045**137	consultare listino *see price list*
	**Cono Morse 2**	14-100 mm	**21045**136	consultare listino *see price list*
	**Weldon 19,05 mm**	14-100 mm	**21045**135	consultare listino *see price list*

R ≤ 1400 N/mm²

- Acciaio al manganese *Manganese steel*
- Hardox Weldox 400
- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Leghe leggere *Light alloys*
- Emulsione *Lubrificant*
- Plastica *Plastic*

PUNTA PILOTA M35 + TIALN
Pilot drill M35 + TiAlN



Ø mm	Per frese Ø *Fit hole cutters Ø*	cod.	cad/each €
6	14-60mm	**21045**140	consultare listino
8	> 60mm	**21045**141	*see price list*

ESPULSORE
Ejector pin



ØxL mm	cod.	cad/each €
6,34 x 116mm	**28016**008	consultare listino *see price list*

FRESE A TAZZA TCT AD ALBERO MOBILE PER FORARE LAMIERE IN ACCIAIO INOX, ACCIAI DURI TRATTATI

EN *Tungsten carbide tipped hole saws for stainless and hard metal sheets*
FR *Scies trépans au carbure de tungstene pour la tôle en acier inox*
ESP *Coronas con dientes de metal duro para planchas en acero inoxidable y duro*
PT *Serras de trépano de carboneto de tungsténio para furos em chapas de aço inoxidável e de metal duro*

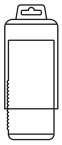
21040 | **TCT**

SERIE CORTA
Short serie

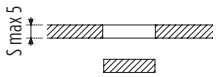
Inserti
in metallo duro
Carbide tips

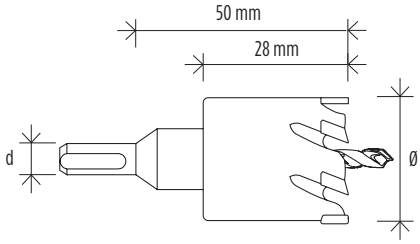


Confezione
Packaging



Spessore lavorabile
Material tickness workable





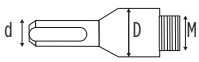
Ø mm	d mm	z	cod.	cad/each €
15	10	4	**2104**01500	consultare
16	10	4	**2104**01600	listino
17	10	4	**2104**01700	*see price list*
18	10	4	**2104**01800	
19	10	4	**2104**01900	
20	10	4	**2104**02000	
21	10	4	**2104**02100	
22	10	5	**2104**02200	
23	10	5	**2104**02300	
24	10	5	**2104**02400	
25	10	5	**2104**02500	
26	10	6	**2104**02600	
27	10	6	**2104**02700	
28	10	6	**2104**02800	
29	10	6	**2104**02900	
30	10	6	**2104**03000	
31	10	6	**2104**03100	
32	10	6	**2104**03200	
33	10	7	**2104**03300	
34	10	7	**2104**03400	
35	10	7	**2104**03500	
36	10	8	**2104**03600	
37	10	8	**2104**03700	
38	13	8	**2104**03800	
39	13	8	**2104**03900	
40	13	8	**2104**04000	
41	13	9	**2104**04100	
42	13	9	**2104**04200	
43	13	9	**2104**04300	
44	13	9	**2104**04400	
45	13	9	**2104**04500	
46	13	10	**2104**04600	
47	13	10	**2104**04700	

Ø mm	d mm	z	cod.	cad/each €
48	13	10	**2104**04800	consultare
49	13	10	**2104**04900	listino
50	13	10	**2104**05000	*see price list*
51	13	10	**2104**05100	
52	13	10	**2104**05200	
53	13	10	**2104**05300	
54	13	10	**2104**05400	
55	13	10	**2104**05500	
56	13	12	**2104**05600	
57	13	12	**2104**05700	
58	13	12	**2104**05800	
59	13	12	**2104**05900	
60	13	12	**2104**06000	
63	13	12	**2104**06300	
65	13	14	**2104**06500	
70	13	14	**2104**07000	
75	13	14	**2104**07500	
76	13	16	**2104**07600	
80	13	16	**2104**08000	
85	13	18	**2104**08500	
90	13	20	**2104**09000	
95	13	22	**2104**09500	
100	13	22	**2104**10000	
***105**	13	24	**2104**10500	
***110**	13	24	**2104**11000	
***115**	13	24	**2104**11500	
***120**	13	26	**2104**12000	
***125**	13	26	**2104**12500	
***130**	13	26	**2104**13000	
***135**	13	28	**2104**13500	
***140**	13	28	**2104**14000	
***145**	13	30	**2104**14500	
***150**	13	30	**2104**15000	

*Integrale / *One piece*



	pcs.	cod.	cad/each €
Ø ≥ 15mm	5	**21045**098	consultare listino *see price list*



Per frese *Fit hole cutters*	d mm	D mm	M mm	cod.	cad/each €
Ø 15 ÷ 21 mm	10	15	12x1,5	**21045**120	consultare listino
Ø 22 ÷ 38 mm	10	19	14x1,5	**21045**121	*see price list*
Ø 39 ÷ 100 mm	13	22	14x1,5	**21045**122	

Punta pilota AISI M2
Pilot drill



Per frese *Fit hole cutters*	Ø x L mm	pcs.	cod.	cad/each €
Ø 15 ÷ 150 mm	6 x 62	5	**21045**100	consultare listino *see price list*

R ≤ 1300 N/mm²

- Hardox Weldox 400
- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Leghe leggere *Light alloys*
- Emulsione *Lubrificant*
- Plastica *Plastic*



Art. 21055130

Composizione
Description
28 pcs
Ø 15 ÷ 40 x 1 + 45 - 50mm



Art. 21055300

Composizione
Description
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

FRESE A TAZZA TCT AD ALBERO FISSO PER FORARE LAMIERE, TUBI, PROFILATI IN ACCIAIO INOX E ACCIAI DURI TRATTATI

EN *Tungsten carbide tipped hole saws for stainless and hard metal sheets*
FR *Scies trépans au carbure de tungstene pour la tôle en acier inox*
ESP *Coronas con dientes de metal duro para planchas en acero inoxidable y duro*
PT *Serras de trépano de carboneto de tungsténio para furos em chapas de aço inoxidável e de metal duro*

21043 | **TCT**

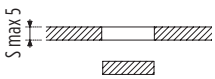
SERIE CORTA
Short serie

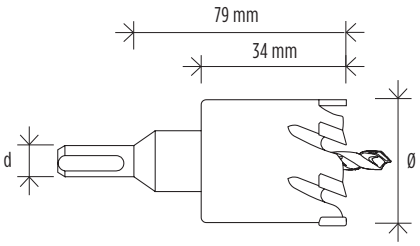
Inserti
in metallo duro
Carbide tips



Confezione
Packaging

Spessore lavorabile
Material tickness workable





Ø mm	d mm	z	cod.	cad/each €
12	10	3	**2104**3**01200**	consultare
14	10	4	**2104**3**01400**	listino
15	10	4	**2104**3**01500**	*see price list*
16	10	4	**2104**3**01600**	
17	10	4	**2104**3**01700**	
18	10	5	**2104**3**01800**	
19	10	5	**2104**3**01900**	
20	10	6	**2104**3**02000**	
21	10	6	**2104**3**02100**	
22	10	6	**2104**3**02200**	
23	10	6	**2104**3**02300**	
24	10	6	**2104**3**02400**	
25	10	6	**2104**3**02500**	
26	10	6	**2104**3**02600**	
27	10	6	**2104**3**02700**	
28	10	6	**2104**3**02800**	
29	10	6	**2104**3**02900**	
30	10	6	**2104**3**03000**	
31	10	6	**2104**3**03100**	
32	10	6	**2104**3**03200**	
33	10	6	**2104**3**03300**	
34	10	6	**2104**3**03400**	
35	10	9	**2104**3**03500**	
36	10	9	**2104**3**03600**	
37	10	9	**2104**3**03700**	
38	10	9	**2104**3**03800**	
39	10	9	**2104**3**03900**	
40	10	9	**2104**3**04000**	
41	10	9	**2104**3**04100**	
42	10	9	**2104**3**04200**	

Ø mm	d mm	z	cod.	cad/each €
43	10	9	**2104**3**04300**	consultare
44	10	9	**2104**3**04400**	listino
45	10	9	**2104**3**04500**	*see price list*
46	10	9	**2104**3**04600**	
47	10	9	**2104**3**04700**	
48	10	9	**2104**3**04800**	
49	10	9	**2104**3**04900**	
50	10	9	**2104**3**05000**	
51	10	9	**2104**3**05100**	
52	10	9	**2104**3**05200**	
53	10	9	**2104**3**05300**	
54	10	9	**2104**3**05400**	
55	10	9	**2104**3**05500**	
56	10	9	**2104**3**05600**	
57	10	9	**2104**3**05700**	
58	10	9	**2104**3**05800**	
60	10	12	**2104**3**06000**	
65	10	12	**2104**3**06500**	
70	10	12	**2104**3**07000**	
75	10	12	**2104**3**07500**	
80	10	15	**2104**3**08000**	
85	10	15	**2104**3**08500**	
90	10	15	**2104**3**09000**	
95	10	18	**2104**3**09500**	
100	10	18	**2104**3**10000**	
105	10	18	**2104**3**10500**	
110	10	18	**2104**3**11000**	
115	10	21	**2104**3**11500**	
120	10	21	**2104**3**12000**	
125	10	21	**2104**3**12500**	
130	10	21	**2104**3**13000**	



	pcs.	cod.	cad/each €
Ø ≥ 15mm	5	**21045**105	consultare listino *see price list*

Punta pilota HSS
Pilot drill



Per frese *Fit hole cutters*	Ø x L mm	pcs.	cod.	cad/each €
Ø 12-13 mm	5 x 68	5	**21045**103	consultare listino
Ø > 13 mm	6 x 68	5	**21045**104	*see price list*

R ≤ 1100 N/mm²

- Inox *Stainless*
- Acciaio *Steel*
- Alluminio *Aluminum*
- Leghe leggere *Light alloys*
- Emulsione *Lubrificant*
- Plastica *Plastic*



Art. 21055305

Composizione
Description
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

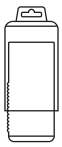
FRESE A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TIALN

EN *HSS-G+TiAlN fully ground hole cutters*
FR *Scies trépans HSS-G+TiAlN rectifiées*
ESP *Coronas perforadoras HSS-G+TiAlN rectificadas*
PT *Fresas totalmente retificadas HSS-G+TiAlN*

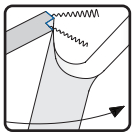
21325 | **HSS-G** | **TiAlN**

HSS-G+TiAlN
HV 0,05 ≃ 3300

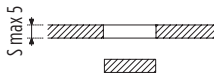


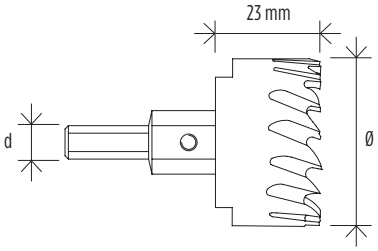


Confezione
Packaging



Spessore lavorabile
Material tickness workable





Ø mm	d mm	z	cod.	cad/each €
12	10	5	**2132**501200	consultare
13	10	5	**2132**501300	listino
14	10	6	**2132**501400	*see price list*
15	10	6	**2132**501500	
16	10	6	**2132**501600	
17	10	6	**2132**501700	
18	10	6	**2132**501800	
19	10	8	**2132**501900	
20	10	8	**2132**502000	
21	10	8	**2132**502100	
22	10	8	**2132**502200	
23	10	8	**2132**502300	
24	10	8	**2132**502400	
25	10	8	**2132**502500	
26	10	10	**2132**502600	
27	10	10	**2132**502700	
28	10	10	**2132**502800	
29	10	10	**2132**502900	
30	10	10	**2132**503000	
31	10	12	**2132**503100	
32	10	12	**2132**503200	
33	10	12	**2132**503300	
34	10	12	**2132**503400	
35	10	12	**2132**503500	
36	10	12	**2132**503600	
37	10	12	**2132**503700	
38	10	12	**2132**503800	
39	10	12	**2132**503900	

Ø mm	d mm	z	cod.	cad/each €
40	10	14	**2132**504000	consultare
41	10	14	**2132**504100	listino
42	10	14	**2132**504200	*see price list*
43	10	14	**2132**504300	
44	10	16	**2132**504400	
45	10	16	**2132**504500	
46	10	16	**2132**504600	
47	10	16	**2132**504700	
48	10	16	**2132**504800	
49	10	16	**2132**504900	
50	10	16	**2132**505000	
51	10	18	**2132**505100	
52	10	18	**2132**505200	
53	10	18	**2132**505300	
54	10	18	**2132**505400	
55	10	18	**2132**505500	
56	10	18	**2132**505600	
57	10	18	**2132**505700	
58	10	18	**2132**505800	
59	10	18	**2132**505900	
60	10	18	**2132**506000	
65	10	20	**2132**506500	
70	10	20	**2132**507000	
75	10	22	**2132**507500	
80	10	22	**2132**508000	
85	10	24	**2132**508500	
90	10	24	**2132**509000	
95	10	24	**2132**509500	
100	10	24	**2132**510000	

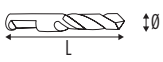


	pcs.	cod.	cad/each €
Ø ≥ 20 mm	5	**21005**098	consultare listino *see price list*



Per frese *Fit hole cutters*	L mm	d mm	M mm	cod.	cad/each €
Ø 12 ÷ 14 mm	56	8	10x1,25	**21005**099	consultare listino
Ø 15 ÷ 34 mm	56	10	12x1,25	**21005**100	*see price list*
Ø 35 ÷ 50 mm	56	10	14x1,5	**21005**102	
Ø 51 ÷ 100 mm	60	12	16x1,5	**21005**101	

Punta pilota AISI M35
Pilot drill



Per frese *Fit hole cutters*	Ø x L mm	pcs.	cod.	cad/each €
Ø 12 ÷ 100 mm	6 x 62	5	**21005**115	consultare listino *see price list*



Frese a tazza HSS+TiAlN: più si "scalda", più rende. È un esclusivo rivestimento PVD che permette il taglio a secco ad elevati parametri di taglio e con rendimenti eccezionali nell'acciaio inox e in tutti i materiali in genere.

HSS+TiAlN hole cutters: The more it "heats" the more it performs. It is a special PVD Coating which allows the dry cut with high cutting parameters, and a great performance while drilling into the stainless steel and all kind of materials.

R ≤ 1300 N/mm²

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Plastica *Plastic*



Art. 21335300

Composizione
Description
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21335301

Composizione
Description
6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21335102

Composizione
Description
21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21335101

Composizione
Description
31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21335100

Composizione
Description
39 pcs
Ø 12 ÷ 50 x 1 mm

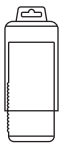
FRESE A TAZZA IN HSS-G RETTIFICATE RIVESTITE AL TiN

EN *HSS-G+TiN fully ground hole cutters*
FR *Scies trépans HSS-G+TiN rectifiées*
ESP *Coronas perforadoras HSS-G+TiN rectificadas*
PT *Fresas totalmente retificadas HSS-G+TiN*

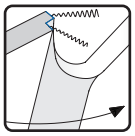
21300 | **HSS-G** | **TiN**

HSS-G+TiN
HV 0,05 ≃ 2300

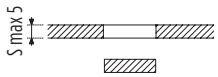


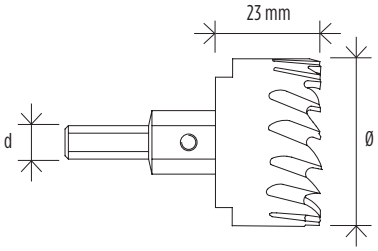


Confezione
Packaging



Spessore lavorabile
Material tickness workable





Ø mm	d mm	z	cod.	cad/each €
12	10	5	**21300**1200	consultare
13	10	5	**21300**1300	listino
14	10	6	**21300**1400	*see price list*
15	10	6	**21300**1500	
16	10	6	**21300**1600	
17	10	6	**21300**1700	
18	10	6	**21300**1800	
19	10	8	**21300**1900	
20	10	8	**21300**2000	
21	10	8	**21300**2100	
22	10	8	**21300**2200	
23	10	8	**21300**2300	
24	10	8	**21300**2400	
25	10	8	**21300**2500	
26	10	10	**21300**2600	
27	10	10	**21300**2700	
28	10	10	**21300**2800	
29	10	10	**21300**2900	
30	10	10	**21300**3000	
31	10	12	**21300**3100	
32	10	12	**21300**3200	
33	10	12	**21300**3300	
34	10	12	**21300**3400	
35	10	12	**21300**3500	
36	10	12	**21300**3600	
37	10	12	**21300**3700	
38	10	12	**21300**3800	
39	10	12	**21300**3900	

Ø mm	d mm	z	cod.	cad/each €
40	10	14	**21300**4000	consultare
41	10	14	**21300**4100	listino
42	10	14	**21300**4200	*see price list*
43	10	14	**21300**4300	
44	10	16	**21300**4400	
45	10	16	**21300**4500	
46	10	16	**21300**4600	
47	10	16	**21300**4700	
48	10	16	**21300**4800	
49	10	16	**21300**4900	
50	10	16	**21300**5000	
51	10	18	**21300**5100	
52	10	18	**21300**5200	
53	10	18	**21300**5300	
54	10	18	**21300**5400	
55	10	18	**21300**5500	
56	10	18	**21300**5600	
57	10	18	**21300**5700	
58	10	18	**21300**5800	
59	10	18	**21300**5900	
60	10	18	**21300**6000	
65	10	20	**21300**6500	
70	10	20	**21300**7000	
75	10	22	**21300**7500	
80	10	22	**21300**8000	
85	10	24	**21300**8500	
90	10	24	**21300**9000	
95	10	24	**21300**9500	
100	10	24	**21300**10000	

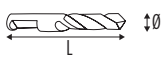


	pcs.	cod.	cad/each €
Ø ≥ 20 mm	5	**21005**098	consultare listino *see price list*



Per frese *Fit hole cutters*	L mm	d mm	M mm	cod.	cad/each €
Ø 12 ÷ 14 mm	56	8	10x1,25	**21005**099	consultare listino
Ø 15 ÷ 34 mm	56	10	12x1,25	**21005**100	*see price list*
Ø 35 ÷ 50 mm	56	10	14x1,5	**21005**102	
Ø 51 ÷ 100 mm	60	12	16x1,5	**21005**101	

Punta pilota AISI M35
Pilot drill



Per frese *Fit hole cutters*	Ø x L mm	pcs.	cod.	cad/each €
Ø 12 ÷ 100 mm	6 x 62	5	**21005**115	consultare listino *see price list*



Il Rivestimento in Nitruro di Titanio, elevando la durezza superficiale e riducendo notevolmente il coefficiente di attrito, permette il taglio negli acciai alto legati ed in particolare nell'acciaio inox. Le frese al TiN sono, inoltre molto adatte per il taglio dell'alluminio e di tutti i materiali abrasivi (plastica dura, vetroresina). Naturalmente, il rendimento nel taglio degli acciai dolci è elevatissimo.
The Titanium Nitride Coating allows high performances in stainless steel cutting, low alloy steel cutting. Aluminium and abrasive materials such as fiberglass.

R ≤ 1000 N/mm²

INOX Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Emulsione *Lubrificant*

Plastica *Plastic*



Art. 21320300

Composizione
Description
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21320301

Composizione
Description
6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21320102

Composizione
Description
21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21320101

Composizione
Description
31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21320100

Composizione
Description
39 pcs
Ø 12 ÷ 50 x 1 mm

FRESE A TAZZA IN HSS-G RETTIFICATE

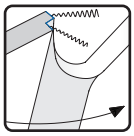
EN *HSS-G fully ground hole cutters*
FR *Scies trépans HSS-G rectifiées*
ESP *Coronas perforadoras HSS-G rectificadas*
PT *Fresas totalmente retificadas HSS-G*

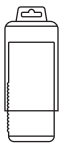
21001 HSS-G

HSS-G
HRC ≈ 64

Taglio laterale:
miglior estrazione dei trucioli
Side cut:
easy chips removal







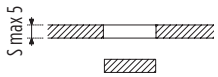
Confezione
Packaging

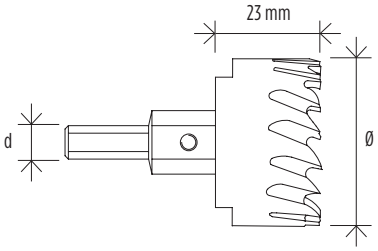
Ø mm	d mm	z	cod.	cad/each €
*10	10	5	**21001**01000	consultare
12	10	5	**21001**01200	listino
13	10	5	**21001**01300	*see price list*
14	10	6	**21001**01400	
15	10	6	**21001**01500	
16	10	6	**21001**01600	
17	10	6	**21001**01700	
18	10	6	**21001**01800	
19	10	8	**21001**01900	
20	10	8	**21001**02000	
21	10	8	**21001**02100	
22	10	8	**21001**02200	
23	10	8	**21001**02300	
24	10	8	**21001**02400	
25	10	8	**21001**02500	
26	10	10	**21001**02600	
27	10	10	**21001**02700	
28	10	10	**21001**02800	
29	10	10	**21001**02900	
30	10	10	**21001**03000	
31	10	12	**21001**03100	
32	10	12	**21001**03200	
33	10	12	**21001**03300	
34	10	12	**21001**03400	
35	10	12	**21001**03500	
36	10	12	**21001**03600	
37	10	12	**21001**03700	
38	10	12	**21001**03800	
39	10	12	**21001**03900	
40	10	14	**21001**04000	

Ø mm	d mm	z	cod.	cad/each €
41	10	14	**21001**04100	consultare
42	10	14	**21001**04200	listino
43	10	14	**21001**04300	*see price list*
44	10	16	**21001**04400	
45	10	16	**21001**04500	
46	10	16	**21001**04600	
47	10	16	**21001**04700	
48	10	16	**21001**04800	
49	10	16	**21001**04900	
50	10	16	**21001**05000	
51	10	18	**21001**05100	
52	10	18	**21001**05200	
53	10	18	**21001**05300	
54	10	18	**21001**05400	
55	10	18	**21001**05500	
56	10	18	**21001**05600	
57	10	18	**21001**05700	
58	10	18	**21001**05800	
59	10	18	**21001**05900	
60	10	18	**21001**06000	
65	10	20	**21001**06500	
70	10	20	**21001**07000	
75	10	22	**21001**07500	
80	10	22	**21001**08000	
85	10	24	**21001**08500	
90	10	24	**21001**09000	
95	10	24	**21001**09500	
100	10	24	**21001**10000	
120	10	30	**21001**12000	

*Integrale
**One piece*

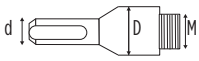
Spessore lavorabile
Material tickness workable





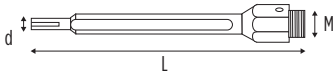


	pcs.	cod.	cad/each €
Ø ≥ 20 mm	5	**21005**098	consultare listino *see price list*



Per frese *Fit hole cutters*	L mm	d mm	M mm	cod.	cad/each €
Ø 12 ÷ 14 mm	56	8	10x1,25	**21005**099	consultare listino
Ø 15 ÷ 34 mm	56	10	12x1,25	**21005**100	*see price list*
Ø 35 ÷ 50 mm	56	10	14x1,5	**21005**102	
Ø 51 ÷ 120 mm	60	12	16x1,5	**21005**101	

Prolunga 400mm
Extension 400mm



Per frese *Fit hole cutters*	L mm	d mm	M mm	cod.	cad/each €
Ø 15 ÷ 34 mm	400	13	12x1,25	**21005**120	consultare listino
Ø 35 ÷ 50 mm	400	13	14x1,5	**21005**122	*see price list*
Ø 51 ÷ 120 mm	400	13	16x1,5	**21005**121	

Punta pilota AISI M2
Pilot drill



Per frese *Fit hole cutters*	Ø x L mm	pcs.	cod.	cad/each €
Ø 10 mm	4 x 50	5	**21005**109	consultare listino
Ø 12 ÷ 120 mm	6 x 52	5	**21005**110	*see price list*

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Emulsione *Lubrificant*
Plastica *Plastic*



Art. 21010300

Composizione
Description
8 pcs
Ø 16 - 18 - 20 - 22
25 - 30 - 32 - 35

Art. 21010301

Composizione
Description
6 pcs
Ø 16 - 18 - 20
22 - 25 - 30



Art. 21010104

Composizione
Description
11 pcs
Ø 16 - 18 - 20 - 21 - 22 - 25 -27 - 28 - 30 - 32 - 35 mm

Art. 21010102

Composizione
Description
21 pcs
Ø 18 ÷ 35 x 1 + 36 - 38 - 40 mm

Art. 21010101

Composizione
Description
31 pcs
Ø 12 ÷ 40 x 1 + 45-50 mm

Art. 21010100

Composizione
Description
39 pcs
Ø 12 ÷ 50 x 1 mm

SEGHE A TAZZA BIMETALLICHE CON DENTI IN METALLO DURO

EN *Bimetal hole saw with carbide teeth*
FR *Scies trépans bimétalliques avec dents en metal dur*
ESP *Coronas perforadoras bimetalicas con diente de metal duro*
PT *Serras de trépano bimetálicas com dentes de metal duro*

MangaCut

21098 | **TCT**

SPECIALE INSTALLAZIONE DI PROTETTORI CORAZZATI TIPO DEFENDER® E SIMILARI

Special installation of Defender® type armored protectors and similar

Inserti in metallo duro
Carbide tips



Confezione
Packaging

Ø mm	Ø *inches*	d filetto / *thread*	pcs.	cod.	cad/each €
51	**2**	UNF 5/8 x 18	1	**21098**5100	consultare
52	**2-1/16**		1	**21098**5200	listino
54	**2-1/8**		1	**21098**5400	*see price list*
57	**2-1/4**		1	**21098**5700	

Accessori seghe a tazza
Hole saw accessories
P. 212

La sega a tazza MangaCut con denti in metallo duro è in grado di forare una svariata tipologia di materiali, ed in particolare è adatta a forare le lamiere più tenaci incluse quelle in acciaio al manganese utilizzate nelle porte blindate.

La fresa, in abbinata alla dima, rappresenta il sistema più pratico per per l'installazione di cilindri europei e protettori corazzati tipo Defender® o similari. L'utilizzo di una dima di foratura permette l'esatta centratura del foro per l'applicazione del protettore serrature sul pannello della porta blindata, riducendo i tempi di lavoro e ottimizzando il risultato. I diametri disponibili sono quelli relativi ai protettori dei più diffusi brand specializzati.

Per la foratura dell'acciaio al manganese, utilizzare una velocità di rotazione contenuta. Con una sega a tazza Ø 51 - 57 mm forare indicativamente a 150 rpm . Applicare una pressione moderata e costante, sufficiente a garantire il taglio ed evitare lo sfregamento eccessivo e il conseguente indurimento del materiale.

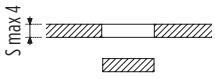
The MangaCut hole saw with carbide teeth is capable of drilling a wide variety of materials, and is particularly suited to drilling the toughest sheet metal, including manganese steel used in armored doors.

The cutter, combined with the jig, is the most practical system for installing Euro cylinders and Defender® or similar armored lock protectors. Using a drilling jig allows for precise centering of the hole for applying the lock protector to the armored door panel, reducing work time and optimizing results. The diameters available are those of the Defender® locks from the most popular specialized brands.

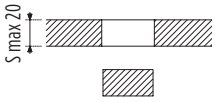
When drilling manganese steel, use a low rotational speed. With a 51-57 mm hole saw, operate at approximately 150 rpm. Apply moderate, constant pressure to ensure effective cutting and prevent excessive rubbing and mterial hardening.

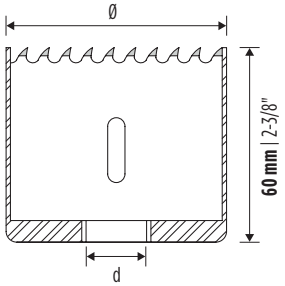
Spessore lavorabile
Material tickness workable

Acciaio / *Steel*



Legno / *Wood*





Descrizione *Description*	cod.	cad/each €
DIMA FALSO CILINDRO + PERNO GUIDA: falso cilindro in ottone L=70, con foro guida da 6 mm e 9 fori filettati M5 di regolazione, passo standard 38 mm. Fornito con asta 6x130 compatibile con qualsiasi albero per seghe a tazza ***Dummy cylinder jig + guide pin:*** *Brass dummy cylinder L=70, with 6 mm guide hole and 9 M5 threaded adjustment holes, standard pitch 38 mm. Supplied with 6x130 rod compatible with any hole saw arbor.*	**21055**005	consultare listino *see price list*
ASTA 6x130 mm in HSS **6x130 mm BAR in HSS**	**21055**007	

R ≤ 1300 N/mm²

- Acciaio al manganese *Manganese steel*
- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Alluminio *Aluminum*
- Leghe leggere *Light alloys*
- Emulsione *Lubrificant*
- Plastica *Plastic*
- Legno *Wood*
- Sandwich *Sandwich*
- Truciolato *Chipboard*
- Mattoni *Bricks*
- Ceramica *Ceramics*

SEGHE A TAZZA BIMETALLICHE CON DENTI IN METALLO DURO

EN *Bimetal hole saw with carbide teeth*
FR *Scies trépans bimétalliques avec dents en metal dur*
ESP *Coronas perforadoras bimetalicas con diente de metal duro*
PT *Serras de trépano bimetálicas com dentes de metal duro*

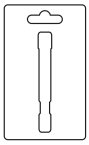
21099 | **TCT**

MULTIMATERIALE
Multimaterial

Inserti
in metallo duro
Carbide tips



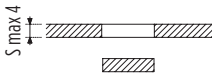
Confezione
Packaging



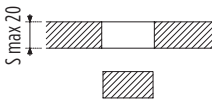
Ø mm	Ø *inches*	d filetto / *thread*	pcs.	cod.	cad/each €
19	3/4	UNF 1/2 x 20	1	21099**01900**	consultare
20	-		1	21099**02000**	listino
22	7/8		1	21099**02200**	*see price list*
25	1		1	21099**02500**	
30	1-3/16		1	21099**03000**	
32	1-1/4	UNF 5/8 x 18	1	21099**03200**	
35	1-3/8		1	21099**03500**	
38	1-1/2		1	21099**03800**	
40	1-9/16		1	21099**04000**	
44	1-3/4		1	21099**04400**	
51	2		1	21099**05100**	
52	2-3/64		1	21099**05200**	
54	2-1/8		1	21099**05400**	
57	2-1/4		1	21099**05700**	
60	2-3/8		1	21099**06000**	
64	2-1/2		1	21099**06400**	
67	2-5/8		1	21099**06700**	
70	2-3/4		1	21099**07000**	
76	3		1	21099**07600**	
79	3-1/8		1	21099**07900**	
83	3-1/4		1	21099**08300**	
102	4		1	21099**10200**	
127	5		1	21099**12700**	

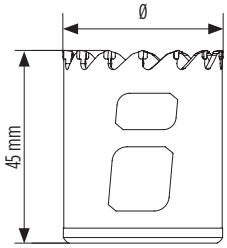
Spessore lavorabile
Material tickness workable

Acciaio / *Steel*



Legno / *Wood*





Accessori seghe a tazza
Hole saw accessories
P. 212



Art. 21109302

Composizione
Description
6 pcs
Ø 19 - 22 - 30
38 - 44 - 57 mm
- albero 19-30
con punta pilota HSS
Arbor 19-30 with HSS pilot drill
- albero 32-127
con punta pilota HSS
Arbor 32-127 with HSS pilot drill
- 2x punte pilota HSS
(ricambio)
2x HSS Pilot drills (spare parts)
- 1x punta pilota TCT
1x TCT Pilot drill
- 1x adattatore
1x adaptor

Art. 21109303

Composizione
Description
9 pcs
Ø 19 - 22 - 30 - 35 - 44
51 - 57 - 64 - 67 mm
- albero 19-30
con punta pilota HSS
Arbor 19-30 with HSS pilot drill
- albero 32-127
con punta pilota HSS
Arbor 32-127 with HSS pilot drill
- 2x punte pilota HSS
(ricambio)
2x HSS Pilot drills (spare parts)
- 1x punta pilota TCT
1x TCT Pilot drill
- 1x adattatore
1x adaptor

R ≤ 1100 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Leghe leggere
Light alloys

Emulsione
Lubrificant

Plastica
Plastic

Legno
Wood

Sandwich
Sandwich

Truciolato
Chipboard

Mattoni
Bricks

Ceramica
Ceramics

SEGHE A TAZZA CON DENTI IN METALLO DURO PER LEGNO, TRUCIOLATI, AGGLOMERATI, ETC.

EN *Carbide tipped hole saws for wood*
FR *Scies cloches avec dents en metal dur pour le bois*
ESP *Corona con diente de metal duro para madera*
PT *Serras de trépano de carboneto para madeira*

05078 | **TCT**

ALTO RENDIMENTO
High performance

Inserti
in metallo duro
Carbide tips

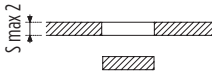


Confezione
Packaging

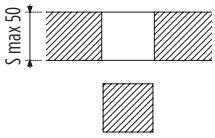
Ø mm	Ø *inches*	d filetto / *thread*	pcs.	cod.	cad/each €
19	3/4	UNF 1/2 x 20	1	**05078**01900	consultare
22	7/8		1	**05078**02200	listino
25	1		1	**05078**02500	*see price list*
29	1-1/8		1	**05078**02900	
32	1-1/4	UNF 5/8 x 18	1	**05078**03200	
35	1-3/8		1	**05078**03500	
38	1-1/2		1	**05078**03800	
41	1-5/8		1	**05078**04100	
44	1-3/4		1	**05078**04400	
48	1-7/8		1	**05078**04800	
51	2		1	**05078**05100	
54	2-1/8		1	**05078**05400	
57	2-1/4		1	**05078**05700	
60	2-3/8		1	**05078**06000	
64	2-1/2		1	**05078**06400	
67	2-5/8		1	**05078**06700	
68	2-23/32		1	**05078**06800	
70	2-3/4		1	**05078**07000	
73	2-7/8		1	**05078**07300	
76	3		1	**05078**07600	
79	3-1/8		1	**05078**07900	
83	3-1/4		1	**05078**08300	
89	3-1/2		1	**05078**08900	
95	3-3/4		1	**05078**09500	
102	4		1	**05078**10200	
127	5		1	**05078**12700	
140	5-1/2		1	**05078**14000	
152	6		1	**05078**15200	

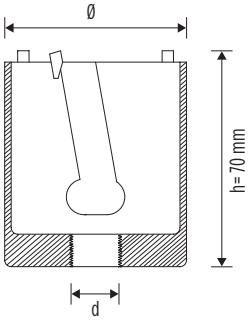
Spessore lavorabile
Material tickness workable

Lamiere / *Iron*



Legno / *Wood*





Accessori seghe a tazza
Hole saw accessories
P. 212



Art. 05079300

Composizione
Description
9 pcs
Ø 19 - 22 - 29 - 35
38 - 44 - 51 - 57 -64

5519B - 5546B

Art. 05079301

Composizione
Description
6 pcs
Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

R ≤ 1200 N/mm²

- Acciaio *Steel*
- Mattoni *Bricks*
- Plastica *Plastic*
- Sandwich *Sandwich*
- Legno *Wood*
- Multistrato *Multilayer*
- Truciolato *Chipboard*



400 x 650 x 320mm

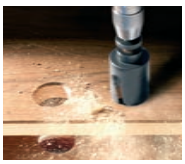
Art. 05079504

Composizione
Description
32 pcs
Ø 19 - 22 - 25 - 29 - 32
35 - 38 - 41 - 44 - 48
51 - 57 - 60 - 70 - 83
102 (2x)

4 pcs
5519B
14÷29

6 pcs
5546B
32÷152

5 pcs
21070203



Per forare con grande rendimento legno duro e dolce, stratificati, truciolati, agglomerati, laminati, materiali sandwich. Taglia anche plastica dura, mattoni forati e porosi, lamiera sottile dolce. max profondità di foratura 50 mm.

High performance on drilling into tough and soft wood, plywood, chipboards, agglomerates, laminated, porous bricks and thin metal sheet. Maximum cutting depth 50mm.

FRESE A TAZZA CON DENTI RIVESTITI IN GRANI DI CARBURO DI TUNGSTENO

EN *Carbide grit hole saws, high quality*
FR *Scies trépans au carbure de tungstene*
ESP *Coronas de carburo de tungsteno*
PT *Serras de trépano com grão de metal duro, alta qualidade*

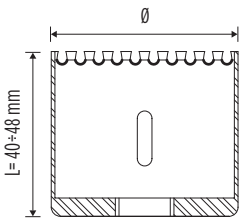
21105

PER MATERIALI EDILI DURI
For hard building materials

Grani in carburo di tungsteno
Carbide grit



Confezione
Packaging



Ø mm	Ø *inches*	d filetto / *thread*	pcs.	cod.	cad/each €
16	5/8	UNF 1/2 x 20	1	**21105**01600	consultare
19	3/4		1	**21105**01900	listino
20	-		1	**21105**02000	*see price list*
22	7/8		1	**21105**02200	
25	1		1	**21105**02500	
29	1-1/8		1	**21105**02900	
32	1-1/4	UNF 5/8 x 18	1	**21105**03200	
35	1-3/8		1	**21105**03500	
38	1-1/2		1	**21105**03800	
44	1-3/4		1	**21105**04400	
48	1-7/8		1	**21105**04800	
51	2		1	**21105**05100	
54	2-1/8		1	**21105**05400	
57	2-1/4		1	**21105**05700	
60	2-3/8		1	**21105**06000	
64	2-1/2		1	**21105**06400	
70	2-3/4		1	**21105**07000	
76	3		1	**21105**07600	
83	3-1/4		1	**21105**08300	
86	3-3/8		1	**21105**08600	
95	3-3/4		1	**21105**09500	
102	4		1	**21105**10200	
114	4-1/2		1	**21105**11400	

R ≤ 1200 N/mm²

Piastrelle
Mattoni durissimi
Tiles
Hard burnt brick

Ceramica
Ceramics

Pietre naturali
Marmo
Stones Marble

Fibra di vetro
Laminati plastici
Fiberglass

Accessori seghe a tazza
Hole saw accessories
P. 212



Art. 21107301

8pcs.
Ø 16 - 20 - 22 - 25 - 32 - 35 mm
Alberi per seghe/ *Arbor* UNF 1/2 x 20 + UNF 5/8 x 18







Per tagliare: Ceramica, gres, granito, marmo, ardesia, fibre di vetro, ghisa, laminati e tutti i materiali abrasivi.
Cuts: Ceramic tile, laminates, composition board, marble, fiberglass, cast iron, and other abrasive materials.

FRESA A TAZZA MULTIPLA PER EDILIZIA IN CARBURO DI TUNGSTENO IN GRANI

EN *Multiple sizes carbide grit hole saw*
ESP *Corona perforadora de metal duro de varios diámetros*
FR *Scie cloche à grains de carbure de plusieurs tailles*
PT *Serra de trépano de carboneto de vários tamanhos*

21108



Confezione
Packaging

Mattoni
bricks

Ø mm	d mm	pcs.	cod.	cad/each €
33-43-53-67-83	10	1	**21108**100	consultare listino *see price list*

h = 60mm



Art. 21107600

8pcs.
Art. 21105 Ø 33 - 53 - 67 - 73 - 83 mm (1x)

Art. 23010060



Art. 23005050



SEGHE A TAZZA BIMETALLICHE AL COBALTO 8% AISI M42 A DENTATURA VARIABILE

EN *HSS-Co 8% AISI M42 bimetal hole saws with variable teeth*
FR *Scies trépans bimétalliques HSS-Co 8% AISI M42 avec denture variable*
ESP *Coronas perforadoras bimetalicas HSS-CO 8% AISI M42 con dentadura variable*
PT *Serras de trépano bimetálicas HSS-Co 8% AISI M42 com dentes variáveis*

21090 HSS-CO 8% AISI M42

LAVORI GRAVOSI
Heavy works

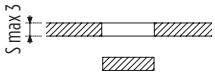
BIM.
HSS-CO 8%
AISI M42



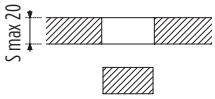
Confezione
Packaging

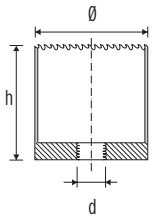
Spessore lavorabile
Material tickness workable

Acciaio / *Steel*

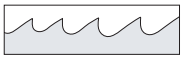


Legno / *Wood*





Ø	h
14÷17	61±1
19÷37	61±1
38÷210	54±1
220÷305	44±1



Variabile: nuovo disegno dei denti più performanti Z 4-6
Variable: new upgrade teeth design Z 4-6

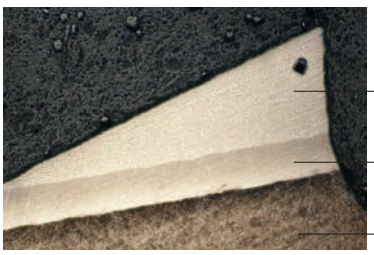
Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
14	9/16	UNF 1/2 x 20	**21090**01400	consultare
16	5/8		**21090**01600	listino
17	11/16		**21090**01700	*see price list*
19	3/4		**21090**01900	
20	-		**21090**02000	
21	13/16		**21090**02100	
22	7/8		**21090**02200	
24	15/16		**21090**02400	
25	1		**21090**02500	
27	1-1/16		**21090**02700	
29	1-1/8		**21090**02900	
30	1-3/16		**21090**03000	
32	1-1/4	UNF 5/8 x 18	**21090**03200	
33	1-5/16		**21090**03300	
35	1-3/8		**21090**03500	
37	1-7/16		**21090**03700	
38	1-1/2		**21090**03800	
40	1-9/16		**21090**04000	
41	1-5/8		**21090**04100	
43	1-11/16		**21090**04300	
44	1-3/4		**21090**04400	
45	-		**21090**04500	
46	1-13/16		**21090**04600	
48	1-7/8		**21090**04800	
50	-		**21090**05000	
51	2		**21090**05100	
52	2-1/16		**21090**05200	
54	2-1/8		**21090**05400	
57	2-1/4		**21090**05700	
59	2-5/16		**21090**05900	
60	2-3/8		**21090**06000	
64	2-1/2		**21090**06400	
65	2-9/16		**21090**06500	
67	2-5/8		**21090**06700	

Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
68	-		**21090**06800	consultare
70	2-3/4		**21090**07000	listino
73	2-7/8		**21090**07300	*see price list*
75	-		**21090**07500	
76	3		**21090**07600	
79	3-1/8		**21090**07900	
83	3-1/4		**21090**08300	
86	3-3/8		**21090**08600	
89	3-1/2		**21090**08900	
92	3-5/8		**21090**09200	
95	3-3/4		**21090**09500	
98	3-7/8		**21090**09800	
100	-		**21090**10000	
102	4		**21090**10200	
105	4-1/8		**21090**10500	
108	4-1/4		**21090**10800	
111	4-3/8		**21090**11100	
114	4-1/2		**21090**11400	
121	4-3/4		**21090**12100	
127	5		**21090**12700	
133	5-1/4		**21090**13300	
140	5-1/2		**21090**14000	
146	5-3/4		**21090**14600	
152	6		**21090**15200	
160	6-5/16		**21090**16000	
168	6-5/8		**21090**16800	
177	6-31/32		**21090**17700	
200	7-7/8		**21090**20000	
210	8-5/16		**21090**21000	
220	8-3/4		**21090**22000	
233	9- 1/8		**21090**23300	
250	9-7/8		**21090**25000	
260	10-1/4		**21090**26000	
265	10-1/2		**21090**26500	
280	11		**21090**28000	
305	12		**21090**30500	

Accessori seghe a tazza
Hole saw accessories
P. 212

R ≤ 1000 N/mm²

- Metalli *Metals*
- Plastica *Plastic*
- Legno *Wood*
- Sandwich *Sandwich*
- Truciolato *Chipboard*
- Acciaio *Steel*
- Inox *Stainless*



Microdurezza verificata direttamente sul tagliente
Micro-hardness tested directly on the cutting tooth

Seghe a tazza di altissima qualità, con taglienti in acciaio al Cobalto 8% per i lavori più gravosi; taglio professionale e profondo nell'acciaio inox, acciai duri, ghisa, alluminio, bronzo, ottone, legno duro e derivati, resine sintetiche, laminati plastici, gomma dura, cartongesso, etc.

High quality hole saws with HSS-CO 8% cutting edges for the toughest jobs; deep and professional cut in stainless steel, hard steel, cast iron, aluminium, bronze, brass, wood and its by-products, synthetic resins, laminated plastic, hard rubber, etc.

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS-CO 8%

EN *HSS-Co 8% Bi-metal hole saws kits*
FR *Assortiments de scies trépans HSS-Co 8% bimetal*
ESP *Juegos de coronas perforadoras bimetalica HSS-Co 8%*
PT *Kits de serras de trépano bimetálicas HSS-Co 8%*

KIT PER ELETTRICISTI
Electrician's kit



Art. 21013201K

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519B - 5546B

1

Art. 21013202K

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519B - 5546B

1



Art. 21013209K

7 pcs
Ø 22÷68

Composizione
Description

Ø 22 - 29 - 35
38 - 44 - 51
68

5519B - 5546B

1

Art. 21013207K

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60

5519B - 5546B

1

KIT PER IDRAULICI
Plumber's kit



Art. 21013204K

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

1

KIT INDUSTRIALE
Industrial kit



Art. 21013206K

15 pcs
Ø 19÷114

Composizione
Description

Ø 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64
- 76 - 83 - 92 - 95 - 105 - 114

5519B - 5546B

1

KIT PER INSTALLATORI
Journeyman's kit



Art. 21013205K

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29 - 35 - 38
44 - 51 - 57 - 64

5519B - 5546B

1

1



Art. 21013215K

11 pcs
Ø 19÷76

Composizione
Description

Ø 19 - 22 - 25 - 29
35 - 38 - 44 - 51
57 - 64 - 76

5519B - 5546B

1

Art. 21013211K

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64

5519B - 5546B

1

Art. 21013212K

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25 - 30
35 - 40 - 51 - 60
64 - 76 - 83

5519B - 5546B

1

ESPOSITORI
Display



23x18x50 cm

Art. 21013504K

49 pcs
Ø 16÷102

Composizione
Description

2x
Ø 16 - 19 - 20 - 22 - 25
30 - 32 - 35 - 38 - 40
48 - 51 - 57 - 60 - 70
83 - 102

4x 5519B 14÷30
6x 5546B 32÷152

5x 21070202



Art. 21013503K

24 pcs
Ø 16÷83

Composizione
Description

1x
Ø 16 - 19 - 20 - 22 - 25
27 - 29 - 30 - 32 - 35
38 - 40 - 44 - 51 - 54
60 - 64 - 70 - 76 - 83

2x 5519B 14÷30
2x 5546B 32÷152

ALBERO A CAMBIO RAPIDO PER SEGHE A TAZZA

EN *Quick change arbor for bimetal hole saws*
FR *Mandrin à changement rapide pour scies cloches bimétalliques*
ESP *Eje de cambio rápido para sierras de corona bimetálicas*
PT *Mandril de troca rápida para serras de trépano bimetálicas*

K-LOCK

BIMASTER

DENTE RINFORZATO
Reinforced tooth

30% PIÙ VELOCE
30% faster

FORI PERFETTI
perfect holes



SISTEMA DI AGGANCIO ULTRA RAPIDO
ultra-fast locking system

5X FASTER

ADATTATORI UNIVERSALI
1/2" X 20 UNF
5/8" X 18 UNF
Montabili sulle seghe di tutte le marche da 14 a 305 mm

UNIVERSAL ADAPTORS
1/2" X 20 UNF
5/8" X 18 UNF
Installable on all brands hole saws from 14 to 305 mm

DUE PUNTE PILOTA
HSS-G
L 95 mm
L 105 mm
Incluse nella confezione

TWO PILOT TWIST DRILLS
HSS-G
L 95 mm
L 105 mm
Included into the pack

GAMBO CON 3 PIANETTI ANTISLITTAMENTO
per la massima tenuta nel mandrino

3 FLAT ANTI SLIP FLATS
for max grip into the chuck

SEGHE A TAZZA BIMETALLICHE HSS AD ALTE PRESTAZIONI CON DENTE RINFORZATO, PER SISTEMA K-LOCK

EN *HSS bimetal high performance hole saws, reinforced tooth, for K-Lock system*
FR *Scie cloche bimétallique HSS haute performance, dent renforcée, pour système K-Lock*
ESP *Sierras de corona bimetálicas HSS de alto rendimiento, diente reforzado, para sistema K-Lock*
PT *Serras de trépano HSS bimetálicas de alto desempenho, dente reforçado, para sistema K-Lock*

BIMASTER

21058 | **HSS M3**

ALTE PRESTAZIONI - DENTE RINFORZATO - SISTEMA K-LOCK

High performance - reinforced tooth - K-Lock system

BIM.
HSS M3/1
Dente rinforzato
reinforced tooth



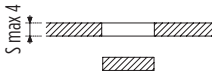
Confezione
Packaging

Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
16	5/8	UNF 1/2 X 20	210580**1600**	consultare
17	1/16		210580**1700**	listino
19	3/4		210580**1900**	*see price list*
20	-		210580**2000**	
21	13/16		210580**2100**	
22	7/8		210580**2200**	
24	15/16		210580**2400**	
25	1		210580**2500**	
27	1-1/16		210580**2700**	
29	1-1/8		210580**2900**	
30	1-3/16		210580**3000**	
32	1-1/4	UNF 5/8 X 18	210580**3200**	
33	1-5/16		210580**3300**	
35	1-3/8		210580**3500**	
38	1-1/2		210580**3800**	
40	1-9/16		210580**4000**	
41	1-5/8		210580**4100**	
43	1-11/16		210580**4300**	
44	1-3/4		210580**4400**	
46	1-13/16		210580**4600**	

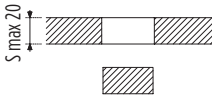
Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
48	1-7/8		210580**4800**	consultare
51	2		210580**5100**	listino
54	2-1/8		210580**5400**	*see price list*
57	2-1/4		210580**5700**	
60	2-3/8		210580**6000**	
64	2-1/2		210580**6400**	
65	2-9/16		210580**6500**	
67	2-5/8		210580**6700**	
68	-		210580**6800**	
70	2-2/4		210580**7000**	
73	2-7/8		210580**7300**	
76	3		210580**7600**	
79	3-1/8		210580**7900**	
83	3-1/4		210580**8300**	
89	3-1/2		210580**8900**	
92	3-5/8		210580**9200**	
98	3-7/8		210580**9800**	
102	4		210581**0200**	
111	4-3/8		210581**1100**	
121	4-3/4		210581**2100**	
127	5		210581**2700**	
133	5-1/4		210581**3300**	

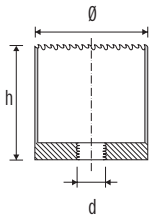
Spessore lavorabile
Material tickness workable

Acciaio / *Steel*



Legno / *Wood*





Ø	h
14÷17	56±1
19÷37	51±1
38÷133	44±1

Accessori seghe a tazza
Hole saw accessories
P. 212

UNIVERSALE - Si monta sulle seghe a tazza di tutte le marche. Per seghe da 14 a 305 mm
Universal *- It fits on hole saws of all brands. For hole saws from 14 to 305 mm*



K-LOCK, KIT ALBERO A CAMBIO RAPIDO PER SEGHE A TAZZA BIMETALLICHE
K-LOCK, quick change arbor kit for bimetal hole saws

Art. 210704050

Composizione
Description

1 x albero K-Lock
1 x K-Lock arbor
1 x punta pilota L 95 mm
1 x pilot drill L 95 mm
1x punta pilota L 100 mm
1x pilot drill L 100 mm
1x adattatore 1/2" X 20 UNF
1x adaptor 1/2" X 20 UNF
1x adattatore 5/8" X 18 UNF
1x adaptor 5/8" X 18 UNF



ADATTATORI PER ALBERO K-LOCK
Adapters for K-LOCK arbor

Art. 210704051

Adattatori
Adapters

2x 1/2" x 20 UNF
3x 5/8" x 18 UNF



Art. 21080302

Composizione
Description
6 pcs
Ø 16 - 20 - 2
32 - 40 - 51 mm
- 1x albero K-LOCK
- 2x adattatori universali K-LOCK
- 2x punte pilota HSS

Art. 21080303

Composizione
Description
9 pcs
Ø 19 - 22 - 29 - 35 - 38
44 - 51 - 57 - 64 mm
- 1x albero K-LOCK
- 2x adattatori universali K-LOCK
- 2x punte pilota HSS

R ≤ 850 N/mm²

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Legno *Wood*
Sandwich *Sandwich*
Truciolato *Chipboard*

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE

EN *HSS bimetal hole saws*
FR *Scies trépans bimetal HSS*
ESP *Coronas perforadoras bimetalicas HSS*
PT *Serras de trépano bimetálicas HSS*

21060 HSS M3

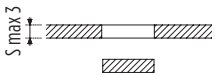
BIM.
HSS M3/1



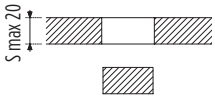
Confezione
Packaging

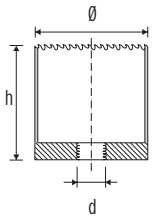
Spessore lavorabile
Material tickness workable

Acciaio / *Steel*

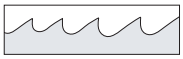


Legno / *Wood*





Ø	h
14÷37	51±1
38÷305	44±1



Variabile Z 4-6
Variable Z 4-6

Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
14	9/16	UNF 1/2 x 20	**21060**01400	consultare
16	5/8		**21060**01600	listino
17	11/16		**21060**01700	*see price list*
19	3/4		**21060**01900	
20			**21060**02000	
21	13/16		**21060**02100	
22	7/8		**21060**02200	
24	15/16		**21060**02400	
25	1		**21060**02500	
27	1-1/16		**21060**02700	
29	1-1/8		**21060**02900	
30	1-3/16		**21060**03000	
32	1-1/4	UNF 5/8 x 18	**21060**03200	
33	1-5/16		**21060**03300	
35	1-3/8		**21060**03500	
37	1-7/16		**21060**03700	
38	1-1/2		**21060**03800	
40	1-9/16		**21060**04000	
41	1-5/8		**21060**04100	
43	1-11/16		**21060**04300	
44	1-3/4		**21060**04400	
45	-		**21060**04500	
46	1-13/16		**21060**04600	
48	1-7/8		**21060**04800	
50	-		**21060**05000	
51	2		**21060**05100	
52	2-1/16		**21060**05200	
54	2-1/8		**21060**05400	
55	-		**21060**05500	
56	-		**21060**05600	
57	2-1/4		**21060**05700	
59	2-5/16		**21060**05900	
60	2-3/8		**21060**06000	
62	-		**21060**06200	
64	2-1/2		**21060**06400	
65	2-9/16		**21060**06500	

Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
67	2-5/8		**21060**06700	consultare
68	-		**21060**06800	listino
70	2-3/4		**21060**07000	*see price list*
73	2-7/8		**21060**07300	
75	-		**21060**07500	
76	3		**21060**07600	
79	3-1/8		**21060**07900	
83	3-1/4		**21060**08300	
86	3-3/8		**21060**08600	
89	3-1/2		**21060**08900	
92	3-5/8		**21060**09200	
95	3-3/4		**21060**09500	
98	3-7/8		**21060**09800	
100	-		**21060**10000	
102	4		**21060**10200	
105	4-1/8		**21060**10500	
108	4-1/4		**21060**10800	
111	4-3/8		**21060**11100	
114	4-1/2		**21060**11400	
121	4-3/4		**21060**12100	
127	5		**21060**12700	
133	5-1/4		**21060**13300	
140	5-1/2		**21060**14000	
146	5-3/4		**21060**14600	
152	6		**21060**15200	
160	6-5/16		**21060**16000	
168	6-5/8		**21060**16800	
177	6-31/32		**21060**17700	
200	7-7/8		**21060**20000	
210	8-5/16		**21060**21000	
220	8-3/4		**21060**22000	
233	9-1/8		**21060**23300	
250	9-7/8		**21060**25000	
260	10-1/4		**21060**26000	
265	10-1/2		**21060**26500	
280	11		**21060**28000	
305	12		**21060**30500	

Accessori seghe a tazza
Hole saw accessories
P. 212

SELF ART. 21068
Su richiesta / *On demand*

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Legno *Wood*
Sandwich *Sandwich*
Truciolato *Chipboard*

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS

EN *HSS Bi-metal hole saws kits*
FR *Assortiments de scies trépans HSS bimetal*
ESP *Juegos de coronas perforadoras bimetalica HSS*
PT *Kits de serras de trépano bimetálicas HSS*

KIT PER ELETTRICISTI

Electrician's kit



Art. 21080201K

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64
5519 - 5546
1

Art. 21080202K

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51
5519 - 5546
1



Art. 21080207K

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60
5519 - 5546
1

KIT PER IDRAULICI

Plumber's kit



Art. 21080204K

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57
5519 - 5546
1

KIT INDUSTRIALE

Industrial kit



Art. 21080206K

15 pcs
Ø 19÷114

Composizione
Description

Ø 19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64
- 76 - 83 - 92 - 95 - 105 - 114
5519 - 5546
1

KIT PER INSTALLATORI

Journeyman's kit



Art. 21080205K

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29 - 35 - 38
44 - 51 - 57 - 64
5519 - 5546
1
1



Art. 21080211K

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64
5519 - 5546
1

Art. 21080212K

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25 - 30
35 - 40 - 51 - 60
64 - 76 - 83
5519 - 5546
1

ESPOSITORI

Display



23x18x50 cm

Art. 21080504K

49 pcs
Ø 16÷102

Composizione
Description

2x
Ø 16 - 19 - 20 - 22 - 25
30 - 32 - 35 - 38 - 40
48 - 51 - 57 - 60 - 70
83 - 102
4x 5519 14÷30
6x 5546 32÷210
5x 21070201



Art. 21080503K

24 pcs
Ø 16÷83

Composizione
Description

1x
Ø 16 - 19 - 20 - 22 - 25
27 - 29 - 30 - 32 - 35
38 - 40 - 44 - 51 - 54
60 - 64 - 70 - 76 - 83
2x 5519 14÷30
2x 5546 32÷210

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE

EN *HSS bimetal hole saws*
FR *Scies trépans bimetal HSS*
ESP *Coronas perforadoras bimetalicas HSS*
PT *Serras de trépano bimetálicas HSS*

lite

21067 | **HSS M3**



BIM.
HSS M3/1
Finitura nera
Black finish

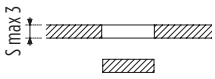




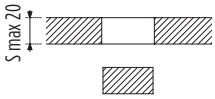
Confezione
Packaging

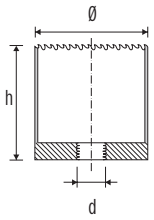
Spessore lavorabile
Material tickness workable

Acciaio / *Steel*

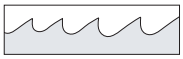


Legno / *Wood*





Ø	h
14÷17	52±1
19÷38	47±1
40÷210	44±1



Variabile Z 4-6
Variable Z 4-6

Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
14	9/16	UNF 1/2 x 20	**2106**01400	consultare
16	5/8		**2106**01600	listino
17	11/16		**2106**01700	*see price list*
19	3/4		**2106**01900	
20			**2106**02000	
21	13/16		**2106**02100	
22	7/8		**2106**02200	
24	15/16		**2106**02400	
25	1		**2106**02500	
27	1-1/16		**2106**02700	
29	1-1/8		**2106**02900	
30	1-3/16		**2106**03000	
32	1-1/4	UNF 5/8 x 18	**2106**03200	
33	1-5/16		**2106**03300	
35	1-3/8		**2106**03500	
37	1-7/16		**2106**03700	
38	1-1/2		**2106**03800	
40	1-9/16		**2106**04000	
41	1-5/8		**2106**04100	
43	1-11/16		**2106**04300	
44	1-3/4		**2106**04400	
45	-		**2106**04500	
46	1-13/16		**2106**04600	
48	1-7/8		**2106**04800	
50	-		**2106**05000	
51	2		**2106**05100	
52	2-1/16		**2106**05200	
54	2-1/8		**2106**05400	
55	-		**2106**05500	
56	-		**2106**05600	
57	2-1/4		**2106**05700	
59	2-5/16		**2106**05900	
60	2-3/8		**2106**06000	
62	-		**2106**06200	

Ø mm	Ø *inches*	d filetto *thread*	cod.	cad each €
64	2-1/2		**2106**06400	consultare
65	2-9/16		**2106**06500	listino
67	2-5/8		**2106**06700	*see price list*
68	-		**2106**06800	
70	2-3/4		**2106**07000	
73	2-7/8		**2106**07300	
75	-		**2106**07500	
76	3		**2106**07600	
79	3-1/8		**2106**07900	
83	3-1/4		**2106**08300	
86	3-3/8		**2106**08600	
89	3-1/2		**2106**08900	
92	3-5/8		**2106**09200	
95	3-3/4		**2106**09500	
98	3-7/8		**2106**09800	
100	-		**2106**10000	
102	4		**2106**10200	
105	4-1/8		**2106**10500	
108	4-1/4		**2106**10800	
111	4-3/8		**2106**11100	
114	4-1/2		**2106**11400	
121	4-3/4		**2106**12100	
127	5		**2106**12700	
133	5-1/4		**2106**13300	
140	5-1/2		**2106**14000	
146	5-3/4		**2106**14600	
152	6		**2106**15200	
160	6-5/16		**2106**16000	
168	6-5/8		**2106**16800	
177	6-31/32		**2106**17700	
190	7-1/2		**2106**19000	
200	7-7/8		**2106**20000	
210	8-5/16		**2106**21000	

Accessori seghe a tazza
Hole saw accessories
P. 212

R ≤ 750 N/mm²

Acciaio *Steel*
Metalli *Metals*
Plastica *Plastic*
Legno *Wood*
Sandwich *Sandwich*
Truciolato *Chipboard*

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE HSS

EN *HSS Bi-metal hole saws kits*
FR *Assortiments de scies trépans HSS bimetal*
ESP *Juegos de coronas perforadoras bimetalica HSS*
PT *Kits de serras de trépano bimetálicas HSS*

KIT PER ELETTRICISTI

Electrician's kit



Art. 21080201E

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64
5519 - 5546
1

Art. 21080202E

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51
5519 - 5546
1



Art. 21080207E

13 pcs
Ø 16÷60 (PG 9÷48)

Composizione
Description

Ø 16 - 19 - 20
21 - 22 - 25
29 - 32 - 38
48 - 51 - 54
60
5519 - 5546
1
21070201

KIT PER IDRAULICI

Plumber's kit



Art. 21080204E

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57
5519 - 5546
1

KIT PER INSTALLATORI

Journeyman's kit



Art. 21080211E

11 pcs
Ø 20÷64

Composizione
Description

Ø 20 - 22 - 25 - 30
32 - 35 - 40 - 44
51 - 60 - 64
5519 - 5546
1

Art. 21080212E

11 pcs
Ø 19÷83

Composizione
Description

Ø 19 - 22 - 25 - 30
35 - 40 - 51 - 60
64 - 76 - 83
5519 - 5546
1

ESPOSITORI

Display



Art. 21080504E

49 pcs
Ø 16÷102

Composizione
Description

2x
Ø 16 - 19 - 20 - 22 - 25
30 - 32 - 35 - 38 - 40
48 - 51 - 57 - 60 - 70
83 - 102
4x 5519 14÷30
6x 5546 32÷210
5x 21070201

23x18x50 cm



Art. 21080503E

24 pcs
Ø 16÷83

Composizione
Description

1x
Ø 16 - 19 - 20 - 22 - 25
27 - 29 - 30 - 32 - 35
38 - 40 - 44 - 51 - 54
60 - 64 - 70 - 76 - 83
2x 5519 14÷30
2x 5546 32÷210

SEGHE A TAZZA BIMETALLICHE HSS A DENTATURA VARIABILE AD ALBERO FISSO

EN *One piece HSS bimetal hole saws with fixed arbor*
FR *Scies trépans bimetal HSS avec arbres de montage fixé*
ESP *Coronas perforadoras bimetalicas HSS con vastago incorporado*
PT *Serras de trépano bimetálicas HSS de uma peça com mandril fixo*

21061 | **HSS M3**

ALBERO FISSO
Fixed arbor

BIM.
HSS M3/1



Confezione
Packaging

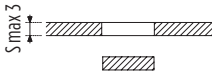
Ø mm	Ø *inches*	cod.	cad / each €
21	13/16	**21061**02100	consultare
24	15/16	**21061**02400	listino
29	1-1/8	**21061**02900	*see price list*
30	1-3/16	**21061**03000	
33	1-5/16	**21061**03300	
35	1-3/8	**21061**03500	
38	1-1/2	**21061**03800	
40	1-9/16	**21061**04000	
41	1-5/8	**21061**04100	
44	1-3/4	**21061**04400	
48	1-7/8	**21061**04800	
54	2-1/8	**21061**05400	
57	2-1/4	**21061**05700	
64	2-1/2	**21061**06400	
70	2-3/4	**21061**07000	
76	3	**21061**07600	
83	3-1/4	**21061**08300	
89	3-1/2	**21061**08900	
92	3-5/8	**21061**09200	
95	3-3/4	**21061**09500	
102	4	**21061**10200	

In esaurimento
Running out

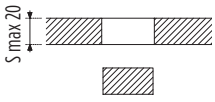
Accessori seghe a tazza
Hole saw accessories
P. 212

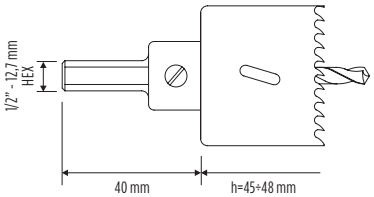
Spessore lavorabile
Material tickness workable

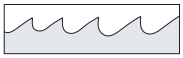
Acciaio / *Steel*



Legno / *Wood*







Variabile Z 4-6
Variable Z 4-6

R ≤ 800 N/mm²

- Acciaio *Steel*
- Plastica *Plastic*
- Legno *Wood*
- Multistrato *Multilayer*
- Sandwich *Sandwich*
- Truciolato *Chipboard*

Seghe bimetalliche HSS a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

Variable tooth bimetal hole saws for faster and smoother cuts in: iron, steel, aluminium, brass, copper, cast iron, stainless steel, wood and plywood, plastics, fibreglass etc...

SEGHE A TAZZA BIMETALLICHE HSS-CO 8% A PASSO FISSO PER LAMIERE SOTTILI

EN *AISI M42-Co8% constant pitch Bimetal hole saws for metal sheets*
FR *Scies cloches bimétal AISI M42-Co8% a denture fixe pour tôles fines*
ESP *Coronas bimetalicas AISI M42-Co8% a paso fixo para chapas finas*
PT *Serras de trépano bimetálicas de passo constante AISI M42-Co8% para chapas metálicas*

21069 **HSS-CO 8%** **AISI M42**

SPECIALE LAMIERE SOTTILI
Special for thin sheets

BIM.
AISI M42
Co8%

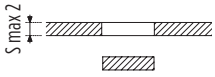


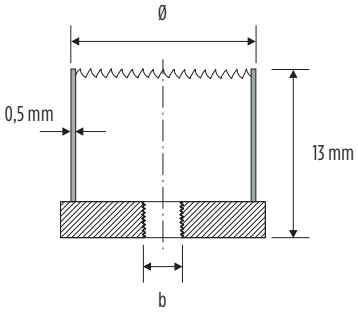
Confezione
Packaging

Ø mm	Ø *inches*	Attacco *Shank*	pcs.	cod.	cad / each €
16	**5/8**	1/4”	1	**21069**1600	consultare
19	**3/4**	1/4”	1	**21069**1900	listino
20	**-**	1/4”	1	**21069**2000	*see price list*
22	**7/8**	1/4”	1	**21069**2200	
25	**1**	1/4”	1	**21069**2500	
27	**1-1/16**	1/4”	1	**21069**2700	
29	**1-1/8**	1/4”	1	**21069**2900	
30	**1-3/16**	1/4”	1	**21069**3000	
32	**1-1/4**	1/4”	1	**21069**3200	
35	**1-3/8**	1/4”	1	**21069**3500	
38	**1-1/2**	1/4”	1	**21069**3800	

Spessore lavorabile
Material tickness workable

Acciaio / *Steel*







Z = 8

Speciale disegno
del dente:
taglio veloce e pulito
Advanced tooth design: smooth and fast cutting



Il potere della lama fine:
Minimizza il consumo delle batterie e produce meno trucioli per un taglio più veloce e sicuro

The power of the thin blade:
Minimizes battery consumption and produces fewer chips for faster, safer cutting





Fermo di sicurezza
Safety collar stop

Il sottile spessore della lama e la dentatura costante in AISI M42 le rendono particolarmente adatte al taglio di lamiere sottili di acciaio inox, acciai legati e non, alluminio, metalli non ferrosi, plastica.

The thin blade thickness and the AISI M42 constant pitch make these saws special for cutting into thin stainless steel sheet, alloyed steel and non - alloyed steel, non - ferrous metals and plastic.

R ≤ 1000 N/mm²

Inox
Stainless

Acciaio
Steel

Leghe leggere
Light alloys

Alluminio
Aluminum

Plastica
Plastic

Speciali per trapani a batteria e avvitatori a impulsi
Special for cordless power drills and impact power tools

SEGHE A TAZZA BIMETALLICHE HSS-CO 8% A DENTATURA VARIABILE "BLU - MOL"

EN *HSS-Co 8% bimetal hole saws*
FR *Scies trépans bimetal HSS-Co 8%*
ESP *Coronas perforadoras bimetalicas HSS-Co 8%*
PT *Serras de trépano bimetálicas HSS-Co 8%*

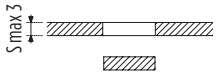
21065 **HSS-CO 8%** **AISI M42**



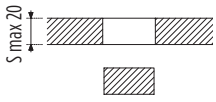
Confezione
Packaging

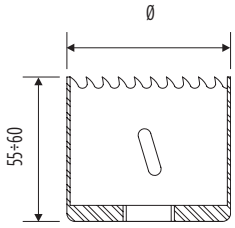
Spessore lavorabile
Material tickness workable

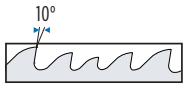
Acciaio / *Steel*



Legno / *Wood*







Z 4÷6 - BIM. AISI M42 - Co8%

Ø mm	Ø *inches*	pcs.	cod.	cad / each €
14	9/16	1	2106**01400**	consultare
16	5/8	1	2106**01600**	listino
17	11/16	1	2106**01700**	*see price list*
19	3/4	1	2106**01900**	
20	–	1	2106**02000**	
21	13/16	1	2106**02100**	
22	7/8	1	2106**02200**	
24	15/16	1	2106**02400**	
25	1	1	2106**02500**	
27	1-1/16	1	2106**02700**	
29	1-1/8	1	2106**02900**	
30	1-3/16	1	2106**03000**	
32	1-1/4	1	2106**03200**	
33	1-5/16	1	2106**03300**	
35	1-3/8	1	2106**03500**	
37	1-7/16	1	2106**03700**	
38	1-1/2	1	2106**03800**	
40	1-9/16	1	2106**04000**	
41	1-5/8	1	2106**04100**	
43	1-11/16	1	2106**04300**	
44	1-3/4	1	2106**04400**	
45	–	1	2106**04500**	
46	1-13/16	1	2106**04600**	
48	1-7/8	1	2106**04800**	
50	–	1	2106**05000**	
51	2	1	2106**05100**	
52	2-1/16	1	2106**05200**	
54	2-1/8	1	2106**05400**	
55	–	1	2106**05500**	
57	2-1/4	1	2106**05700**	
59	2-5/16	1	2106**05900**	
60	2-3/8	1	2106**06000**	
64	2-1/2	1	2106**06400**	
65	2-9/16	1	2106**06500**	
67	2-5/8	1	2106**06700**	
68	–	1	2106**06800**	
70	2-3/4	1	2106**07000**	
73	2-7/8	1	2106**07300**	
75	–	1	2106**07500**	
76	3	1	2106**07600**	
79	3-1/8	1	2106**07900**	
83	3-1/4	1	2106**08300**	
86	3-3/8	1	2106**08600**	
89	3-1/2	1	2106**08900**	
92	3-5/8	1	2106**09200**	
95	3-3/4	1	2106**09500**	
98	3-7/8	1	2106**09800**	
100	–	1	2106**10000**	
102	4	1	2106**10200**	
105	4-1/8	1	2106**10500**	
108	4-1/4	1	2106**10800**	
111	4-3/8	1	2106**11100**	
114	4-1/2	1	2106**11400**	
121	4-3/4	1	2106**12100**	
127	5	1	2106**12700**	
140	5-1/2	1	2106**14000**	
146	5-3/4	1	2106**14600**	
152	6	1	2106**15200**	

Accessori seghe a tazza
Hole saw accessories
P. 212

R ≤ 1000 N/mm²

- Inox *Stainless*
- Acciaio *Steel*
- Metalli *Metals*
- Plastica *Plastic*
- Legno *Wood*
- Sandwich *Sandwich*
- Truciolato *Chipboard*

Seghe bimetalliche HSS - Co 8% a dentatura variabile e spoglia positiva per il taglio altamente professionale di qualsiasi materiale a spessore sottile quale acciaio, ghisa, alluminio, rame, bronzo, ottone, legno, plastica, fibra di vetro, resine sintetiche, formica, cartongesso. Grande rendimento e durata, taglio pulito.

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ASSORTIMENTI SEGHE A TAZZA BIMETALLICHE “BLU-MOL” IN VALIGETTE DI PLASTICA

EN *Bi-metal hole saws kits in plastic cases*
FR *Assortiments de scies trépans bimetal en coffret plastique*
ESP *Juegos de coronas perforadoras en estucho plastico*
PT *Kits de serras de furar bimetálicas em caixas de plástico*

KIT PER ELETTRICISTI

Electrician’s kit



Art. 21080201

6 pcs
Ø 22÷64

Composizione
Description

Ø 22 - 29 - 35
44 - 51 - 64

5519B - 5546B

1

Art. 21080202

6 pcs
Ø 16÷51 (METRIC)

Composizione
Description

Ø 16 - 20 - 25
32 - 40 - 51

5519B - 5546B

1

KIT PER IDRAULICI

Plumber’s kit



Art. 21080204

6 pcs
Ø 19÷57

Composizione
Description

Ø 19 - 22 - 29
38 - 44 - 57

5519B - 5546B

1

KIT PER INSTALLATORI

Journeyman’s kit



Art. 21080205

9 pcs
Ø 19÷64

Composizione
Description

Ø 19 - 22 - 29 - 35 - 38
44 - 51 - 57 - 64

5519B - 5546B

1

1

ACCESSORI PER SEGHE A TAZZA

EN *Hole saw accessories*
FR *Accessoires pour scies trépans*
ESP *Accesorios para sierras de corona*
PT *Acessórios para serras de trépano*

COMPATIBILITÀ ALBERI CON GAMMA FRESE KRINO
Arbor compatibility with Krino hole saw range

FILETTATURA *Thread*	IMMAGINE *Image*	CODOLO *Shank*	LUNGHEZZA PUNTA *Drill bit length*	COD.	CAD/each €	MULTI MATERIALE *Multimaterial* – TCT 21098	MULTI MATERIALE *Multimaterial* – TCT 21099	LEGNO *Wood* – TCT 05078	MATERIALI EDILI *Construction materials* – CARBURO 21105	METALLO *Metal* – HSS-CO8% 21090	METALLO *Metal* – HSS M3 21060	METALLO *Metal* – HSS M3 21067	METALLO *Metal* – HSS-CO8% 21065	RICAMBIO PUNTA PILOTA *replacement pilot drill*	COD.
UNF 1/2 X 20 (Ø 14 ÷ 30) – PER SEGHE *for Hole saw* Ø 14-30		Ø 6,35	105 mm	**210705514**	consultare listino *see price list*		✓				✓	✓		6,35 x 105 mm	**21070**200
			115 mm	**210705514B**				✓		✓			✓	6,35 x 115 mm	**21070**203
		HEX 1/4" QC	80 mm	**210705515**			✓				✓	✓		6,35 x 80 mm	**21070**201
			90 mm	**210705515B**				✓		✓			✓	6,35 x 90 mm	**21070**202
		HEX 8,5	80 mm	**210705519**			✓				✓	✓		6,35 x 80 mm	**21070**201
			80 mm TCT	**210706519**			✓		✓					6,35 x 80 mm TCT	**21020**112
			90 mm	**210705519B**				✓		✓			✓	6,35 x 90 mm	**21070**202
		HEX 11	105 mm	**210705518**			✓				✓	✓		6,35 x 105 mm	**21070**200
			115 mm	**210705518B**				✓		✓			✓	6,35 x 115 mm	**21070**203
		SDS-PLUS	80 mm	**210705519SDS**			✓				✓	✓		6,35 x 80 mm	**21070**201
			90 mm	**210705519SDSB**				✓		✓			✓	6,35 x 90 mm	**21070**202
UNF 5/8 X 18 (Ø 32 ÷ 305) – PER SEGHE *for Hole saw* Ø 32-305		HEX 11	105 mm	**210705520**			✓				✓	✓		6,35 x 105 mm	**21070**200
			115 mm	**210705520B**				✓		✓			✓	6,35 x 115 mm	**21070**203
		HEX 1/4" QC	80 mm	**210705521**			✓				✓	✓		6,35 x 80 mm	**21070**201
			90 mm	**210705521B**				✓		✓			✓	6,35 x 90 mm	**21070**202
		HEX 8,5	80 mm	**210705546**			✓				✓	✓		6,35 x 80 mm	**21070**201
			80 mm TCT	**210706546**					✓					6,35 x 80 mm TCT	**21020**112
			115 mm TCT	**210708546**		✓								6,35 x 115 mm TCT	**21070**210
			90 mm	**210705546B**				✓		✓			✓	6,35 x 90 mm	**21070**202
		HEX 11	80 mm	**210705547**			✓				✓	✓		6,35 x 80 mm	**21070**201
			90 mm	**210705547B**				✓		✓			✓	6,35 x 90 mm	**21070**202
		SDS PLUS	80 mm	**210705546SDS**			✓				✓	✓		6,35 x 80 mm	**21070**201
			90 mm	**210705546SDSB**				✓		✓			✓	6,35 x 90 mm	**21070**202
		HEX 11	105 mm	**210705545**			✓				✓	✓		6,35 x 105 mm	**21070**200
			115 mm	**210705545B**				✓		✓			✓	6,35 x 115 mm	**21070**203

ACCESSORI PER SEGHE A TAZZA

EN *Hole saw accessories*
FR *Accessoires pour scies trépans*
ESP *Accesorios para sierras de corona*
PT *Acessórios para serras de trépano*

K-LOCK ALBERO A SGANCIO RAPIDO

Quick change arbor

UNIVERSALE - SI MONTA SULLE SEGHE A TAZZA DI TUTTE LE MARCHE. PER SEGHE DA 14 A 305 mm

Universal - It fits on hole saws of all brands. For hole saws from 14 to 305 mm

FILETTATURA *Thread*	IMMAGINE *Image*	COMPOSIZIONE *Description*	COD.	CAD/*each* €	MULTI MATERIALE	LEGNO *Wood*	MATERIALI EDILI	METALLO *Metal*				
					TCT		CARBURO	HSS-CO8%	HSS M3			HSS-CO8%
					21099	05078	21105	21090	21058	21060	21067	21065
UNIVERSALE *Universal* UNF 1/2 X 20 (Ø 14 ÷ 30) UNF 5/8 X 18 (Ø 32 ÷ 305)		1 x albero K-Lock *1 x K-Lock arbor* 1 x punta pilota L 95 mm *1 x pilot drill L 95 mm* 1x punta pilota L 100 mm *1x pilot drill L 100 mm* 1x adattatore 1/2" X 20 UNF *1x adaptor 1/2" X 20 UNF* 1x adattatore 5/8" X 18 UNF *1x adaptor 5/8" X 18 UNF*	**21070**4050	consultare listino *see price list*	✓	✓	✓	✓	✓	✓	✓	✓
		Kit adattatori universali, 5 pz. 2x 1/2" x 20 UNF 3x 5/8" x 18 UNF 1 x punta pilota L 95 mm *1 x pilot drill L 95 mm*	**21070**4051		✓	✓	✓	✓	✓	✓	✓	✓

	IMMAGINE *Image*	MATERIALE *Material*	DIMENSIONI *Dimensions*	PCS.	COD.	CAD / EACH €
Punta pilota di ricambio *Spare pilot drill*		TCT	6,3 x 80 mm	1	**21020**112	consultare listino *see price list*
		TCT	6,3 x 115 mm	1	**21070**210	
		HSS	6,35 x 80 mm	5	**21070**201	
		HSS	6,35 x 90 mm	5	**21070**202	
		HSS	6,35 x 105 mm	5	**21070**200	
		HSS	6,35 x 115 mm	5	**21070**203	
Punta pilota di ricambio per K-Lock *Spare pilot drill for K-Lock*		HSS	6,35 x 90 mm	1	**21070**208	
		HSS	6,35 x 105 mm	1	**21070**209	

ACCESSORI PER SEGHE A TAZZA *hole saw accessories*	IMMAGINE *Image*	DIMENSIONI *Dimensions*	PCS.	COD.	CAD / EACH €
Adattatore *Adaptor*		UNF 1/2 x 20 -> UNF 5/8 x 18	1	**21070**300	consultare listino *see price list*
Prolunga *Extension*		HEX 11 -> HEX 11 - L=300mm	1	**21070**302	
Albero pilota allargafori *Hole Saw Arbor*		6,35 x 45mm -> UNF 1/2x20+UNF 5/8x18	1	**21070**199	



ALBERO PILOTA ALLARGAFORI
Hole Saw Arbor
Utile per centrarsi quando bisogna allargare fori già esistenti
Essential for centering when you need to enlarge existing holes

CODOLO ***Shank*** **6,35 mm**
compatibile con tutti alberi per seghe a tazza con foro 6,35
compatible with all hole saw arbor with 6,35 pilot drill

DOPPIO FILETTO ***dual thread*** **UNF 1/2 X 20 + UNF 5/8 X 18**
compatibile con tutte le seghe a tazza con attacco filettato
compatible with all hole saws with UNF connection





COME USARLO
- Avvitare all'albero principale la sega a tazza del diametro del foro da realizzare.
- Rimuovere la punta pilota dall'albero principale.
- Montare la sega a tazza dello stesso diametro del foro preesistente sull'albero pilota ed inserirlo quindi sull'albero principale.

How to use it
- *Screw the hole saw matching the required hole diameter onto the main arbor.*
- *Remove the pilot drill from the main arbor.*
- *Mount the hole saw matching the existing hole diameter onto the pilot arbor, then insert it into the main arbor.*

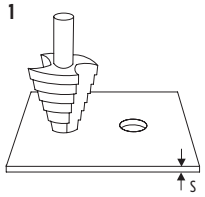
PUNZONI STANDARD CON CUSCINETTO

EN *Standard ball bearing punches*
FR *Emporte pieces standard*
ESP *Punzonador standard*
PT *Furos standard com rolamentos de esferas*

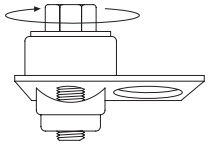
26070



1



2



Ø mm	Pg/M	S	cod.	cad/each €
10		1,5	**26070**01000	consultare
11		1,5	**26070**01100	listino
12		1,5	**26070**01200	*see price list*
12,5	Pg 7 M 12x1,5	1,5	**26070**01250	
13		1,5	**26070**01300	
14		1,5	**26070**01400	
15		1,5	**26070**01500	
15,2	Pg 9	1,5	**26070**01520	
16		2	**26070**01600	
16,5	M 16x1,5	2	**26070**01650	
17		2	**26070**01700	
18		2	**26070**01800	
18,6	Pg 11	2	**26070**01860	
19		2	**26070**01900	
20		2	**26070**02000	
20,5	Pg 13,5 M 20x1,5	2	**26070**02050	
21		2	**26070**02100	
22		2	**26070**02200	
22,5	Pg 16	2	**26070**02250	
23		2	**26070**02300	
24		2	**26070**02400	
25		2	**26070**02500	
25,5	M 25x1,5	2	**26070**02550	
26		2	**26070**02600	
27		2	**26070**02700	
28		2	**26070**02800	
28,3	Pg 21	2	**26070**02830	
29		2	**26070**02900	
30		2	**26070**03000	
30,5		2	**26070**03050	
32		2	**26070**03200	
32,5	M 32x1,5	2	**26070**03250	
33		2	**26070**03300	
34		2	**26070**03400	
35		2	**26070**03500	
36		2	**26070**03600	

Ø mm	Pg/M	S	cod.	cad/each €
37	Pg 29	2	**26070**03700	consultare
38		2	**26070**03800	listino
39		2	**26070**03900	*see price list*
40		2	**26070**04000	
40,5	M 40x1,5	3	**26070**04050	
41		2	**26070**04100	
42		2	**26070**04200	
43		2	**26070**04300	
44		2	**26070**04400	
45		2	**26070**04500	
46		2	**26070**04600	
47	Pg 36	2	**26070**04700	
48		2	**26070**04800	
50		2	**26070**05000	
50,5	M 50x1,5	4	**26070**05050	
51		3	**26070**05100	
52		3	**26070**05200	
52,5		3	**26070**05250	
54	Pg 42	3	**26070**05400	
55		3	**26070**05500	
57		3	**26070**05700	
58		3	**26070**05800	
59		3	**26070**05900	
60	Pg 48	3	**26070**06000	
60,5		3	**26070**06050	
61		3	**26070**06100	
62		3	**26070**06200	
63		3	**26070**06300	
63,5	M 63x1,5	3	**26070**06350	
64		3	**26070**06400	
65		3	**26070**06500	
70		3,5	**26070**07000	
73		3,5	**26070**07300	
75		3,5	**26070**07500	
80		3,5	**26070**08000	
85		3,5	**26070**08500	
89		3,5	**26070**08900	
102		3,5	**26070**10200	

26071

TIRANTI CON CUSCINETTI

Draw stud



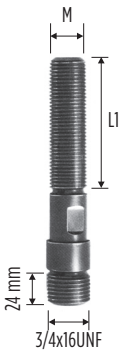
Per punzoni *For punches*	M	a	cod.	cad/each €
Ø 10÷13	6x1	5	**26071**06X1	consultare
Ø 14÷15.2	8x1	13	**26071**08X1	listino
Ø 16÷38	10x1	17	**26071**10X1	*see price list*
Ø 39÷50	12x1,5	19	**26071**12X15	
Ø 51÷62	16x1,5	24	**26071**16X15	
Ø 63÷85	20x1,5	30	**26071**20X15	
Ø 86÷102	24x1,5	36	**26071**24X15	

a = Dimensione della chiave per la testa del tirante
a = Wrench size for the drawbar head

26084

TIRANTI PER POMPA IDRAULICA

Draw stud for hydraulic pump



Per punzoni *For punches*	M	L1	cod.	cad/each €
Ø14÷15,2	8 x 1	38	**26084**08x1	consultare
Ø16÷38	10 x 1	40	**26084**10x1	listino
Ø39÷50	12 x 1,5	50	**26084**12x15	*see price list*
Ø51÷62	16 x1,5	60	**26084**16x15	
Ø63÷85	20 x 1,5	73	**26084**20x15	
Ø89÷102	24 x 1,5	81	**26084**24x15	

Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Adatti per fori precisi in lamiere di acciaio, acciaio inox, tutti i metalli, plastica
For precise holes in steel and stainless steel metal sheets, metals, plastics

ASSORTIMENTI PUNZONI

EN *Set of ball bearing punches*
FR *Jeu de poinçons*
ESP *Juego de punzones para cojinetes de bolas*
PT *Conjunto de furos com rolamentos de esferas*

ASSORTIMENTI PUNZONI

Set of ball bearing punches



Utilizzo con chiave
To be used with wrench

Art. 26085100

Composizione
Description

Pg 7 - Pg 29

Ø 12,5 - 15,2 - 18,6
20,5 - 22,5 - 28,3 - 37



Utilizzo con chiave
To be used with wrench

Art. 26085110

Composizione
Description

Pg 7 - Pg 48

Ø 12,5 - 15,2 - 18,6
20,5 - 22,5 - 28,3
37 - 47 - 54 - 60

Ø 7÷21 mm

Art. 26085111

Composizione
Description

M 12x1,5 - M 63x1,5

Ø 12,5 - 16,5 - 20,5
25,5 - 32,5 - 40,5
50,5 - 63,5

Ø 7÷21 mm

Utilizzo con pompa idraulica
To be used with hydraulic pump

Art. 26085112

Composizione
Description

Pg 9 - Pg 48

Ø 15,2 - 18,6 - 20,5
22,5 - 28,3 - 37
47 - 54 - 60

Art. 26085113

Composizione
Description

M 16x1,5 - M 63x1,5

Ø 16,5 - 20,5 - 25,5
32,5 - 40,5 - 50,5
63,5


KRINO

PUNTE A GRADINO E SVASATORI

Subland twist drills and countersinks

Forets étagés et fraise conique

Brocas helicoidales y avellanadoras subland

Brocas helicoidais e escareadores escalonadas

PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 180°

EN *Subland twist drills for through screw holes - 180°*
FR *Forets étagés Pour trous débouchants – 180°*
ESP *Brocas helicoidales subland para roscados pasantes - 180°*
PT *Brocas helicoidais escalonadas para furos de passagem de parafusos - 180°*

01103 HSS DIN 8376

180° - GRADO FINE
180° - Fine grade

Eliche indipendenti
Independent spirals





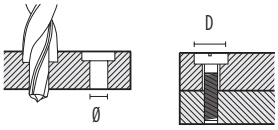
Confezione
Packaging

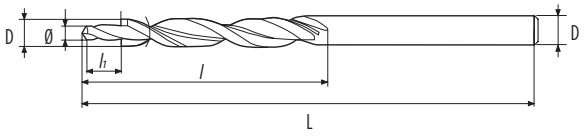
Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Vite *Thread*	Ø mm	D mm	l_1 mm	l mm	L mm	cod.	cad / each €
M 3	3,4	6	9	57	93	**01103**0300	consultare listino
4	4,5	8	11	75	117	**01103**0400	*see price list*
5	5,5	10	13	87	133	**01103**0500	
6	6,6	11	15	94	142	**01103**0600	
8	9	15	19	114	169	**01103**0800	
10	11	18	23	130	191	**01103**1000	





01059 HSS DIN 8376

180° - GRADO FINE - SERIE CORTA
180° - Fine grade - Short serie

Elica singola
Single spiral



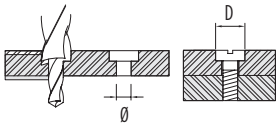


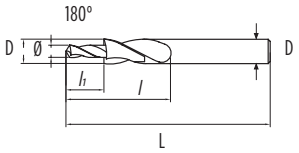
Confezione
Packaging

Acciaio
Steel

Metalli
Metals

Vite *Thread*	Ø mm	D mm	l_1 mm	l mm	L mm	cod.	cad / each €
M 3	3,4	6	9	28	66	**01059**0300	consultare listino
4	4,5	8	11	37	79	**01059**0400	*see price list*
5	5,5	10	13	43	89	**01059**0500	
6	6,6	11	15	47	95	**01059**0600	
8	9,0	15	19	56	111	**01059**0800	
10	11,0	18	23	62	123	**01059**1000	





01104 HSS DIN 8377

180° - GRADO FINE - CODOLO CONICO
180° - Fine grade - Taper shank

Eliche indipendenti
Independent spirals





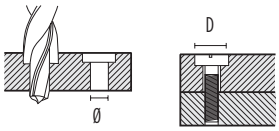
Confezione
Packaging

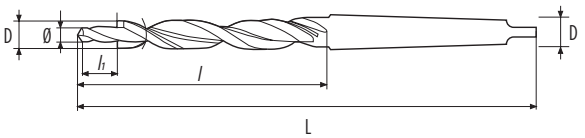
Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Vite *Thread*	Ø mm	D mm	l_1 mm	l mm	L mm	CM *MK*	cad / each cod.	€
M 5	5,5	10	13	87	168	1	**01104**0500	consultare listino
6	6,6	11	15	94	175	1	**01104**0600	*see price list*
8	9	15	19	114	212	2	**01104**0800	
10	11	18	23	130	228	2	**01104**1000	
12	13,5	20	27	140	238	2	**01104**1200	
14	15,5	24	31	160	281	3	**01104**1400	
16	17,5	26	35	165	286	3	**01104**1600	
18	20	30	39	175	296	3	**01104**1800	
20	22	33	43	185	334	4	**01104**2000	





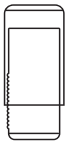
PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 180°

EN *Subland twist drills for through screw holes - 180°*
FR *Forets étagés Pour trous débouchants – 180°*
ESP *Brocas helicoidales subland para roscados pasantes - 180°*
PT *Brocas helicoidais escalonadas para furos de passagem de parafusos - 180°*

01273 HSS DIN 373

180° - GRADO FINE
180° - Fine grade





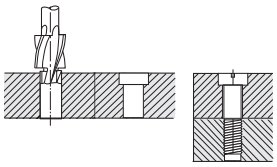
Confezione
Packaging

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Vite		Ø	D	L	d		cad / each
Thread		mm	mm	mm	mm	cod.	€
M	3	6	3,2	71	5	**0127**303	consultare listino
	4	8	4,3	71	5	**0127**304	*see price list*
	5	10	5,3	80	8	**0127**305	
	6	11	6,4	80	8	**0127**306	
	8	15	8,4	100	12,5	**0127**308	
	10	18	10,5	100	12,5	**0127**310	
	12	20	13,0	100	12,5	**0127**312	



Grado fine per viteria/bulloneria di precisione.
Fine grade to fit precision screwing.



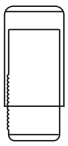
Art. 01275100

6 pcs
M 3÷10

01274 HSS DIN 373

180° - GRADO MEDIO
180° - Medium grade





Confezione
Packaging

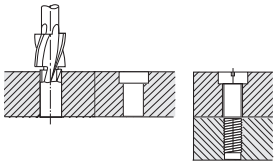
Acciaio
Steel

Metalli
Metals

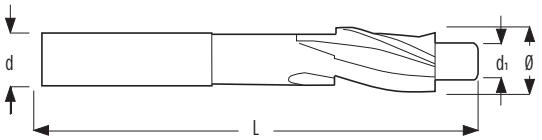
Alluminio
Aluminum

Vite		Ø	D	L	d		cad / each
Thread		mm	mm	mm	mm	cod.	€
M	*3	6	3,4	71	5	**0127**403	consultare listino
	*4	8	4,5	71	5	**0127**404	*see price list*
	5	10	5,5	80	8	**0127**405	
	6	11	6,6	80	8	**0127**406	
	8	15	9,0	100	12,5	**0127**408	
	10	18	11,0	100	12,5	**0127**410	
	12	20	14,0	100	12,5	**0127**412	

*In esaurimento
**Running out*



Grado medio per meccanica standard.
Medium grade to fit standard coupling.



PUNTE A GRADINO PER FORI PASSANTI DI SEDI VITI - 90°

EN *Subland twist drills for through screw holes - 90°*
FR *Forets étagés Pour trous débouchants – 90°*
ESP *Brocas helicoidales subland para roscados pasantes - 90°*
PT *Brocas helicoidais escalonadas para furos de passagem de parafusos - 90°*

01101 HSS DIN 8374

90° - GRADO FINE
90° - Fine grade

Eliche indipendenti
Independent spirals



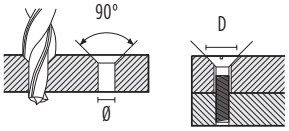
Confezione
Packaging

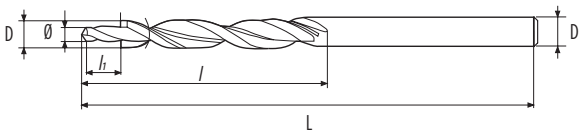
Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Vite *Thread*		Ø mm	D mm	l_1 mm	l mm	L mm	cod.	cad / each €
M	3	3,2	6	9	57	93	**01101**0300	consultare listino
	4	4,3	8	11	75	117	**01101**0400	*see price list*
	5	5,3	10	13	87	133	**01101**0500	
	6	6,4	11,5	15	94	142	**01101**0600	
	8	8,4	15	19	114	169	**01101**0800	
	10	10,5	19	23	135	198	**01101**1000	





01058 HSS DIN 8374

90° - GRADO FINE - SERIE CORTA
90° - Fine grade - Short serie

Elica singola
Single spiral

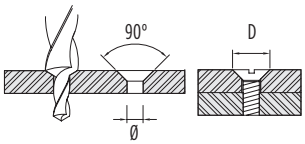


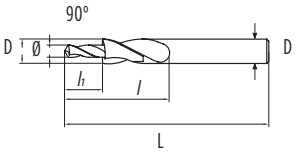
Confezione
Packaging

Acciaio
Steel

Metalli
Metals

Vite *Thread*		Ø mm	D mm	l_1 mm	l mm	L mm	cod.	cad / each €
M	3	3,2	6	9	28	66	**01058**0300	consultare listino
	4	4,3	8	11	37	79	**01058**0400	*see price list*
	5	5,3	10	13	43	89	**01058**0500	
	6	6,4	11,5	15	47	95	**01058**0600	
	8	8,4	15	19	56	111	**01058**0800	
	10	10,5	19	23	62	123	**01058**1000	





01102 HSS DIN 8375

90° - GRADO FINE - CODOLO CONICO
90° - Fine grade - Taper shank

Eliche indipendenti
Independent spirals



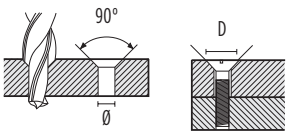
Confezione
Packaging

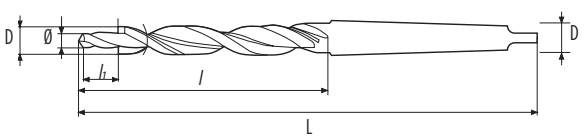
Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Vite *Thread*		Ø mm	D mm	l_1 mm	l mm	L mm	CM *MK*	cod.	cad / each €
M	5	5,5	11	13	94	175	1	**01102**0500	consultare listino
	6	6,6	13	15	101	182	1	**01102**0600	*see price list*
	8	9	17,2	19	130	228	2	**01102**0800	
	10	11	21,5	23	150	248	2	**01102**1000	





PUNTE A GRADINO E FRESE PER PREFORI DI FILETTATURA

EN *Subland twist drills and deburring tools for thread core holes*
FR *Foret étagés et outils d'ébavurage pour trous de filetage*
ESP *Brocas helicoidales subland y herramientas de desbarbado para orificios de núcleo de rosca*
PT *Brocas helicoidais e ferramentas de rebarbação escalonadas para furos de rosca*

01117 HSS DIN 8378

90° - PER PREFORI DI FILETTATURE
90° - For thread core hole

Eliche indipendenti
Independent spirals



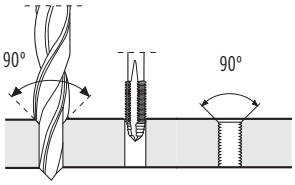
Confezione
Packaging

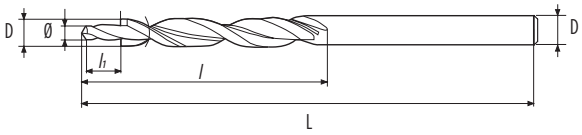


Vite Thread		Ø mm	D mm	l_1 mm	l mm	L mm	cod.	cad / each €
M	4	3,3	4,5	11,4	47	80	**01117**0400	consultare listino
	5	4,2	5,5	13,6	57	93	**01117**0500	*see price list*
	6	5	6,6	16,5	63	101	**01117**0600	
	8	6,8	9,0	21	81	125	**01117**0800	
	10	8,5	11	25,5	94	142	**01117**1000	
	12	10,2	13,5	30	108	160	**01117**1200	

Acciaio
Steel

Metalli
Metals





01057 HSS DIN 8378

90° - PER PREFORI DI FILETTATURE - SERIE CORTA
90° - For thread core hole - Short serie

Elica singola
Single spiral



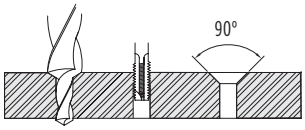
Confezione
Packaging

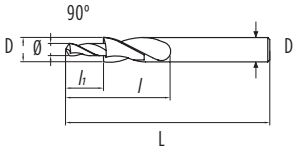


Vite Thread		Ø mm	D mm	l_1 mm	l mm	L mm	cod.	cad / each €
M	3	2,5	3,4	8,8	20	52	**01057**0300	consultare listino
	4	3,3	4,5	11,4	24	58	**01057**0400	*see price list*
	5	4,2	5,5	13,6	28	66	**01057**0500	
	6	5,0	6,6	16,5	31	70	**01057**0600	
	8	6,8	9,0	21,0	40	84	**01057**0800	
	10	8,5	11,0	25,5	47	95	**01057**1000	
	12	10,2	13,5	30,0	54	107	**01057**1200	

Acciaio
Steel

Metalli
Metals



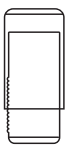


01272 HSS DIN 373

180° - PER PREFORI DI FILETTATURE
180° - For thread core hole



Confezione
Packaging



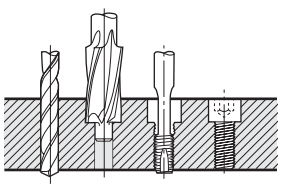
Vite Thread		Ø mm	d_1 mm	L mm	d mm	cod.	cad / each €
M	*4	8	3,3	71	5	**01272**04	consultare listino
	5	10	4,2	80	8	**01272**05	*see price list*
	6	11	5,0	80	8	**01272**06	
	8	15	6,8	100	12,5	**01272**08	
	10	18	8,5	100	12,5	**01272**10	
	12	20	10,2	100	12,5	**01272**12	

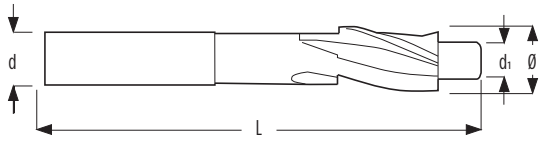
*In esaurimento
**Running out*

Acciaio
Steel

Metalli
Metals

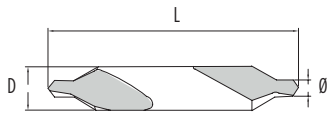
Alluminio
Aluminum





PUNTE A CENTRARE

EN *Center drills*
FR *Forets à centrer*
ESP *Brocas de centrar*
PT *Brocas de centrar*



01110 HSS-G DIN 333/A

60°

HSS-G



k12 Ø mm	D h8 mm	L mm	pcs.	cod.	cad/each €
1	3,15	31,5	1	**01110**0100	consultare
1,6	4	35,5	1	**01110**0160	listino
2	5	40	1	**01110**0200	*see price list*
2,5	6,3	45	1	**01110**0250	
3,15	8	50	1	**01110**0315	
4	10	56	1	**01110**0400	
5	12,5	63	1	**01110**0500	
6,3	16	71	1	**01110**0630	

01214 HSS-G TiN DIN 333/A

60°

HSS-G + TiN



k12 Ø mm	D h8 mm	L mm	pcs.	cod.	cad/each €
1	3,15	31,5	1	**01214**0100	consultare
1,6	4	35,5	1	**01214**0160	listino
2	5	40	1	**01214**0200	*see price list*
2,5	6,3	45	1	**01214**0250	
3,15	8	50	1	**01214**0315	
4	10	56	1	**01214**0400	
5	12,5	63	1	**01214**0500	
6,3	16	71	1	**01214**0630	

01374 HSS-G DIN 333/A

60° - ESECUZIONE PROLUNGATA
60° - Long type

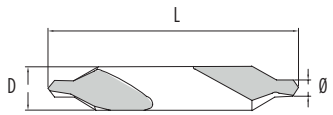
HSS-G



Ø mm	D mm	L mm	pcs.	cod.	cad/each €
1	4	120	1	**01374**0100	consultare
1,6	5	120	1	**01374**0160	listino
2	6	120	1	**01374**0200	*see price list*
2,5	8	120	1	**01374**0250	
3,15	10	120	1	**01374**0315	

PUNTE A CENTRARE

EN *Center drills*
FR *Forets à centrer*
ESP *Brocas de centrar*
PT *Brocas de centrar*



01112 HSS-G DIN 333/B

60° / 120°

HSS-G



Ø mm	D mm	L mm	pcs.	cod.	cad/each €
1	4	35,5	1	**01112**0100	consultare
1,6	6,3	45	1	**01112**0160	listino
2	8	50	1	**01112**0200	*see price list*
2,5	10	56	1	**01112**0250	
3,15	11,2	60	1	**01112**0315	
4	14	67	1	**01112**0400	
5	18	75	1	**01112**0500	
6,3	20	80	1	**01112**0630	

01217 HSS-G TiN DIN 333/B

60° / 120°

HSS-G + TiN

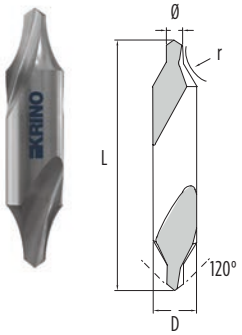


Ø mm	D mm	L mm	pcs.	cod.	cad/each €
1	4	35,5	1	**01217**0100	consultare
1,6	6,3	45	1	**01217**0160	listino
2	8	50	1	**01217**0200	*see price list*
2,5	10	56	1	**01217**0250	
3,15	11,2	60	1	**01217**0315	
4	14	67	1	**01217**0400	
5	18	75	1	**01217**0500	
6,3	20	80	1	**01217**0630	

01111 HSS-G DIN 333/R

A RAGGIO
With radius

HSS-G



Ø mm	r	D mm	L mm	pcs.	cod.	cad/each €
1	3,15	3,15	31,5	1	**01111**0100	consultare
1,6	5	4	35,5	1	**01111**0160	listino
2	6,3	5	40	1	**01111**0200	*see price list*
2,5	8	6,3	45	1	**01111**0250	
3,15	10	8	50	1	**01111**0315	
4	12,5	10	56	1	**01111**0400	
5	16	12,5	63	1	**01111**0500	
6,3	20	16	71	1	**01111**0630	

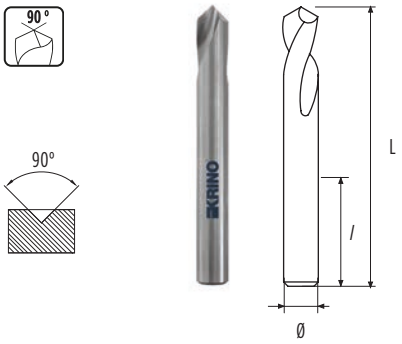
PUNTE A CENTRARE CILINDRICHE PER CENTRI CN

EN *Center drills for CN machines*
FR *Forets à centrer en carbure pour CN*
ESP *Brocas de puntear CN en metal duro integral*
PT *Berbequins de centrar para máquinas CN*

01361 — VHM

METALLO DURO
Carbide

90°



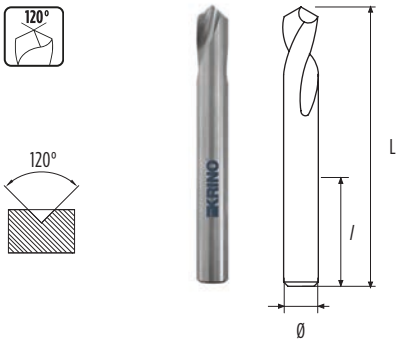
h7 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
8	20	63	1	**013610800**	consultare
10	22	72	1	**013611000**	listino
12	22	73	1	**013611200**	*see price list*
14	25	75	1	**013611400**	
16	25	82	1	**013611600**	
20	30	104	1	**013612000**	

In esaurimento
Running out

01363 — VHM

METALLO DURO
Carbide

120°

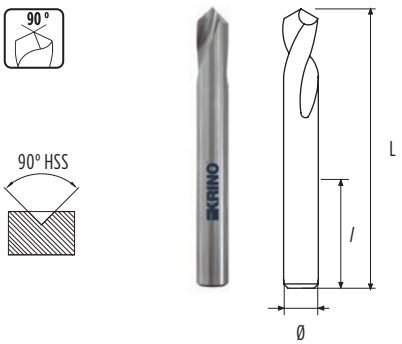


h7 Ø mm	l mm	L mm	pcs.	cod.	cad/each €
5	10	50	1	**013630500**	consultare
6	15	50	1	**013630600**	listino
8	20	63	1	**013630800**	*see price list*
14	25	75	1	**013631400**	
16	25	82	1	**013631600**	
20	30	104	1	**013632000**	

In esaurimento
Running out

01364 — HSS-G

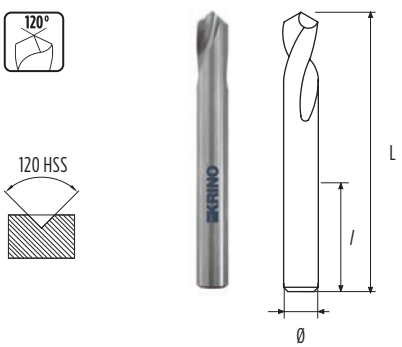
90°



Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	12	46	1	**013640300**	consultare
4	12	55	1	**013640400**	listino
5	14	62	1	**013640500**	*see price list*
6	16	66	1	**013640600**	
8	21	79	1	**013640800**	
10	25	89	1	**013641000**	
12	30	102	1	**013641200**	
14	33	107	1	**013641400**	
16	37	115	1	**013641600**	
20	45	131	1	**013642000**	

01365 — HSS-G

120°



Ø mm	l mm	L mm	pcs.	cod.	cad/each €
3	12	46	1	**013650300**	consultare
4	12	55	1	**013650400**	listino
8	21	79	1	**013650800**	*see price list*
12	30	102	1	**013651200**	
16	37	115	1	**013651600**	
20	45	131	1	**013652000**	

In esaurimento
Running out

SVASATORI A 3 TAGLIENTI A 90° IN METALLO DURO

EN *90° 3 flutes carbide countersinks*
FR *Fraise conique à 90° en carbure avec 3 coupes*
ESP *3 avellanadores de metal duro de 90°*
PT *Escareadores de carboneto de 90° com 3 canais*

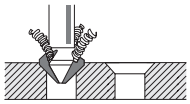
01264 | MD | TiAlN — DIN 335/C-90°

Carbide



Confezione
Packaging

per viti / *for screws*					
Ø h10	D h7	L	DIN 74 BF		cad / each
mm	mm	mm	◎	cod.	€
6,3	6	50	M 3	**01264**0630	consultare listino
8,3	6	50	M 4	**01264**0830	*see price list*
10,4	6	50	M 5	**01264**1040	
12,4	8	60	M 6	**01264**1240	
16,5	10	60	M 8	**01264**1650	
20,5	10	63	M 10	**01264**2050	
25	10	75	M 12	**01264**2500	



Inox
Stainless

Acciaio
Steel

Metalli
Metals

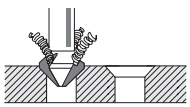
01263 | MD — DIN 335/C-90°

Carbide



Confezione
Packaging

per viti / *for screws*					
Ø h10	D h7	L	DIN 74 BF		cad / each
mm	mm	mm	◎	cod.	€
6,3	6	50	M 3	**01263**0630	consultare listino
8,3	6	50	M 4	**01263**0830	*see price list*
10,4	6	50	M 5	**01263**1040	
12,4	8	60	M 6	**01263**1240	
16,5	10	60	M 8	**01263**1650	
20,5	10	63	M 10	**01263**2050	
25	10	75	M 12	**01263**2500	



Inox
Stainless

Acciaio
Steel

Metalli
Metals

SVASATORI A 90° CON GEOMETRIA ASIMMETRICA DEI 3 TAGLIENTI E FORMA ELICOIDALE

EN *90° 3 uniqual cutting edges countersinks with spiral shape*
FR *Fraise conique à 90° inégales avec 3 coupes*
ESP *3 avellanadoras con filos de corte iguales 90° con forma de espiral*
PT *90° 3 arestas de corte desiguais escareadores com forma de espiral*

01265 **HSS** **~DIN 335/C-90°**

ASIMMETRICO ELICOIDALE
Asymmetrical helicoidal

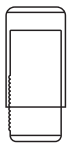




Pianetti antislittamento
Anti slip shank

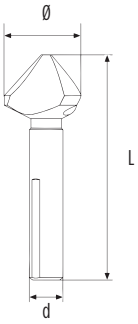


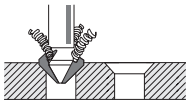




Confezione
Packaging

per viti / *for screws*						
Ø	D	L	DIN 74 AF	DIN 74 BF		cad / each
mm	mm	mm	⊖	⊙	cod.	€
6,3	5	45		M3	**01265**0630	consultare listino
8,3	6	50		M4	**01265**0830	*see price list*
10,4	6	50		M5	**01265**1040	
12,4	8	56		M6	**01265**1240	
15	10	60	M8		**01265**1500	
16,5	10	60		M8	**01265**1650	
20,5	10	63		M10	**01265**2050	
25	10	67		M12	**01265**2500	
31	12	71		M16	**01265**3100	







Art. 01270114

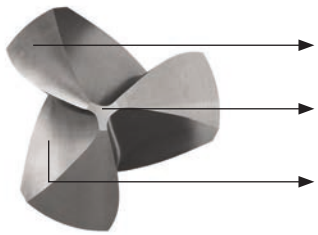
6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

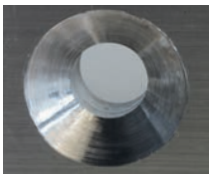


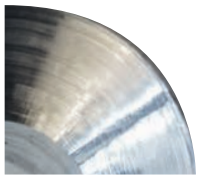
Acciaio
Steel



Metalli
Metals







MINORI VIBRAZIONI, FINITURA PERFETTA: la speciale forma elicoidale dei taglienti smorza sensibilmente le vibrazioni che si sviluppano durante le lavorazioni anche più gravose, contribuendo a migliorare il livello di finitura oltre che l'esperienza di utilizzo con elettroutensili portatili.

MASSIMA VELOCITÀ: la forma a spirale dei taglienti permette una più rapida ed efficiente espulsione dei trucioli, garantendo lavorazioni estremamente rapide.

HSS: utensile prodotto con acciaio super rapido di alta qualità, ideale per lavori di svasatura su acciai legati, ghise, tutti i metalli in generale.

PIANETTI ANTISLITTAMENTO: il codolo è dotato di tre le superfici rettificate che garantiscono la massima presa delle griffe eliminando il rischio di slittamento dell'utensile nel mandrino.

LESS VIBRATIONS, PERFECT FINISH: *the special helical shape of the cutting edges significantly REDUCES the vibrations that develop during the heaviest jobs, helping to improve the level of finish as well as the experience of using portable power tools.*

MAXIMUM SPEED: *the spiral shape of the cutting edges allows for faster and more efficient chip ejection, guaranteeing machining extremely fast.*

HSS: *tool produced with high quality super-rapid steel, ideal for flaring work on alloy steels, cast irons, all metals in general.*

ANTI-SLIP PLATES: *the SHANK is equipped with three ground surfaces that guarantee maximum grip of the jaws, eliminating the risk slippage of the tool in the spindle.*

SVASATORI A 90° CON GEOMETRIA ASIMMETRICA DEI 3 TAGLIENTI

EN *90° 3 uniqual cutting edges countersinks*
FR *Fraise conique à 90° inégales avec 3 coupes*
ESP *3 avellanadoras con filos de corte iguales 90°*
PT *90° 3 arestas de corte desiguais escareadores*

01267 HSS-CO ~DIN 335/C-90°

ASIMMETRICO
Asymmetrical

90°

Pianetti antislittamento
Anti slip shank

CBN
Z=3



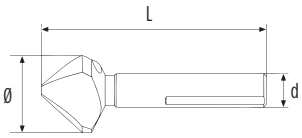
Confezione
Packaging

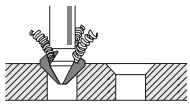
Inox
Stainless

Acciaio
Steel

Metalli
Metals

Ø mm	D mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	cad / each €
6,3	5	45		M3	**01267**0630	consultare listino
8,3	6	50		M4	**01267**0830	*see price list*
10,4	6	50		M5	**01267**1040	
12,4	8	56		M6	**01267**1240	
15	10	60	M8		**01267**1500	
16,5	10	60		M8	**01267**1650	
20,5	10	63		M10	**01267**2050	
25	10	67		M12	**01267**2500	
31	12	71		M16	**01267**3100	







Art. 01270113

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

01266 HSS ~DIN 335/C-90°

ASIMMETRICO
Asymmetrical

90°

Pianetti antislittamento
Anti slip shank

CBN
Z=3

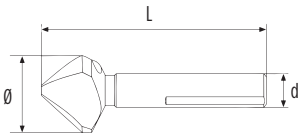


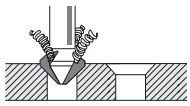
Confezione
Packaging

Acciaio
Steel

Metalli
Metals

Ø mm	D mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	cad / each €
6,3	5	45		M3	**01266**0630	consultare listino
8,3	6	50		M4	**01266**0830	*see price list*
10,4	6	50		M5	**01266**1040	
12,4	8	56		M6	**01266**1240	
15	10	60	M8		**01266**1500	
16,5	10	60		M8	**01266**1650	
20,5	10	63		M10	**01266**2050	
25	10	67		M12	**01266**2500	
31	12	71		M16	**01266**3100	

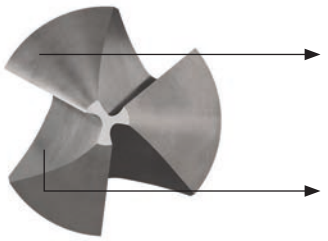






Art. 01270112

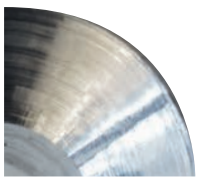
6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5



GEOMETRIA ASIMMETRICA
Unequal pitch

3 TAGLIENTI 90°
3 flutes 90°





GEOMETRIA ASIMMETRICA: la speciale geometria asimmetrica, grazie al differente angolo di spoglia di ciascun tagliente, garantisce una perfetta finitura del foro, che risulta tondo e liscio.

HSS E HSS-CO: utensile ideale per lavori di svasatura su acciai legati, ghise, tutti i metalli in generale e, nella versione al cobalto 5%, anche su acciaio inox.

PIANETTI ANTISLITTAMENTO: il codolo è dotato di tre superfici rettificate (per ø ≥12,4 mm) che garantiscono la massima presa delle griffe eliminando il rischio di slittamento dell'utensile nel mandrino.

ASYMMETRIC GEOMETRY: *the special asymmetric geometry, thanks to the different rake angle of each cutting edge, guarantees perfect finish of the hole, which is round and smooth.*

HSS and HSS-CO: *ideal tool for flaring work on alloy steels, cast irons, all metals in general and, in the 5% cobalt version, also on stainless steel.*

ANTI-SLIP PLATES: *the shank has three ground surfaces (for ø ≥12.4 mm) which guarantee maximum grip of the jaws eliminating the risk of tool slippage in the spindle.*

SVASATORI A 3 TAGLIENTI A 90°

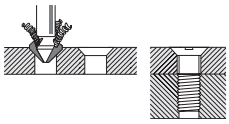
EN *90° 3 flutes countersinks*
FR *Fraise conique à 90° avec 3 coupes*
ESP *3 avellanadores de 90°*
PT *Escareadores de 90° com 3 canais*

01262 HSS-CO TiAlN DIN 335/C-90°



Confezione
Packaging

Ø mm	d mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	cad / each €
6,3	5	45		M 3	**012620**630	consultare listino
8,3	6	50		M 4	**012620**830	*see price list*
10,4	6	50		M 5	**012621**040	
12,4	8	56		M 6	**012621**240	
15	10	60	M 8		**012621**500	
16,5	10	60		M 8	**012621**650	
20,5	10	63		M 10	**012622**050	
25	10	67		M 12	**012622**500	
28	12	71		M 14	**012622**800	
30	12	71			**012623**000	
31	12	71		M 16	**012623**100	
40	15	80			**012624**000	





Art. 01270111

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Inox
Stainless

Acciaio
Steel

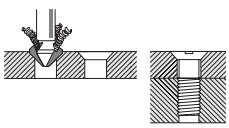
Metalli
Metals

01261 HSS-CO DIN 335/C-90°



Confezione
Packaging

Ø mm	d mm	L mm	per viti / *for screws* DIN 74 AF	DIN 74 BF	cod.	cad / each €
6,3	5	45		M 3	**012610**630	consultare listino
8,3	6	50		M 4	**012610**830	*see price list*
10,4	6	50		M 5	**012611**040	
12,4	8	56		M 6	**012611**240	
15	10	60	M 8		**012611**500	
16,5	10	60		M 8	**012611**650	
20,5	10	63		M 10	**012612**050	
25	10	67		M 12	**012612**500	
28	12	71		M 14	**012612**800	
30	12	71			**012613**000	
31	12	71		M 16	**012613**100	
40	15	80			**012614**000	





Art. 01270110

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Inox
Stainless

Acciaio
Steel

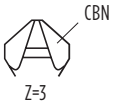
Metalli
Metals

SVASATORI A 3 TAGLIENTI A 90°

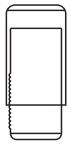
EN *90° 3 flutes countersinks*
FR *Fraise conique à 90° avec 3 coupes*
ESP *3 avellanadores de 90°*
PT *Escareadores de 90° com 3 canais*

01260 | **HSS** | **TiN** | **DIN 335/C-90°**

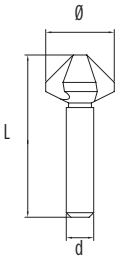




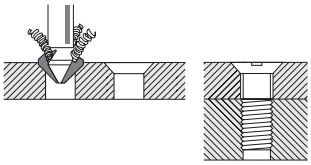




Confezione
Packaging



Ø	d	L	per viti / *for screws* DIN 74 AF	DIN 74 BF		cad / each
mm	mm	mm			cod.	€
4,3	4	40			**01260**0430	consultare listino
5	4	40	M 2,5		**01260**0500	*see price list*
5,3	4	40			**01260**0530	
5,8	5	45			**01260**0580	
6	5	45	M 3		**01260**0600	
6,3	5	45		M 3	**01260**0630	
7	6	50	M 3,5		**01260**0700	
7,3	6	50			**01260**0730	
8	6	50	M 4		**01260**0800	
8,3	6	50		M 4	**01260**0830	
9,4	6	50			**01260**0940	
10	6	50	M 5		**01260**1000	
10,4	6	50		M 5	**01260**1040	
11,5	8	56	M 6		**01260**1150	
12,4	8	56		M 6	**01260**1240	
13,4	8	56			**01260**1340	
15	10	60	M 8		**01260**1500	
16,5	10	60		M 8	**01260**1650	
19	10	63	M 10		**01260**1900	
20,5	10	63		M 10	**01260**2050	
23	10	67	M 12		**01260**2300	
25	10	67		M 12	**01260**2500	
26	12	67	M 14		**01260**2600	
28	12	71		M 14	**01260**2800	
30	12	71	M 16		**01260**3000	
31	12	71		M 16	**01260**3100	
40	15	80			**01260**4000	





Art. 01270109

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

Acciaio
Steel

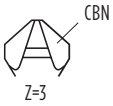
Metalli
Metals

SVASATORI A 3 TAGLIENTI A 90°

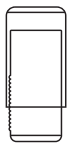
EN *90° 3 flutes countersinks*
FR *Fraise conique à 90° avec 3 coupes*
ESP *3 avellanadores de 90°*
PT *Escareadores de 90° com 3 canais*

01185 HSS DIN 335/C-90°

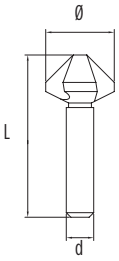




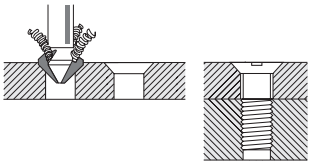




Confezione
Packaging



Ø	d	L	per viti / *for screws* DIN 74 AF	DIN 74 BF		cad / each
mm	mm	mm			cod.	€
4,3	4	40			**01185**0430	consultare listino
5	4	40	M 2,5		**01185**0500	*see price list*
5,3	4	40			**01185**0530	
5,8	5	45			**01185**0580	
6	5	45	M 3		**01185**0600	
6,3	5	45		M 3	**01185**0630	
7	6	50	M 3,5		**01185**0700	
7,3	6	50			**01185**0730	
8	6	50	M 4		**01185**0800	
8,3	6	50		M 4	**01185**0830	
9,4	6	50			**01185**0940	
10	6	50	M 5		**01185**1000	
10,4	6	50		M 5	**01185**1040	
11,5	8	56	M 6		**01185**1150	
12,4	8	56		M 6	**01185**1240	
13,4	8	56			**01185**1340	
15	10	60	M 8		**01185**1500	
16,5	10	60		M 8	**01185**1650	
19	10	63	M 10		**01185**1900	
20,5	10	63		M 10	**01185**2050	
23	10	67	M 12		**01185**2300	
25	10	67		M 12	**01185**2500	
26	12	67	M 14		**01185**2600	
28	12	71		M 14	**01185**2800	
30	12	71	M 16		**01185**3000	
31	12	71		M 16	**01185**3100	
40	15	80			**01185**4000	





Art. 01270107

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5



Acciaio
Steel



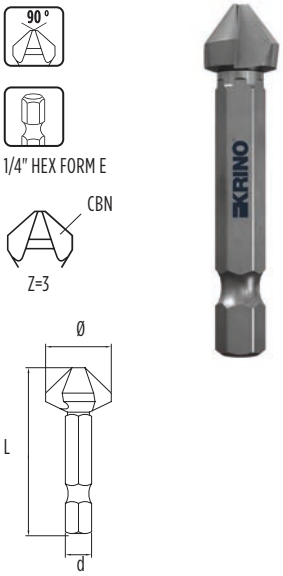
Metalli
Metals

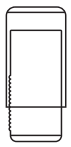
SVASATORI A 90° CON ATTACCO ESAGONALE 1/4”

EN *90° countersink with 1/4" hexagon shank*
FR *Fraise conique a 90° avec 6 pans de 1/4"*
ESP *Avellanador a 90° con vastago esagonal 1/4"*
PT *Escareador de 90° com haste hexagonal de 1/4"*

19003 HSS DIN 335/C-90°

ATTACCO 1/4" HEX FORM E
1/4" hex form E shank





Confezione
Packaging

per viti / *for screws*					
Ø	L	d	DIN 74 BF		cad / each
mm	mm	⬡	◎	cod.	€
6,3	40	1/4	M 3	**19003**0630	consultare listino
8,3	45	1/4	M 4	**19003**0830	*see price list*
10,4	47	1/4	M 5	**19003**1040	
12,4	49	1/4	M 6	**19003**1240	
16,5	52	1/4	M 8	**19003**1650	
20,5	55	1/4	M 10	**19003**2050	


Acciaio
Steel


Metalli
Metals

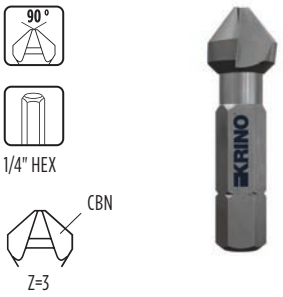
Universal Fit

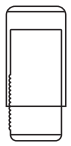




19001 HSS DIN 335/C-90°

ATTACCO 1/4" HEX
1/4" hex shank





Confezione
Packaging

per viti / *for screws*					
Ø	L	d	DIN 74 BF		cad / each
mm	mm	⬡	◎	cod.	€
6,3	31	1/4	M 3	**19001**063	consultare listino
8,3	31	1/4	M 4	**19001**083	*see price list*
10,4	34	1/4	M 5	**19001**104	
12,4	35	1/4	M 6	**19001**124	
16,5	40	1/4	M 8	**19001**165	
20,5	41	1/4	M 10	**19001**205	

SELF ART. 19002
Su richiesta / *On demand*

Manico
Handle



Ø x L		cad/each
mm	cod.	€
33 X 120	**19001**000	consultare listino
		see price list


Acciaio
Steel


Metalli
Metals





Art. 19020214

6 pcs
Ø 6,3 - 8,3 - 10,4
12,4 - 16,5 - 20,5

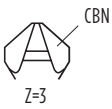
SVASATORI A 3 TAGLIENTI A 90°

EN *90° 3 flutes countersinks*
FR *Fraise conique à 90° avec 3 coupes*
ESP *3 avellanadores de 90°*
PT *Escareadores de 90° com 3 canais*

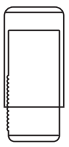
01193 HSS DIN 335/C-90°

SERIE LUNGA
Long serie









Confezione
Packaging

Ø mm	d mm	L mm	cod.	cad / each €
6,3	5	104	**01193**0630	consultare listino
8,3	6	105	**01193**0830	*see price list*
10,4	6	107	**01193**1040	
12,4	8	108	**01193**1240	
15	10	109	**01193**1500	
16,5	10	111	**01193**1650	
20,5	10	114	**01193**2050	
25	10	118	**01193**2500	

Lunghezza del codolo 100 mm
Shank lenght 100 mm

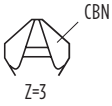

Acciaio
Steel


Metalli
Metals

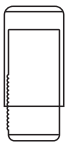
01196 HSS DIN 335/D-90°

CODOLO MORSE
Morse taper









Confezione
Packaging

Ø mm	CM *MK*	L mm	per viti / *for screws* DIN 74 AF ⊖	DIN 74 BF ⊙	cod.	cad / each €
15	1	85	M 8		**01196**1500	consultare listino
***16,5**	1	85		M 8	**01196**1650	*see price list*
***19**	2	100	M 10		**01196**1900	
20,5	2	100		M 10	**01196**2050	
***23**	2	106	M 12		**01196**2300	
25	2	106		M 12	**01196**2500	
***26**	2	106	M 14		**01196**2600	
***28**	2	112		M 14	**01196**2800	
30	2	112	M 16		**01196**3000	
***31**	2	112		M 16	**01196**3100	
37	2	118	M 20	M 20	**01196**3700	
40	3	140			**01196**4000	

*In esaurimento
**Running out*


Acciaio
Steel


Metalli
Metals

SVASATORI A 90°

EN *90° countersink*
FR *Fraise conique a 90°*
ESP *Avellanador a 90°*
PT *Escareador de 90°*

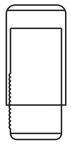
01192 — HSS — DIN 335/C 90°

1 TAGLIENTE
1 cutting edge









Confezione
Packaging

Ø mm	D mm	L mm	cod.	cad / each €
6	5	45	**01192**0600	consultare listino
8	6	50	**01192**0800	*see price list*
10	6	50	**01192**1000	
12	8	56	**01192**1200	
16	10	60	**01192**1600	
20	10	63	**01192**2000	
25	10	67	**01192**2500	
30	12	71	**01192**3000	



Metalli
Metals

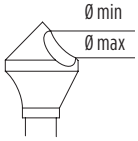


Plastica
Plastic

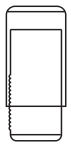
01188 — HSS

SPECIALE ALLUMINIO E PLASTICA
Special for aluminium and plastics



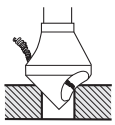






Confezione
Packaging

Gr.	Ø min - max	d mm	L mm	cod.	cad / each €
1	2 ÷ 5	6	45	**01188**01	consultare listino
2	5 ÷ 10	8	48	**01188**02	*see price list*
3	10 ÷ 15	10	65	**01188**03	
4	15 ÷ 20	12	85	**01188**04	
5	20 ÷ 25	15	102	**01188**05	
6	25 ÷ 30	15	115	**01188**06	
7	30 ÷ 35	15	127	**01188**07	
8	35 ÷ 40	15	136	**01188**08	
9	40 ÷ 50	20	166	**01188**09	



Speciale per alluminio, metalli leggeri e plastica. Lavora senza vibrazioni, ottima finitura.
For alluminium, metals and plastics. For deburring and small chamfers. Best surface finish. Works without vibrations.



Metalli
Metals



Alluminio
Aluminum



Plastica
Plastic

SVASATORI A 3 TAGLIENTI A 75° E 60°

EN *75° and 60° 3 flutes countersinks*
FR *Fraise conique à 75° et 60° avec 3 coupes*
ESP *3 avellanadores de 75° y 60°*
PT *Escareadores de 75° e 60° com 3 canais*

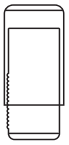
01197 HSS





Z=3





Confezione
Packaging

Ø mm	d mm	L mm	cod.	cad / each €
6,3	5	45	**01197**0630	consultare listino
8,3	6	50	**01197**0830	*see price list*
10,4	6	50	**01197**1040	
13,4	8	56	**01197**1340	
16,5	10	63	**01197**1650	
25	10	71	**01197**2500	

In esaurimento
Running out





Acciaio
Steel



Metalli
Metals

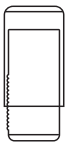
01186 HSS DIN 334/C-60°





Z=3





Confezione
Packaging

Ø mm	d mm	L mm	cod.	cad / each €
6,3	5	45	**01186**0630	consultare listino
8	6	50	**01186**0800	*see price list*
10	6	53	**01186**1000	
12,5	8	56	**01186**1250	
16	10	63	**01186**1600	
20	10	67	**01186**2000	



Acciaio
Steel



Metalli
Metals

SVASATORI MANUALI

EN *Manual countersink*
FR *Fraise conique manuelles*
ESP *Fresas de avellanar*
PT *Escareadores manuais*

01187 HSS DIN 335/C-90°







Ø mm	L mm	cod.	cad / each €
6,3	121	**01187**0630	consultare listino *see price list*
8,3	122	**01187**0830	
10,4	124	**01187**1040	
12,4	126	**01187**1240	
16,5	130	**01187**1650	
20,5	130	**01187**2050	

In esaurimento *Running out*

Manico *Handle*



Ø x L mm	cod.	cad/each €
33 X 120	**19001**000	consultare listino *see price list*

SELF ART. 01191
Su richiesta / *On demand*



Magnetico
Magnetic

Metalli
Metals

Plastica
Plastic

01190 HSS







Gr.	Ø min - max	L mm	cod.	cad / each €
1	10 ÷ 34	155	**01190**01	consultare listino *see price list*

Speciale per sbavare condutture elettriche, tubi in rame o tubi in generale e grossi fori.
Quick and effective deburring of electrical conduit, copper pipe or any tubes or large holes.

In esaurimento *Running out*

Metalli
Metals

Alluminio
Aluminum

Plastica
Plastic

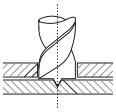
PUNTA FRESA IN HSS-CO PER RIMUOVERE PUNTI DI SALDATURA E PER FORARE LAMIERE IN GENERE

EN *HSS-CO spot drills*
FR *Fraise pour points de soudure*
ESP *Fresas para puntos de soldaduras*
PT *Brocas de ponto hss-co*

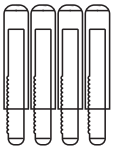
01169 HSS-CO TiN ≃ DIN 1897



~DIN 1412/E
≃ DIN 1897

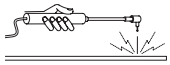






Confezione
Packaging

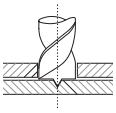
Ø mm	D mm	L mm	cod.	cad / each €
6	6	66	**01169**0600	consultare listino
7	7	74	**01169**0700	*see price list*
8	8	79	**01169**0800	
10	10	89	**01169**1000	



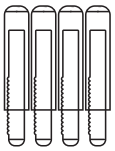
01171 HSS-CO ≃ DIN 1897



~DIN 1412/E
≃ DIN 1897

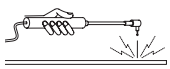






Confezione
Packaging

Ø mm	D mm	L mm	cod.	cad / each €
6	6	66	**01171**0600	consultare listino
7	7	74	**01171**0700	*see price list*
8	8	79	**01171**0800	
10	10	89	**01171**1000	

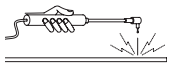


PUNTA FRESA IN HSS-CO PER RIMUOVERE PUNTI DI SALDATURA CON MACCHINE PNEUMATICHE

EN *Milling drill for removing spot welds with pneumatic tools*
FR *Fraise pour enlever les points de soudure avec machines pneumatiques*
ESP *Fresa para quitar los puntos de soldadura con las máquinas neumaticás*
PT *Broca de fresagem para remover pontos de soldadura com ferramentas pneumáticas*

01179 MD TiAlN

~DIN 1412/E





Ø mm	d mm	L mm	cod.	cad / each €
8	8	40	**01179**0800	consultare listino
10	8	44	**01179**1000	*see price list*

Velocità consigliata 10.000 giri/min
Recommended speed 10.000 rpm

In esaurimento
Running out

Speciale per taglio di acciai molto duri con carico di resistenza fino a 1500N/mm²; grande rendimento grazie all'accoppiamento metallo duro + rivestimento TiAlN multistrato.

Specially designed for cutting very hard metal sheets up to 1500N/mm² tensile strenght; great performances due to the combination of solid carbide and TiAlN multilayer coating.

Spécialement conçu pour la coupe d'aciers très durs présentant une résistance pouvant atteindre 1500 N/mm² ; rendement élevé grâce à l'association du carbure et d'un revêtement TiAlN multicouche.

Especial para el corte de aceros muy duros con una resistencia de hasta 1500 N/mm²; gran rendimiento gracias a la combinación de metal duro y recubrimiento TiAlN multicapa.

Especial para o corte de aços muito duros com resistência à tração de até 1.500 N/mm²; alto rendimento graças à combinação de metal duro com revestimento TiAlN multicamadas.

01173 HSS-CO TiN

~DIN 1412/E



Ø mm	d mm	L mm	cod.	cad / each €
6,5	6,5	40	**01173**0650	consultare listino
6,5	8	44	**01173**0650V	*see price list*
8	8	40	**01173**0800	
8	8	44	**01173**0800V	

Velocità consigliata 3.000 giri/min
Recommended speed 3.000 rpm

01172 HSS-CO

~DIN 1412/E



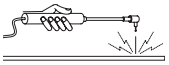
Ø mm	d mm	L mm	cod.	cad / each €
6,5	6,5	40	**01172**0650	consultare listino
6,5	8	44	**01172**0650V	*see price list*
8	8	40	**01172**0800	
8	8	44	**01172**0800V	

Velocità consigliata 3.000 giri/min
Recommended speed 3.000 rpm

FRESA PER RIMUOVERE I PUNTI DI SALDATURA SU LAMIERE METALLICHE

EN *Milling cutter for removing spot welds from metal sheets*
FR *Fraise pour enlever les points de soudure de la tôle*
ESP *Fresa para quitar los puntos de soldadura de las planchas metálicas*
PT *Fresa para remoção de pontos de soldadura a partir de chapas metálicas*

01174 **HSS**





Ø mm	D mm	L mm	cod.	cad / each €
10	7	72	**01174**100	consultare listino *see price list*

Ricambi
Spare parts





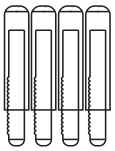
L mm	cod.	cad/each €
	01174101	consultare listino *see price list*
26	**01174**102	

PUNTA FRESA UNIVERSALE PER LA FORATURA E FRESATURA DI LAMIERE E MATERIALI SOTTILI IN LEGNO E PLASTICA

EN *Universal milling drill for cutting and milling metal sheets and thin wooden or plastic materials*
FR *Fraise universel pour couper et fraiser la tôle et les matériaux fins en bois ou plastique*
ESP *Fresa universal para cortar y fresar planchas y materiales finos de madera y plástico*
PT *Broca de fresagem universal para cortar e fresar chapas metálicas e materiais finos de madeira ou plástico*

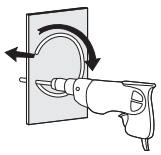
01175 **HSS**





Confezione
Packaging

Ø mm	cod.	cad / each €
6 x 90	**01175**0600	consultare listino *see price list*




Metalli
Metals


Legno
Wood


Plastica
Plastic

PUNTE PER TRACCIARE CON RIPORTO IN METALLO DURO

EN *Carbide scribers*
FR *Pointe carbure à tracer*
ESP *Punta para trazar*
PT *Escribas de metal duro*

0314201 **MD**



L mm	cod.	cad / each €
200	03142**01**	consultare listino *see price list*

0314202 **MD**

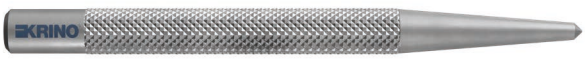


L mm	cod.	cad / each €
150	03142**02**	consultare listino *see price list*

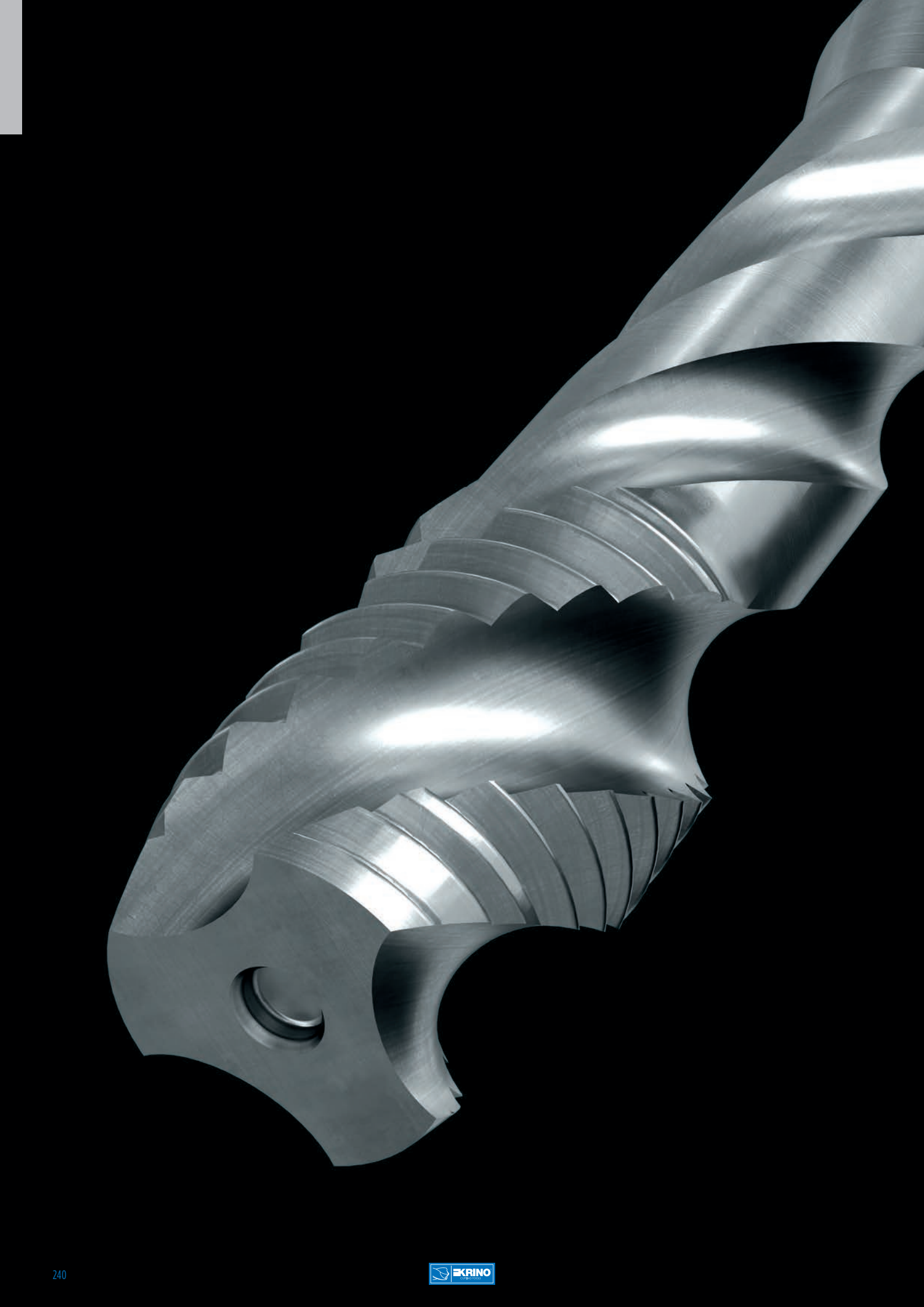
PUNTERUOLO

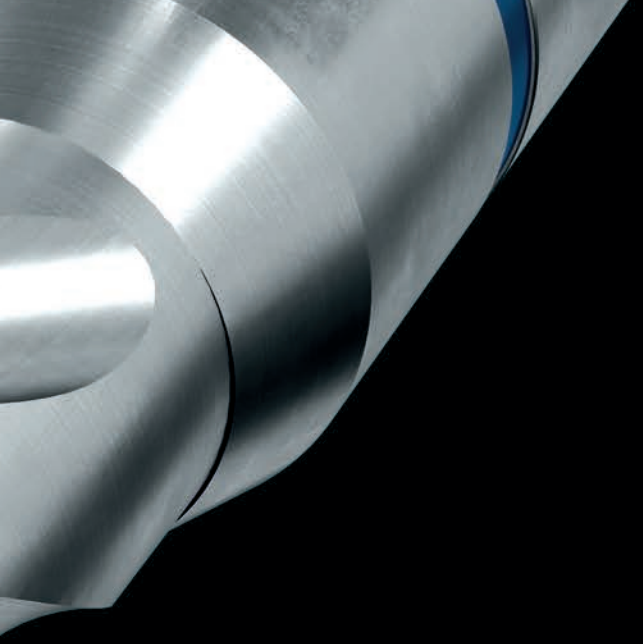
EN *Punch*
FR *Poinçon*
ESP *Punzonador*
PT *PUNCH*

41001 **C.V.**



L mm	cod.	cad / each €
78	410010**1**	consultare listino *see price list*





UTENSILI A FILETTARE: MASCHI A MACCHINA

Threading tools: Machine taps

Outils a fileter: Tarauds machine

Herramientas de roscado: Machos de maquina

Ferramentas de roscar: Machos de máquina

VISIONE D'INSIEME: MASCHI A MACCHINA

EN *Overview: Machine taps*
FR *Aperçu: Tarauds machine*
ESP *Visión general: Machos de maquina*
PT *Visão geral: Machos de máquina*

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	FORO PASSANTE/CIECO *Blind or trought holes*	SPECIALITÀ *Features*		DIAMETRO FORO *Hole diameter*	NORMA *Standard*	TOLLERANZA *Tolerance*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1200 N/mm² *Steel <1200 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO GHISA E LEGHE *Aluminium/cast iron/alloys*	R≤N/mm²	COD.	
HM	-	M		Con canaline *Internal cooling*		3 ÷ 10	371/C	6H							●		10340	247
HSS-E PM	TiAlN	M		-		3 ÷ 10 12 ÷ 20	371/B 376/B	6H		●	●	●	●	●	●	1400	10460	247
	TiN			-		3 ÷ 10 12 ÷ 20	371/B 376/B	6H		●	●	●	●	●	●	1300	10465	248
	TiN					2 ÷ 10 12 ÷ 20	371/C-40° 376/C-40°	6H		●	◐	●	●	●	●	1300	10466	248
HSS CO	VAPO	M		CON ANELLO COLORATO *with coloured ring*	UNIVERSALE *Universal*	3 ÷ 10 12 ÷ 20	371/B 376/B	6H		●		●	●	◐	◐	900	10515	249
	VAPO					3 ÷ 10 12 ÷ 20	371/C-40° 376/C-40°	6H		●		●	●	●	●	900	10516	249
	VAPO				INOX *Stainless steel*	3 ÷ 10	371/B	6H		●		●	●	◐	◐	1000	10504	250
	VAPO					12 ÷ 20	376/B	6H		●		●	●	◐	◐	1000	10505	250
	VAPO					3 ÷ 10	371C-40°	6H		●		●	●	●	●	1000	10506	250
	VAPO					12 ÷ 20	376C-40°	6H		●		●	●	●	●	1000	10507	250
	-				ACCIAI DURI *High Strength Steel*	3 ÷ 10	371/B	6H		●	●	●	●	◐	◐	1200	10500	251
	-					12 ÷ 20	376/B	6H		●	●	●	●	◐	◐	1200	10501	251
	-					3 ÷ 10	371C-40°	6H		●	●	●	●	●	●	1200	10502	251
	-					12 ÷ 20	376C-40°	6H		●	●	●	●	●	●	1200	10503	251
	-					4 ÷ 10	371/A	6H		●	●	●	●	●	◐	1200	10510	252
	-				ALLUMINIO *Aluminium*	3 ÷ 10	371/C-40°	6H		●		●	●	●	●	850	10511	252
	-					12 ÷ 16	376/C-40°	6H		●		●	●	●	●	850	10512	252
	-				GHISA *Cast iron*	3 ÷ 10	371/C	6H		●		●	●	●	◐	850	10508	253
	-					12 ÷ 20	376/C	6H		●		●	●	●	◐	850	10509	253
	VAPO			-		3 ÷ 10	371/B	6H		●		●	●	◐	◐	900	10297	254
	VAPO			-		12 ÷ 20	376/B	6H		●		●	●	◐	◐	900	10298	254
	VAPO			-		3 ÷ 10	371/C-35°	6H		●		●	●	●	●	900	10299	254
	VAPO			-		12 ÷ 20	376/C-35°	6H		●		●	●	●	●	900	10300	254

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	FORO PASSANTE/CIECO *Blind or trought holes*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	TOLLERANZA *Tolerance*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1200 N/mm² *Steel <1200 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO GHISA E LEGHE *Aluminium/cast iron/alloys*	R≤N/mm²	COD.	
HSS CO	-	M		-	1 ÷ 10	371/B	6H		●		●	●	●	●	850	10250	255
	-			-	3 ÷ 68	376/B	6H		●		●	●	●	●	850	10253	255
	-			-	3 ÷ 10	371/C	6H		●		●	●	●	●	850	10251	256
	-			-	3 ÷ 42	376/C	6H		●		●	●	●	●	850	10254	256
	-			-	3 ÷ 10	371/C-15°	6H		●		●	●	●	●	850	10256	257
	-			-	3 ÷ 24	376/C-15°	6H		●		●	●	●	●	850	10258	257
	-			-	3 ÷ 10	371/C-35°	6H		●		●	●	●	●	850	10255	258
	-			-	3 ÷ 42	376/C-35°	6H		●		●	●	●	●	850	10257	258
	-			LUNGHI *Long*	3 ÷ 12	371/B	6H		●	●	●	●	●	●	850	10291	259
	-				3 ÷ 12	371/C-35°	6H		●	●	●	●	●	●	850	10292	259
	-			CON CANALINE *Internal cooling*	5 ÷ 10	371/C-40°	6H		●	●	●	●	●	●	850	10330	260
	-			ALTERNATI *Interrupted threads*	3 ÷ 10	371/B	6H		●		●	●	●	●	850	10261	261
	-				12 ÷ 30	376/B	6H		●		●	●	●	●	850	10262	261
	-			SINISTRI *Left hand*	3 ÷ 10	371/B	6H		●		●	●	●	●	850	10277	262
	-				12 ÷ 30	376/B	6H		●		●	●	●	●	850	10278	262
	-				3 ÷ 10	371/C	6H		●		●	●	●	●	850	10263	262
	-				12 ÷ 24	376/C	6H		●		●	●	●	●	850	10264	262
	-				3 ÷ 10	371/C-35°	6H		●		●	●	●	●	850	10279	263
	-				12 ÷ 30	376/C-35°	6H		●		●	●	●	●	850	10288	263
	-			A RULLARE PER LAMIERE *Cold forming for sheets*	3 ÷ 16	2174	6H		●		●	●	●	●	850	10280	264
	TiN				3 ÷ 16	2174	6H		●	●	●	●	●	●	1200	10360	264
	-				3 ÷ 16	2174	6H		●		●	●	●	●	850	10281	265
	TiN				3 ÷ 16	2174	6H		●	●	●	●	●	●	1200	10361	265

VISIONE D'INSIEME: MASCHI A MACCHINA

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MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	FORO PASSANTE/CIECO *Blind or trought holes*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	TOLLERANZA *Tolerance*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1200 N/mm² *Steel <1200 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO GHISA E LEGHE *Aluminium/cast iron/alloys*	R≤N/mm²	COD.	
HSS CO	-	M		SOVRADIM. 6g *Oversize 6g*	3 ÷ 10 12	371/B 376/B	6H		●		●	●	●	●	850	10310	266
	-				3 ÷ 10	371/C-35°	6H		●		●	●	●	●	850	10313	266
	-			SOVRADIM. 7g *Oversize 7g*	3 ÷ 10 12	371/B 376/B	6H		●		●	●	●	●	850	10311	267
	-				3 ÷ 10 12	371/C-35° 376/C-35°	6H		●		●	●	●	●	850	10314	267
	-			SOVRADIM. +0,1mm *Oversize +0,1 mm*	3 ÷ 10 12	371/B 376/B	6H		●	●	●	●	●	●	850	10312	268
	-				3 ÷ 10 12	371/C-35° 376/C-35°	6H		●	●	●	●	●	●	850	10315	268
	-			PER DADI *For nuts*	3 ÷ 24	357	6H		●		●	●	●	●	850	10273	269
	-			PUNTA MASCHIO *Combined*	3 ÷ 12	357	6H		●	●	●	●	●	●	850	10290	269
	-	MF		-	3 ÷ 42	374/B	6H		●	●	●	●	●	●	850	10259	270
	-			-	4 ÷ 42	374/C	6H		●	●	●	●	●	●	850	10252	271
	-			-	3 ÷ 42	374/C-35°	6H		●	●	●	●	●	●	850	10260	272
	-			SINISTRI *Left hand*	4 ÷ 52	374/B	6H		●		●	●	●	●	850	10286	273
	-				4 ÷ 52	374/C-35°	6H		●		●	●	●	●	850	10287	274
	-	BSPP		-	1" ÷ 2"	5156/B	CLASSE A		●		●	●	●	●	850	10268	275
	-			-	1/8" ÷ 2"	5156/C	CLASSE A		●		●	●	●	●	850	10276	275
	-			-	1" ÷ 2"	5156C-35°	CLASSE A		●		●	●	●	●	850	10267	276
	-			SINISTRI *Left hand*	1/8" ÷ 1"	5156/C	CLASSE A		●		●	●	●	●	850	10289	276
	-	BSW		-	1/8" ÷ 3/8"	371/B	-		●	●	●	●	●	●	850	10265	277
	-			-	7/16" ÷ 1-1/2"	376/B	-		●	●	●	●	●	●	850	10266	277
	-			-	1/8" ÷ 3/8"	371C-35°	-		●	●	●	●	●	●	850	10274	277
	-			-	7/16" ÷ 1-1/2"	376C-35°	-		●	●	●	●	●	●	850	10275	277
	-	NPT		CONICO 1:16 *Taper 1:16*	1/8" ÷ 1"	-	-		●		●	●	●	●	850	10293	278
	-	NPS		CORTI *Short*	1/19" ÷ 1"	-	-		●		●	●	●	●	850	10308	279
	-				1/16" ÷ 1"	-	-		●		●	●	●	●	850	10309	279
	-	NPTF		CONICO 1:16 *Taper 1:16*	1/16" ÷ 1"	-	-		●		●	●	●	●	850	10306	280
	-				1/8" ÷ 1"	-	-		●		●	●	●	●	850	10307	280

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	FORO PASSANTE/CIECO *Blind or trought holes*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	TOLLERANZA *Tolerance*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1200 N/mm² *Steel <1200 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO GHISA E LEGHE *Aluminium/cast iron/alloys*	R≤N/mm²	COD.	
HSS CO	-	8-UN		-	1-1/8" ÷ 2-1/2"	529-2B	2B		●		●	●	●	●	850	10301	281
	-	UNEF		-	1/4" ÷ 2"	529	2B		●		●	●	●	●	850	10305	281
	-	UNC		-	6" ÷ 3/8"	ANSI B1.1	2B		●		●	●	●	●	850	10269	282
	-			-	7/16" ÷ 1-1/2"	ANSI B1.1	2B		●		●	●	●	●	850	10270	282
	-			-	6" ÷ 3/8"	ANSI B1.1	2B		●		●	●	●	●	850	10271	282
	-			-	7/16" ÷ 1-1/2"	ANSI B1.1	2B		●		●	●	●	●	850	10272	282
	-	UNF		-	6" ÷ 3/8"	ANSI B1.1	2B		●		●	●	●	●	850	10282	283
	-			-	7/16" ÷ 1-1/2"	ANSI B1.1	2B		●		●	●	●	●	850	10283	283
	-			-	6" ÷ 3/8"	ANSI B1.1	2B		●		●	●	●	●	850	10284	283
	-			-	7/16" ÷ 1-1/2"	ANSI B1.1	2B		●		●	●	●	●	850	10285	283
HSS-G	-	M		-	3 ÷ 10	371/B	6H					●		●	700	10162	284
	-			-	3 ÷ 42	376/B	6H					●		●	700	10165	284
	-			-	2 ÷ 10	371/C	6H					●	●	●	700	10168	285
	-			-	3 ÷ 42	376/C	6H					●	●	●	700	10171	285
	-			-	3 ÷ 10	371/C-15°	6H					●	●	●	700	10174	286
	-			-	3 ÷ 24	376/C-15°	6H					●	●	●	700	10177	286
	-			-	2 ÷ 10	371/C-35°	6H					●	●	●	700	10183	287
	-			-	3 ÷ 42	376/C-35°	6H					●	●	●	700	10180	287
	-			CORTI *Short*	2 ÷ 12	529/B	6H					●		●	700	10172	288
	-				2,5 ÷ 12	529/C-35°	6H					●	●	●	700	10173	288
	TiN			UTENSILE COMBINATO ATTACCO 1/4" *Combined 1/4" shank*	3 ÷ 10		6H					●	●	●	1200	10230	289
	-				3 ÷ 10		6H					●	●	●	600	10212	289
	-			ATTACCO 1/4" *1/4" Shank*	3 ÷ 10		6H					●	●	●	700	10210	290
	-	MF			4 ÷ 24	374/C-15°	6H					●		●	700	10198	290
	-	BSPT		CONICO 1:16 *Taper 1:16*	1" ÷ 2"		-					●		●	700	10139	291
	-	NPT			1" ÷ 2"	ANSI B2.1	-					●		●	700	10134	291

TECNOLOGIA HSS-E PM

ACCIAIO RAPIDO AL COBALTO PRODOTTO CON METALLURGIA DELLE POLVERI, MICROSTRUTTURA FINE, OMOGENEA E PIÙ RESISTENTE

CARATTERISTICHE:

Elevata durezza e resistenza all'usura
Maggiore tenacità rispetto a HSS tradizionale
Ottima stabilità del tagliente anche ad alte temperature

VANTAGGI PRINCIPALI:

Vita utensile più lunga
Prestazioni affidabili anche su materiali impegnativi
Idonee a velocità di taglio elevate

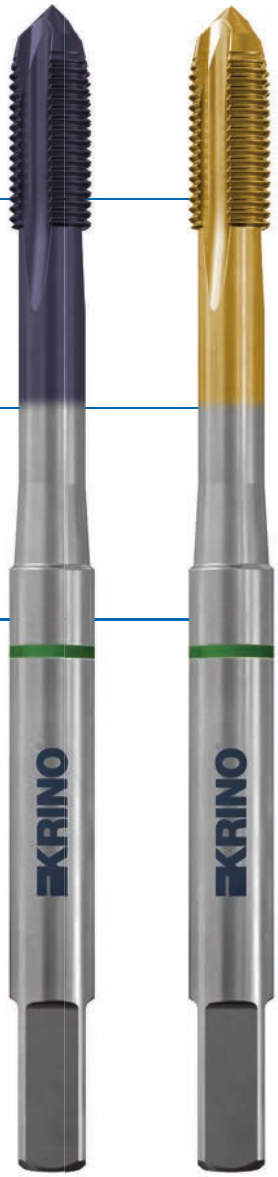
RIVESTIMENTO TiAlN E TiN

Elevata resistenza a caldo e all'ossidazione
Riduzione dell'attrito e migliore gestione del calore
Ideale per lavorazioni a secco o MQL

APPLICAZIONI E MATERIALI:

Acciai legati e non legati, acciai inox
Ghise e materiali ad alta resistenza
Hardox (fino a ~400 HB)
Leghe di titanio

IDEALI PER FORATURA IN CONDIZIONI GRAVOSE E PRODUZIONI AD ALTA PRODUTTIVITÀ



EN

***HSS-E PM Technology**: cobalt-based high-speed steel produced using powder metallurgy, featuring a fine, homogeneous microstructure and greater strength*
*• **Features**: – High hardness and wear resistance – Greater toughness compared to traditional HSS – Excellent cutting edge stability even at high temperatures*
*• **Key benefits**: – Longer tool life– Reliable performance even on challenging materials– Suitable for high cutting speeds*
*• **TiAlN and TiN coatings** – High heat and oxidation resistance– Reduced friction and improved heat management– Ideal for dry machining or MQL*
*• **Applications and materials**: – Alloyed and unalloyed steels, stainless steels – Cast iron and high-strength materials – Hardox (up to ~400 HB) – Titanium alloys*
Ideal for drilling under severe conditions and high-productivity manufacturing.

FR

***Technologie HSS-E PM** : acier rapide à base de cobalt fabriqué par métallurgie des poudres, se caractérisant par une microstructure fine et homogène et une résistance mécanique accrue*
*• **Caractéristiques** : – Dureté et résistance à l'usure élevées – Ténacité supérieure à celle de l'acier rapide traditionnel (HSS) – Excellente stabilité de l'arête de coupe, même à haute température*
*• **Principaux avantages** : – Durée de vie de l'outil prolongée – Performances fiables, même sur des matériaux difficiles – Adapté aux vitesses de coupe élevées*
*• **Revêtements TiAlN et TiN** – Haute résistance à la chaleur et à l'oxydation – Friction réduite et meilleure gestion thermique – Idéal pour l'usinage à sec ou en lubrification minimale (MQL)*
*• **Applications et matériaux** : – Aciers alliés et non alliés, aciers inoxydables – Fonte et matériaux à haute résistance – Hardox (jusqu'à environ 400 HB) – Alliages de titane*
Idéal pour le perçage dans des conditions difficiles et la fabrication à haute productivité.

ESP

***Tecnología HSS-E PM**: acero rápido a base de cobalto fabricado mediante metalurgia de polvos, que presenta una microestructura fina y homogénea y una mayor resistencia*
*• **Características**: – Alta dureza y resistencia al desgaste – Mayor tenacidad en comparación con el acero rápido tradicional (HSS) – Excelente estabilidad del filo incluso a altas temperaturas*
*• **Ventajas principales**: – Mayor vida útil de la herramienta – Rendimiento fiable incluso con materiales difíciles – Adecuado para altas velocidades de corte*
*• **Recubrimientos de TiAlN y TiN** – Alta resistencia al calor y a la oxidación – Fricción reducida y mejor gestión del calor – Ideal para el mecanizado en seco o con lubricación mínima (MQL)*
*• **Aplicaciones y materiales**: – Aceros aleados y no aleados, aceros inoxidables – Fundición y materiales de alta resistencia – Hardox (hasta ~400 HB) – Aleaciones de titanio*
Ideal para taladrar en condiciones extremas y para la fabricación de alta productividad.

PT

***Tecnologia HSS-E PM**: aço rápido à base de cobalto produzido por metalurgia do pó, com microestrutura fina e homogênea e maior resistência*
*• **Características**: – Alta dureza e resistência ao desgaste – Maior tenacidade em comparação com o HSS tradicional – Excelente estabilidade da aresta de corte, mesmo em altas temperaturas*
*• **Principais benefícios**: – Maior vida útil da ferramenta – Desempenho confiável mesmo em materiais desafiadores – Adequado para altas velocidades de corte*
*• **Revestimentos de TiAlN e TiN** – Alta resistência ao calor e à oxidação – Atrito reduzido e melhor gestão do calor – Ideal para usinagem a seco ou MQL*
*• **Aplicações e materiais**: – Aços ligados e não ligados, aços inoxidáveis – Ferro fundido e materiais de alta resistência – Hardox (até ~400 HB) – Ligas de titânio*
Ideal para perfuração em condições severas e fabricação de alta produtividade.

MASCHI A MACCHINA CON CANALINA DI REFRIGERAZIONE INTERNA, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Machine taps with internal cooling system, ISO metric thread*
FR *Tarauds machine avec trous réfrigérants, filetage metric ISO*
ESP *Machos de màquina con sistema de refrigeración interno, rosca metrica larga*
PT *Machos para máquinas com sistema de arrefecimento interno, rosca métrica iso*

10340 | **HM** | **M**

CON CANALINE
With cooling system

HM
Solid carbide

FORM C

2-3 Filetti
Threads

con canalina
internal cooling system



Ghisa
Cast Iron

Alluminio
Aluminum

Metalli
Metals

Olio
Oil

DIN 371/C ISO 6HX *Hm solid carbide*

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
	3 x 0,5	8	56	3,5	1	**10340**03X05	consultare listino
	4 x 0,7	10	63	4,5	1	**10340**04X07	*see price list*
	5 x 0,8	10	70	6	1	**10340**05X08	
	6 x 1	12	80	6	1	**10340**06X1	
	8 x 1,25	16	90	8	1	**10340**08X125	
	10 x 1,5	18	100	10	1	**10340**10X15	

MASCHI A MACCHINA HSS-E PM

EN *machine taps, HSS-E PM*
FR *Tarauds machine, HSS-E PM*
ESP *Machos de maquina, HSS-E PM*
PT *machos para máquinas, HSS-E PM*

10460 | **HSS-E PM** | **TiAlN** | **M**

HSS-E PM

FORM B

4-5 Filetti
Threads



R ≤ 1400 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

DIN 371/B

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10460**03x05	consultare listino
	4 x 0,7	13	63	4,5	1	**10460**04x07	*see price list*
	5 x 0,8	16	70	6	1	**10460**05x08	
	6 x 1	19	80	6	1	**10460**06x1	
	8 x 1,25	22	90	8	1	**10460**08x125	
	10 x 1,5	24	100	10	1	**10460**10x15	

DIN 376/B

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10460**12x175	consultare listino
	14 x 2	30	110	11	1	**10460**14x2	*see price list*
	16 x 2	30	110	12	1	**10460**16x2	
	18 x 2,5	34	125	14	1	**10460**18x25	
	20 x 2,5	34	140	16	1	**10460**20x25	

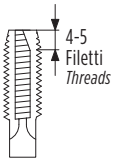
MASCHI A MACCHINA HSS-E PM

EN *machine taps, HSS-E PM*
FR *Tarauds machine, HSS-E PM*
ESP *Machos de maquina, HSS-E PM*
PT *Machos para máquinas, HSS-E PM*

10465 HSS-E PM TiN M


HSS-E PM

FORM B









DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10465**03x05	consultare listino
	4 x 0,7	13	63	4,5	1	**10465**04x07	*see price list*
	5 x 0,8	16	70	6	1	**10465**05x08	
	6 x 1	19	80	6	1	**10465**06x1	
	8 x 1,25	22	90	8	1	**10465**08x125	
	10 x 1,5	24	100	10	1	**10465**10x15	

DIN 376/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10465**12x175	consultare listino
	14 x 2	30	110	11	1	**10465**14x2	*see price list*
	16 x 2	30	110	12	1	**10465**16x2	
	18 x 2,5	34	125	14	1	**10465**18x25	
	20 x 2,5	34	140	16	1	**10465**20x25	

R ≤ 1300 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Emulsione
Lubrificant

10466 HSS-E PM TiN M


HSS-E PM

FORM C 40°









DIN 371/C-40° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10466**03x05	consultare listino
	4 x 0,7	7	63	4,5	1	**10466**04x07	*see price list*
	5 x 0,8	8	70	6	1	**10466**05x08	
	6 x 1	10	80	6	1	**10466**06x1	
	8 x 1,25	14	90	8	1	**10466**08x125	
	10 x 1,5	16	100	10	1	**10466**10x15	

DIN 376/C-40° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	9	1	**10466**12x175	consultare listino
	14 x 2	20	110	11	1	**10466**14x2	*see price list*
	16 x 2	22	110	12	1	**10466**16x2	
	18 x 2,5	25	125	14	1	**10466**18x25	
	20 x 2,5	25	140	16	1	**10466**20x25	

R ≤ 1300 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Emulsione
Lubrificant

MASCHI A MACCHINA AL COBALTO CON ANELLO VERDE, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Universal machine taps, metric thread*
FR *Tarauds machine, fil. Metrique*
ESP *Machos de maquina, rosca metrica*
PT *Machos universais para máquinas, rosca métrica*

10515 HSS-CO VAPO M

UNIVERSALE
Universal

HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



DIN 371/B ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10515**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10515**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10515**05X08	
	6 x 1	19	80	6	1	**10515**06X1	
	8 x 1,25	22	90	8	1	**10515**08X125	
	10 x 1,5	24	100	10	1	**10515**10X15	

DIN 376/B ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10515**12X175	consultare listino
	14 x 2	30	110	11	1	**10515**14X2	*see price list*
	16 x 2	30	110	12	1	**10515**16X2	
	20 x 2,5	34	140	16	1	**10515**20X25	

R ≤ 900 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Emulsione *Lubrificant*



Art. 10520307

7 pcs
M 3÷12

10516 HSS-CO VAPO M

UNIVERSALE
Universal

HSS-CO AISI M35
HV 820÷850

FORM C 40°

2-3 Filetti
Threads



DIN 371/C-40° ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10516**03X05	consultare listino
	4 x 0,7	7	63	4,5	1	**10516**04X07	*see price list*
	5 x 0,8	8	70	6	1	**10516**05X08	
	6 x 1	10	80	6	1	**10516**06X1	
	8 x 1,25	14	90	8	1	**10516**08X125	
	10 x 1,5	16	100	10	1	**10516**10X15	

DIN 376/C-40° ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18,5	110	9	1	**10516**12X175	consultare listino
	16 x 2	20	110	12	1	**10516**16X2	*see price list*
	20 x 2,5	25	140	16	1	**10516**20X25	

R ≤ 900 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Emulsione *Lubrificant*



Art. 10520308

7 pcs
M 3÷12

MASCHI A MACCHINA AL COBALTO CON ANELLO BIANCO, FILETTATURA METRICA ISO A PASSO GROSSO

EN *White ring machine taps, metric thread - Special for stainless steel*
FR *Tarauds machine avec anneau blanc - Spécialement conçu pour l'acier inoxydable*
ESP *Machos de maquina con anillo blanco - Especial para acero inoxidable*
PT *machos de máquina de anel branco, rosca métrica - Especial para aço inoxidável*

10504 **10505** HSS-CO VAPO M

SPECIALE PER ACCIAIO INOX
Special for stainless steel

HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti *Threads*



R ≤ 1000 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

DIN 371/B ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10504**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10504**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10504**05X08	
	6 x 1	19	80	6	1	**10504**06X1	
	8 x 1,25	22	90	8	1	**10504**08X125	
	10 x 1,5	24	100	10	1	**10504**10X15	

DIN 376/B ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10505**12X175	consultare listino
	14 x 2	30	110	11	1	**10505**14X2	*see price list*
	16 x 2	30	110	12	1	**10505**16X2	
	18 x 2,5	34	125	14	1	**10505**18X25	
	20 x 2,5	34	140	16	1	**10505**20X25	



Art. 10520300

7 pcs
M 3÷12

10506 **10507** HSS-CO VAPO M

SPECIALE PER ACCIAIO INOX
Special for stainless steel

HSS-CO AISI M35
HV 820÷850

FORM C 40°

2-3 Filetti *Threads*



R ≤ 1000 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 371/C-40° ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10506**03X05	consultare listino
	4 x 0,7	7	63	4,5	1	**10506**04X07	*see price list*
	5 x 0,8	8	70	6	1	**10506**05X08	
	6 x 1	10	80	6	1	**10506**06X1	
	8 x 1,25	14	90	8	1	**10506**08X125	
	10 x 1,5	16	100	10	1	**10506**10X15	

DIN 376/C-40° ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	9	1	**10507**12X175	consultare listino
	14 x 2	20	110	11	1	**10507**14X2	*see price list*
	16 x 2	22	110	12	1	**10507**16X2	
	18 x 2,5	25	125	14	1	**10507**18X25	
	20 x 2,5	25	140	16	1	**10507**20X25	



Art. 10520301

7 pcs
M 3÷12

MASCHI A MACCHINA AL COBALTO CON ANELLO BLU, FILETTATURA METRICA ISO

EN *Blue ring machine taps, metric thread - Special for wear and heat resistant steel*
FR *Tarauds machine avec anneau blue - Spécialement conçu pour l'acier résistant à l'usure et à la chaleur*
ESP *Machos de maquina con anillo azul - Especial para acero resistente al desgaste y al calor*
PT *machos para máquinas de anel azul, rosca métrica - Especial para aço resistente ao desgaste e ao calor*

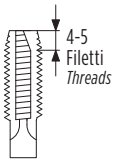
10500 HSS-CO M
10501

SPECIALI PER ACCIAI REFRATTARI, ACCIAI DA TEMPRA E CEMENTAZIONE
Special for wear and heat resistant steel



HSS-CO AISI M35
HV 850÷880

FORM B









R ≤ 1200 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10500**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10500**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10500**05X08	
	6 x 1	19	80	6	1	**10500**06X1	
	8 x 1,25	22	90	8	1	**10500**08X125	
	10 x 1,5	24	100	10	1	**10500**10X15	

DIN 376/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10501**12X175	consultare listino
	14 x 2	30	110	11	1	**10501**14X2	*see price list*
	16 x 2	30	110	12	1	**10501**16X2	
	18 x 2,5	34	125	14	1	**10501**18X25	
	20 x 2,5	34	140	16	1	**10501**20X25	



Art. 10520302

7 pcs
M 3÷12

10502 HSS-CO M
10503

SPECIALI PER ACCIAI REFRATTARI, ACCIAI DA TEMPRA E CEMENTAZIONE
Special for wear and heat resistant steel



HSS-CO AISI M35
HV 850÷880

FORM C 40°









R ≤ 1200 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

DIN 371/C-40° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10502**03X05	consultare listino
	4 x 0,7	7	63	4,5	1	**10502**04X07	*see price list*
	5 x 0,8	8	70	6	1	**10502**05X08	
	6 x 1	10	80	6	1	**10502**06X1	
	8 x 1,25	14	90	8	1	**10502**08X125	
	10 x 1,5	16	100	10	1	**10502**10X15	

DIN 376/C-40° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	9	1	**10503**12X175	consultare listino
	14 x 2	20	110	11	1	**10503**14X2	*see price list*
	16 x 2	22	110	12	1	**10503**16X2	
	18 x 2,5	25	125	14	1	**10503**18X25	
	20 x 2,5	25	140	16	1	**10503**20X25	



Art. 10520303

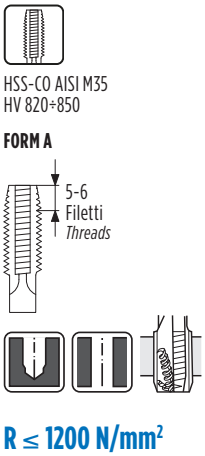
7 pcs
M 3÷12

MASCHI A MACCHINA AL COBALTO CON ANELLO ROSSO, FILETTATURA METRICA ISO

EN *Red ring machine taps, metric thread - Special for wear and heat resistant steel*
FR *Tarauds machine avec anneau rouge - Spécialement conçu pour l'acier résistant à l'usure et à la chaleur*
ESP *Machos de maquina con anillo rojo - Especial para acero resistente al desgaste y al calor*
PT *machos para máquinas de anel vermelho, rosca métrica - Especial para aço resistente ao desgaste e ao calor*

10510 | **HSS-CO** | **M**

SPECIALI PER ACCIAI REFRATTARI, ACCIAI DA TEMPRA E CEMENTAZIONE
Special for wear and heat resistant steel





R ≤ 1200 N/mm²

DIN 371/A ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**4** x 0,7	9	63	4,5	1	**10510**04X07	consultare listino
	5 x 0,8	11	70	6	1	**10510**05X08	*see price list*
	6 x 1	12	80	6	1	**10510**06X1	
	8 x 1,25	15	90	8	1	**10510**08X125	
	10 x 1,5	16	100	10	1	**10510**10X15	



Art. 10520310

7 pcs
M 3÷12

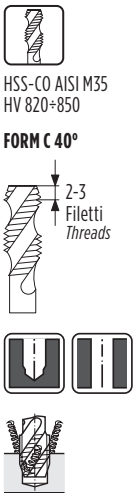
MASCHI A MACCHINA AL COBALTO CON ANELLO GIALLO, FILETTATURA METRICA ISO

EN *Yellow ring machine taps, metric thread - Special for aluminium*
FR *Tarauds machine avec anneau jaune, filetage métrique ISO - Spécialement conçu pour l'aluminium*
ESP *Machos de maquina con anillo amarillo, rosca métrica ISO - Especial para aluminio*
PT *machos para máquinas de anel amarelo, rosca métrica - Especial para alumínio*

10511 | **HSS-CO** | **M**

10512

SPECIALI PER ALLUMINIO
Special for aluminium





R ≤ 850 N/mm²

Alluminio
Aluminum

Truciolo lungo
Long chip

DIN 371/C-40° ISO 2/6H

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10511**03x05	consultare listino
	4 x 0,7	7	63	4,5	1	**10511**04x07	*see price list*
	5 x 0,8	8	70	6	1	**10511**05x08	
	6 x 1	10	80	6	1	**10511**06x1	
	8 x 1,25	14	90	8	1	**10511**08x125	
	10 x 1,5	16	100	10	1	**10511**10x15	

DIN 376/C-40° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	9	1	**10512**12X175	consultare listino
	14 x 2	20	110	11	1	**10512**14X2	*see price list*
	16 x 2	22	110	12	1	**10512**16X2	



Art. 10520305

7 pcs
M 3÷12

MASCHI A MACCHINA AL COBALTO CON ANELLO NERO, FILETTATURA METRICA ISO

EN *Black ring machine taps, metric thread - Special for cast iron*
FR *Tarauds machine avec anneau noir - Spécialement conçu pour la fonte*
ESP *Machos de maquina con anillo negro - Especial para hierro fundido*
PT *machos para máquinas de anel preto, rosca métrica - Especial para ferro fundido*

10508 **10509** **HSS-CO** **M**

SPECIALI PER GHISA
Special for cast iron

HSS-CO AISI M35
HV 820÷850

FORM C









DIN 371/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10508**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10508**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10508**05X08	
	6 x 1	19	80	6	1	**10508**06X1	
	8 x 1,25	22	90	8	1	**10508**08X125	
	10 x 1,5	24	100	10	1	**10508**10X15	

DIN 376/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10509**12X175	consultare listino
	14 x 2	30	110	11	1	**10509**14X2	*see price list*
	16 x 2	30	110	12	1	**10509**16X2	
	18 x 2,5	34	125	14	1	**10509**18X25	
	20 x 2,5	34	140	16	1	**10509**20X25	



Art. 10520304

7 pcs
M 3÷12

Ghisa
Cast Iron

Alluminio
Aluminum

Leghe leggere
Light alloys

Plastica dura
Hard plastic

Truciolo lungo
Long chip

MASCHI A MACCHINA AL COBALTO CON TRATTAMENTO DI RIVESTIMENTO SUPERFICIALE

EN *Machine taps with coating treatment*
FR *Tarauds machine avec traitement de revetement superficiel*
ESP *Machos de maquina con tratamiento de recubrimiento superficial*
PT *machos de máquina com tratamento de revestimento*

10297
10298

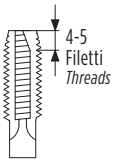
HSS-CO | VAPO | M

VAPORIZZATI
With coating treatment



HSS-CO AISI M35
HV 820÷850

FORM B









R ≤ 900 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

DIN 371/B ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10297**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10297**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10297**05X08	
	6 x 1	19	80	6	1	**10297**06X1	
	8 x 1,25	22	90	8	1	**10297**08X125	
	10 x 1,5	24	100	10	1	**10297**10X15	

DIN 376/B ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10298**12X175	consultare listino
	14 x 2	30	110	11	1	**10298**14X2	*see price list*
	16 x 2	30	110	12	1	**10298**16X2	
	18 x 2,5	34	125	14	1	**10298**18X25	
	20 x 2,5	34	140	16	1	**10298**20X25	



Art. 10345315

7 pcs
M 3÷12

10299
10300

HSS-CO | VAPO | M

VAPORIZZATI
With coating treatment



HSS-CO AISI M35
HV 820÷850

FORM C 35°









R ≤ 900 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

DIN 371/C-35° ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10299**03X05	consultare listino
	4 x 0,7	7	63	4,5	1	**10299**04X07	*see price list*
	5 x 0,8	8	70	6	1	**10299**05X08	
	6 x 1	10	80	6	1	**10299**06X1	
	8 x 1,25	14	90	8	1	**10299**08X125	
	10 x 1,5	16	100	10	1	**10299**10X15	

DIN 376/C-35° ISO 2/6H

	VAPO Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	9	1	**10300**12X175	consultare listino
	14 x 2	20	110	11	1	**10300**14X2	*see price list*
	16 x 2	22	110	12	1	**10300**16X2	
	18 x 2,5	25	125	14	1	**10300**18X25	
	20 x 2,5	25	140	16	1	**10300**20X25	



Art. 10345316

7 pcs
M 3÷12

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO PASSO GROSSO

EN *Machine taps, spiral point, metric thread*
FR *Tarauds machine, entrée gun, fil. métrique*
ESP *Machos de maquina, entrada corregida, rosca metrica*
PT *machos para máquinas, ponta em espiral, rosca métrica*

10250 HSS-CO M

HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



MICRO MACHINE TAPS HSS-CO

DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**1** x 0,25	5	40	2,5	1	**10250**01x025	consultare listino
	1,1 x 0,25	5	40	2,5	1	**10250**011x025	*see price list*
	1,2 x 0,25	5	40	2,5	1	**10250**012x025	
	1,4 x 0,3	7	40	2,5	1	**10250**014x030	
	1,6 x 0,35	8	40	2,5	1	**10250**016x035	
	1,7 x 0,35	8	40	2,5	1	**10250**017x035	
	1,8 x 0,35	8	40	2,5	1	**10250**018x035	
	2 x 0,4	8	45	2,8	1	**10250**02x04	
	2,5 x 0,45	9	50	2,8	1	**10250**025x045	
	3 x 0,5	11	56	3,5	1	**10250**03x05	
	3,5 x 0,6	13	56	4	1	**10250**035x06	
	4 x 0,7	13	63	4,5	1	**10250**04x07	
	5 x 0,8	16	70	6	1	**10250**05x08	
	6 x 1	19	80	6	1	**10250**06x1	
	7 x 1	19	80	7	1	**10250**07x1	
	8 x 1,25	22	90	8	1	**10250**08x125	
	9 x 1,25	22	90	9	1	**10250**09x125	
	10 x 1,5	24	100	10	1	**10250**10x15	



Art. 10345300

7 pcs
M 3÷12



Art. 10345306

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10253 HSS-CO M

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM B

4-5 Filetti
Threads



DIN 376/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10253**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10253**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10253**05X08	
	6 x 1	19	80	4,5	1	**10253**06X1	
	8 x 1,25	22	90	6	1	**10253**08X125	
	10 x 1,5	24	100	7	1	**10253**10X15	
	12 x 1,75	29	110	9	1	**10253**12X175	
	14 x 2	30	110	11	1	**10253**14X2	
	16 x 2	30	110	12	1	**10253**16X2	
	18 x 2,5	34	125	14	1	**10253**18X25	
	20 x 2,5	34	140	16	1	**10253**20X25	
	22 x 2,5	34	140	18	1	**10253**22X25	
	24 x 3	38	160	18	1	**10253**24X3	
	27 x 3	38	160	20	1	**10253**27X3	
	30 x 3,5	45	180	22	1	**10253**30X35	
	33 x 3,5	50	180	25	1	**10253**33X35	
	36 x 4	56	200	28	1	**10253**36X4	
	39 x 4	60	200	32	1	**10253**39X4	
	42 x 4,5	60	200	32	1	**10253**42X45	
	45 x 4,5	65	220	36	1	**10253**45X45	
	48 x 5	70	250	36	1	**10253**48X5	
	52 x 5	70	250	40	1	**10253**52X5	
	56 x 5,5	70	250	40	1	**10253**56X55	
	60 x 5,5	75	280	45	1	**10253**60X55	
	64 x 6	80	315	50	1	**10253**64X6	
	68 x 6	80	315	50	1	**10253**68X6	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMB. “C”, FILETTATURA ISO PASSO GROSSO

EN *Machine taps, “C” chamfer form, metric thread*
FR *Tarauds machine, entrée "C", filetage metrique*
ESP *Machos de maquina, entrada “C”, rosca metrica*
PT *Machos para máquinas, forma de chanfro "c", rosca métrica*

10251 HSS-CO M

HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



DIN 371/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**2** x 0,4	8	45	2,8	1	**10251**02X04	consultare listino
	2,3 x 0,4	9	45	2,8	1	**10251**023X04	*see price list*
	2,5 x 0,45	9	50	2,8	1	**10251**025X045	
	2,6 x 0,45	9	50	2,8	1	**10251**026X045	
	3 x 0,5	11	56	3,5	1	**10251**03X05	
	3,5 x 0,6	13	56	4	1	**10251**035X06	
	4 x 0,7	13	63	4,5	1	**10251**04X07	
	5 x 0,8	16	70	6	1	**10251**05X08	
	6 x 1	19	80	6	1	**10251**06X1	
	7 x 1	19	80	7	1	**10251**07X1	
	8 x 1,25	22	90	8	1	**10251**08X125	
	10 x 1,5	24	100	10	1	**10251**10X15	

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

10254 HSS-CO M

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C

2-3 Filetti
Threads



DIN 376/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10254**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10254**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10254**05X08	
	6 x 1	19	80	4,5	1	**10254**06X1	
	8 x 1,25	22	90	6	1	**10254**08X125	
	10 x 1,5	24	100	7	1	**10254**10X15	
	12 x 1,75	29	110	9	1	**10254**12X175	
	14 x 2	30	110	11	1	**10254**14X2	
	16 x 2	32	110	12	1	**10254**16X2	
	18 x 2,5	34	125	14	1	**10254**18X25	
	20 x 2,5	34	140	16	1	**10254**20X25	
	22 x 2,5	34	140	18	1	**10254**22X25	
	24 x 3	38	160	18	1	**10254**24X3	
	27 x 3	38	160	20	1	**10254**27X3	
	30 x 3,5	45	180	22	1	**10254**30X35	
	33 x 3,5	50	180	25	1	**10254**33X35	
	36 x 4	56	200	28	1	**10254**36X4	
	39 x 4	60	200	32	1	**10254**39X4	
	42 x 4,5	60	200	32	1	**10254**42X45	
	45 x 4,5	65	220	36	1	**10254**45X45	
	48 x 5	70	250	36	1	**10254**48X5	
	52 x 5	70	250	40	1	**10254**52X5	

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

MASCHI A MACCHINA AL COBALTO, SCANALATURE DESTRE 15°, IMB. "C", FILETTATURA METRICA ISO PASSO GROSSO

EN *Machine taps, 15° spiral flute, metric thread*
FR *Tarauds machine, goujures 15°, filetage métrique*
ESP *Machos de maquina, canal helicoidal a 15°, rosca metrica*
PT *Machos de máquina, 15° de flauta em espiral, rosca métrica*

10256 HSS-CO M

HSS-CO AISI M35
HV 820÷850

FORM C 15°

2-3 Filetti
Threads



DIN 371/C-15° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10256**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10256**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10256**05X08	
	6 x 1	19	80	6	1	**10256**06X1	
	8 x 1,25	22	90	8	1	**10256**08X125	
	10 x 1,5	24	100	10	1	**10256**10X15	



Art. 10345311

7 pcs
M 3÷12



Art. 10345312

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

10258 HSS-CO M

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C 15°

2-3 Filetti
Threads



DIN 376/C-15° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10258**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10258**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10258**05X08	
	6 x 1	19	80	4,5	1	**10258**06X1	
	8 x 1,25	22	90	6	1	**10258**08X125	
	10 x 1,5	24	100	7	1	**10258**10X15	
	12 x 1,75	29	110	9	1	**10258**12X175	
	14 x 2	30	110	11	1	**10258**14X2	
	16 x 2	30	110	12	1	**10258**16X2	
	18 x 2,5	34	125	14	1	**10258**18X25	
	20 x 2,5	34	140	16	1	**10258**20X25	
	22 x 2,5	34	140	18	1	**10258**22X25	
	24 x 3	38	160	18	1	**10258**24X3	

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

MASCHI A MACCHINA AL COBALTO, SCANALATURE DESTRE 35°, IMB. "C", FILETTATURA METRICA ISO

EN *Machine taps, 35° spiral flute, metric coarse thread*
FR *Tarauds machine, goujures 35°, filetage métrique gros*
ESP *Machos de maquina, canal helicoidal 35°, rosca metrica vasta*
PT *Machos para máquinas, canal em espiral de 35°, rosca métrica grossa*

10255 HSS-CO M

HSS-CO AISI M35
HV 820÷850

FORM C 35°

2-3 Filetti
Threads



MICRO MACHINE TAPS HSS-CO

DIN 371/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**1** x 0,25	4	40	2,5	1	**10255**01x025	consultare listino
	1,1 x 0,25	4	40	2,5	1	**10255**011x025	*see price list*
	1,2 x 0,25	4	40	2,5	1	**10255**012x025	
	1,4 x 0,30	5	40	2,5	1	**10255**014x030	
	1,6 x 0,35	6	40	2,5	1	**10255**016x035	
	1,7 x 0,35	6	40	2,5	1	**10255**017x035	
	1,8 x 0,35	6	40	2,5	1	**10255**018x035	
	2 x 0,4	6	45	2,8	1	**10255**02X04	
	2,5 x 0,45	6	50	2,8	1	**10255**025X045	
	3 x 0,5	6	56	3,5	1	**10255**03X05	
	3,5 x 0,6	13	56	4	1	**10255**035X06	
	4 x 0,7	7	63	4,5	1	**10255**04X07	
	5 x 0,8	8	70	6	1	**10255**05X08	
	6 x 1	10	80	6	1	**10255**06X1	
	7 x 1	19	80	7	1	**10255**07X1	
	8 x 1,25	14	90	8	1	**10255**08X125	
	9 x 1,25	14	90	9	1	**10255**09X125	
	10 x 1,5	16	100	10	1	**10255**10X15	



Art. 10345305

7 pcs
M 3÷12



Art. 10345307

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



Art. 10345310

14 pcs
DIN 371/
B+371/C 35°

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

10257 HSS-CO M

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C 35°

2-3 Filetti
Threads



DIN 376/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	5	56	2,2	1	**10257**03X05	consultare listino
	4 x 0,7	7	63	2,8	1	**10257**04X07	*see price list*
	5 x 0,8	8	70	3,5	1	**10257**05X08	
	6 x 1	10	80	4,5	1	**10257**06X1	
	8 x 1,25	13	90	6	1	**10257**08X125	
	10 x 1,5	15	100	7	1	**10257**10X15	
	12 x 1,75	18	110	9	1	**10257**12X175	
	14 x 2	20	110	11	1	**10257**14X2	
	16 x 2	22	110	12	1	**10257**16X2	
	18 x 2,5	25	125	14	1	**10257**18X25	
	20 x 2,5	25	140	16	1	**10257**20X25	
	22 x 2,5	25	140	18	1	**10257**22X25	
	24 x 3	30	160	18	1	**10257**24X3	
	27 x 3	30	160	20	1	**10257**27X3	
	30 x 3,5	35	180	22	1	**10257**30X35	
	33 x 3,5	35	180	25	1	**10257**33X35	
	36 x 4	40	200	28	1	**10257**36X4	
	39 x 4	40	200	32	1	**10257**39X4	
	42 x 4,5	45	200	32	1	**10257**42X45	
	45 x 4,5	45	220	36	1	**10257**45X45	
	48 x 5	50	250	36	1	**10257**48X5	
	52 x 5	50	250	40	1	**10257**52X5	
	***60** x 5,5	70	280	45	1	**10257**60X55	
	***64** x 6	75	315	50	1	**10257**64X6	
	***68** x 6	75	315	50	1	**10257**68X6	

*In esaurimento
**Running out*

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO "LUNGHI", FILETTATURA METRICA ISO A PASSO GROSSO

EN *Long machine taps, ISO metric coarse threads*
FR *Tarauds machine long filetage metric ISO*
ESP *Machos de máquina largos, rosca metrica larga*
PT *Machos longos para máquinas, roscas métricas grossas iso*

10291 HSS-CO M

SERIE LUNGA
Long serie

HSS-CO AISI M35
HV 820÷850

Gambo rinforzato
Reinforced shank

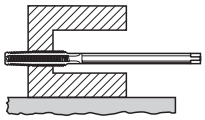
FORM B

4-5 Filetti
Threads



≃ DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	100	3,5	1	**10291**03100	consultare listino
	4 x 0,7	13	100	4,5	1	**10291**04100	*see price list*
	4 x 0,7	13	120	4,5	1	**10291**04120	
	5 x 0,8	16	100	6	1	**10291**05100	
	5 x 0,8	16	120	6	1	**10291**05120	
	5 x 0,8	16	150	6	1	**10291**05150	
	6 x 1	19	100	6	1	**10291**06100	
	6 x 1	19	120	6	1	**10291**06120	
	6 x 1	19	150	6	1	**10291**06150	
	8 x 1,25	22	120	8	1	**10291**08120	
	8 x 1,25	22	150	8	1	**10291**08150	
	10 x 1,5	24	120	10	1	**10291**10120	
	10 x 1,5	24	150	10	1	**10291**10150	
	12 x 1,75	29	120	12	1	**10291**12120	
	12 x 1,75	29	150	12	1	**10291**12150	



R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10292 HSS-CO M

SERIE LUNGA
Long serie

HSS-CO AISI M35
HV 820÷850

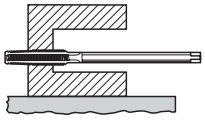
FORM C 35°

2-3 Filetti
Threads



≃ DIN 371/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	100	3,5	1	**10292**03100	consultare listino
	4 x 0,7	7	100	4,5	1	**10292**04100	*see price list*
	4 x 0,7	7	120	4,5	1	**10292**04120	
	5 x 0,8	8	100	6	1	**10292**05100	
	5 x 0,8	8	120	6	1	**10292**05120	
	5 x 0,8	8	150	6	1	**10292**05150	
	6 x 1	10	100	6	1	**10292**06100	
	6 x 1	10	120	6	1	**10292**06120	
	6 x 1	10	150	6	1	**10292**06150	
	8 x 1,25	14	120	8	1	**10292**08120	
	8 x 1,25	14	150	8	1	**10292**08150	
	10 x 1,5	16	120	10	1	**10292**10120	
	10 x 1,5	16	150	10	1	**10292**10150	
	12 x 1,75	18	120	12	1	**10292**12120	
	12 x 1,75	18	150	12	1	**10292**12150	



R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO CON CANALINA DI REFRIGERAZIONE INTERNA, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Machine taps with internal cooling system, ISO metric thread*
FR *Tarauds machine avec trous réfrigérants, filetage metric ISO*
ESP *Machos de màquina con sistema de refrigeración interno, rosca metrica larga*
PT *Machos para máquinas com sistema de arrefecimento interno, rosca métrica iso*

10330 | **HSS-CO** | **M**

CON CANALINE
With cooling system



HSS-CO AISI M35
HV 820÷850

FORM C 40°









con canalina
internal cooling system

DIN 371/C-40° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**5** x 0,8	8,5	70	6	1	**10330**05X08	consultare listino
	6 x 1	11	80	6	1	**10330**06X1	*see price list*
	8 x 1,25	14	90	8	1	**10330**08X125	
	10 x 1,5	16	100	10	1	**10330**10X15	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

MASCHI A MACCHINA AL COBALTO, CAVE DIRITTE E FILETTI ALTERNATI, IMB. CORRETTO, FILETTATURA METRICA ISO

EN *Machine taps, straight flutes, interrupted threads, spiral point*
FR *Tarauds machine, goujures droites, entrée B-gun, filets alternés*
ESP *Machos de maquina, entrada tipo "B" y dientes alternados*
PT *Machos de máquina, canais retos, roscas interrompidas, ponta em espiral*

10261 HSS-CO M

FILETTI ALTERNATI
Interrupted threads

HSS-CO AISI M35
HV 820÷850

FORM B

4-5 Filetti
Threads



DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10261**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10261**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10261**05X08	
	6 x 1	19	80	6	1	**10261**06X1	
	8 x 1,25	22	90	8	1	**10261**08X125	
	10 x 1,5	24	100	10	1	**10261**10X15	

MASCHI CON FILETTO ALTERNATO

Il filetto alternato assicura meno attrito e quindi meno resistenza, particolarmente importante in fase di filettatura di materiali resilienti e difficili da lavorare (quali per esempio alluminio o bronzo). Il lubrificante penetra più agevolmente sino al bordo tagliente, riducendo la coppia generata.
Per filettature in fori passanti in acciai con R≥900 N/mm², acciai da bonifica e cementazione, acciai inox, materiali di difficile truciolabilità, acciai da utensile, bronzi e leghe di rame, alluminio e leghe, materiali sintetici duri.

Taps with interrupted thread.

The interrupted thread ensures less friction and therefore less resistance, which is particularly important when threading resilient and difficult-to-work materials (such as aluminum or bronze). The lubricant penetrates more easily up to the cutting edge, reducing the torque generated.
For through holes in steel with R≥900 N/mm², high alloy steel, tool steel, stainless steel, bronze, hard sinterized materials.

R ≥ 900 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

10262 HSS-CO M

FILETTI ALTERNATI
Interrupted threads

HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM B

4-5 Filetti
Threads



DIN 376/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10262**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10262**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10262**05X08	
	6 x 1	19	80	4,5	1	**10262**06X1	
	8 x 1,25	22	90	6	1	**10262**08X125	
	10 x 1,5	24	100	7	1	**10262**10X15	
	12 x 1,75	29	110	9	1	**10262**12X175	
	14 x 2	30	110	11	1	**10262**14X2	
	18 x 2,5	34	125	14	1	**10262**18X25	
	20 x 2,5	34	140	16	1	**10262**20X25	
	22 x 2,5	34	140	18	1	**10262**22X25	
	24 x 3	38	160	18	1	**10262**24X3	

R ≥ 900 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Machine taps, “left hand”, metric coarse thread*
FR *Tarauds machine, "gauche", filetage métrique*
ESP *Machos de maquina, “izquierda”, rosca metrica normal*
PT *Machos para máquinas, "mão esquerda", rosca métrica grossa*

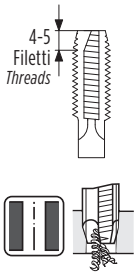
10277 **HSS-CO** **M**

10278

SINISTRI
Left hand

HSS-CO AISI M35
HV 820÷850

FORM B





DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10277**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10277**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10277**05X08	
	6 x 1	19	80	6	1	**10277**06X1	
	8 x 1,25	22	90	8	1	**10277**08X125	
	10 x 1,5	24	100	10	1	**10277**10X15	

DIN 376/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10278**12X175	consultare listino
	14 x 2	30	110	11	1	**10278**14X2	*see price list*
	16 x 2	32	110	12	1	**10278**16X2	
	18 x 2,5	34	125	14	1	**10278**18X25	
	20 x 2,5	34	140	16	1	**10278**20X25	
	22 x 2,5	34	140	18	1	**10278**22X25	
	24 x 3	38	160	18	1	**10278**24X3	
	27 x 3	38	160	20	1	**10278**27X3	
	30 x 3,5	45	180	22	1	**10278**30X35	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

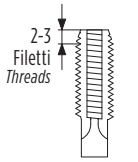
10263 **HSS-CO** **M**

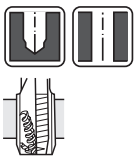
10264

SINISTRI
Left hand

HSS-CO AISI M35
HV 820÷850

FORM C







DIN 371/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10263**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10263**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10263**05X08	
	6 x 1	19	80	6	1	**10263**06X1	
	8 x 1,25	22	90	8	1	**10263**08X125	
	10 x 1,5	24	100	10	1	**10263**10X15	

DIN 376/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	1	**10264**12X175	consultare listino
	14 x 2	30	110	11	1	**10264**14X2	*see price list*
	16 x 2	30	110	12	1	**10264**16X2	
	18 x 2,5	34	125	14	1	**10264**18X25	
	20 x 2,5	34	140	16	1	**10264**20X25	
	22 x 2,5	34	140	18	1	**10264**22X25	
	24 x 3	38	160	18	1	**10264**24X3	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO “SINISTRI”, SCAN. DESTRE 35°, IMB. “C”, FILETTATURA METRICA ISO

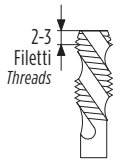
EN *Machine taps “left hand”, 35° spiral flute, metric coarse thread*
FR *Tarauds machine "gauche", goujures 35°, filetage métrique gros*
ESP *Machos de maquina “izquierda”, canal helicoidal 35°, rosca metrica vasta*
PT *Machos para máquinas "mão esquerda", canal em espiral de 35°, rosca métrica grossa*

10279 **10288** **HSS-CO** **M**

SINISTRI
Left hand

HSS-CO AISI M35
HV 820÷850

FORM C 35°









DIN 371/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	3,5	1	**10279**03X05	consultare listino
	4 x 0,7	7	63	4,5	1	**10279**04X07	*see price list*
	5 x 0,8	8	70	6	1	**10279**05X08	
	6 x 1	10	80	6	1	**10279**06X1	
	8 x 1,25	14	90	8	1	**10279**08X125	
	10 x 1,5	16	100	10	1	**10279**10X15	

DIN 376/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	9	1	**10288**12X175	consultare listino
	14 x 2	20	110	11	1	**10288**14X2	*see price list*
	16 x 2	22	110	12	1	**10288**16X2	
	18 x 2,5	25	125	14	1	**10288**18X25	
	20 x 2,5	25	140	16	1	**10288**20X25	
	22 x 2,5	27	140	18	1	**10288**22X25	
	24 x 3	30	160	18	1	**10288**24X3	
	27 x 3	30	160	20	1	**10288**27X3	
	30 x 3,5	35	180	22	1	**10288**30X35	

R ≤ 850 N/mm²

INOX Inox *Stainless*

Acciaio *Steel*

Metalli *Metals*

Olio *Oil*

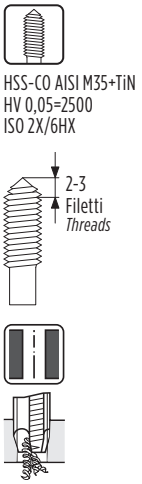
MASCHI A MACCHINA AL COBALTO A RULLARE, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Cold forming machine taps, ISO thread*
FR *Tarauds à refouler*
ESP *Machos de maquina laminacion*
PT *Machos para máquinas de enformação a frio, rosca iso*

10360 HSS-CO TiN M

A RULLARE - SPECIALI PER LAMIERE - SENZA CANALINI

Cold forming - for sheets - without oil grooves





~ DIN 2174 6HX

	DIN 371 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	2,8	1	**10360**3X05	consultare listino
	4 x 0,7	13	63	4,5	3,7	1	**10360**4X07	*see price list*
	5 x 0,8	16	70	6	4,65	1	**10360**5X08	
	6 x 1	19	80	6	5,55	1	**10360**6X1	
	8 x 1,25	22	90	8	7,45	1	**10360**8X125	
	10 x 1,5	24	100	10	9,3	1	**10360**10X15	

	DIN 376 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	11,2	1	**10360**12X175	consultare listino
	14 x 2	30	110	11	13	1	**10360**14X2	*see price list*
	16 x 2	32	110	12	15,01	1	**10360**16X2	

R ≥ 1200 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

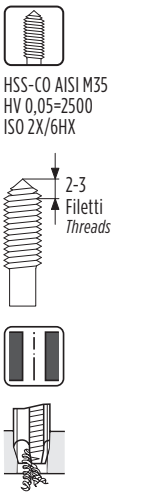
MASCHI A RULLARE
Questo tipo di maschi differisce da quelli a tagliare poiché il filetto è prodotto per deformazione plastica del materiale, piuttosto che per la tradizionale azione di taglio. Questo significa che non viene prodotto truciolo durante la lavorazione. I maschi a rullare possono essere impiegati su materiali con buone caratteristiche di deformabilità. I maschi a rullare senza scanalature sono raccomandati per lavorazioni comuni ed in particolare per la filettatura di lamiere. Sono disponibili anche nella versione con passaggio interno di lubrificante.

COLD FORMING TAPS
This type of tap differs from cutting taps in that the thread is produced by plastic deformation of the material, rather than by the traditional cutting action. This means that no chips are produced during machining. Forming taps can be used on materials with good deformability characteristics.
Cold forming taps are recommended for common machining and especially for sheets. They are also available in the version with internal lubricant passage.

10280 HSS-CO M

A RULLARE - SPECIALI PER LAMIERE - SENZA CANALINI

Cold forming - for sheets - without oil grooves





~ DIN 2174 6HX

	DIN 371 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	2,8	1	**10280**3X05	consultare listino
	4 x 0,7	13	63	4,5	3,7	1	**10280**4X07	*see price list*
	5 x 0,8	16	70	6	4,65	1	**10280**5X08	
	6 x 1	19	80	6	5,55	1	**10280**6X1	
	8 x 1,25	22	90	8	7,45	1	**10280**8X125	
	10 x 1,5	24	100	10	9,3	1	**10280**10X15	

	DIN 376 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	11,2	1	**10280**12X175	consultare listino
	14 x 2	30	110	11	13	1	**10280**14X2	*see price list*
	16 x 2	32	110	12	15,01	1	**10280**16X2	

R ≥ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO A RULLARE, CON CANALINI DI LUBRIFICAZIONE FILETTATURA METRICA ISO A PASSO GROSSO

EN *Cold forming machine taps, ISO thread*
FR *Tarauds à refouler*
ESP *Machos de maquina laminacion*
PT *Machos para máquinas de enformação a frio, com ranhuras para óleo rosca iso*

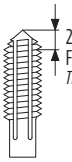
10361 HSS-CO TiN M

A RULLARE - SPECIALI PER LAMIERE - CON CANALINI
Cold forming - for sheets - with oil grooves



HSS-CO AISI M35+TiN
HV 0,05=2500
ISO 2X/6HX

Gambo rinforzato
Reinforced shank









~ DIN 2174 6HX

	DIN 371 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	2,8	1	**10361**03X05	consultare listino
	4 x 0,7	13	63	4,5	3,7	1	**10361**04X07	*see price list*
	5 x 0,8	16	70	6	4,65	1	**10361**05X08	
	6 x 1	19	80	6	5,55	1	**10361**06X1	
	8 x 1,25	22	90	8	7,45	1	**10361**08X125	
	10 x 1,5	24	100	10	9,3	1	**10361**10X15	

	DIN 376 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	11,2	1	**10361**12X175	consultare listino
	14 x 2	30	110	11	13	1	**10361**14X2	*see price list*
	16 x 2	32	110	12	15,01	1	**10361**16X2	

R ≥ 1200 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

Raccomandata Lubrorefrigerazione
con olio o grafite
Recommended oil or graphite cooling

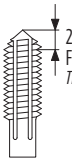
10281 HSS-CO M

A RULLARE - SPECIALI PER LAMIERE - CON CANALINI
Cold forming - for sheets - with oil grooves



HSS-CO AISI M35
HV 820÷850
ISO 2X/6HX

Gambo rinforzato
Reinforced shank









~ DIN 2174 6HX

	DIN 371 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	2,8	1	**10281**03X05	consultare listino
	4 x 0,7	13	63	4,5	3,7	1	**10281**04X07	*see price list*
	5 x 0,8	16	70	6	4,65	1	**10281**05X08	
	6 x 1	19	80	6	5,55	1	**10281**06X1	
	8 x 1,25	22	90	8	7,45	1	**10281**08X125	
	10 x 1,5	24	100	10	9,3	1	**10281**10X15	

	DIN 376 Ø mm	l mm	L mm	d mm	preforo drill	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	9	11,2	1	**10281**12X175	consultare listino
	14 x 2	30	110	11	13	1	**10281**14X2	*see price list*
	16 x 2	32	110	12	15,01	1	**10281**16X2	

R ≥ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

Raccomandata Lubrorefrigerazione
con olio o grafite
Recommended oil or graphite cooling

MASCHI A MACCHINA AL COBALTO “SOVRADIMENSIONATI”, FIL. DIN 13 A PASSO GROSSO

EN *Machine taps oversize*
FR *Tarauds machine surdimensionné*
ESP *Machos de maquina sobredimensionados*
PT *Machos de tamanho superior*

10310 HSS-CO M

SOVRADIMENSIONATI - 6G
Oversize - 6g

HSS-CO AISI M35 6G
Filetto con tolleranza lasca
Thread with large clearance

Gambo rinforzato
Reinforced shank

FORM B

4-5
Filetti
Threads





ISO 3 DIN 371/B

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	1	**10310**03X05	consultare listino
	4 x 0,7	13	63	1	**10310**04X07	*see price list*
	5 x 0,8	16	70	1	**10310**05X08	
	6 x 1	19	80	1	**10310**06X1	
	8 x 1,25	22	90	1	**10310**08X125	
	10 x 1,5	24	100	1	**10310**10X15	

ISO 3 DIN 376/B

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	1	**10310**12X175	consultare listino
						see price list

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

10313 HSS-CO M

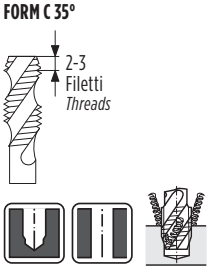
SOVRADIMENSIONATI - 6G
Oversize - 6g

HSS-CO AISI M35 6G
Filetto con tolleranza lasca
Thread with large clearance

Gambo rinforzato
Reinforced shank

FORM C 35°

2-3
Filetti
Threads





ISO 3 DIN 371/C-35°

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	1	**10313**03X05	consultare listino
	4 x 0,7	7	63	1	**10313**04X07	*see price list*
	5 x 0,8	8	70	1	**10313**05X08	
	6 x 1	10	80	1	**10313**06X1	
	8 x 1,25	14	90	1	**10313**08X125	
	10 x 1,5	16	100	1	**10313**10X15	

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

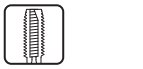
Olio
Oil

MASCHI A MACCHINA AL COBALTO “SOVRADIMENSIONATI”, FIL. DIN 13 A PASSO GROSSO

EN *Machine taps oversize*
FR *Tarauds machine surdimensionné*
ESP *Machos de maquina sobredimensionados*
PT *Machos de tamanho superior*

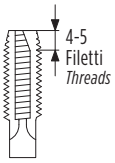
10311 HSS-CO M

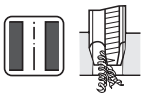
SOVRADIMENSIONATI - 7G
Oversize - 7g



HSS-CO AISI M35 7G
Tolleranza necessaria per tenere conto delle distorsioni da trattamento termico
Allowance for distorsion caused by heat treatment

FORM B







ISO 3 DIN 371/B

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	1	**10311**03X05	consultare listino
	4 x 0,7	13	63	1	**10311**04X07	*see price list*
	5 x 0,8	16	70	1	**10311**05X08	
	6 x 1	19	80	1	**10311**06X1	
	8 x 1,25	22	90	1	**10311**08X125	
	10 x 1,5	24	100	1	**10311**10X15	

ISO 3 DIN 376/B

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	1	**10311**12X175	consultare listino
						see price list

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10314 HSS-CO M

SOVRADIMENSIONATI - 7G
Oversize - 7g



HSS-CO AISI M35 7G
Tolleranza necessaria per tenere conto delle distorsioni da trattamento termico
Allowance for distorsion caused by heat treatment

FORM C 35°







ISO 3 DIN 371/C-35°

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	1	**10314**03X05	consultare listino
	4 x 0,7	7	63	1	**10314**04X07	*see price list*
	5 x 0,8	8	70	1	**10314**05X08	
	6 x 1	10	80	1	**10314**06X1	
	8 x 1,25	14	90	1	**10314**08X125	
	10 x 1,5	16	100	1	**10314**10X15	

ISO 3 DIN 376/C-35°

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	1	**10314**12X175	consultare listino
						see price list

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO “SOVRADIMENSIONATI”, FIL. DIN 13 A PASSO GROSSO

EN *Machine taps oversize*
FR *Tarauds machine surdimensionné*
ESP *Machos de maquina sobredimensionados*
PT *Machos de tamanho superior*

10312 HSS-CO M

SOVRADIMENSIONATI +0,1 mm
Oversize +0,1 mm

HSS-CO AISI M35
+0,1 mm
Tolleranza che tiene conto di un eventuale spessore di rivestimento elettrodeposto (0,25 µm)
Electroplating allowance thickness

FORM B

4-5 Filetti
Threads





R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

ISO 3 DIN 371/B

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	1	**10312**03X05	consultare listino
	4 x 0,7	13	63	1	**10312**04X07	*see price list*
	5 x 0,8	16	70	1	**10312**05X08	
	6 x 1	19	80	1	**10312**06X1	
	8 x 1,25	22	90	1	**10312**08X125	
	10 x 1,5	24	100	1	**10312**10X15	

ISO 3 DIN 376/B

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**12** x 1,75	29	110	1	**10312**12X175	consultare listino
						see price list

10315 HSS-CO M

SOVRADIMENSIONATI +0,1 mm
Oversize +0,1 mm

HSS-CO AISI M35
+0,1 mm
Tolleranza che tiene conto di un eventuale spessore di rivestimento elettrodeposto (0,25 µm)
Electroplating allowance thickness

FORM C 35°

2-3 Filetti
Threads





R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

ISO 3 DIN 371/C-35°

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	6	56	1	**10315**03X05	consultare listino
	4 x 0,7	7	63	1	**10315**04X07	*see price list*
	5 x 0,8	8	70	1	**10315**05X08	
	6 x 1	10	80	1	**10315**06X1	
	8 x 1,25	14	90	1	**10315**08X125	
	10 x 1,5	16	100	1	**10315**10X15	

ISO 3 DIN 376/C-35°

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**12** x 1,75	18	110	1	**10315**12X175	consultare listino
						see price list

MASCHI A MACCHINA AL COBALTO PER DADI, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Machine nut taps, metric coarse thread*
FR *Tarauds machine à l'enfilade, filetage métrique*
ESP *Machos de maquina, tipo tuercas, rosca metrica*
PT *Machos de porca de máquina, rosca métrica grossa*

10273 | **HSS-CO** | **M**

PER DADI
For nuts



HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3







R ≤ 850 N/mm²



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

DIN 357 ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	22	70	2,2	1	**10273**03X05	consultare listino
	4 x 0,7	25	90	2,8	1	**10273**04X07	*see price list*
	5 x 0,8	28	100	3,5	1	**10273**05X08	
	6 x 1	32	110	4,5	1	**10273**06X1	
	8 x 1,25	40	125	6	1	**10273**08X125	
	10 x 1,5	45	140	7	1	**10273**10X15	
	12 x 1,75	50	180	9	1	**10273**12X175	
	14 x 2	56	200	11	1	**10273**14X2	
	16 x 2	63	200	12	1	**10273**16X2	
	18 x 2,5	63	220	14	1	**10273**18X25	
	22 x 2,5	80	280	18	1	**10273**22X25	

PUNTA-MASCHIO A MACCHINA AL COBALTO PER FORATURE E FILETTATURE IN UNA SOLA OPERAZIONE

EN *Combined machine drill-tap for drilling and threading in one operation*
FR *Foret taraudeur à machine, filetage métrique*
ESP *Brocas-macho, rosca metrica normal*
PT *Máquina combinada de furar e roscar numa só operação*

10290 | **HSS-CO** | **M**

UTENSILE COMBINATO
Combined drill tap

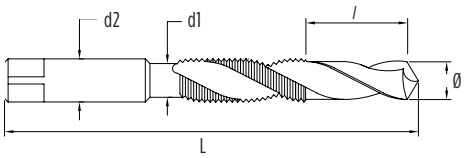
HSS-CO AISI M35
HV 820÷850





DIN 357 ISO 2/6H

	Ø mm	l mm	L mm	d1 mm	d2 mm	pcs.	cod.	cad / each €
M	**3** x 0,5	15	56	2,5	3	1	**10290**03X05	consultare listino
	4 x 0,7	15	63	3,3	4	1	**10290**04X07	*see price list*
	5 x 0,8	19	71	4,2	5	1	**10290**05X08	
	6 x 1	22	80	5	6	1	**10290**06X1	
	8 x 1,25	25	95	6,8	8	1	**10290**08X125	
	10 x 1,5	30	106	8,5	10	1	**10290**10X15	
	12 x 1,75	30	115	10,2	12	1	**10290**12X175	



R ≤ 850 N/mm²



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO, SCAN. DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO A PASSO FINE

EN *Machine taps, metric ISO fine thread*
FR *Tarauds machine, filetage métrique pas fin*
ESP *Machos de maquina, rosca metrica fina*
PT *Machos para máquinas, rosca fina métrica iso*

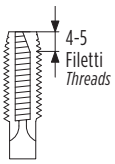
10259 | **HSS-CO** | **MF**



HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM B









DIN 374/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,35	9	56	2,2	1	**10259**03X035	consultare
	4 x 0,35	10	63	2,8	1	**10259**04X035	listino
	4 x 0,5	10	63	2,8	1	**10259**04X05	*see price*
	5 x 0,5	12	70	3,5	1	**10259**05X05	*list*
	5 x 0,75	12	70	3,5	1	**10259**05X075	
	6 x 0,5	14	80	4,5	1	**10259**06X05	
	6 x 0,75	14	80	4,5	1	**10259**06X075	
	7 x 0,75	14	80	5,5	1	**10259**07X075	
	8 x 0,5	19	80	6	1	**10259**08X05	
	8 x 0,75	19	80	6	1	**10259**08X075	
	8 x 1	22	90	6	1	**10259**08X1	
	9 x 0,75	19	80	7	1	**10259**09X075	
	9 x 1	22	90	7	1	**10259**09X1	
	10 x 0,75	20	90	7	1	**10259**10X075	
	10 x 1	20	90	7	1	**10259**10X1	
	10 x 1,25	24	100	7	1	**10259**10X125	
	11 x 1	20	90	8	1	**10259**11X1	
	11 x 1,25	22	90	8	1	**10259**11X125	
	12 x 0,75	22	100	9	1	**10259**12X075	
	12 x 1	22	100	9	1	**10259**12X1	
	12 x 1,25	22	100	9	1	**10259**12X125	
	12 x 1,5	22	100	9	1	**10259**12X15	
	13 x 1	22	100	11	1	**10259**13X1	
	13 x 1,5	22	100	11	1	**10259**13X15	
	14 x 0,75	22	100	11	1	**10259**14X075	
	14 x 1	22	100	11	1	**10259**14X1	
	14 x 1,25	22	100	11	1	**10259**14X125	
	14 x 1,5	22	100	11	1	**10259**14X15	
	15 x 1	22	100	12	1	**10259**15X1	
	15 x 1,5	22	100	12	1	**10259**15X15	
	16 x 1	22	100	12	1	**10259**16X1	
	16 x 1,25	22	100	12	1	**10259**16X125	
	16 x 1,5	22	100	12	1	**10259**16X15	
	18 x 1	25	110	14	1	**10259**18X1	
	18 x 1,25	25	110	14	1	**10259**18X125	
	18 x 1,5	25	110	14	1	**10259**18X15	
	18 x 2	34	125	14	1	**10259**18X2	
	20 x 1	25	125	16	1	**10259**20X1	
	20 x 1,25	25	125	16	1	**10259**20X125	
	20 x 1,5	25	125	16	1	**10259**20X15	
	20 x 2	34	140	16	1	**10259**20X2	
	21 x 1,5	25	125	16	1	**10259**21X15	
	22 x 1	25	125	18	1	**10259**22X1	
	22 x 1,25	25	125	18	1	**10259**22X125	
	22 x 1,5	25	125	18	1	**10259**22X15	
	22 x 2	34	140	18	1	**10259**22X2	
	23 x 1,5	25	125	18	1	**10259**23X15	
	24 x 1	28	140	18	1	**10259**24X1	
	24 x 1,25	28	140	18	1	**10259**24X125	
	24 x 1,5	28	140	18	1	**10259**24X15	
	24 x 2	28	140	18	1	**10259**24X2	
	25 x 1	28	140	18	1	**10259**25X1	

Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
25 x 1,5	28	140	18	1	**10259**25X15	consultare
25 x 2	28	140	18	1	**10259**25X2	listino
26 x 1	28	140	18	1	**10259**26X1	*see price*
26 x 1,5	28	140	18	1	**10259**26X15	*list*
26 x 2	28	140	18	1	**10259**26X2	
27 x 1	28	140	20	1	**10259**27X1	
27 x 1,5	28	140	20	1	**10259**27X15	
27 x 2	28	140	20	1	**10259**27X2	
28 x 1	28	140	20	1	**10259**28X1	
28 x 1,5	28	140	20	1	**10259**28X15	
28 x 2	28	140	20	1	**10259**28X2	
29 x 1,5	28	150	22	1	**10259**29X15	
30 x 1	28	150	22	1	**10259**30X1	
30 x 1,5	28	150	22	1	**10259**30X15	
30 x 2	28	150	22	1	**10259**30X2	
30 x 2,5	45	180	22	1	**10259**30X25	
30 x 3	45	180	22	1	**10259**30X3	
32 x 1,5	28	150	22	1	**10259**32X15	
32 x 2	28	150	22	1	**10259**32X2	
32 x 3	50	180	22	1	**10259**32X3	
33 x 1,5	30	160	25	1	**10259**33X15	
33 x 2	30	160	25	1	**10259**33X2	
33 x 3	50	180	25	1	**10259**33X3	
34 x 1,5	30	170	28	1	**10259**34X15	
34 x 2	30	170	28	1	**10259**34X2	
35 x 1,5	30	170	28	1	**10259**35X15	
36 x 1,5	30	170	28	1	**10259**36X15	
36 x 2	30	170	28	1	**10259**36X2	
36 x 3	56	200	28	1	**10259**36X3	
38 x 1,5	30	170	28	1	**10259**38X15	
39 x 1,5	30	170	32	1	**10259**39X15	
39 x 2	30	170	32	1	**10259**39X2	
39 x 3	60	200	32	1	**10259**39X3	
40 x 1,5	30	170	32	1	**10259**40X15	
40 x 2	30	170	32	1	**10259**40X2	
40 x 3	60	200	32	1	**10259**40X3	
42 x 1,5	30	170	32	1	**10259**42X15	
42 x 2	30	170	32	1	**10259**42X2	
42 x 3	60	200	32	1	**10259**42X3	
45 x 1,5	32	180	36	1	**10259**45X15	
45 x 2	32	180	36	1	**10259**45X2	
45 x 3	50	200	36	1	**10259**45X3	
48 x 1,5	32	190	36	1	**10259**48X15	
48 x 2	32	190	36	1	**10259**48X2	
48 x 3	50	225	36	1	**10259**48X3	
50 x 1,5	32	190	36	1	**10259**50X15	
50 x 2	32	190	36	1	**10259**50X2	
50 x 3	50	225	36	1	**10259**50X3	
52 x 1,5	32	190	40	1	**10259**52X15	
52 x 2	32	190	40	1	**10259**52X2	
52 x 3	50	225	40	1	**10259**52X3	
63 x 1,5	50	275	50	1	**10259**63X15	

R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

MASCHI A MACCHINA AL COBALTO, SCANALATURE DIRITTE, IMBOCCO “C”, FIL. METRICA ISO A PASSO FINE

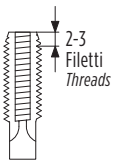
EN *Machine nut taps, metric coarse thread*
FR *Tarauds machine, entrée "C", filetage métrique fin*
ESP *Machos de maquina, entrada “C”, rosca metrica fina*
PT *Machos de máquina, forma de chanfro "c", rosca métrica fina*

10252 | **HSS-CO** | **MF**



HSS-CO AISI M35
HV 820÷850

FORM C









DIN 374/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**4** x 0,35	10	63	2,8	1	**10252**04X035	consultare listino
	5 x 0,5	12	70	3,5	1	**10252**05X05	*see price list*
	6 x 0,75	14	80	4,5	1	**10252**06X075	
	8 x 0,75	19	80	6	1	**10252**08X075	
	8 x 1	22	90	6	1	**10252**08X1	
	10 x 1	20	90	7	1	**10252**10X1	
	10 x 1,25	24	100	7	1	**10252**10X125	
	12 x 1	22	100	9	1	**10252**12X1	
	12 x 1,25	22	100	9	1	**10252**12X125	
	12 x 1,5	22	100	9	1	**10252**12X15	
	14 x 1	22	100	11	1	**10252**14X1	
	14 x 1,25	22	100	11	1	**10252**14X125	
	14 x 1,5	22	100	11	1	**10252**14X15	
	16 x 1	22	100	12	1	**10252**16X1	
	16 x 1,5	22	100	12	1	**10252**16X15	
	18 x 1	25	110	14	1	**10252**18X1	
	18 x 1,5	25	110	14	1	**10252**18X15	
	18 x 2	34	125	14	1	**10252**18X2	
	20 x 1	25	125	16	1	**10252**20X1	
	20 x 1,25	25	125	16	1	**10252**20X125	
	20 x 1,5	25	125	16	1	**10252**20X15	
	20 x 2	34	140	16	1	**10252**20X2	
	22 x 1	25	125	18	1	**10252**22X1	
	22 x 1,5	25	125	18	1	**10252**22X15	
	24 x 1	28	140	18	1	**10252**24X1	
	24 x 1,5	28	140	18	1	**10252**24X15	
	25 x 1	28	140	18	1	**10252**25X1	
	26 x 1,5	28	140	18	1	**10252**26X15	
	27 x 1,5	28	140	20	1	**10252**27X15	
	27 x 2	28	140	20	1	**10252**27X2	
	28 x 1,5	28	140	20	1	**10252**28X15	
	30 x 1,5	28	150	22	1	**10252**30X15	
	30 x 2	28	150	22	1	**10252**30X2	
	32 x 1,5	28	150	22	1	**10252**32X15	
	32 x 2	28	150	22	1	**10252**32X2	
	33 x 2	30	160	25	1	**10252**33X2	
	35 x 1,5	30	170	28	1	**10252**35X15	
	36 x 1,5	30	170	28	1	**10252**36X15	
	38 x 1,5	30	170	28	1	**10252**38X15	
	40 x 1,5	30	170	32	1	**10252**40X15	
	42 x 1,5	30	170	32	1	**10252**42X15	
	45 x 1,5	32	180	36	1	**10252**45X15	
	48 x 1,5	32	190	36	1	**10252**48X15	
	50 x 1,5	32	190	36	1	**10252**50X15	
	52 x 1,5	32	190	40	1	**10252**52X15	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MACCHINA AL COBALTO, SCAN. ELICOIDALI 35°, FIL. METRICA ISO A PASSO FINE

EN *Machine taps, 35° spiral flute, metric fine thread*
FR *Tarauds machine, goujoures 35°, filetage métrique fin*
ESP *Machos de maquina , canal helicoidal 35°, rosca metrica fina*
PT *Machos para máquinas, canal em espiral de 35°, rosca métrica fina*

10260 | **HSS-CO** | **MF**



HSS-CO AISI M35
HV 820÷850

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C 35°









DIN 374/C-35° ISO 2/6H

	Ø	/	L	d			cad / each
	mm	mm	mm	mm	pcs.	cod.	€
M	**3** x 0,35	9	56	2,2	1	**10260**03X035	consultare
	4 x 0,35	10	63	2,8	1	**10260**04X035	listino
	4 x 0,5	10	63	2,8	1	**10260**04X05	*see price*
	5 x 0,5	12	70	3,5	1	**10260**05X05	*list*
	5 x 0,75	12	70	3,5	1	**10260**05X075	
	6 x 0,5	14	80	4,5	1	**10260**06X05	
	6 x 0,75	14	80	4,5	1	**10260**06X075	
	7 x 0,75	14	80	5,5	1	**10260**07X075	
	8 x 0,5	19	80	6	1	**10260**08X05	
	8 x 0,75	19	80	6	1	**10260**08X075	
	8 x 1	22	90	6	1	**10260**08X1	
	9 x 0,75	19	80	7	1	**10260**09X075	
	9 x 1	22	90	7	1	**10260**09X1	
	10 x 0,75	20	90	7	1	**10260**10X075	
	10 x 1	20	90	7	1	**10260**10X1	
	10 x 1,25	24	100	7	1	**10260**10X125	
	11 x 1	20	90	8	1	**10260**11X1	
	11 x 1,25	22	90	8	1	**10260**11X125	
	12 x 0,75	22	100	9	1	**10260**12X075	
	12 x 1	22	100	9	1	**10260**12X1	
	12 x 1,25	22	100	9	1	**10260**12X125	
	12 x 1,5	22	100	9	1	**10260**12X15	
	13 x 1	22	100	11	1	**10260**13X1	
	13 x 1,5	22	100	11	1	**10260**13X15	
	14 x 0,75	22	100	11	1	**10260**14X075	
	14 x 1	22	100	11	1	**10260**14X1	
	14 x 1,25	22	100	11	1	**10260**14X125	
	14 x 1,5	22	100	11	1	**10260**14X15	
	15 x 1	22	100	12	1	**10260**15X1	
	15 x 1,5	22	100	12	1	**10260**15X15	
	16 x 1	22	100	12	1	**10260**16X1	
	16 x 1,25	22	100	12	1	**10260**16X125	
	16 x 1,5	22	100	12	1	**10260**16X15	
	18 x 1	25	110	14	1	**10260**18X1	
	18 x 1,25	25	110	14	1	**10260**18X125	
	18 x 1,5	25	110	14	1	**10260**18X15	
	18 x 2	34	125	14	1	**10260**18X2	
	20 x 1	25	125	16	1	**10260**20X1	
	20 x 1,25	25	125	16	1	**10260**20X125	
	20 x 1,5	25	125	16	1	**10260**20X15	
	20 x 2	34	140	16	1	**10260**20X2	
	21 x 1,5	25	125	16	1	**10260**21X15	
	22 x 1	25	125	18	1	**10260**22X1	
	22 x 1,25	25	125	18	1	**10260**22X125	
	22 x 1,5	25	125	18	1	**10260**22X15	
	22 x 2	34	140	18	1	**10260**22X2	
	23 x 1,5	25	125	18	1	**10260**23X15	
	24 x 1	28	140	18	1	**10260**24X1	
	24 x 1,25	28	140	18	1	**10260**24X125	
	24 x 1,5	28	140	18	1	**10260**24X15	
	24 x 2	28	140	18	1	**10260**24X2	
	25 x 1	28	140	18	1	**10260**25X1	

Ø	/	L	d			cad / each
mm	mm	mm	mm	pcs.	cod.	€
25 x 1,5	28	140	18	1	**10260**25X15	consultare
25 x 2	28	140	18	1	**10260**25X2	listino
26 x 1	28	140	18	1	**10260**26X1	*see price*
26 x 1,5	28	140	18	1	**10260**26X15	*list*
26 x 2	28	140	18	1	**10260**26X2	
27 x 1	28	140	20	1	**10260**27X1	
27 x 1,5	28	140	20	1	**10260**27X15	
27 x 2	28	140	20	1	**10260**27X2	
28 x 1	28	140	20	1	**10260**28X1	
28 x 1,5	28	140	20	1	**10260**28X15	
28 x 2	28	140	20	1	**10260**28X2	
29 x 1,5	28	150	22	1	**10260**29X15	
30 x 1	28	150	22	1	**10260**30X1	
30 x 1,5	28	150	22	1	**10260**30X15	
30 x 2	28	150	22	1	**10260**30X2	
30 x 2,5	45	180	22	1	**10260**30X25	
30 x 3	45	180	22	1	**10260**30X3	
32 x 1,5	28	150	22	1	**10260**32X15	
32 x 2	28	150	22	1	**10260**32X2	
32 x 3	50	180	22	1	**10260**32X3	
33 x 1,5	30	160	25	1	**10260**33X15	
33 x 2	30	160	25	1	**10260**33X2	
33 x 3	50	180	25	1	**10260**33X3	
34 x 1,5	30	170	28	1	**10260**34X15	
34 x 2	30	170	28	1	**10260**34X2	
35 x 1,5	30	170	28	1	**10260**35X15	
36 x 1,5	30	170	28	1	**10260**36X15	
36 x 2	30	170	28	1	**10260**36X2	
36 x 3	56	200	28	1	**10260**36X3	
38 x 1,5	30	170	28	1	**10260**38X15	
39 x 1,5	30	170	32	1	**10260**39X15	
39 x 2	30	170	32	1	**10260**39X2	
39 x 3	60	200	32	1	**10260**39X3	
40 x 1,5	30	170	32	1	**10260**40X15	
40 x 2	30	170	32	1	**10260**40X2	
40 x 3	60	200	32	1	**10260**40X3	
42 x 1,5	30	170	32	1	**10260**42X15	
42 x 2	30	170	32	1	**10260**42X2	
42 x 3	60	200	32	1	**10260**42X3	
45 x 1,5	32	180	36	1	**10260**45X15	
45 x 2	32	180	36	1	**10260**45X2	
45 x 3	50	200	36	1	**10260**45X3	
48 x 1,5	32	190	36	1	**10260**48X15	
48 x 2	32	190	36	1	**10260**48X2	
48 x 3	50	225	36	1	**10260**48X3	
50 x 1,5	32	190	36	1	**10260**50X15	
50 x 2	32	190	36	1	**10260**50X2	
50 x 3	50	225	36	1	**10260**50X3	
52 x 1,5	32	190	40	1	**10260**52X15	
52 x 2	32	190	40	1	**10260**52X2	
52 x 3	50	225	40	1	**10260**52X3	
63 x 1,5	40	275	50	1	**10260**63X15	

R ≤ 850 N/mm²

- Inox — *Stainless*
- Acciaio — *Steel*
- Metalli — *Metals*
- Alluminio — *Aluminum*

Olio — *Oil*

MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO FINE

EN *Machine taps, “left hand”, metric thread*
FR *Tarauds machine, "gauche", filetage métrique*
ESP *Machos de maquina, “izquierda”, rosca metrica*
PT *machos de máquina, "mão esquerda", rosca métrica*

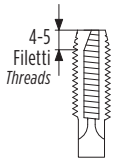
10286 | **HSS-CO** | **MF**

SINISTRI
Left hand



HSS-CO AISI M35
HV 820÷850

FORM B









DIN 374/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**4** x 0,35	10	63	2,8	1	**10286**04X035	consultare listino
	5 x 0,5	12	70	3,5	1	**10286**05X05	*see price list*
	6 x 0,75	14	80	4,5	1	**10286**06X075	
	8 x 0,75	19	80	6	1	**10286**08X075	
	8 x 1	22	90	6	1	**10286**08X1	
	10 x 1	20	90	7	1	**10286**10X1	
	10 x 1,25	24	100	7	1	**10286**10X125	
	12 x 1	22	100	9	1	**10286**12X1	
	12 x 1,25	22	100	9	1	**10286**12X125	
	12 x 1,5	22	100	9	1	**10286**12X15	
	14 x 1	22	100	11	1	**10286**14X1	
	14 x 1,25	22	100	11	1	**10286**14X125	
	14 x 1,5	22	100	11	1	**10286**14X15	
	16 x 1	22	100	12	1	**10286**16X1	
	16 x 1,5	22	100	12	1	**10286**16X15	
	18 x 1	25	110	14	1	**10286**18X1	
	18 x 1,5	25	110	14	1	**10286**18X15	
	18 x 2	34	125	14	1	**10286**18X2	
	20 x 1	25	125	16	1	**10286**20X1	
	20 x 1,25	25	125	16	1	**10286**20X125	
	20 x 1,5	25	125	16	1	**10286**20X15	
	20 x 2	34	140	16	1	**10286**20X2	
	22 x 1	25	125	18	1	**10286**22X1	
	22 x 1,5	25	125	18	1	**10286**22X15	
	22 x 2	34	140	18	1	**10286**22X2	
	24 x 1	28	140	18	1	**10286**24X1	
	24 x 1,5	28	140	18	1	**10286**24X15	
	24 x 2	28	140	18	1	**10286**24X2	
	25 x 1	28	140	18	1	**10286**25X1	
	26 x 1,5	28	140	18	1	**10286**26X15	
	27 x 1,5	28	140	20	1	**10286**27X15	
	27 x 2	28	140	20	1	**10286**27X2	
	28 x 1,5	28	140	20	1	**10286**28X15	
	30 x 1,5	28	150	22	1	**10286**30X15	
	30 x 2	28	150	22	1	**10286**30X2	
	32 x 1,5	28	150	22	1	**10286**32X15	
	32 x 2	28	150	22	1	**10286**32X2	
	33 x 2	30	160	25	1	**10286**33X2	
	35 x 1,5	30	170	28	1	**10286**35X15	
	36 x 1,5	30	170	28	1	**10286**36X15	
	36 x 2	30	170	28	1	**10286**36X2	
	38 x 1,5	30	170	28	1	**10286**38X15	
	40 x 1,5	30	170	32	1	**10286**40X15	
	42 x 1,5	30	170	32	1	**10286**42X15	
	45 x 1,5	32	180	36	1	**10286**45X15	
	48 x 1,5	32	190	36	1	**10286**48X15	
	50 x 1,5	32	190	36	1	**10286**50X15	
	52 x 1,5	32	190	40	1	**10286**52X15	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MACCHINA AL COBALTO “SINISTRI”, FILETTATURA METRICA ISO A PASSO FINE

EN *Machine taps, “left hand”, metric thread*
FR *Tarauds machine, "gauche", filetage métrique*
ESP *Machos de maquina, “izquierda”, rosca metrica*
PT *machos de máquina, "mão esquerda", rosca métrica*

10287 | **HSS-CO** | **MF**

SINISTRI
Left hand



HSS-CO AISI M35
HV 820÷850

FORM C 35°









DIN 374/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**4** x 0,35	10	63	2,8	1	**10287**04X035	consultare listino
	5 x 0,5	12	70	3,5	1	**10287**05X05	*see price list*
	6 x 0,75	14	80	4,5	1	**10287**06X075	
	8 x 0,75	19	80	6,0	1	**10287**08X075	
	8 x 1	22	90	6,0	1	**10287**08X1	
	10 x 1	20	90	7,0	1	**10287**10X1	
	10 x 1,25	24	100	7,0	1	**10287**10X125	
	12 x 1	22	100	9,0	1	**10287**12X1	
	12 x 1,25	22	100	9,0	1	**10287**12X125	
	12 x 1,5	22	100	9,0	1	**10287**12X15	
	14 x 1	22	100	11,0	1	**10287**14X1	
	14 x 1,25	22	100	11,0	1	**10287**14X125	
	14 x 1,5	22	100	11,0	1	**10287**14X15	
	16 x 1	22	100	12,0	1	**10287**16X1	
	16 x 1,5	22	100	12,0	1	**10287**16X15	
	18 x 1	25	110	14,0	1	**10287**18X1	
	18 x 1,5	25	110	14,0	1	**10287**18X15	
	18 x 2	34	125	14,0	1	**10287**18X2	
	20 x 1	25	125	16,0	1	**10287**20X1	
	20 x 1,25	25	125	16,0	1	**10287**20X125	
	20 x 1,5	25	125	16,0	1	**10287**20X15	
	20 x 2	34	140	16,0	1	**10287**20X2	
	22 x 1	25	125	18,0	1	**10287**22X1	
	22 x 1,5	25	125	18,0	1	**10287**22X15	
	22 x 2	34	140	18,0	1	**10287**22X2	
	24 x 1	28	140	18,0	1	**10287**24X1	
	24 x 1,5	28	140	18,0	1	**10287**24X15	
	24 x 2	28	140	18,0	1	**10287**24X2	
	25 x 1	28	140	18,0	1	**10287**25X1	
	26 x 1,5	28	140	18,0	1	**10287**26X15	
	27 x 1,5	28	140	20,0	1	**10287**27X15	
	27 x 2	28	140	20,0	1	**10287**27X2	
	28 x 1,5	28	140	20,0	1	**10287**28X15	
	30 x 1,5	28	150	22,0	1	**10287**30X15	
	30 x 2	28	150	22,0	1	**10287**30X2	
	32 x 1,5	28	150	22,0	1	**10287**32X15	
	32 x 2	28	150	22,0	1	**10287**32X2	
	33 x 2	30	160	25,0	1	**10287**33X2	
	35 x 1,5	30	170	28,0	1	**10287**35X15	
	36 x 1,5	30	170	28,0	1	**10287**36X15	
	36 x 2	30	170	28,0	1	**10287**36X2	
	38 x 1,5	30	170	28,0	1	**10287**38X15	
	40 x 1,5	30	170	32,0	1	**10287**40X15	
	42 x 1,5	30	170	32,0	1	**10287**42X15	
	45 x 1,5	32	180	36,0	1	**10287**45X15	
	48 x 1,5	32	190	36,0	1	**10287**48X15	
	50 x 1,5	32	190	36,0	1	**10287**50X15	
	52 x 1,5	32	190	40,0	1	**10287**52X15	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

MASCHI A MACCHINA AL COBALTO, FILETTATURA GAS CILINDRICA BSPP

EN *Machine taps, BSPP pipe-thread*
FR *Tarauds machine, filetage gaz BSPP*
ESP *Machos de maquina, rosca gas BSPP*
PT *Machos de máquina, rosca BSPP*

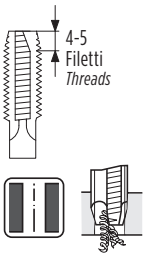
10268 HSS-CO BSPP



HSS-CO AISI M35
HV 820÷850

Gambo rinforzato
Reinforced shank

FORM B





DIN 5156/B CLASSE A

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
G	**1/8"** x 28	20	90	7	1	**10268**1/8	consultare listino
	1/4" x 19	22	100	11	1	**10268**1/4	*see price list*
	3/8" x 19	22	100	12	1	**10268**3/8	
	1/2" x 14	25	125	16	1	**10268**1/2	
	5/8" x 14	25	125	18	1	**10268**5/8	
	3/4" x 14	28	140	20	1	**10268**3/4	
	7/8" x 14	28	150	22	1	**10268**7/8	
	1" x 11	30	160	25	1	**10268**1	
	1-1/8" x 11	30	170	28	1	**10268**1.1/8	
	1-1/4" x 11	30	170	32	1	**10268**1.1/4	
	1-3/8" x 11	32	180	36	1	**10268**1.3/8	
	1-1/2" x 11	32	190	36	1	**10268**1.1/2	
	1-3/4" x 11	32	190	40	1	**10268**1.3/4	
	2" x 11	40	220	45	1	**10268**2	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals

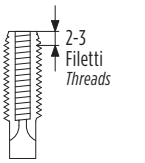

Olio
Oil

10276 HSS-CO BSPP



HSS-CO AISI M35
HV 820÷850

FORM C









DIN 5156/C CLASSE A

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
G	**1/8"** x 28	20	90	7	1	**10276**1/8	consultare listino
	1/4" x 19	22	100	11	1	**10276**1/4	*see price list*
	3/8" x 19	22	100	12	1	**10276**3/8	
	1/2" x 14	25	125	16	1	**10276**1/2	
	5/8" x 14	25	125	18	1	**10276**5/8	
	3/4" x 14	28	140	20	1	**10276**3/4	
	7/8" x 14	28	150	22	1	**10276**7/8	
	1" x 11	30	160	25	1	**10276**1	
	1-1/8" x 11	30	170	28	1	**10276**1.1/8	
	1-1/4" x 11	30	170	32	1	**10276**1.1/4	
	1-3/8" x 11	32	180	36	1	**10276**1.3/8	
	1-1/2" x 11	32	190	36	1	**10276**1.1/2	
	1-3/4" x 11	32	190	40	1	**10276**1.3/4	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MACCHINA AL COBALTO, FILETTATURA GAS CILINDRICA BSPP

EN *Machine taps, BSPP pipe-thread*
FR *Tarauds machine, filetage gaz BSPP*
ESP *Machos de maquina, rosca gas BSPP*
PT *Machos de máquina, rosca BSPP*

10267 HSS-CO BSPP



HSS-CO AISI M35
HV 820÷850

FORM C 35°









DIN 5156/C-35° CLASSE A

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
G	**1/8"** x 28	20	90	7	1	**10267**1/8	consultare listino
	1/4" x 19	22	100	11	1	**10267**1/4	*see price list*
	3/8" x 19	22	100	12	1	**10267**3/8	
	1/2" x 14	25	125	16	1	**10267**1/2	
	5/8" x 14	25	125	18	1	**10267**5/8	
	3/4" x 14	28	140	20	1	**10267**3/4	
	7/8" x 14	28	150	22	1	**10267**7/8	
	1" x 11	30	160	25	1	**10267**1	
	1-1/8" x 11	30	170	28	1	**10267**1.1/8	
	1-1/4" x 11	30	170	32	1	**10267**1.1/4	
	1-3/8" x 11	32	180	36	1	**10267**1.3/8	
	1-1/2" x 11	32	190	36	1	**10267**1.1/2	
	1-3/4" x 11	32	190	40	1	**10267**1.3/4	
	2" x 11	40	220	45	1	**10267**2	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil



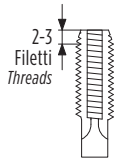
SINISTRI
Left hand

10289 HSS-CO BSPP



HSS-CO AISI M35
HV 820÷850

FORM C









DIN 5156/C CLASSE A

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
G	**1/4"** x 19	22	100	11	1	**10289**1/4	consultare listino
	3/8" x 19	22	100	12	1	**10289**3/8	*see price list*
	5/8" x 14	25	125	18	1	**10289**5/8	
	3/4" x 14	28	140	20	1	**10289**3/4	

R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MACCHINA AL COBALTO, FILETTATURA INGLESE WHITWORTH A PASSO GROSSO

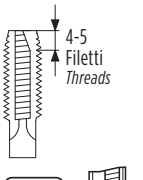
EN *Machine taps, british standard thread*
FR *Tarauds machine, filetage BSW*
ESP *Machos de maquina, rosca inglesa BSW*
PT *Machos de máquina, rosca padrão britânica*

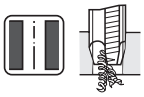
10265 HSS-CO BSW

10266

HSS-CO AISI M35
HV 820÷850

FORM B







≃ DIN 371/B ISO 2/6 H

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
BSW	**1/8"** x 40	5	56	3,5	1	**10265**1/8	consultare listino
	5/32" x 32	6	63	4,5	1	**10265**5/32	*see price list*
	3/16" x 24	9	70	5,5	1	**10265**3/16	
	1/4" x 20	10	90	7	1	**10265**1/4	
	5/16" x 18	12	90	8	1	**10265**5/16	
	3/8" x 16	14	100	9	1	**10265**3/8	

≃ DIN 376/B ISO 2/6 H

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
BSW	**7/16"** x 14	20	100	8	1	**10266**7/16	consultare listino
	1/2" x 12	25	110	9	1	**10266**1/2	*see price list*
	9/16" x 12	25	110	11	1	**10266**9/16	
	5/8" x 11	28	110	12	1	**10266**5/8	
	3/4" x 10	32	125	14	1	**10266**3/4	
	7/8" x 9	32	140	18	1	**10266**7/8	
	1" x 8	36	160	20	1	**10266**1	
	1-1/4" x 7	40	180	22	1	**10266**1.1/4	
	1-1/2" x 6	50	200	32	1	**10266**1.1/2	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*

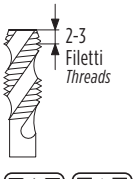
Olio *Oil*

10274 HSS-CO BSW

10275

HSS-CO AISI M35
HV 820÷850

FORM C 35°









DIN 371/C-35°

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
BSW	**1/8"** x 40	5	56	3,5	1	**10274**1/8	consultare listino
	5/32" x 32	6	63	4,5	1	**10274**5/32	*see price list*
	3/16" x 24	9	70	5,5	1	**10274**3/16	
	1/4" x 20	10	90	7	1	**10274**1/4	
	5/16" x 18	12	90	8	1	**10274**5/16	
	3/8" x 16	14	100	10	1	**10274**3/8	

DIN 376/C-35°

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
BSW	**7/16"** x 14	20	100	8	1	**10275**7/16	consultare listino
	1/2" x 12	25	110	9	1	**10275**1/2	*see price list*
	9/16" x 12	25	110	11	1	**10275**9/16	
	5/8" x 11	28	110	12	1	**10275**5/8	
	3/4" x 10	32	125	14	1	**10275**3/4	
	7/8" x 9	32	140	18	1	**10275**7/8	
	1" x 8	36	160	20	1	**10275**1	
	1-1/4" x 7	40	180	22	1	**10275**1.1/4	
	1-1/2" x 6	50	200	32	1	**10275**1.1/2	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*

Olio *Oil*

MASCHI A MACCHINA AL COBALTO CONICI PER TUBI, FILETTATURA AMERICANA NPT

EN *NPT machine taps*
FR *Tarauds macine NPT*
ESP *Machos de maquina NPT*
PT *Machos para máquinas NPT*

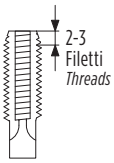
10293 **HSS-CO** **NPT**

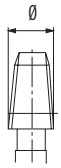
CONICO
Taper



HSS-CO AISI M35
HV 820÷850

FORM C





CONICITÀ 1:16
Taper 1:16





	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
NPT	**1/8"** x 27	20	90	7	1	**10293**1/8	consultare listino
	1/4" x 18	22	100	11	1	**10293**1/4	*see price list*
	3/8" x 18	22	100	12	1	**10293**3/8	
	1/2" x 14	28	125	16	1	**10293**1/2	
	3/4" x 14	28	140	20	1	**10293**3/4	
	1" x 11,5	38	160	25	1	**10293**1	

R ≤ 850 N/mm²



Inox
Stainless



Acciaio
Steel



Metalli
Metals



Olio
Oil

MASCHI A MACCHINA AL COBALTO CORTI PER TUBI, FILETTATURA CILINDRICA AMERICANA NPS

EN *Short machine taps for pipes*
FR *Tarauds machine courte*
ESP *Machos de maquina cortos para tubos*
PT *Machos curtas para tubos*

10308 HSS-CO NPS

HSS-CO AISI M35
HV 820÷850

FORM C

2-3 Filetti
Threads



	Ø	l mm	L mm	pcs.	cod.	cad / each €
NPS	**1/16"** x 27	17,5	54	1	**10308**1/16	consultare listino
	1/8" x 27	19	55	1	**10308**1/8	*see price list*
	1/4" x 18	28	62	1	**10308**1/4	
	3/8" x 18	28	65	1	**10308**3/8	
	1/2" x 14	35	80	1	**10308**1/2	
	1" x 11,5	45	95	1	**10308**1	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10309 HSS-CO NPS

HSS-CO AISI M35
HV 820÷850

FORM C 35°

2-3 Filetti
Threads



FORM C 35°

	Ø	l mm	L mm	pcs.	cod.	cad / each €
NPS	**1/16"** x 27	17,5	54	1	**10309**1/16	consultare listino
	1/4" x 18	28	62	1	**10309**1/4	*see price list*
	3/8" x 18	28	65	1	**10309**3/8	
	1/2" x 14	35	80	1	**10309**1/2	
	3/4" x 14	35	85	1	**10309**3/4	
	1" x 11,5	45	95	1	**10309**1	

R ≤ 850 N/mm²

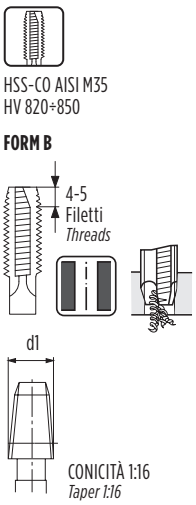
Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO CORTI PER TUBI, FILETTATURA CILINDRICA AMERICANA NPTF

EN *Short machine taps for pipes*
FR *Tarauds machine courte*
ESP *Machos de maquina cortos para tubos*
PT *Machos curtas para tubos*

10306 HSS-CO NPTF

CONICO
Taper





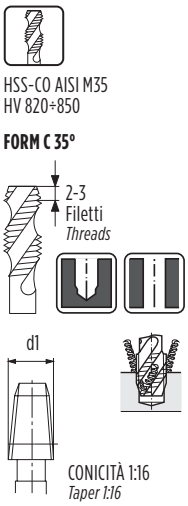
Ø	l mm	L mm	pcs.	cod.	cad / each €
NPTF **1/16″** x 27	19	55	1	**10306**1/16	consultare listino
1/8″ x 27	19	55	1	**10306**1/8	*see price list*
1/4″ x 18	28	62	1	**10306**1/4	
3/8″ x 18	28	65	1	**10306**3/8	
1/2″ x 14	35	80	1	**10306**1/2	
3/4″ x 14	35	85	1	**10306**3/4	
1″ x 11,5	45	95	1	**10306**1	

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

10307 HSS-CO NPTF

CONICO
Taper





FORM C 35°

Ø mm	l mm	L mm	pcs.	cod.	cad / each €
NPS **3/8″** x 18	28	65	1	**10307**3/8	consultare listino
1/2″ x 14	35	80	1	**10307**1/2	*see price list*
3/4″ x 14	35	85	1	**10307**3/4	

In esaurimento
Running out

R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA AL COBALTO CORTI ISO 529, FILETTATURA AMERICANA UN

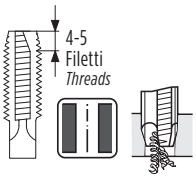
EN *Short machine taps, American UN thread*
FR *Tarauds machine courte*
ESP *Machos de maquina cortos*
PT *Machos curtos para máquinas, rosca americana UN*

10301 | **HSS-CO** | **8-UN**

HSS-CO AISI M35
HV 820÷850

Gambo rinforzato
Reinforced shank

FORM B





R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

ISO 529-2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UN	**1-1/8"** x 8	48	138	20	1	**10301**1.1/8	consultare listino
	1-1/4" x 8	51	151	22,4	1	**10301**1.1/4	*see price list*
	2-1/2" x 8	79	224	40	1	**10301**2.1/2	

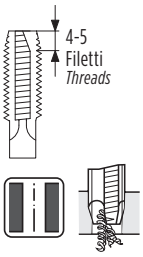
MASCHI A MACCHINA AL COBALTO CORTI ISO 529, FILETTATURA AMERICANA UNEF

EN *Short machine taps, American UNEF thread*
FR *Tarauds machine courte*
ESP *Machos de maquina cortos*
PT *Machos curtos para máquinas, rosca americana UNEF*

10305 | **HSS-CO** | **UNEF**

HSS-CO AISI M35
HV 820÷850

FORM B





R ≤ 850 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

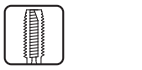
ISO 529-2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UN	**1/4"** x 32	19	66	6,3	1	**10305**1/4	consultare listino
	5/16" x 32	23	75	10	1	**10305**5/16	*see price list*
	3/8" x 32	24	80	10	1	**10305**3/8	
	1/2" x 28	29	89	9	1	**10305**1/2	
	9/16" x 24	30	95	11,2	1	**10305**9/16	
	5/8" x 24	32	102	12,5	1	**10305**5/8	
	3/4" x 20	37	112	14	1	**10305**3/4	
	7/8" x 20	38	118	16	1	**10305**7/8	
	1" x 20	45	130	18	1	**10305**1	
	1-1/16" x 18	48	138	20	1	**10305**1.1/16	
	1-1/8" x 18	48	138	20	1	**10305**1.1/8	
	1-1/4" x 18	51	151	22,4	1	**10305**1.1/4	
	1-1/2" x 18	60	170	28	1	**10305**1.1/2	
	1-3/4" x 18	67	187	31,5	1	**10305**1.3/4	
	2" x 18	70	200	35,5	1	**10305**2	

MASCHI A MACCHINA AL COBALTO, FILETTATURA AMERICANA UNC A PASSO GROSSO

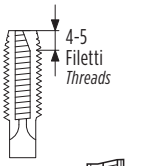
EN *Short machine taps, american un thread*
FR *Tarauds machine, filetage americain UNC*
ESP *Machos de maquina cortos*
PT *Machos de máquina, rosca grossa americana unc*

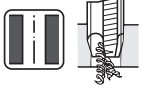
10269 HSS-CO UNC
10270



HSS-CO AISI M35
HV 820÷850

FORM B







R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals


Olio
Oil

ANSI B1.1 ≃ DIN 371/B 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNC	**6″** x 32	12	56	4	1	**10269**NR06	consultare listino
	8″ x 32	13	63	4,5	1	**10269**NR08	*see price list*
	10″ x 24	15	70	6	1	**10269**NR10	
	12″ x 24	16	70	6	1	**10269**NR12	
	1/4″ x 20	17	80	7	1	**10269**1/4	
	5/16″ x 18	20	90	8	1	**10269**5/16	
	3/8″ x 16	22	100	9	1	**10269**3/8	

≃ DIN 376/B 2B

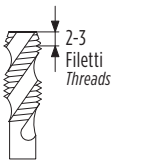
	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNC	**7/16″** x 14	22	100	8	1	**10270**7/16	consultare listino
	1/2″ x 13	25	110	9	1	**10270**1/2	*see price list*
	9/16″ x 12	26	110	11	1	**10270**9/16	
	5/8″ x 11	27	110	12	1	**10270**5/8	
	3/4″ x 10	30	125	14	1	**10270**3/4	
	7/8″ x 9	32	140	18	1	**10270**7/8	
	1″ x 8	36	160	20	1	**10270**1	
	1-1/4″ x 7	40	180	22	1	**10270**1.1/4	
	1-1/2″ x 6	50	200	32	1	**10270**1.1/2	

10271 HSS-CO UNC
10272



HSS-CO AISI M35
HV 820÷850

FORM C 35°









R ≤ 850 N/mm²



Inox
Stainless


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

ANSI B1.1 ≃ DIN 371/C-35° 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNC	**6″** x 32	7	56	4	1	**10271**NR06	consultare listino
	8″ x 32	8	63	4,5	1	**10271**NR08	*see price list*
	10″ x 24	10	70	6	1	**10271**NR10	
	12″ x 24	10	70	6	1	**10271**NR12	
	1/4″ x 20	13	80	7	1	**10271**1/4	
	5/16″ x 18	14	90	8	1	**10271**5/16	
	3/8″ x 16	16	100	9	1	**10271**3/8	

≃ DIN 376/C-35° 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNC	**7/16″** x 14	17	100	8	1	**10272**7/16	consultare listino
	1/2″ x 13	20	110	9	1	**10272**1/2	*see price list*
	9/16″ x 12	20	110	11	1	**10272**9/16	
	5/8″ x 11	22	110	12	1	**10272**5/8	
	3/4″ x 10	25	125	14	1	**10272**3/4	
	7/8″ x 9	27	140	18	1	**10272**7/8	
	1″ x 8	30	160	20	1	**10272**1	
	1-1/4″ x 7	35	180	22	1	**10272**1.1/4	
	1-1/2″ x 6	40	200	32	1	**10272**1.1/2	

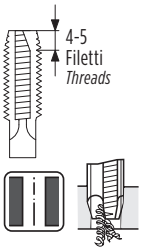
MASCHI A MACCHINA AL COBALTO, FILETTATURA AMERICANA UNF A PASSO FINE

EN *Short machine taps, american un thread*
FR *Tarauds machine, filetage americain UNF*
ESP *Machos de maquina, rosca americana fina UNF*
PT *Machos de máquina, rosca americana UNF*

10282 HSS-CO UNF
10283

HSS-CO AISI M35
HV 820÷850

FORM B





R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

ANSI B1.1 ≃ DIN 371/B 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNF	**6″** x 40	12	56	4	1	**10282**NR06	consultare listino
	8″ x 36	13	63	4,5	1	**10282**NR08	*see price list*
	10″ x 32	15	70	6	1	**10282**NR10	
	12″ x 28	16	70	6	1	**10282**NR12	
	1/4″ x 28	17	80	7	1	**10282**1/4	
	5/16″ x 24	17	90	8	1	**10282**5/16	
	3/8″ x 24	18	100	9	1	**10282**3/8	

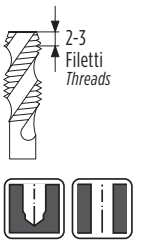
≃ DIN 376/B 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNF	**7/16″** x 20	22	100	8	1	**10283**7/16	consultare listino
	1/2″ x 20	22	100	9	1	**10283**1/2	*see price list*
	9/16″ x 18	22	100	11	1	**10283**9/16	
	5/8″ x 18	22	100	12	1	**10283**5/8	
	3/4″ x 16	25	110	14	1	**10283**3/4	
	7/8″ x 14	26	140	18	1	**10283**7/8	
	1″ x 14	28	150	20	1	**10283**1	
	1-1/4″ x 12	30	150	22	1	**10283**1.1/4	
	1-1/2″ x 12	33	170	32	1	**10283**1.1/2	

10284 HSS-CO UNF
10285

HSS-CO AISI M35
HV 820÷850

FORM C 35°





R ≤ 850 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

ANSI B1.1 ≃ DIN 371/C-35° 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNF	**6″** x 40	7	56	4	1	**10284**NR06	consultare listino
	8″ x 36	8	63	4,5	1	**10284**NR08	*see price list*
	10″ x 32	10	70	6	1	**10284**NR10	
	12″ x 28	10	70	6	1	**10284**NR12	
	1/4″ x 28	10	80	7	1	**10284**1/4	
	5/16″ x 24	10	90	8	1	**10284**5/16	
	3/8″ x 24	10	100	9	1	**10284**3/8	

≃ DIN 376/C-35° 2B

	Ø	l mm	L mm	d mm	pcs.	cod.	cad / each €
UNF	**7/16″** x 20	13	100	8	1	**10285**7/16	consultare listino
	1/2″ x 20	13	100	9	1	**10285**1/2	*see price list*
	9/16″ x 18	15	100	11	1	**10285**9/16	
	5/8″ x 18	15	100	12	1	**10285**5/8	
	3/4″ x 16	17	110	14	1	**10285**3/4	
	7/8″ x 14	17	140	18	1	**10285**7/8	
	1″ x 14	20	150	20	1	**10285**1	
	1-1/4″ x 12	22	150	22	1	**10285**1.1/4	
	1-1/2″ x 12	25	170	32	1	**10285**1.1/2	

MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMB. CORRETTO, FILETTATURA METRICA ISO PASSO GROSSO

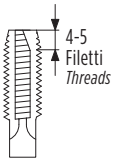
EN *Machine taps, spiral point, metric thread*
FR *Tarauds machine, entrée gun, fil. métrique*
ESP *Machos de maquina, entrada corregida, rosca metrica*
PT *machos para máquinas, ponta em espiral, rosca métrica*

10162 HSS-G M



HSS-G AISI M2
HV 750

FORM B







DIN 371/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**2** x 0,4	8	45	2,8	1	**10162**02x04	consultare listino
	2,5 x 0,45	9	50	2,8	1	**10162**025x045	*see price list*
	3 x 0,5	11	56	3,5	1	**10162**03x05	
	3,5 x 0,6	13	56	4	1	**10162**035x06	
	4 x 0,7	13	63	4,5	1	**10162**04x07	
	5 x 0,8	16	70	6	1	**10162**05x08	
	6 x 1	19	80	6	1	**10162**06x1	
	7 x 1	19	80	7	1	**10162**07x1	
	8 x 1,25	22	90	8	1	**10162**08x125	
	10 x 1,5	24	100	10	1	**10162**10x15	

SELF ART. 10163
Su richiesta / *On demand*

R ≤ 850 N/mm²

Acciaio *Steel*
Metalli *Metals*

Olio *Oil*



Art. 10240300

7 pcs
M 3÷12



Art. 10240306

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

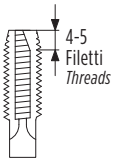
10165 HSS-G M



HSS-G AISI M2
HV 750

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM B







DIN 376/B ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10165**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10165**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10165**05X08	
	6 x 1	19	80	4,5	1	**10165**06X1	
	8 x 1,25	22	90	6	1	**10165**08X125	
	10 x 1,5	24	100	7	1	**10165**10X15	
	12 x 1,75	29	110	9	1	**10165**12X175	
	14 x 2	30	110	11	1	**10165**14X2	
	16 x 2	30	110	12	1	**10165**16X2	
	18 x 2,5	34	125	14	1	**10165**18X25	
	20 x 2,5	34	140	16	1	**10165**20X25	
	22 x 2,5	34	140	18	1	**10165**22X25	
	24 x 3	38	160	18	1	**10165**24X3	
	27 x 3	38	160	20	1	**10165**27X3	
	30 x 3,5	45	180	22	1	**10165**30X35	
	33 x 3,5	50	180	25	1	**10165**33X35	
	36 x 4	56	200	28	1	**10165**36X4	
	39 x 4	60	200	32	1	**10165**39X4	
	42 x 4,5	60	200	32	1	**10165**42X45	
	45 x 4,5	65	220	36	1	**10165**45X45	
	48 x 5	70	250	36	1	**10165**48X5	
	52 x 5	70	250	40	1	**10165**52X5	

SELF ART. 10166
Su richiesta / *On demand*

R ≤ 850 N/mm²

Acciaio *Steel*
Metalli *Metals*

Olio *Oil*

MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMB. “C”, FILETTATURA ISO PASSO GROSSO

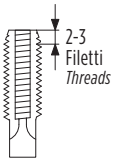
EN *Machine taps, “C” chamfer form, metric thread*
FR *Tarauds machine, entrée "C", filetage metrique*
ESP *Machos de maquina, entrada “C”, rosca metrica*
PT *Machos para máquinas, forma de chanfro "c", rosca métrica*

10168 HSS-G M



HSS-G AISI M2
HV 750

FORM C









DIN 371/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**2** x 0,4	8	45	2,8	1	**10168**02X04	consultare listino
	2,3 x 0,4	9	45	2,8	1	**10168**023X04	*see price list*
	2,5 x 0,45	9	50	2,8	1	**10168**025X045	
	2,6 x 0,45	9	50	2,8	1	**10168**026X045	
	3 x 0,5	11	56	3,5	1	**10168**03X05	
	3,5 x 0,6	13	56	4	1	**10168**035X06	
	4 x 0,7	13	63	4,5	1	**10168**04X07	
	5 x 0,8	16	70	6	1	**10168**05X08	
	6 x 1	19	80	6	1	**10168**06X1	
	7 x 1	19	80	7	1	**10168**07X1	
	8 x 1,25	22	90	8	1	**10168**08X125	
	10 x 1,5	24	100	10	1	**10168**10X15	

R ≤ 700 N/mm²


Acciaio
Steel


Metalli
Metals


Olio
Oil

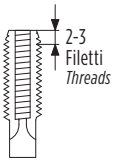
10171 HSS-G M



HSS-G AISI M2
HV 750

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C









DIN 376/C ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10171**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10171**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10171**05X08	
	6 x 1	19	80	4,5	1	**10171**06X1	
	8 x 1,25	22	90	6	1	**10171**08X125	
	10 x 1,5	24	100	7	1	**10171**10X15	
	12 x 1,75	29	110	9	1	**10171**12X175	
	14 x 2	30	110	11	1	**10171**14X2	
	16 x 2	32	110	12	1	**10171**16X2	
	18 x 2,5	34	125	14	1	**10171**18X25	
	20 x 2,5	34	140	16	1	**10171**20X25	
	22 x 2,5	34	140	18	1	**10171**22X25	
	24 x 3	38	160	18	1	**10171**24X3	
	27 x 3	38	160	20	1	**10171**27X3	
	30 x 3,5	45	180	22	1	**10171**30X35	
	33 x 3,5	50	180	25	1	**10171**33X35	
	36 x 4	56	200	28	1	**10171**36X4	
	39 x 4	60	200	32	1	**10171**39X4	
	42 x 4,5	60	200	32	1	**10171**42X45	
	45 x 4,5	65	220	36	1	**10171**45X45	
	48 x 5	70	250	36	1	**10171**48X5	
	52 x 5	70	250	40	1	**10171**52X5	

R ≤ 700 N/mm²


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MACCHINA IN HSS, SCANALATURE DESTRE 15°, IMB. "C", FILETTATURA METRICA ISO PASSO GROSSO

EN *Machine taps, 15° spiral flute, metric thread*
FR *Tarauds machine, goujures 15°, filetage métrique*
ESP *Machos de maquina, canal helicoidal a 15°, rosca metrica*
PT *Machos de máquina, 15° de flauta em espiral, rosca métrica*

10174 HSS-G M

HSS-G AISI M2
HV 750

FORM C 15°

2-3 Filetti
Threads



DIN 371/C-15° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	3,5	1	**10174**03X05	consultare listino
	4 x 0,7	13	63	4,5	1	**10174**04X07	*see price list*
	5 x 0,8	16	70	6	1	**10174**05X08	
	6 x 1	19	80	6	1	**10174**06X1	
	8 x 1,25	22	90	8	1	**10174**08X125	
	10 x 1,5	24	100	10	1	**10174**10X15	



Art. 10240311

7 pcs
M 3÷12



Art. 10240312

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2

SELF ART. 10175
Su richiesta / *On demand*

R ≤ 700 N/mm²

Acciaio
Steel

Metalli
Metals

Olio
Oil

10177 HSS-G M

HSS-G AISI M2
HV 750

Gambo cilindrico Ø ≤ M3
Round shank Ø ≤ M3

FORM C 15°

2-3 Filetti
Threads



DIN 376/C-15° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	56	2,2	1	**10177**03X05	consultare listino
	4 x 0,7	13	63	2,8	1	**10177**04X07	*see price list*
	5 x 0,8	16	70	3,5	1	**10177**05X08	
	6 x 1	19	80	4,5	1	**10177**06X1	
	8 x 1,25	22	90	6	1	**10177**08X125	
	10 x 1,5	24	100	7	1	**10177**10X15	
	12 x 1,75	29	110	9	1	**10177**12X175	
	14 x 2	30	110	11	1	**10177**14X2	
	16 x 2	30	110	12	1	**10177**16X2	
	18 x 2,5	34	125	14	1	**10177**18X25	
	20 x 2,5	34	140	16	1	**10177**20X25	
	22 x 2,5	34	140	18	1	**10177**22X25	
	24 x 3	38	160	18	1	**10177**24X3	

R ≤ 700 N/mm²

Acciaio
Steel

Metalli
Metals

Olio
Oil

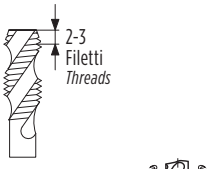
MASCHI A MACCHINA IN HSS, SCANALATURE DESTRE 35°, IMB. "C", FILETTATURA METRICA ISO

EN *Machine taps, 35° spiral flute, metric coarse thread*
FR *Tarauds machine, goujures 35°, filetage métrique gros*
ESP *Machos de maquina, canal helicoidal 35°, rosca metrica vasta*
PT *Machos para máquinas, canal em espiral de 35°, rosca métrica grossa*

10183 HSS-G M

HSS-G AISI M2
HV 750

FORM C 35°







DIN 371/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**2** x 0,4	6	45	2,8	1	**10183**02X04	consultare listino
	2,5 x 0,45	6	50	2,8	1	**10183**025X045	*see price list*
	3 x 0,5	6	56	3,5	1	**10183**03X05	
	3,5 x 0,6	13	56	4	1	**10183**035X06	
	4 x 0,7	7	63	4,5	1	**10183**04X07	
	5 x 0,8	8	70	6	1	**10183**05X08	
	6 x 1	10	80	6	1	**10183**06X1	
	7 x 1	19	80	7	1	**10183**07X1	
	8 x 1,25	14	90	8	1	**10183**08X125	
	10 x 1,5	16	100	10	1	**10183**10X15	

SELF ART. 10184
Su richiesta / *On demand*

R ≤ 700 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*



Art. 10240305

7 pcs
M 3÷12



Art. 10240307

14 pcs
M 3÷12
Ø 2,5 - 3,3 - 4,2 - 5
6,8 - 8,5 - 10,2



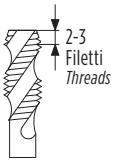
Art. 10240310

14 pcs
DIN 371 B
371/C 35°

10180 HSS-G M

HSS-G AISI M2
HV 750

FORM C 35°







DIN 376/C-35° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**3** x 0,5	5	56	2,2	1	**10180**03X05	consultare listino
	4 x 0,7	7	63	2,8	1	**10180**04X07	*see price list*
	5 x 0,8	8	70	3,5	1	**10180**05X08	
	6 x 1	10	80	4,5	1	**10180**06X1	
	8 x 1,25	13	90	6	1	**10180**08X125	
	10 x 1,5	15	100	7	1	**10180**10X15	
	12 x 1,75	18	110	9	1	**10180**12X175	
	14 x 2	20	110	11	1	**10180**14X2	
	16 x 2	22	110	12	1	**10180**16X2	
	18 x 2,5	25	125	14	1	**10180**18X25	
	20 x 2,5	25	140	16	1	**10180**20X25	
	22 x 2,5	25	140	18	1	**10180**22X25	
	24 x 3	30	160	18	1	**10180**24X3	
	27 x 3	30	160	20	1	**10180**27X3	
	30 x 3,5	35	180	22	1	**10180**30X35	
	33 x 3,5	35	180	25	1	**10180**33X35	
	36 x 4	40	200	28	1	**10180**36X4	
	39 x 4	40	200	32	1	**10180**39X4	
	42 x 4,5	45	200	32	1	**10180**42X45	
	45 x 4,5	45	220	36	1	**10180**45X45	
	48 x 5	50	250	36	1	**10180**48X5	
	52 x 5	50	250	40	1	**10180**52X5	

R ≤ 700 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MACCHINA IN HSS "CORTI" ISO 529

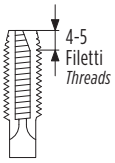
EN *Short machine taps ISO 529*
FR *Tarauds machine courte ISO 529*
ESP *Machos de maquina cortos ISO 529*
PT *Machos curtos para máquinas iso 529*

10172 HSS-G M

SERIE CORTA
Short serie

HSS-G AISI M2
HV 750

FORM B









ISO 529/B 6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**2** x 0,4	8	41	2,5	1	**10172**02X04	consultare listino
	2,5 x 0,45	9,5	44,5	2,8	1	**10172**025X045	*see price list*
	2,6 x 0,45	9,5	44,5	2,9	1	**10172**026X045	
	3 x 0,5	11	48	3,15	1	**10172**03X05	
	3,5 x 0,6	13	50	3,55	1	**10172**035X06	
	4 x 0,7	13	53	4	1	**10172**04X07	
	5 x 0,8	16	58	5	1	**10172**05X08	
	6 x 1	19	66	6,3	1	**10172**06X1	
	8 x 1,25	22	72	8	1	**10172**08X125	
	10 x 1,5	24	80	10	1	**10172**10X15	
	12 x 1,75	29	89	9	1	**10172**12X175	



Art. 10240313

7 pcs
M 3÷12


Acciaio
Steel


Metalli
Metals


Olio
Oil

10173 HSS-G M

SERIE CORTA
Short serie

HSS-G AISI M2
HV 750

FORM C 35°









ISO 529/C 35° 6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**2,5** x 0,45	9,5	44,5	2,8	1	**10173**025X045	consultare listino
	2,6 x 0,45	9,5	44,5	2,9	1	**10173**026X045	*see price list*
	3 x 0,5	11	48	3,15	1	**10173**03X05	
	4 x 0,7	13	53	4	1	**10173**04X07	
	5 x 0,8	16	58	5	1	**10173**05X08	
	6 x 1	19	66	6,3	1	**10173**06X1	
	8 x 1,25	22	72	8	1	**10173**08X125	
	10 x 1,5	24	80	10	1	**10173**10X15	
	12 x 1,75	29	89	9	1	**10173**12X175	



Art. 10240314

7 pcs
M 3÷12


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

UTENSILE COMBINATO IN HSS CON ATTACCO ESAGONALE 1/4" PER AVVITATORI E TRAPANI REVERSIBILI

EN *Combined bits for drilling-threading-deburring in one operation with 1/4" hexagon drive*
FR *Outil combiné pour percage-taraudage-ebavurage en unique operation*
ESP *Utensilio combinado para taladrar - roscar y avellanar en una sola operacion con hexágono de 1/4"*
PT *Brocas combinadas para furar, roscar e rebarbar numa só operação com acionamento hexagonal de 1/4*

10230 HSS-G TiN M

UTENSILI COMBINATI
Combined drill tap

HSS-G AISI M2
HV 750

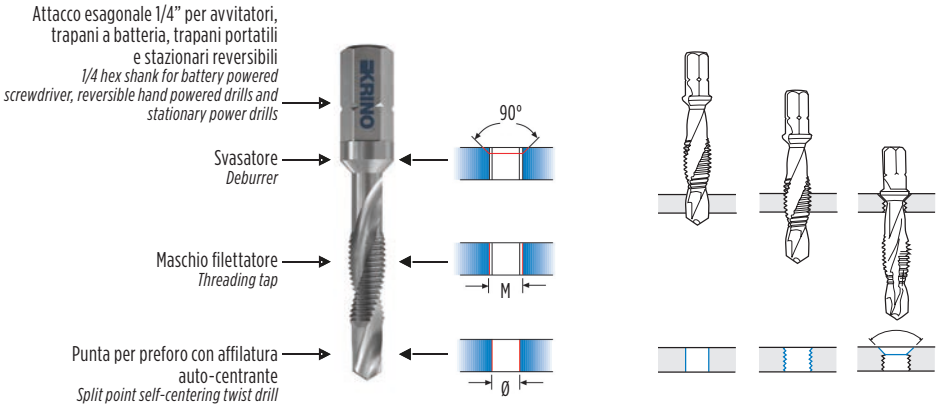
1/4" HEX



	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	2,5	36	1	**10230**03x05	consultare listino
	4 x 0,7	3,3	39	1	**10230**04x07	*see price list*
	5 x 0,8	4,2	41	1	**10230**05x08	
	6 x 1	5	44	1	**10230**06x1	
	8 x 1,25	6,8	50	1	**10230**08x125	
	10 x 1,5	8,5	59	1	**10230**10x15	

R ≤ 1200 N/mm²

Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Plastica *Plastic*



10212 HSS-G M

HSS-G AISI M2
HV 750

1/4" HEX



	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	2,5	36	1	**10212**03x05	consultare listino
	4 x 0,7	3,3	39	1	**10212**04x07	*see price list*
	5 x 0,8	4,2	41	1	**10212**05x08	
	6 x 1	5	44	1	**10212**06x1	
	8 x 1,25	6,8	50	1	**10212**08x125	
	10 x 1,5	8,5	59	1	**10212**10x15	

SELF ART. 10213
Su richiesta / *On demand*

R ≤ 600 N/mm²

Metalli *Metals*
Leghe leggere *Light alloys*
Plastica *Plastic*



Art. 19020213

7 pcs
M 3÷10

MASCHI IN HSS CON ATTACCO ESAGONALE 1/4" PER FILETTARE CON AVVITATORI E TRAPANI REVERSIBILI

EN *Threading bits with 1/4" HEX drive*
FR *Tarauds avec 6 pans de 1/4"*
ESP *Machos a roscar con vastago esagonal 1/4"*
PT *Machos hexagonais de 1/4"*

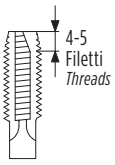
10210 | **HSS-G** | **M**

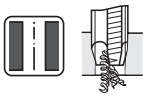
HSS-G AISI M2
HV 750



1/4" HEX

FORM B







	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	33	1	**10210**03x05	consultare listino
	4 x 0,7	12	35	1	**10210**04x07	*see price list*
	5 x 0,8	15	36	1	**10210**05x08	
	6 x 1	18	39	1	**10210**06x1	
	8 x 1,25	19	40	1	**10210**08x125	
	10 x 1,5	21	41	1	**10210**10x15	

R ≤ 700 N/mm²


Acciaio
Steel


Metalli
Metals


Olio
Oil



MASCHI A MACCHINA IN HSS, SCANALATURE DIRITTE, IMBOCCO "C", FIL. METRICA ISO A PASSO FINE

EN *Machine taps, "C" chamfer form, metric fine thread*
FR *Tarauds machine, entrée"C" filetage métrique fin*
ESP *Machos de maquina, entrada "C", rosca metrica fina*
PT *Machos de máquina, forma de chanfro "c", rosca métrica fina*

10198 | **HSS-G** | **MF**



HSS-G AISI M2
HV 750

FORM C 15°









DIN 374/C-15° ISO 2/6H

	Ø mm	l mm	L mm	d mm	pcs.	cod.	cad / each €
M	**4** x 0,5	10	63	2,8	1	**10198**04X05	consultare listino
	5 x 0,5	12	70	3,5	1	**10198**05X05	*see price list*
	6 x 0,75	14	80	4,5	1	**10198**06X075	
	10 x 1	20	90	7	1	**10198**10X1	
	10 x 1,25	24	100	7	1	**10198**10X125	
	12 x 1	22	100	9	1	**10198**12X1	
	12 x 1,25	22	100	9	1	**10198**12X125	
	14 x 1,25	22	100	11	1	**10198**14X125	
	14 x 1,5	22	100	11	1	**10198**14X15	
	24 x 1,5	28	140	18	1	**10198**24X15	
	24 x 2	28	140	18	1	**10198**24X2	

In esaurimento
Running out

R ≤ 700 N/mm²


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA GAS CONICA BSPT

EN *BSPT taped thread taps*
FR *Tarauds filetage gaz conique BSPT*
ESP *Machos de rosca cónica GAS BSPT*
PT *Machos de rosca cónica BSPT*

10139 | **HSS-G** | **BSPT**

CONICO
Taper

HSS-G AISI M2
HV 750

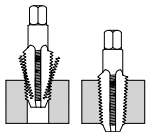
FORM C



CONICITÀ 1:16
Taper 1:16







	Ø	l mm	L mm	pcs.	cod.	cad / each €
Rc	**1/8"** x 28	15	59	1	**10139**1/8	consultare listino
	1/4" x 19	19	67	1	**10139**1/4	*see price list*
	3/8" x 19	21	75	1	**10139**3/8	
	1/2" x 14	26	87	1	**10139**1/2	
	3/4" x 14	28	96	1	**10139**3/4	
	1" x 11	33	109	1	**10139**1	
	1-1/4" x 11	36	119	1	**10139**1.1/4	
	1-1/2" x 11	37	125	1	**10139**1.1/2	
	2" x 11	41	140	1	**10139**2	

R ≤ 700 N/mm²


Acciaio
Steel


Metalli
Metals


Olio
Oil

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA GAS CONICA NPT

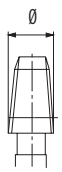
EN *NPT taped thread taps*
FR *Tarauds filetage gaz conique NPT*
ESP *Machos de rosca cónica GAS NPT*
PT *Machos de rosca cónica NPT*

10134 | **HSS-G** | **NPT**

CONICO
Taper

HSS-G AISI M2
HV 750

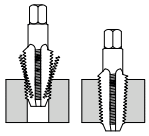
FORM C



CONICITÀ 1:16
Taper 1:16







ANSI B 2.1

	Ø	l mm	L mm	pcs.	cod.	cad / each €
NPT	**1/16"** x 27	19	54	1	**10134**1/16	consultare listino
	1/8" x 27	19	54	1	**10134**1/8	*see price list*
	1/4" x 18	27	62	1	**10134**1/4	
	3/8" x 18	27	65	1	**10134**3/8	
	1/2" x 14	35	79	1	**10134**1/2	
	3/4" x 14	35	83	1	**10134**3/4	
	1" x 11,5	44	95	1	**10134**1	
	1-1/4" x 11,5	44	102	1	**10134**1.1/4	
	1-1/2" x 11,5	44	108	1	**10134**1.1/2	
	2" x 11,5	44	114	1	**10134**2	

R ≤ 700 N/mm²


Acciaio
Steel


Metalli
Metals


Olio
Oil


EKRINO



UTENSILI A FILETTARE: MASCHI A MANO

Threading tools: Hand taps

Outils a fileter: Tarauds à main

Herramientas de roscado: Machos de mano

Ferramentas de roscar: Machos de mão

VISIONE D'INSIEME: MASCHI A MANO

EN *Overview: HAND taps*
FR *Aperçu: Tarauds à main*
ESP *Visión general: Machos de mano*
PT *Visão geral: Machos de mão*

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	N° PEZZI *N. of pieces*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1400 N/mm² *Steel <1400 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium/alloys*	R≤N/mm²	COD.	
HSS CO	-	M	-	3÷30	ISO 529 (DIN 352)	3		✓	✓	✓	✓	✓	✓	1200	10144	296
	-	MF	-	6÷24	2181	2		✓	✓	✓	✓	✓	✓	1200	10146	297
	-	BSPP	-	1/8÷1"	5157	2		✓	✓	✓	✓	✓	✓	1200	10148	297
HSS-G	-	M	-	1÷72	ISO 529 (DIN 352)	3				✓	✓	✓	✓	800	10100	298
	-		FINITORE *Bottoming hand tap*	3÷30	ISO 529 (DIN 352)	1				✓	✓	✓	✓	800	10100	298
	-		SINISTRI *Left hand*	3÷52	ISO 529 (DIN 352)	3				✓	✓	✓	✓	800	10102	299
	-	MF	-	2÷82	2181	2				✓	✓	✓	✓	800	10105	300
	-		PER TUBI CONDUZIONE ELETTRICA *For electrical conduction tubes*	12÷63	2181	2				✓	✓	✓	✓	800	10105	300
	-		SINISTRI *Left hand*	6÷38	2181	2				✓	✓	✓	✓	800	10107	302
	-	BSPP	PER TUBI *Pipes*	1/8÷4"	5157	2				✓	✓	✓	✓	800	10115	303
	-		SINISTRI *Left hand*	1/8÷2"	5157	2				✓	✓	✓	✓	800	10117	303
	-	BSPT	CONICI 1:16 *Taper 1:16*	1/8÷2"	-	1				✓	✓	✓	✓	800	10139	291
	-	BSF	-	3÷16÷1"	2181	2				✓	✓	✓	✓	800	10112	304
	-	BSW	-	1/16÷2"	352	3				✓	✓	✓	✓	800	10110	305
	-		SINISTRI *Left hand*	1/8÷1"	352	3				✓	✓	✓	✓	800	10111	305
	-	NPT	CONICI 1:16 *Taper 1:16*	1/16÷2"	ANSI B2.1	1				✓	✓	✓	✓	800	10134	291
	-	UNC	-	1÷2"	352	3				✓	✓	✓	✓	800	10120	307
	-		SINISTRI *Left hand*	6 ÷ 1"	352	3				✓	✓	✓	✓	800	10122	307
	-	UNF	-	0÷1.1/2	2181	2				✓	✓	✓	✓	800	10125	308
	-		SINISTRI *Left hand*	10÷1"	2181	2				✓	✓	✓	✓	800	10127	308
	-	PG	PER TUBI CONDUZIONE ELETTRICA *For electrical conduction tubes*		40432	2				✓	✓	✓	✓	800	10136	309

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	N° PEZZI *N. of pieces*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1400 N/mm² *Steel <1400 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium/alloys*	R≤N/mm²	COD.	
HSS-G	-	M + MF	STI - PER INSERIMENTO INSERTI FILETTATI *STI - for insertion threaded inserts*	2÷36	ISO 1/4 H	1				●	●	●	●	800	10612	369
	-	BSPP		1/8÷1"		2				●	●	●	●	800	10617	370
	-	BSF		3/16÷1"		1				●	●	●	●	800	10616	370
	-	BSW		1/8÷1"		1				●	●	●	●	800	10615	370
	-	UNC		8÷1"		1				●	●	●	●	800	10613	370
	-	UNF		8÷1"		1				●	●	●	●	800	10614	370
	-	M + MF	COMBI - PER INSERTI FILETTATI - SPECIALE CANDELE *COMBI - for threaded inserts - special spark plugs*	6÷18		1				●	●	●	●	800	10620	369
C.V.	-	M	-	2÷36	4535	3					●	●	●	600	10001	310
	-		PER FORI PASSANTI SPECIALI PER DADI *For through holes specials for nuts*	3÷12	357	1					●	●	●	600	10030	311
	-	M + MF	-	2÷30	4535	2					●	●	●	600	10003	312
	-	BSPP	PER TUBI *Pipes*	1/8÷2"	338	2					●	●	●	600	10015	313
	-	BSPT	CONICI 1:16 *Taper 1:16*	1/8÷2"	6125	1					●	●	●	600	10017	313
	-	BSF	-	3/16÷1"	2709	2					●	●	●	600	10012	313
	-	BSW	-	1/8÷2"	2709	3					●	●	●	600	10010	314
	-	NPT	CONICI 1:16 *Taper 1:16*	1/8÷2"	ANSI B2.1	1					●	●	●	600	10032	314
	-	UNC	-	5÷1.1/2	ANSI B1.1	3					●	●	●	600	10020	315
	-	UNF	-	5÷1.1/2	ANSI B1.1	2					●	●	●	600	10025	315

MASCHI A MANO AL COBALTO SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Hand taps, 3 pcs set, metric coarse ISO thread*
FR *Jeux de 3 tarauds à main, filetage metrique ISO*
ESP *Juegos de machos a mano, rosca metrica ISO*
PT *Jogo de machos manuais, 3 peças, rosca métrica ISO grossa*

10144 | **HSS-CO** | **M**

HRC = 64÷65
HSS-CO AISI M35



ISO 529 (DIN 352) CLASSE 2 6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	40	1	**10144**03X05	consultare listino
	4 x 0,7	13	45	1	**10144**04X07	*see price list*
	5 x 0,8	14	50	1	**10144**05X08	
	6 x 1	16	56	1	**10144**06X1	
	8 x 1,25	18	63	1	**10144**08X125	
	10 x 1,5	24	70	1	**10144**10X15	
	12 x 1,75	29	75	1	**10144**12X175	
	14 x 2	30	80	1	**10144**14X2	
	16 x 2	32	80	1	**10144**16X2	
	18 x 2,5	40	95	1	**10144**18X25	
	20 x 2,5	40	95	1	**10144**20X25	
	22 x 2,5	40	100	1	**10144**22X25	
	24 x 3	50	110	1	**10144**24X3	
	27 x 3	50	110	1	**10144**27X3	
	30 x 3,5	56	125	1	**10144**30X35	

R ≤ 1200 N/mm²

INOX Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alu Alluminio *Aluminum*

Olio *Oil*

MASCHI A MANO AL COBALTO SERIE DI 2 PEZZI, FILETTATURA METRICA ISO A PASSO FINE

EN *Hand taps, 2 pcs set, metric fine ISO thread*
FR *Jeux de 2 tarauds à main, filetage metrique ISO à pas fin*
ESP *Juego de machos a mano, rosca metrica fina ISO*
PT *Jogo de machos manuais, 2 peças, rosca métrica fina ISO*

10146 | **HSS-CO** | **MF**

HRC ≃ 64÷65
HSS-CO AISI M35



R ≤ 1200 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 2181 ISO 2/6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**6** x 0,75	14	50	1	**10146**06x075	consultare listino
	8 x 0,75	19	50	1	**10146**08x075	*see price list*
	8 x 1	22	56	1	**10146**08x1	
	10 x 1	20	63	1	**10146**10x1	
	10 x 1,25	24	70	1	**10146**10x125	
	12 x 1	22	70	1	**10146**12x1	
	12 x 1,25	22	70	1	**10146**12x125	
	12 x 1,5	22	70	1	**10146**12x15	
	14 x 1,25	22	70	1	**10146**14x125	
	14 x 1,5	22	70	1	**10146**14x15	
	16 x 1,5	22	70	1	**10146**16x15	
	18 x 1,5	22	80	1	**10146**18x15	
	18 x 2	22	80	1	**10146**18x2	
	20 x 1,5	22	80	1	**10146**20x15	
	20 x 2	22	80	1	**10146**20x2	
	22 x 1,5	22	80	1	**10146**22x15	
	22 x 2	22	80	1	**10146**22x2	
	24 x 1,5	22	90	1	**10146**24x15	

MASCHI A MANO AL COBALTO SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI

EN *Hand taps, 2 pcs set, Wh pipe thread ISO 228*
FR *Jeux de 2 tarauds à main, filetages gaz de tuyauterie ISO 228*
ESP *Juegos de utensilios a roscar, rosca gas cilindrica ISO 228*
PT *Machos manuais, conjunto de 2 peças, rosca para tubo wh ISO 228*

10148 | **HSS-CO** | **BSPP**

HRC ≃ 64÷65
HSS-CO AISI M35



DIN 5157

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
G	**1/8"** x 28	20	63	1	**10148**1/8	consultare listino
	1/4" x 19	22	70	1	**10148**1/4	*see price list*
	3/8" x 19	22	70	1	**10148**3/8	
	1/2" x 14	22	80	1	**10148**1/2	
	3/4" x 14	22	90	1	**10148**3/4	
	1" x 11	25	100	1	**10148**1	

R ≤ 1200 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

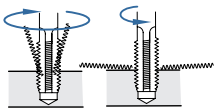
EN *Hand taps, 3 pcs set, metric coarse ISO thread*
FR *Jeux de 3 tarauds à main, filetage metrique ISO*
ESP *Juegos de machos a mano, rosca metrica ISO*
PT *Jogo de machos manuais, 3 peças, rosca métrica ISO grossa*

10100 | **HSS-G** | **M**

HRC = 63÷63,5
HSS-G AISI M2



SELF ART. 10101
Su richiesta / *On demand*



É buona norma, ad ogni rotazione del maschio (1), effettuare mezzo giro indietro (2) per rompere il truciolo
Please rotate clockwise the tap (1) then rotate anticlockwise (2) to break the chip.

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

ISO 529 (DIN 352) CLASSE 2 6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**1** x 0,25	8	32	1	**10100**01X025	consultare listino
	1,1 x 0,25	8	32	1	**10100**011X025	*see price list*
	1,2 x 0,25	8	32	1	**10100**012X025	
	1,4 x 0,3	10	32	1	**10100**014X03	
	1,6 x 0,35	10	32	1	**10100**016X035	
	1,7 x 0,35	10	32	1	**10100**017X035	
	1,8 x 0,35	10	32	1	**10100**018X035	
	2 x 0,4	10	36	1	**10100**02X04	
	2,2 x 0,45	11	36	1	**10100**022X045	
	2,3 x 0,4	11	36	1	**10100**023X04	
	2,5 x 0,45	12	40	1	**10100**025X045	
	2,6 x 0,45	12	40	1	**10100**026X045	
	3 x 0,5	11	40	1	**10100**03X05	
	3,5 x 0,6	14	45	1	**10100**035X06	
	4 x 0,7	13	45	1	**10100**04X07	
	4,5 x 0,75	16	50	1	**10100**045X075	
	5 x 0,8	16	50	1	**10100**05X08	
	5 x 1	16	56	1	**10100**05X1	
	5,5 x 0,9	18	50	1	**10100**055x09	
	6 x 1	19	56	1	**10100**06X1	
	7 x 1	19	56	1	**10100**07X1	
	8 x 1,25	22	63	1	**10100**08X125	
	9 x 1,25	22	63	1	**10100**09X125	
	10 x 1,5	24	70	1	**10100**10X15	
	11 x 1,5	24	70	1	**10100**11X15	
	12 x 1,75	28	75	1	**10100**12X175	
	13 x 1,75	28	75	1	**10100**13X175	
	14 x 2	30	80	1	**10100**14X2	
	15 x 2	32	80	1	**10100**15x2	
	16 x 2	32	80	1	**10100**16X2	
	18 x 2,5	34	95	1	**10100**18X25	
	20 x 2,5	34	95	1	**10100**20X25	
	22 x 2,5	34	100	1	**10100**22X25	
	24 x 3	38	110	1	**10100**24X3	
	27 x 3	38	110	1	**10100**27X3	
	28 x 3	38	110	1	**10100**28X3	
	30 x 3,5	45	125	1	**10100**30X35	
	33 x 3,5	50	132	1	**10100**33X35	
	36 x 4	56	150	1	**10100**36X4	
	39 x 4	56	150	1	**10100**39X4	
	42 x 4,5	63	160	1	**10100**42X45	
	45 x 4,5	63	160	1	**10100**45X45	
	48 x 5	68	180	1	**10100**48X5	
	52 x 5	68	180	1	**10100**52X5	
	56 x 5,5	85	200	1	**10100**56X55	
	60 x 5,5	85	200	1	**10100**60X55	
	64 x 6	90	220	1	**10100**64X6	
	68 x 6	90	220	1	**10100**68X6	
	72 x 6	90	240	1	**10100**72X6	

MASCHIO A MANO FINITORE
Bottoming hand tap

HSS-G
DIN 352 III



ISO 529 CLASSE 2 6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	12	40	1	**10100**03X053	consultare listino
	4 x 0,7	14	45	1	**10100**04X073	*see price list*
	5 x 0,8	14	50	1	**10100**05X083	
	6 x 1	16	56	1	**10100**06X13	
	8 x 1,25	18	63	1	**10100**08X1253	
	10 x 1,5	25	70	1	**10100**10X153	
	12 x 1,75	30	75	1	**10100**12X1753	
	14 x 2	32	80	1	**10100**14X23	
	16 x 2	32	80	1	**10100**16X23	
	18 x 2,5	40	95	1	**10100**18X253	
	20 x 2,5	40	95	1	**10100**20X253	

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA METRICA ISO SINISTRA A PASSO GROSSO

EN *Hand taps, 3 pcs set, metric coarse ISO thread*
FR *Jeux de 2 tarauds à main gauche*
ESP *Juegos de machos a mano izquierda*
PT *Jogo de machos manuais, 3 peças,rosca métrica ISO grossa*

10102 | **HSS-G** | **M**

SINISTRI
Left hand

HRC = 63÷63,5
HSS-G AISI M2



ISO 529 (DIN 352) CLASSE 2 6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	11	40	1	**10102**03X05	consultare listino
	4 x 0,7	13	45	1	**10102**04X07	*see price list*
	5 x 0,8	14	50	1	**10102**05X08	
	6 x 1	19	56	1	**10102**06X1	
	7 x 1	19	56	1	**10102**07X1	
	8 x 1,25	22	63	1	**10102**08X125	
	10 x 1,5	24	70	1	**10102**10X15	
	12 x 1,75	28	75	1	**10102**12X175	
	14 x 2	30	80	1	**10102**14X2	
	16 x 2	32	80	1	**10102**16X2	
	18 x 2,5	34	95	1	**10102**18X25	
	20 x 2,5	34	95	1	**10102**20X25	
	22 x 2,5	34	100	1	**10102**22X25	
	24 x 3	38	110	1	**10102**24X3	
	27 x 3	38	110	1	**10102**27X3	
	30 x 3,5	45	125	1	**10102**30X35	
	***33** x 3,5	56	125	1	**10102**33X35	
	***39** x 4	63	150	1	**10102**39X4	
	***42** x 4,5	63	150	1	**10102**42X45	
	***45** x 4,5	70	160	1	**10102**45X45	
	***48** x 5	75	180	1	**10102**48X5	
	***52** x 5	75	180	1	**10102**52X5	

*In esaurimento
**Running out*

R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA METRICA ISO A PASSO FINE

EN *Hand taps, 2 pcs set, metric fine ISO thread*
FR *Jeux de 2 tarauds à main, filetage metrique ISO à pas fin*
ESP *Juego de machos a mano, rosca metrica fina ISO*
PT *Jogo de machos manuais, 2 peças, rosca métrica fina ISO*

10105 | **HSS-G** | **MF**

HRC = 63÷63,5
HSS-G AISI M2



DIN 2181 ISO 2/6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**2** x 0,25	8	36	1	**10105**02x025	consultare listino
	2,2 x 0,25	9	36	1	**10105**022x025	*see price list*
	2,5 x 0,35	9	40	1	**10105**025X035	
	2,6 x 0,35	9	40	1	**10105**026X035	
	3 x 0,35	9	40	1	**10105**03X035	
	3,5 x 0,35	10	45	1	**10105**035X035	
	4 x 0,35	10	45	1	**10105**04X035	
	4 x 0,5	10	45	1	**10105**04X05	
	4,5 x 0,5	12	50	1	**10105**045x05	
	5 x 0,5	12	50	1	**10105**05X05	
	5 x 0,75	12	50	1	**10105**05X075	
	5,5 x 0,5	12	50	1	**10105**055x05	
	6 x 0,5	14	50	1	**10105**06X05	
	6 x 0,75	14	50	1	**10105**06X075	
	7 x 0,5	14	50	1	**10105**07x05	
	7 x 0,75	14	50	1	**10105**07X075	
	8 x 0,5	19	50	1	**10105**08X05	
	8 x 0,75	19	50	1	**10105**08X075	
	8 x 1	22	56	1	**10105**08X1	
	9 x 0,5	19	56	1	**10105**09x05	
	9 x 0,75	19	56	1	**10105**09X075	
	9 x 1	20	63	1	**10105**09X1	
	10 x 0,5	20	63	1	**10105**10x05	
	10 x 0,75	20	63	1	**10105**10X075	
	10 x 1	20	63	1	**10105**10X1	
	10 x 1,25	24	70	1	**10105**10X125	
	11 x 0,75	20	63	1	**10105**11x075	
	11 x 1	20	63	1	**10105**11X1	
	11 x 1,25	22	63	1	**10105**11X125	
	12 x 0,5	22	70	1	**10105**12x05	
	12 x 0,75	22	70	1	**10105**12X075	
	12 x 1	22	70	1	**10105**12X1	
	12 x 1,25	22	70	1	**10105**12X125	
	12 x 1,5	22	70	1	**10105**12X15	
	13 x 0,5	22	70	1	**10105**13x05	
	13 x 0,75	22	70	1	**10105**13x075	
	13 x 1	22	70	1	**10105**13X1	
	13 x 1,5	22	70	1	**10105**13X15	
	14 x 0,5	22	70	1	**10105**14x05	
	14 x 0,75	22	70	1	**10105**14X075	
	14 x 1	22	70	1	**10105**14X1	
	14 x 1,25	22	70	1	**10105**14X125	
	14 x 1,5	22	70	1	**10105**14X15	
	15 x 0,75	22	70	1	**10105**15x075	
	15 x 1	22	70	1	**10105**15X1	
	15 x 1,5	22	70	1	**10105**15X15	
	16 x 0,5	22	70	1	**10105**16X05	
	16 x 0,75	22	70	1	**10105**16X075	
	16 x 1	22	70	1	**10105**16X1	
	16 x 1,25	22	70	1	**10105**16X125	
	16 x 1,5	22	70	1	**10105**16X15	
	17 x 1	22	70	1	**10105**17x1	
	17 x 1,5	22	70	1	**10105**17x15	
	18 x 0,5	22	80	1	**10105**18x05	
	18 x 0,75	22	80	1	**10105**18x075	
	18 x 1	22	80	1	**10105**18X1	
	18 x 1,25	22	80	1	**10105**18X125	
	18 x 1,5	22	80	1	**10105**18X15	
	18 x 2	22	80	1	**10105**18X2	
	19 x 1	22	80	1	**10105**19x1	
	19 x 1,5	22	80	1	**10105**19x15	
	20 x 0,5	22	80	1	**10105**20x05	
	20 x 0,75	22	80	1	**10105**20x075	
	20 x 1	22	80	1	**10105**20X1	
	20 x 1,25	22	80	1	**10105**20X125	
	20 x 1,5	22	80	1	**10105**20X15	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

Ø mm	/ mm	L mm	pcs.	cod.	cad / each €
20 x 2	22	80	1	**10105**20X2	
21 x 1	22	80	1	**10105**21X1	
21 x 1,5	22	80	1	**10105**21X15	
22 x 0,5	22	80	1	**10105**22x05	
22 x 0,75	22	80	1	**10105**22x075	
22 x 1	22	80	1	**10105**22x1	
22 x 1,25	22	80	1	**10105**22x125	
22 x 1,5	22	80	1	**10105**22X15	
22 x 2	22	80	1	**10105**22X2	
23 x 1	22	80	1	**10105**23x1	
23 x 1,5	22	80	1	**10105**23X15	
24 x 0,5	22	90	1	**10105**24x05	
24 x 0,75	22	90	1	**10105**24x075	
24 x 1	22	90	1	**10105**24X1	
24 x 1,25	22	90	1	**10105**24X125	
24 x 1,5	22	90	1	**10105**24X15	
24 x 2	22	90	1	**10105**24X2	
25 x 1	22	90	1	**10105**25X1	
25 x 1,5	22	90	1	**10105**25X15	
26 x 1	22	90	1	**10105**26X1	
26 x 1,5	22	90	1	**10105**26X15	
26 x 2	22	90	1	**10105**26X2	
27 x 1	22	90	1	**10105**27X1	
27 x 1,5	22	90	1	**10105**27X15	
27 x 2	22	90	1	**10105**27X2	
28 x 1	22	90	1	**10105**28X1	
28 x 1,5	22	90	1	**10105**28X15	
28 x 2	22	90	1	**10105**28X2	
29 x 1,5	22	90	1	**10105**29X15	
30 x 1	22	90	1	**10105**30X1	
30 x 1,5	22	90	1	**10105**30X15	
30 x 2	22	90	1	**10105**30X2	
30 x 2,5	56	125	1	**10105**30X25	
30 x 3	56	125	1	**10105**30X3	
32 x 1	22	90	1	**10105**32x1	
32 x 1,5	22	90	1	**10105**32X15	
32 x 2	22	90	1	**10105**32x2	
32 x 3	56	125	1	**10105**32X3	
33 x 1,5	25	100	1	**10105**33X15	
33 x 2	25	100	1	**10105**33X2	
33 x 3	56	125	1	**10105**33X3	
34 x 1	25	100	1	**10105**34x1	
34 x 1,5	25	100	1	**10105**34X15	
34 x 2	40	125	1	**10105**34X2	
35 x 1	25	100	1	**10105**35x1	
35 x 1,5	25	100	1	**10105**35X15	
35 x 2	40	125	1	**10105**35x2	
36 x 1	25	100	1	**10105**36x1	
36 x 1,5	25	100	1	**10105**36X15	
36 x 2	40	125	1	**10105**36X2	
36 x 3	40	125	1	**10105**36X3	
37 x 1,5	25	100	1	**10105**37x15	
38 x 1	25	100	1	**10105**38x1	
38 x 1,5	25	100	1	**10105**38X15	
38 x 2	40	125	1	**10105**38X2	
38 x 3	40	125	1	**10105**38x3	
39 x 1,5	25	110	1	**10105**39X15	
39 x 2	40	125	1	**10105**39X2	
39 x 3	40	125	1	**10105**39X3	
40 x 1	25	110	1	**10105**40x1	
40 x 1,5	25	110	1	**10105**40X15	
40 x 2	40	125	1	**10105**40X2	
40 x 3	40	125	1	**10105**40X3	
42 x 1	25	110	1	**10105**42x1	
42 x 1,5	25	110	1	**10105**42X15	
42 x 2	40	125	1	**10105**42X2	
42 x 3	40	125	1	**10105**42X3	
44 x 1,5	25	110	1	**10105**44x15	
44 x 2	40	125	1	**10105**44x2	
45 x 1	25	110	1	**10105**45x1	
45 x 1,5	25	110	1	**10105**45X15	
45 x 2	40	125	1	**10105**45X2	
45 x 3	40	125	1	**10105**45X3	
46 x 1,5	40	140	1	**10105**46x15	
48 x 1	40	140	1	**10105**48x1	
48 x 1,5	25	140	1	**10105**48X15	
48 x 2	40	140	1	**10105**48X2	
48 x 3	40	140	1	**10105**48X3	
50 x 1,5	40	140	1	**10105**50X15	
50 x 2	40	140	1	**10105**50X2	
50 x 3	40	140	1	**10105**50X3	
52 x 1,5	40	140	1	**10105**52X15	
52 x 2	40	140	1	**10105**52X2	
52 x 3	40	140	1	**10105**52X3	
54 x 1,5	32	140	1	**10105**54X15	
54 x 2	36	140	1	**10105**54X2	
54 x 3	40	140	1	**10105**54X3	
54 x 4	50	180	1	**10105**54X4	
55 x 1,5	32	140	1	**10105**55X15	
55 x 2	36	140	1	**10105**55X2	
55 x 3	40	140	1	**10105**55X3	
55 x 4	50	180	1	**10105**55X4	
56 x 1,5	32	140	1	**10105**56X15	
56 x 2	36	140	1	**10105**56X2	
56 x 3	40	140	1	**10105**56X3	
56 x 4	50	180	1	**10105**56X4	
58 x 1,5	32	160	1	**10105**58X15	
58 x 2	36	160	1	**10105**58X2	
58 x 3	40	160	1	**10105**58X3	
58 x 4	55	200	1	**10105**58X4	
60 x 1,5	34	160	1	**10105**60X15	
60 x 2	36	160	1	**10105**60X2	
60 x 3	40	160	1	**10105**60X3	
60 x 4	55	200	1	**10105**60X4	
62 x 1,5	34	160	1	**10105**62X15	
62 x 2	36	160	1	**10105**62X2	
62 x 3	45	180	1	**10105**62X3	
62 x 4	55	220	1	**10105**62X4	
63 x 1,5	32	160	1	**10105**63X15	
64 x 1,5	34	160	1	**10105**64X15	
64 x 2	36	160	1	**10105**64X2	
64 x 3	45	180	1	**10105**64X3	
64 x 4	60	220	1	**10105**64X4	
65 x 1,5	34	160	1	**10105**65X15	
65 x 2	36	160	1	**10105**65X2	
65 x 3	45	180	1	**10105**65X3	
65 x 4	60	220	1	**10105**65X4	
68 x 1,5	36	160	1	**10105**68X15	
68 x 2	40	160	1	**10105**68X2	
68 x 3	50	180	1	**10105**68X3	
68 x 4	60	220	1	**10105**68X4	
70 x 1,5	36	160	1	**10105**70X15	
70 x 2	40	160	1	**10105**70X2	
70 x 3	50	200	1	**10105**70X3	
70 x 4	60	240	1	**10105**70X4	
72 x 1,5	36	160	1	**10105**72X15	
72 x 2	40	160	1	**10105**72X2	
72 x 3	50	200	1	**10105**72X3	
72 x 4	60	240	1	**10105**72X4	
74 x 1,5	36	160	1	**10105**74X15	
74 x 2	40	160	1	**10105**74X2	
74 x 3	50	200	1	**10105**74X3	
74 x 4	60	240	1	**10105**74X4	
75 x 1,5	36	160	1	**10105**75X15	
75 x 2	40	160	1	**10105**75X2	
75 x 3	50	200	1	**10105**75X3	
75 x 4	60	240	1	**10105**75X4	
76 x 1,5	36	160	1	**10105**76X15	
76 x 2	40	160	1	**10105**76X2	
76 x 3	50	220	1	**10105**76X3	
76 x 4	60	260	1	**10105**76X4	
78 x 1,5	36	160	1	**10105**78X15	
78 x 2	40	160	1	**10105**78X2	
78 x 3	55	220	1	**10105**78X3	
78 x 4	65	260	1	**10105**78X4	
80 x 1,5	36	160	1	**10105**80X15	
80 x 2	40	160	1	**10105**80X2	
80 x 3	55	220	1	**10105**80X3	
80 x 4	65	260	1	**10105**80X4	
82 x 1,5	36	160	1	**10105**82X15	
82 x 2	40	160	1	**10105**82X2	
82 x 3	55	220	1	**10105**82X3	
82 x 4	65	260	1	**10105**82X4	

MASCHI A MANO IN HSS SERIE DI 2 PEZZI PER TUBI DI CONDUZIONE ELETTRICA,FILETTATURA METRICA ISO A PASSO FINE

EN *Hand taps, 2 pcs set, for cable connection*
FR *Tarauds à main pour tubes avec armature en acier*
ESP *Juegos de machos a mano para tubos de conducción eléctrica*
PT *2 peças de machos manuais para ligação dos cabos*

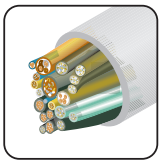
10105 **HSS-G** **MF**

HRC ≃ 63÷63,5
HSS-G AISI M2



DIN 2181 ISO 2/6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**12** x 1,5	22	70	1	**10105**12x15	consultare listino
	16 x 1,5	22	70	1	**10105**16x15	*see price list*
	20 x 1,5	22	80	1	**10105**20x15	
	25 x 1,5	22	90	1	**10105**25x15	
	32 x 1,5	32	90	1	**10105**32x15	
	40 x 1,5	25	110	1	**10105**40x15	
	50 x 1,5	40	140	1	**10105**50x15	
	63 x 1,5	32	160	1	**10105**63x15	



Per tubi di conduzione elettrica
For electrical conduction tubes

Acciaio *Steel*
Metalli *Metals*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA METRICA ISO SINISTRA A PASSO FINE

EN *Hand taps, 2 pcs set, metric fine ISO thread, left hand*
FR *Tarauds à main, filetage metrique ISO, gauche*
ESP *Juego de machos a mano, rosca fina izquierda*
PT *Machos manuais, rosca métrica fina iso, mão esquerda*

10107 **HSS-G** **MF**

SINISTRI
Left hand

HRC ≃ 63÷63,5
HSS-G AISI M2



DIN 2181 ISO 2/6H

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**6** x 0,75	14	50	1	**10107**06X075	consultare listino
	8 x 0,75	19	50	1	**10107**08X075	*see price list*
	8 x 1	22	56	1	**10107**08X1	
	10 x 1	20	63	1	**10107**10X1	
	10 x 1,25	24	70	1	**10107**10X125	
	12 x 1	22	70	1	**10107**12X1	
	12 x 1,25	22	70	1	**10107**12X125	
	12 x 1,5	22	70	1	**10107**12X15	
	14 x 1,25	22	70	1	**10107**14X125	
	14 x 1,5	22	70	1	**10107**14X15	
	16 x 1	22	70	1	**10107**16X1	
	16 x 1,5	22	70	1	**10107**16X15	
	18 x 1,5	22	80	1	**10107**18X15	
	20 x 1,5	22	80	1	**10107**20X15	
	22 x 1,5	22	80	1	**10107**22X15	
	24 x 1,5	22	90	1	**10107**24X15	
	24 x 2	22	90	1	**10107**24X2	
	30 x 1,5	22	90	1	**10107**30X15	
	30 x 2	22	90	1	**10107**30X2	
	38 x 1,5	25	100	1	**10107**38X15	

R ≤ 900 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI

EN *Hand taps, 2 pcs set, Wh pipe thread ISO 228*
FR *Jeux de 2 tarauds à main, filetages gaz de tuyauterie ISO 228*
ESP *Juegos de utensilios a roscar, rosca gas cilindrica ISO 228*
PT *Machos manuais, conjunto de 2 peças, rosca para tubo wh ISO 228*

10115 | **HSS-G** | **BSPP (GAS)**

HRC ≃ 63÷63,5
HSS-G AISI M2



DIN 5157

	Ø	l mm	L mm	pcs.	cod.	cad / each €
G	1/8" x 28	20	63	1	**10115**1/8	consultare listino
	1/4" x 19	22	70	1	**10115**1/4	*see price list*
	3/8" x 19	22	70	1	**10115**3/8	
	1/2" x 14	22	80	1	**10115**1/2	
	5/8" x 14	22	80	1	**10115**5/8	
	3/4" x 14	22	90	1	**10115**3/4	
	7/8" x 14	22	90	1	**10115**7/8	
	1" x 11	25	100	1	**10115**1	
	1-1/8" x 11	40	125	1	**10115**1.1/8	
	1-1/4" x 11	40	125	1	**10115**1.1/4	
	1-3/8" x 11	40	140	1	**10115**1.3/8	
	1-1/2" x 11	40	140	1	**10115**1.1/2	
	1-5/8" x 11	40	140	1	**10115**1.5/8	
	1-3/4" x 11	40	140	1	**10115**1.3/4	
	2" x 11	40	160	1	**10115**2	
	2-1/4" x 11	40	160	1	**10115**2.1/4	
	2-3/4" x 11	40	160	1	**10115**2.3/4	
	3" x 11	40	160	1	**10115**3	
	3-1/2" x 11	45	180	1	**10115**3.1/2	
	4" x 11	45	180	1	**10115**4	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA GAS SINISTRA CILINDRICA ISO 228 PER TUBI

EN *Hand taps, 2 pcs set, Wh pipe thread ISO 228, left hand*
FR *Jeux de 2 tarauds à main, filetages gaz de tuyauterie ISO 228, gauche*
ESP *Juegos de utensilios a roscar, rosca gas izquierda cilindrica ISO 228*
PT *Machos manuais, conjunto de 2 peças, rosca mão esquerda para tubo wh ISO 228*

SINISTRI
Left hand

10117 | **HSS-G** | **BSPP (GAS)**

HRC ≃ 63÷63,5
HSS-G AISI M2



DIN 5157

	Ø	l mm	L mm	pcs.	cod.	cad / each €
G	1/8" x 28	20	63	1	**10117**1/8	consultare listino
	1/4" x 19	22	70	1	**10117**1/4	*see price list*
	3/8" x 19	22	70	1	**10117**3/8	
	1/2" x 14	22	80	1	**10117**1/2	
	5/8" x 14	22	80	1	**10117**5/8	
	3/4" x 14	22	90	1	**10117**3/4	
	1" x 11	25	100	1	**10117**1	
	1-1/8" x 11	40	125	1	**10117**1.1/8	
	1-1/4" x 11	40	125	1	**10117**1.1/4	
	1-3/8" x 11	40	140	1	**10117**1.3/8	
	1-1/2" x 11	40	140	1	**10117**1.1/2	
	1-3/4" x 11	40	140	1	**10117**1.3/4	
	2" x 11	40	160	1	**10117**2	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA GAS CONICA BSPT

EN *BSPT taped thread taps*
FR *Tarauds à main pour tubes avec armature en acier*
ESP *Juegos de machos a mano para tubos de conducción eléctrica*
PT *2 peças de machos manuais para ligação dos cabos*

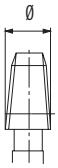
10139 | **HSS-G** | **BSPT**

CONICO
Taper

HRC ≃ 63÷63,5
HSS-G AISI M2



FORM C



CONICITÀ 1:16
TAPER 1:16

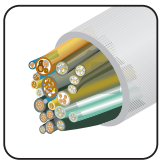
DIN 2181 ISO 2/6H

Ø	l mm	L mm	pcs.	cod.	cad / each €
Rc **1/8"** x 28	15	59	1	**10139**1/8	consultare listino
1/4" x 19	19	67	1	**10139**1/4	*see price list*
3/8" x 19	21	75	1	**10139**3/8	
1/2" x 14	26	87	1	**10139**1/2	
3/4" x 14	28	96	1	**10139**3/4	
1" x 11	33	109	1	**10139**1	
1-1/4" x 11	36	119	1	**10139**1.1/4	
1-1/2" x 11	37	125	1	**10139**1.1/2	
2" x 11	41	140	1	**10139**2	

R ≤ 900 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

Per tubi di conduzione elettrica
For electrical conduction tubes



MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA WHITWORTH A PASSO FINE BS 84

EN *Hand taps, 2 pcs set, british standard fine thread*
FR *Jeux de 2 tarauds à main, filetage Whitworth pas fin*
ESP *Juego de machos a mano, rosca fina Whitworth*
PT *Machos manuais, conjunto de 2 peças, rosca fina padrão britânico*

10112 | **HSS-G** | **BSF**

HRC ≃ 63÷63,5
HSS-G AISI M2



≃ DIN 2181

Ø	l mm	L mm	pcs.	cod.	cad / each €
BSF **3/16"** x 32	14	50	1	**10112**3/16	consultare listino
1/4" x 26	18	50	1	**10112**1/4	*see price list*
5/16" x 22	22	56	1	**10112**5/16	
3/8" x 20	22	63	1	**10112**3/8	
7/16" x 18	22	63	1	**10112**7/16	
1/2" x 16	24	75	1	**10112**1/2	
9/16" x 16	28	80	1	**10112**9/16	
5/8" x 14	28	80	1	**10112**5/8	
3/4" x 12	32	95	1	**10112**3/4	
7/8" x 11	36	100	1	**10112**7/8	
1" x 10	40	110	1	**10112**1	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA WHITWORTH A PASSO GROSSO BS 84

EN *Hand taps, 3 pcs set, british standard thread*
FR *Jeux de tarauds à main, filetage Whitworth*
ESP *Juegos de machos a mano, rosca Whitworth*
PT *Machos manuais, conjuntos de 3 peças, rosca Whitworth BSW*

10110 | **HSS-G** | **BSW**

HRC ≃ 63÷63,5
HSS-G AISI M2



≃ DIN 352

Ø	l mm	L mm	pcs.	cod.	cad / each €
BSW **1/16"** x 60	10	36	1	**10110**1/16	consultare listino
3/32" x 48	10	36	1	**10110**3/32	*see price list*
1/8" x 40	12	40	1	**10110**1/8	
5/32" x 32	14	45	1	**10110**5/32	
3/16" x 24	18	50	1	**10110**3/16	
7/32" x 24	18	50	1	**10110**7/32	
1/4" x 20	19	50	1	**10110**1/4	
5/16" x 18	22	63	1	**10110**5/16	
3/8" x 16	24	70	1	**10110**3/8	
7/16" x 14	24	70	1	**10110**7/16	
1/2" x 12	29	75	1	**10110**1/2	
9/16" x 12	30	80	1	**10110**9/16	
5/8" x 11	32	80	1	**10110**5/8	
11/16" x 11	32	80	1	**10110**11/16	
3/4" x 10	40	95	1	**10110**3/4	
7/8" x 9	40	100	1	**10110**7/8	
1" x 8	50	110	1	**10110**1	
1-1/8" x 7	56	132	1	**10110**1.1/8	
1-1/4" x 7	56	132	1	**10110**1.1/4	
1-3/8" x 6	63	150	1	**10110**1.3/8	
1-1/2" x 6	63	150	1	**10110**1.1/2	
1-5/8" x 5	70	160	1	**10110**1.5/8	
1-3/4" x 5	70	160	1	**10110**1.3/4	
1-7/8" x 4-1/2	80	190	1	**10110**1.7/8	
2" x 4-1/2	80	190	1	**10110**2	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA SINISTRA WHITWORTH A PASSO GROSSO BS 84

EN *Hand taps, 3 pcs set, british standard thread, left hand*
FR *Jeux de tarauds à main, filetage Whitworth, gauche*
ESP *Juegos de machos a mano, rosca izquierda Whitworth*
PT *Machos manuais, conjuntos de 3 peças, rosca mão esquerda Whitworth BSW*

SINISTRI
Left hand

10111 | **HSS-G** | **BSW**

HRC ≃ 63÷63,5
HSS-G AISI M2



≃ DIN 352

Ø	l mm	L mm	pcs.	cod.	cad / each €
BSW **1/8"** x 40	12	40	1	**10111**1/8	consultare listino
5/32" x 32	14	45	1	**10111**5/32	*see price list*
3/16" x 24	18	50	1	**10111**3/16	
1/4" x 20	22	56	1	**10111**1/4	
5/16" x 18	25	63	1	**10111**5/16	
3/8" x 16	28	70	1	**10111**3/8	
7/16" x 14	30	75	1	**10111**7/16	
1/2" x 12	32	80	1	**10111**1/2	
9/16" x 12	32	80	1	**10111**9/16	
5/8" x 11	36	90	1	**10111**5/8	
3/4" x 10	40	105	1	**10111**3/4	
7/8" x 9	45	110	1	**10111**7/8	
1" x 8	50	110	1	**10111**1	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO / MACCHINA IN HSS CONICI PER TUBI, FILETTATURA AMERICANA NPT

EN *NPT taped thread taps*
FR *Tarauds conique NPT*
ESP *Machos rosca conica americana NPT*
PT *Machos de rosca cónica NPT*

10134 | **HSS-G** | **NPT**

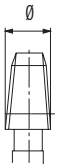
CONICO
Taper



HRC = 63÷63,5
HSS-G AISI M2



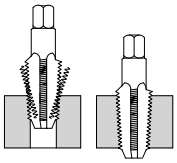
FORM C



CONICITÀ 1:16
TAPER 1:16

ANSI B 2.1

Ø		l mm	L mm	pcs.	cod.	cad / each €
NPT	**1/16"** x 27	19	54	1	**10134**1/16	consultare listino
	1/8" x 27	19	54	1	**10134**1/8	*see price list*
	1/4" x 18	27	62	1	**10134**1/4	
	3/8" x 18	27	65	1	**10134**3/8	
	1/2" x 14	35	79	1	**10134**1/2	
	3/4" x 14	35	83	1	**10134**3/4	
	1" x 11,5	44	95	1	**10134**1	
	1-1/4" x 11,5	44	102	1	**10134**1.1/4	
	1-1/2" x 11,5	44	108	1	**10134**1.1/2	
	2" x 11,5	44	114	1	**10134**2	



R ≤ 900 N/mm²


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum


Olio
Oil

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA AMERICANA UNC A PASSO GROSSO

EN *Hand taps, 3 pcs set, Unified Coarse Thread UNC*
FR *Jeux de 3 tarauds à main, filetage americain à pas gros UNC*
ESP *Juegos de machos a mano, rosca unificada vasta UNC*
PT *Machos manuais, conjunto de 3 peças, rosca grossa unificada UNC*

10120 | **HSS-G** | **UNC**

HRC ≃ 63÷63,5
HSS-G AISI M2



DIN 352

	Ø	l mm	L mm	pcs.	cod.	cad / each €
N°	**1** x 64 (-5/64)	10	32	1	**10120**N01	consultare listino
	2 x 56 (-3/32)	11	36	1	**10120**N02	*see price list*
	3 x 48 (-7/64)	11	36	1	**10120**N03	
	4 x 40 (-1/8)	12	40	1	**10120**N04	
	5 x 40 (-1/8)	12	40	1	**10120**N05	
	6 x 32 (-9/64)	14	45	1	**10120**N06	
	8 x 32 (-5/32)	14	45	1	**10120**N08	
	10 x 24 (-3/16)	16	50	1	**10120**N10	
	12 x 24 (-7/32)	18	50	1	**10120**N12	
UNC	**1/4"** x 20	19	50	1	**10120**1/4	
	5/16" x 18	22	63	1	**10120**5/16	
	3/8" x 16	24	70	1	**10120**3/8	
	7/16" x 14	24	70	1	**10120**7/16	
	1/2" x 13	29	75	1	**10120**1/2	
	9/16" x 12	30	80	1	**10120**9/16	
	5/8" x 11	32	80	1	**10120**5/8	
	3/4" x 10	40	95	1	**10120**3/4	
	7/8" x 12	40	100	1	**10120**7/8	
	1" x 8	50	110	1	**10120**1	
	1-1/8" x 7	56	132	1	**10120**1.1/8	
	1-1/4" x 7	56	132	1	**10120**1.1/4	
	1-3/8" x 6	63	150	1	**10120**1.3/8	
	1-1/2" x 6	63	150	1	**10120**1.1/2	
	1-5/8" x 5	70	160	1	**10120**1.5/8	
	1-3/4" x 5	70	160	1	**10120**1.3/4	
	1-7/8" x 4,5	80	190	1	**10120**1.7/8	
	2" x 4,5	80	190	1	**10120**2	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA SINISTRA AMERICANA UNC

EN *Hand taps, 3 pcs set, Unified Coarse Thread UNC, left hand*
ESP *Juegos de machos a mano, rosca izquierda unificada vasta UNC*
FR *Jeux de 3 tarauds à main, filetage americain à pas gros UNC, gauche*
PT *Machos manuais, conjunto de 3 peças, rosca mão esquerda unificada UNC*

SINISTRI
Left hand

10122 | **HSS-G** | **UNC**

HRC ≃ 63÷63,5
HSS-G AISI M2



DIN 352

	Ø	l mm	L mm	pcs.	cod.	cad / each €
N°	**6** x 32 (-9/64)	14	45	1	**10122**NR06	consultare listino
	8 x 32 (-5/32)	14	45	1	**10122**NR08	*see price list*
	10 x 24 (-3/16)	16	50	1	**10122**NR10	
	12 x 24 (-7/32)	18	50	1	**10122**NR12	
UNC	**1/4"** x 20	19	50	1	**10122**1/4	
	5/16" x 18	22	63	1	**10122**5/16	
	3/8" x 16	24	70	1	**10122**3/8	
	7/16" x 14	24	70	1	**10122**7/16	
	1/2" x 13	29	75	1	**10122**1/2	
	9/16" x 12	30	80	1	**10122**9/16	
	5/8" x 11	32	80	1	**10122**5/8	
	3/4" x 10	40	95	1	**10122**3/4	
	7/8" x 9	40	100	1	**10122**7/8	
	1" x 8	50	110	1	**10122**1	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI, FILETTATURA AMERICANA UNF A PASSO FINE

EN *Hand taps, 2 pcs set, unified fine thread UNF*
FR *Jeux de 2 tarauds à main, filetage americain à pas fin UNF*
ESP *Juego de 2 machos a mano, rosca unificada fina UNF*
PT *Machos manuais, conjunto de 2 peças, rosca fina unificada UNF*

10125 | **HSS-G** | **UNF**

HRC ≃ 63÷63,5
HSS-G AISI M2



≃ DIN 2181

	Ø	l mm	L mm	pcs.	cod.	cad / each €
N°	**0** x 80 (-1/16)	9	32	1	**10125**N00	consultare listino
	1 x 72 (-5/64)	9	32	1	**10125**N01	*see price list*
	2 x 64 (-3/32)	10	32	1	**10125**N02	
	3 x 56 (-7/64)	10	32	1	**10125**N03	
	4 x 48 (-1/8)	11	36	1	**10125**N04	
	5 x 44 (-1/8)	11	36	1	**10125**N05	
	6 x 40 (-9/64)	12	40	1	**10125**N06	
	8 x 36 (-5/32)	12	40	1	**10125**N08	
	10 x 32 (-3/16)	14	45	1	**10125**N10	
	12 x 28 (-7/32)	14	50	1	**10125**N12	
UNF	**1/4"** x 28	18	50	1	**10125**1/4	
	5/16" x 24	22	56	1	**10125**5/16	
	3/8" x 24	22	63	1	**10125**3/8	
	7/16" x 20	22	63	1	**10125**7/16	
	1/2" x 20	24	75	1	**10125**1/2	
	9/16" x 18	28	80	1	**10125**9/16	
	5/8" x 18	28	80	1	**10125**5/8	
	3/4" x 16	32	95	1	**10125**3/4	
	7/8" x 14	36	100	1	**10125**7/8	
	1" x 12	40	110	1	**10125**112	
*	**1"** x 14	40	110	1	**10125**114	
	1-1/8" x 12	50	110	1	**10125**1.1/8	
	1-1/4" x 12	56	132	1	**10125**1.1/4	
	1-3/8" x 12	56	132	1	**10125**1.3/8	
	1-1/2" x 12	63	150	1	**10125**1.1/2	

* Filettatura UNS
UNS thread

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 3 PEZZI, FILETTATURA SINISTRA AMERICANA UNF

EN *Hand taps, 3 pcs set, Unified Coarse Thread UNF, left hand*
ESP *Juegos de machos a mano, rosca izquierda unificada vasta UNF*
FR *Jeux de 3 tarauds à main, filetage americain à pas gros UNF, gauche*
PT *Machos manuais, conjunto de 3 peças, rosca mão esquerda unificada UNF*

SINISTRI
Left hand

10127 | **HSS-G** | **UNF**

HRC ≃ 63÷63,5
HSS-G AISI M2



≃ DIN 2181

	Ø	l mm	L mm	pcs.	cod.	cad / each €
N°	**10** x 32 (-3/16)	14	45	1	**10127**NR10	consultare listino
UNF	**1/4"** x 28	18	50	1	**10127**1/4	*see price list*
	5/16" x 24	22	56	1	**10127**5/16	
	3/8" x 24	22	63	1	**10127**3/8	
	7/16" x 20	22	63	1	**10127**7/16	
	1/2" x 20	24	75	1	**10127**1/2	
	9/16" x 18	28	80	1	**10127**9/16	
	5/8" x 18	28	80	1	**10127**5/8	
	3/4" x 16	32	95	1	**10127**3/4	
	7/8" x 14	36	100	1	**10127**7/8	
	1" x 12	40	110	1	**10127**1	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO IN HSS SERIE DI 2 PEZZI PER TUBI DI CONDUZIONE ELETTRICA

EN *Hand taps, 2 pcs set, for cable connection*
FR *Tarauds à main pour tubes avec armature en acier*
ESP *Juegos de machos a mano para tubos de conducción eléctrica*
PT *2 peças de machos manuais para ligação dos cabos*

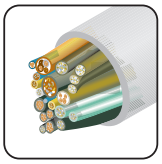
10136 **HSS-G** **PG**

HRC = 63÷63,5
HSS-G AISI M2



DIN 40432

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
Pg	**7** x 20	22	70	1	**10136**07	consultare listino
	9 x 18	22	70	1	**10136**09	*see price list*
	11 x 18	22	80	1	**10136**11	
	13,5 x 18	22	80	1	**10136**135	
	16 x 18	22	80	1	**10136**16	
	21 x 16	22	90	1	**10136**21	
	29 x 16	25	100	1	**10136**29	
	36 x 16	40	140	1	**10136**36	
	42 x 16	40	140	1	**10136**42	
	48 x 16	40	160	1	**10136**48	



Per tubi di
conduzione elettrica
For electrical conduction tubes

Acciaio
Steel

Metalli
Metals

MASCHI A MANO AL C.V. SERIE DI 3 PEZZI, FILETTATURA METRICA ISO A PASSO GROSSO

EN *Hand taps, 3 pcs set, metric coarse ISO thread*
FR *Jeux de 3 tarauds à main, filetage metrique ISO*
ESP *Juegos de machos a mano, rosca metrica ISO*
PT *Jogo de machos manuais, 3 peças, rosca métrica ISO grossa*

10001 | **C.V.** | **M**

HRC = 63÷63,5



SELF ART. 10002
Su richiesta / *On demand*

UNI 4535 ≃ DIN 352

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**2** x 0,4	11	36	1	**10001**02X04	consultare listino
	2,5 x 0,45	12	40	1	**10001**025X045	*see price list*
	3 x 0,5	12	40	1	**10001**03X05	
	3 x 0,6	12	43	1	**10001**03X06	
	3,5 x 0,6	14	45	1	**10001**035X06	
	4 x 0,7	14	45	1	**10001**04X07	
	4 x 0,75	14	48	1	**10001**04X075	
	4,5 x 0,75	16	48	1	**10001**045X075	
	5 x 0,8	16	48	1	**10001**05X08	
	5 x 0,9	16	50	1	**10001**05X09	
	6 x 1	18	50	1	**10001**06X1	
	7 x 1	18	50	1	**10001**07X1	
	8 x 1,25	22	56	1	**10001**08X125	
	9 x 1,25	22	63	1	**10001**09X125	
	10 x 1,5	25	70	1	**10001**10X15	
	11 x 1,5	25	70	1	**10001**11X15	
	12 x 1,75	30	75	1	**10001**12X175	
	14 x 2	32	80	1	**10001**14X2	
	16 x 2	32	80	1	**10001**16X2	
	18 x 2,5	40	95	1	**10001**18X25	
	20 x 2,5	40	95	1	**10001**20X25	
	22 x 2,5	40	100	1	**10001**22X25	
	24 x 3	50	110	1	**10001**24X3	
	27 x 3	50	110	1	**10001**27X3	
	30 x 3,5	56	132	1	**10001**30X35	
	33 x 3,5	60	132	1	**10001**33X35	
	36 x 4	60	132	1	**10001**36X4	

R ≤ 600 N/mm²

Leghe leggere
Light alloys

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

MASCHI A MACCHINA AL CV E A MANO PER FORI PASSANTI, SPECIALI PER DADI, FILETTATURA METRICA

EN *Machine nut taps, metric coarse thread*
FR *Taraud à main et machine pour ecrous*
ESP *Machos de mano y maquina tipo tuercas*
PT *Jogo de machos manuais, rosca métrica*

10030 | **C.V.** | **M**

SPECIALE PER DADI
Special for nuts



≃ DIN 357

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**3** x 0,5	18	75	10	**10030**03X05	consultare listino
	4 x 0,7	23	90	10	**10030**04X07	*see price list*
	5 x 0,8	32	100	10	**10030**05X08	
	6 x 1	40	110	10	**10030**06X1	
	8 x 1,25	45	132	5	**10030**08X125	
	10 x 1,5	55	150	5	**10030**10X15	
	12 x 1,75	55	180	5	**10030**12X175	

R ≤ 600 N/mm²

Leghe leggere
Light alloys

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

MASCHI A MANO AL CV IN SERIE DI 2 PEZZI, FILETTATURA METRICA PASSO GROSSO E FINE

EN *Two pieces hand taps, coarse and fine pitch*
FR *Tarauds à main, jeux de 2 pieces métrique, pas gros et fin*
ESP *Juego machos a mano de dos piezos, rosca metrica fina y normal*
PT *Duas peças de machos manuais, de passo grosso e fino*

10003 | **C.V.** | **M** + **MF**

HRC = 63÷63,5



UNI 4535 ≃ DIN 2181

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
M	**2** x 0,4	11	36	1	**10003**02X04	consultare listino
	3 x 0,5	12	40	1	**10003**03X05	*see price list*
	4 x 0,7	14	45	1	**10003**04X07	
	5 x 0,8	16	48	1	**10003**05X08	
	6 x 0,75	18	50	1	**10003**06X075	
	6 x 1	18	50	1	**10003**06X1	
	7 x 0,75	18	50	1	**10003**07X075	
	7 x 1	18	50	1	**10003**07X1	
	8 x 0,75	22	56	1	**10003**08X075	
	8 x 1	22	56	1	**10003**08X1	
	8 x 1,25	22	56	1	**10003**08X125	
	9 x 0,75	22	63	1	**10003**09X075	
	9 x 1	22	63	1	**10003**09X1	
	9 x 1,25	22	63	1	**10003**09X125	
	10 x 0,75	25	70	1	**10003**10X075	
	10 x 1	25	70	1	**10003**10X1	
	10 x 1,25	25	70	1	**10003**10X125	
	10 x 1,5	25	70	1	**10003**10X15	
	11 x 0,75	25	70	1	**10003**11X075	
	11 x 1	25	70	1	**10003**11X1	
	11 x 1,25	25	70	1	**10003**11X125	
	11 x 1,5	25	70	1	**10003**11X15	
	12 x 0,75	30	75	1	**10003**12X075	
	12 x 1	30	75	1	**10003**12X1	
	12 x 1,25	30	75	1	**10003**12X125	
	12 x 1,5	30	75	1	**10003**12X15	
	12 x 1,75	30	75	1	**10003**12X175	
	14 x 1	32	80	1	**10003**14X1	
	14 x 1,25	32	80	1	**10003**14X125	
	14 x 1,5	32	80	1	**10003**14X15	
	14 x 2	32	80	1	**10003**14X2	
	16 x 1	32	80	1	**10003**16X1	
	16 x 1,5	32	80	1	**10003**16X15	
	16 x 2	32	80	1	**10003**16X2	
	18 x 1,5	40	95	1	**10003**18X15	
	18 x 2	40	95	1	**10003**18X2	
	18 x 2,5	40	95	1	**10003**18X25	
	20 x 1,5	40	95	1	**10003**20X15	
	20 x 2	40	95	1	**10003**20X2	
	20 x 2,5	40	95	1	**10003**20X25	
	22 x 1,5	40	100	1	**10003**22X15	
	22 x 2	40	100	1	**10003**22X2	
	22 x 2,5	40	100	1	**10003**22X25	
	24 x 1,5	50	110	1	**10003**24X15	
	24 x 2	50	110	1	**10003**24X2	
	24 x 3	50	110	1	**10003**24X3	
	27 x 1,5	50	110	1	**10003**27X15	
	27 x 2	50	110	1	**10003**27X2	
	27 x 3	50	110	1	**10003**27X3	
	30 x 1,5	56	132	1	**10003**30X15	
	30 x 2	56	132	1	**10003**30X2	

R ≤ 600 N/mm²

Leghe leggere
Light alloys

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

MASCHI A MANO AL CV SERIE DI 2 PEZZI, FILETTATURA GAS CILINDRICA ISO 228 PER TUBI

EN *Hand taps, 2 pcs set, Wh pipe thread ISO 228*
ESP *Juegos de machos a mano, rosca gas cilindrica*
FR *Tarauds à main, filetage gaz cylindrique*
PT *Machos manuais, conjunto de 2 peças, rosca para tubo wh ISO 228*

10015 | **C.V.** | **BSPP (GAS)**



UNI 4535 ≃ DIN 5157

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
G	1/8" x 28	18	65	1	100151/8	consultare listino
	1/4" x 19	24	70	1	100151/4	*see price list*
	3/8" x 19	25	75	1	100153/8	
	1/2" x 14	31	80	1	100151/2	
	3/4" x 14	33	90	1	100153/4	
	1" x 11	39	100	1	100151	
	1-1/4" x 11	32	125	1	100151.1/4	
	1-1/2" x 11	32	140	1	100151.1/2	
	2" x 11	32	140	1	100152	

R ≤ 600 N/mm²

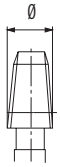
Leghe leggere *Light alloys* | Metalli *Metals* | Alluminio *Aluminum* | Olio *Oil*

MASCHI CONICI AL CV PER TUBI, FILETTATURA GAS CONICA BSPT (CON. 1:16)

EN *BSPT taper thread (1:16 taper)*
ESP *Machos rosca conica BSPT (1:16)*
FR *Tarauds filetage gaz conique (1:16)*
PT *Rosca cónica bspt (cone 1:16)*

10017 | **C.V.** | **BSPT**

CONICO *Taper*



CONICITÀ 1:16
Taper 1:16



UNI 6125

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
Rc	1/8" x 28	15	59	1	100171/8	consultare listino
	1/4" x 19	19	67	1	100171/4	*see price list*
	3/8" x 19	21	75	1	100173/8	
	1/2" x 14	26	87	1	100171/2	
	3/4" x 14	28	96	1	100173/4	
	1" x 11	33	109	1	100171	
	1-1/4" x 11	36	119	1	100171.1/4	
	1-1/2" x 11	37	125	1	100171.1/2	
	2" x 11	41	140	1	100172	

R ≤ 600 N/mm²

Leghe leggere *Light alloys* | Metalli *Metals* | Alluminio *Aluminum* | Olio *Oil*

MASCHI A MANO AL CV SERIE DI 2 PEZZI, FILETTATURA WHITWORTH A PASSO FINE

EN *2 pcs hand taps, british standard fine*
ESP *Juegos machos de mano, rosca inglesa Whithorth fina*
FR *Tarauds à main, jeux de 2 unidades, filetage Whithorth fin*
PT *2 peças de machos manuais, padrão britânico fino*

10012 | **C.V.** | **BSF**



UNI 2709 ≃ DIN 2181

	Ø mm	l mm	L mm	pcs.	cod.	cad / each €
BSF	3/16" x 32	16	48	1	100123/16	consultare listino
	1/4" x 26	18	50	1	100121/4	*see price list*
	5/16" x 22	22	56	1	100125/16	
	3/8" x 20	25	70	1	100123/8	
	7/16" x 18	25	70	1	100127/16	
	1/2" x 16	30	75	1	100121/2	
	9/16" x 16	32	80	1	100129/16	
	5/8" x 14	32	80	1	100125/8	
	3/4" x 12	40	95	1	100123/4	
	7/8" x 11	40	100	1	100127/8	
	1" x 10	50	110	1	100121	

R ≤ 600 N/mm²

Leghe leggere *Light alloys* | Metalli *Metals* | Alluminio *Aluminum* | Olio *Oil*

MASCHI A MANO AL CV SERIE DI 3 PEZZI, FILETTATURA WHITWORTH PASSO GROSSO

EN *3 pcs hand taps, Whitworth coarse thread*
FR *Tarauds à main, jeux de 3 pieces , filetage Whitworth*
ESP *Juegos machos de mano, rosca inglesa Whitworth*
PT *3 peças de machos manuais, whitworth de rosca grossa*

10010 | **C.V.** | **BSW**



UNI 2709 ≃ DIN 352

Ø mm	l mm	L mm	pcs.	cod.	cad / each €
BSW **1/8"** x 40	12	40	1	**10010**1/8	consultare listino
5/32" x 32	12	45	1	**10010**5/32	*see price list*
3/16" x 24	16	48	1	**10010**3/16	
1/4" x 20	18	50	1	**10010**1/4	
5/16" x 18	22	56	1	**10010**5/16	
3/8" x 16	25	70	1	**10010**3/8	
7/16" x 14	25	70	1	**10010**7/16	
1/2" x 12	30	75	1	**10010**1/2	
9/16" x 12	32	80	1	**10010**9/16	
5/8" x 11	32	80	1	**10010**5/8	
3/4" x 10	40	95	1	**10010**3/4	
7/8" x 9	40	100	1	**10010**7/8	
1" x 8	50	110	1	**10010**1	
1-1/8" x 7	56	125	1	**10010**1.1/8	
1-1/4" x 7	56	125	1	**10010**1.1/4	
1-3/8" x 6	63	150	1	**10010**1.3/8	
1-1/2" x 6	63	150	1	**10010**1.1/2	
1-3/4" x 5	70	160	1	**10010**1.3/4	
2" x 4.5	80	190	1	**10010**2	

R ≤ 600 N/mm²

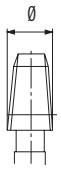
Leghe leggere *Light alloys*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI CONICI AL CV PER TUBI, FILETTATURA CONICA AMERICANA NPT

EN *NPT taper thread*
FR *Tarauds conique NPT*
ESP *Macho rosca conica americana NPT*
PT *Rosca cónica NPT*

10032 | **C.V.** | **NPT**

CONICO *Taper*



CONICITÀ 1:16
Taper 1:16



ANSI B2.1

Ø mm	l mm	L mm	pcs.	cod.	cad / each €
NPT **1/8"** x 27	19	54	1	**10032**1/8	consultare listino
1/4" x 18	27	62	1	**10032**1/4	*see price list*
3/8" x 18	27	65	1	**10032**3/8	
1/2" x 14	35	79	1	**10032**1/2	
3/4" x 14	35	83	1	**10032**3/4	
1" x 11,5	44	95	1	**10032**1	
1-1/4" x 11,5	44	102	1	**10032**1.1/4	
1-1/2" x 11,5	44	108	1	**10032**1.1/2	
2" x 11,5	44	114	1	**10032**2	

R ≤ 600 N/mm²

Leghe leggere *Light alloys*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

MASCHI A MANO AL CV SERIE DI 3 PEZZI, FILETTATURA AMERICANA UNC A PASSO GROSSO

EN *Hand taps, 3 pcs set, Unified Coarse Thread UNC*
FR *Jeux de 3 tarauds à main, filetage americain à pas gros UNC*
ESP *Juegos de machos a mano, rosca unificada vasta UNC*
PT *Machos manuais, conjunto de 3 peças, rosca grossa unificada UNC*

10020 | **C.V.** | **UNC**

HRC = 63÷63,5



R ≤ 600 N/mm²

Leghe leggere *Light alloys*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

ANSI B1.1

	Ø	l mm	L mm	pcs.	cod.	cad / each €
N°	**5** x 40 (-1/8)	18	50	1	**10020**N05	consultare listino
	6 x 32 (-9/64)	18	50	1	**10020**N06	*see price list*
	8 x 32 (-5/32)	18	50	1	**10020**N08	
	10 x 24 (-3/16)	30	70	1	**10020**N10	
	12 x 24 (-7/32)	30	70	1	**10020**N12	
UNC	**1/4"** x 20	30	70	1	**10020**1/4	
	5/16" x 18	30	70	1	**10020**5/16	
	3/8" x 16	35	75	1	**10020**3/8	
	7/16" x 14	40	80	1	**10020**7/16	
	1/2" x 13	45	85	1	**10020**1/2	
	9/16" x 12	45	90	1	**10020**9/16	
	5/8" x 11	47	100	1	**10020**5/8	
	3/4" x 10	50	110	1	**10020**3/4	
	7/8" x 9	60	120	1	**10020**7/8	
	1" x 8	60	130	1	**10020**1	
	1-1/8" x 7	60	130	1	**10020**1.1/8	
	1-1/4" x 7	60	130	1	**10020**1.1/4	
	1-3/8" x 6	65	150	1	**10020**1.3/8	
	1-1/2" x 6	65	150	1	**10020**1.1/2	

MASCHI A MANO IN CV SERIE DI 2 PEZZI, FILETTATURA AMERICANA UNF A PASSO FINE

EN *Hand taps, 2 pcs set, unified fine thread UNF*
FR *Jeux de 2 tarauds à main, filetage americain à pas fin UNF*
ESP *Juego de 2 machos a mano, rosca unificada fina UNF*
PT *Machos manuais, conjunto de 2 peças, rosca fina unificada UNF*

10025 | **C.V.** | **UNF**

HRC = 63÷63,5



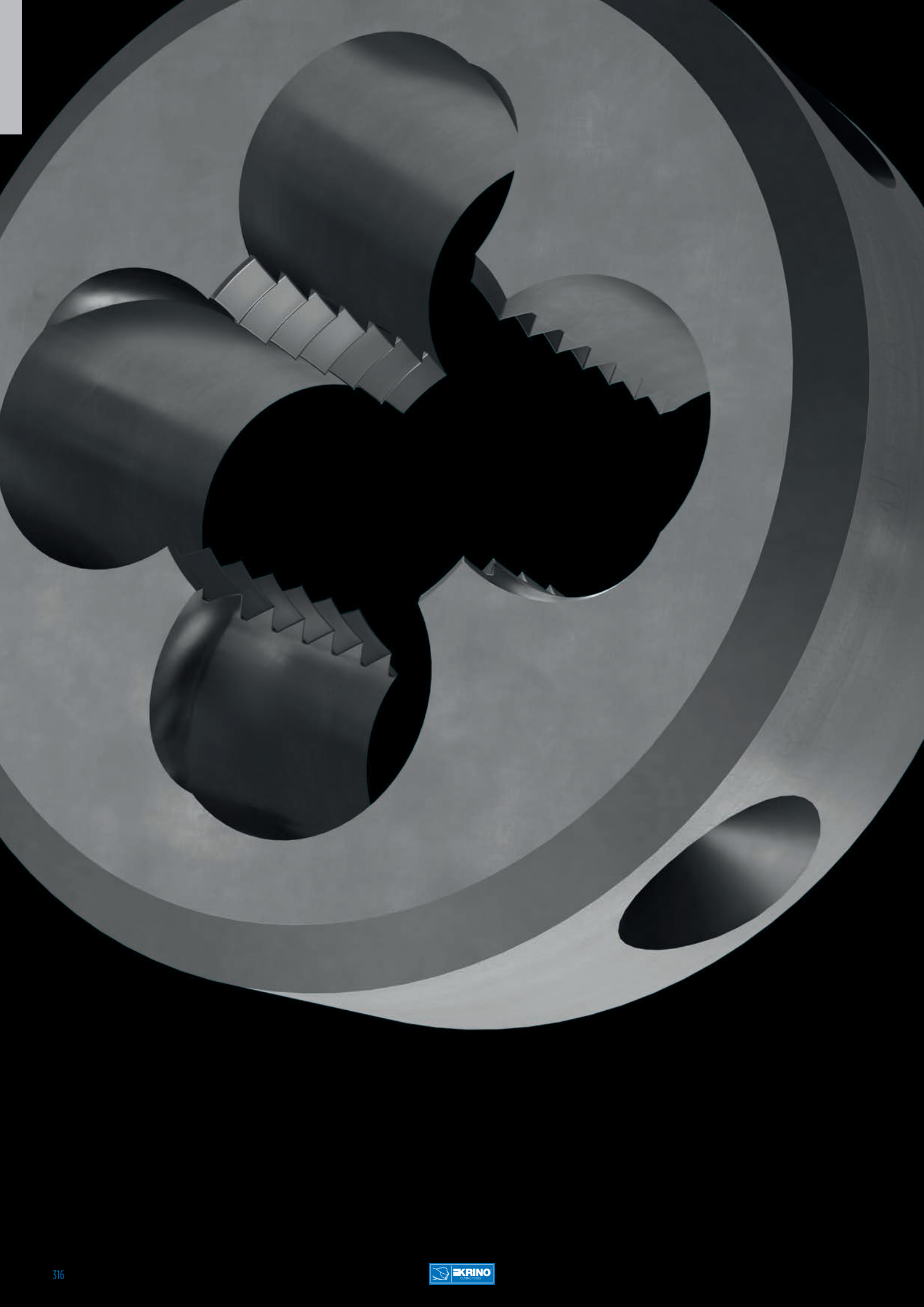
R ≤ 600 N/mm²

Leghe leggere *Light alloys*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

ANSI B1.1

	Ø	l mm	L mm	pcs.	cod.	cad / each €
N°	**5** x 44 (-1/8)	11	36	1	**10025**N05	consultare listino
	6 x 40 (-9/64)	12	40	1	**10025**N06	*see price list*
	8 x 36 (-5/32)	12	40	1	**10025**N08	
	10 x 32 (-3/16)	14	45	1	**10025**N10	
	12 x 28 (-7/32)	14	50	1	**10025**N12	
UNF	**1/4"** x 28	30	70	1	**10025**1/4	
	5/16" x 24	30	70	1	**10025**5/16	
	3/8" x 24	35	75	1	**10025**3/8	
	7/16" x 20	40	80	1	**10025**7/16	
	1/2" x 20	45	85	1	**10025**1/2	
	9/16" x 18	45	90	1	**10025**9/16	
	5/8" x 18	47	100	1	**10025**5/8	
	3/4" x 16	50	110	1	**10025**3/4	
	7/8" x 14	60	120	1	**10025**7/8	
	1" x 12	60	130	1	**10025**1	
	1-1/8" x 12	60	130	1	**10025**1.1/8	
	1-1/4" x 12	60	130	1	**10025**1.1/4	
	1-3/8" x 12	65	150	1	**10025**1.3/8	
	1-1/2" x 12	65	150	1	**10025**1.1/2	

* Filettatura UNS *UNS thread*



UTENSILI A FILETTARE: FILIERE

Threading tools: Round Dies

Outils a fileter: Filieres rondes

Herramientas de roscado: Cojinetes redondos

Ferramentas de roscar: Caçonetes redondos

VISIONE D'INSIEME: FILIERE

EN *Overview: Round Dies*
FR *Aperçu: Filieres rondes*
ESP *Visión general: Cojinetes redondos*
PT *Visão geral: Caçonetes redondos*

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1400 N/mm² *Steel <1400 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium/alloys*	R≤N/mm²	COD.	
HSS CO	-	M	-	3÷30	DIN 223		✓	✓	✓	✓	✓	✓	1200	12144	320
	-	MF	-	6÷24	DIN 223		✓	✓	✓	✓	✓	✓	1200	12146	320
	-	BSPP	-	1/8÷1"	DIN 5158		✓	✓	✓	✓	✓	✓	1200	12148	321
HSS	-	M	-	1÷72	DIN 223				✓	✓	✓	✓	800	12060	322
	-		SINISTRA *Left hand*	2÷52	DIN 223				✓	✓	✓	✓	800	12062	323
	-		NON A NORMA DIN *Not DIN standard*	2÷20	-				✓	✓	✓	✓	800	12066	323
	-		ESAGONALI *Hexagonal*	3÷68	DIN 382				✓	✓	✓	✓	800	12094	324
		MF	-	2,5÷82	DIN 223				✓	✓	✓	✓	800	12065	326
	-		SINISTRA *Left hand*	3÷36	DIN 223				✓	✓	✓	✓	800	12072	328
	-		NON A NORMA DIN *Not DIN standard*		-				✓	✓	✓	✓	800	12066	323
	-		PER TUBI CONDUZIONE ELETTRICA *For electrical conduction tubes*	12÷63	DIN 223				✓	✓	✓	✓	800	12069	329
	-		ESAGONALI *Hexagonal*	3÷20	DIN 382				✓	✓	✓	✓	800	12096	330
	-	BSPP	-	1/8÷4"	DIN 5158				✓	✓	✓	✓	800	12075	331
	-		SINISTRA *Left hand*	1/8÷2"	DIN 5158				✓	✓	✓	✓	800	12077	331
	-		ESAGONALI *Hexagonal*	1/8÷2"	DIN 382				✓	✓	✓	✓	800	12098	332
	-	BSPT	CONICI 1:16 *Taper 1:16*	1/8÷2"	352				✓	✓	✓	✓	800	12089	332
	-	BSF	-	3/16÷1"	DIN 223				✓	✓	✓	✓	800	12087	333

MATERIALE *Material*	RIVESTIMENTO *Coating*	FILETTATURA *Thread*	SPECIALITÀ *Features*	DIAMETRO FORO *Hole diameter*	NORMA *Standard*	IMMAGINE *Image*	INOX *Stainless steel*	ACCIAIO <1400 N/mm² *Steel <1400 n/mm²*	ACCIAIO <900 N/mm² *Steel <900 n/mm²*	ACCIAIO <700 N/mm² *Steel <700 n/mm²*	OTTONE *Brass*	ALLUMINIO E LEGHE *Alluminium/alloys*	R≤N/mm²	COD.	
HSS	-	BSW	-	1/16÷2"	DIN 223				●	●	●	●	800	12070	333
	-		SINISTRA *Left hand*	1/8÷1"	DIN 223				●	●	●	●	800	12088	334
	-	NPT	CONICI 1:16 *Taper 1:16*	1/16÷2"					●	●	●	●	800	12091	334
	-	UNC	-	4÷2"	DIN 223				●	●	●	●	800	12080	335
	-		SINISTRA *Left hand*	6÷1"	DIN 223				●	●	●	●	800	12082	335
	-	UNF	-	2÷1.1/2	DIN 223				●	●	●	●	800	12085	336
	-		SINISTRA *Left hand*	-	DIN 223				●	●	●	●	800	12086	336
	-	UNEF	-	1/4 ÷ 1.1/8	DIN 223				●	●	●	●	800	12079	337
C.V.	-	M	-	2÷36	DIN 223					●	●	●	600	12001	338
	-	MF	-	6÷30	DIN 223					●	●	●	600	12005	339
	-	BSPP	-	1/8÷2"	DIN 223					●	●	●	600	12015	340
	-	BSPT	CONICI 1:16 *Taper 1:16*	1/8÷2"	DIN 223					●	●	●	600	12017	340
	-	BSF	-	3/16÷1"	DIN 223					●	●	●	600	12012	341
	-	BSW	-	1/8÷2"	DIN 223					●	●	●	600	12010	341
	-	NPT	CONICI 1:16 *Taper 1:16*	1/8÷2"	DIN 223					●	●	●	600	12032	342
	-	UNC	-	5÷1.1/2	DIN 223					●	●	●	600	12020	342
	-	UNF	-	5÷1.1/2	DIN 223					●	●	●	600	12025	343

FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO GROSSO

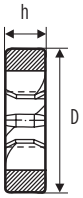
EN *Round dies, spiral point, metric coarse thread*
FR *Filieres rondes, entrée gun, filetages métriques ISO à pas grossier*
ESP *Cojinetes redondos, entrada corregida, rosca metrica vasta*
PT *Caçonetes redondos, ponta em espiral,rosca métrica de passo grosso ISO*

12144 | **HSS-CO** | **M**



HRC = 63÷64
HSS-CO AISI M35
FORM B

Imbocco corretto
Spiral Point



DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**3** x 0,5	20 x 5	1	**12144**03X05	consultare listino
	4 x 0,7	20 x 5	1	**12144**04X07	*see price list*
	5 x 0,8	20 x 7	1	**12144**05X08	
	6 x 1	20 x 7	1	**12144**06X1	
	8 x 1,25	25 x 9	1	**12144**08X125	
	10 x 1,5	30 x 11	1	**12144**10X15	
	12 x 1,75	38 x 14	1	**12144**12X175	
	14 x 2	38 x 14	1	**12144**14X2	
	16 x 2	45 x 18	1	**12144**16X2	
	18 x 2,5	45 x 18	1	**12144**18X25	
	20 x 2,5	45 x 18	1	**12144**20X25	
	22 x 2,5	55 x 22	1	**12144**22X25	
	24 x 3	55 x 22	1	**12144**24X3	
	27 x 3	65 x 25	1	**12144**27X3	
	30 x 3,5	65 x 25	1	**12144**30X35	

R ≤ 1200 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO FINE

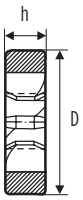
EN *Round dies, spiral point, metric fine thread*
FR *Filieres rondes, entrée gun, filetages métriques ISO à pas fin*
ESP *Cojinetes redondos, entrada corregida, rosca metrica fina*
PT *Caçonetes redondos, ponta em espiral, rosca métrica de passo fino ISO*

12146 | **HSS-CO** | **MF**



HRC = 63÷64
HSS-CO AISI M35
FORM B

Imbocco corretto
Spiral Point



DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**6** x 0,75	20 x 7	1	**12146**06X075	consultare listino
	8 x 0,75	25 x 9	1	**12146**08X075	*see price list*
	8 x 1	25 x 9	1	**12146**08X1	
	10 x 1	30 x 11	1	**12146**10X1	
	10 x 1,25	30 x 11	1	**12146**10X125	
	12 x 1	38 x 10	1	**12146**12X1	
	12 x 1,25	38 x 10	1	**12146**12X125	
	12 x 1,5	38 x 10	1	**12146**12X15	
	14 x 1,25	38 x 10	1	**12146**14X125	
	14 x 1,5	38 x 10	1	**12146**14X15	
	16 x 1,5	45 x 14	1	**12146**16X15	
	18 x 1,5	45 x 14	1	**12146**18X15	
	18 x 2	45 x 14	1	**12146**18X2	
	20 x 1,5	45 x 14	1	**12146**20X15	
	20 x 2	45 x 14	1	**12146**20X2	
	22 x 1,5	55 x 16	1	**12146**22X15	
	24 x 1,5	55 x 16	1	**12146**24X15	

R ≤ 1200 N/mm²

Inox *Stainless*
Acciaio *Steel*
Metalli *Metals*
Olio *Oil*

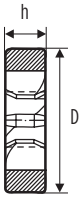
FILIERE TONDE AL COBALTO A IMBOCCO CORRETTO, FILETTATURA GAS CILINDRICA ISO 228

EN *Spiral point round dies, spiral point, Whitworth pipe thread ISO 228*
FR *Filières rondes, entrée gun, pour filetage gaz de tuyauterie ISO 228*
ESP *Cojinetes redondos, entrada corregida, rosca gas cilindrica ISO 228*
PT *Caçonetes redondos de ponta em espiral, ponta em espiral, rosca de tubo whitworth iso 228*

12148 **HSS-CO** **BSPP (GAS)**

HRC = 63÷64
HSS-CO AISI M35ù
FORM B

Imbocco corretto
Spiral Point





DIN 5158 - EN 24231

	Ø	D x h	pcs.	cod.	cad / each €
G	**1/8"** x 28	30 x 11	1	**12148**1/8	consultare listino
	1/4" x 19	38 x 10	1	**12148**1/4	*see price list*
	3/8" x 19	45 x 14	1	**12148**3/8	
	1/2" x 14	45 x 14	1	**12148**1/2	
	3/4" x 14	55 x 16	1	**12148**3/4	
	1" x 11	65 x 18	1	**12148**1	

R ≤ 1200 N/mm²

Inox
Stainless

Acciaio
Steel

Metalli
Metals

Olio
Oil

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA METRICA ISO A PASSO GROSSO

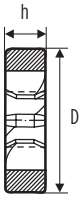
EN *Round dies, spiral point, metric coarse thread*
FR *Filieres rondes, entrée gun, filetages métriques ISO à pas grossier*
ESP *Cojinetes redondos, entrada corregida, rosca metrica vasta*
PT *Caçonetes redondos, ponta em espiral,rosca métrica de passo grosso ISO*

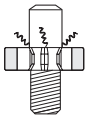
12060 | **HSS-G** | **M**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point







000 

15037

DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**1** x 0,25	16 x 5	1	**12060**01X025	consultare listino
	1,1 x 0,25	16 x 5	1	**12060**011X025	*see price list*
	1,2 x 0,25	16 x 5	1	**12060**012X025	
	1,4 x 0,3	16 x 5	1	**12060**014X03	
	1,6 x 0,35	16 x 5	1	**12060**016X035	
	1,7 x 0,35	16 x 5	1	**12060**017X035	
	1,8 x 0,35	16 x 5	1	**12060**018X035	
	2 x 0,4	16 x 5	1	**12060**02X04	
	2,2 x 0,45	16 x 5	1	**12060**022X045	
	2,3 x 0,4	16 x 5	1	**12060**023X04	
	2,5 x 0,45	16 x 5	1	**12060**025X045	
	2,6 x 0,45	16 x 5	1	**12060**026X045	
	3 x 0,5	20 x 5	1	**12060**03X05	
	4 x 0,7	20 x 5	1	**12060**04X07	
	4,5 x 0,75	20 x 7	1	**12060**045X075	
	5 x 0,8	20 x 7	1	**12060**05X08	
	5,5 x 0,9	20 x 7	1	**12060**055x09	
	6 x 1	20 x 7	1	**12060**06X1	
	7 x 1	25 x 9	1	**12060**07X1	
	8 x 1,25	25 x 9	1	**12060**08X125	
	9 x 1,25	25 x 9	1	**12060**09X125	
	10 x 1,5	30 x 11	1	**12060**10X15	
	11 x 1,5	30 x 11	1	**12060**11X15	
	12 x 1,75	38 x 14	1	**12060**12X175	
	14 x 2	38 x 14	1	**12060**14X2	
	15 x 2	38 x 14	1	**12060**15X2	
	16 x 2	45 x 18	1	**12060**16X2	
	18 x 2,5	45 x 18	1	**12060**18X25	
	19 x 2,5	45 x 18	1	**12060**19X25	
	20 x 2,5	45 x 18	1	**12060**20X25	
	22 x 2,5	55 x 22	1	**12060**22X25	
	24 x 3	55 x 22	1	**12060**24X3	
	27 x 3	65 x 25	1	**12060**27X3	
	30 x 3,5	65 x 25	1	**12060**30X35	
	33 x 3,5	65 x 25	1	**12060**33X35	
	36 x 4	65 x 25	1	**12060**36X4	
	39 x 4	75 x 30	1	**12060**39X4	
	42 x 4,5	75 x 30	1	**12060**42X45	
	45 x 4,5	90 x 36	1	**12060**45X45	
	48 x 5	90 x 36	1	**12060**48X5	
	52 x 5	90 x 36	1	**12060**52X5	
	***68** x 6	120 x 36	1	**12060**68X6	
	***72** x 6	130 x 36	1	**12060**72X6	

*In esaurimento
**Running out*

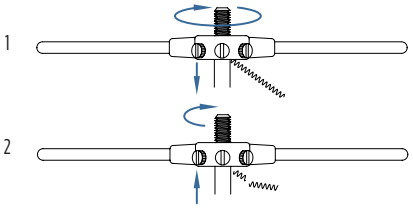
R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

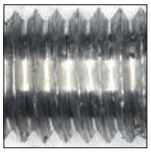
Alluminio
Aluminum

Olio
Oil



È buona norma, ad ogni rotazione della filiera(1), effettuare mezzo giro indietro per rompere il truciolo(2)

Please rotate clockwise the round die(1) then anticlockwise to break the chip(2)



Risultato: ottima finitura del filetto
Result: good thread finishing

FILIERE TONDE IN HSS SINISTRE, FILETTATURA METRICA A PASSO GROSSO

EN *Round dies, metric coarse thread, left hand*
FR *Filières rondes, filetage métrique à pas gros, gauche*
ESP *Cojinetes redondos, rosca metrica vasta izquierda*
PT *Caçonetes redondos, rosca métrica grossa, mão esquerda*

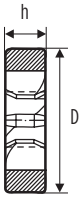
12062 | **HSS-G** | **M**

SINISTRE
Left hand

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**2** x 0,4	16 x 5	1	**12062**02X04	consultare listino
	3 x 0,5	20 x 5	1	**12062**03X05	*see price list*
	4 x 0,7	20 x 5	1	**12062**04X07	
	5 x 0,8	20 x 7	1	**12062**05X08	
	6 x 1	20 x 7	1	**12062**06X1	
	7 x 1	25 x 9	1	**12062**07X1	
	8 x 1,25	25 x 9	1	**12062**08X125	
	10 x 1,5	30 x 11	1	**12062**10X15	
	12 x 1,75	38 x 14	1	**12062**12X175	
	14 x 2	38 x 14	1	**12062**14X2	
	16 x 2	45 x 18	1	**12062**16X2	
	18 x 2,5	45 x 18	1	**12062**18X25	
	20 x 2,5	45 x 18	1	**12062**20X25	
	22 x 2,5	55 x 22	1	**12062**22X25	
	24 x 3	55 x 22	1	**12062**24X3	
	27 x 3	65 x 25	1	**12062**27X3	
	30 x 3,5	65 x 25	1	**12062**30X35	
	33 x 3,5	65 x 25	1	**12062**33X35	
	36 x 4	65 x 25	1	**12062**36X4	
	39 x 4	75 x 30	1	**12062**39X4	
	42 x 4,5	75 x 30	1	**12062**42X45	
	45 x 4,5	90 x 36	1	**12062**45X45	
	48 x 5	90 x 36	1	**12062**48X5	
	52 x 5	90 x 36	1	**12062**52X5	

FILIERE TONDE IN HSS NON A NORMA DIN, FILETTATURA METRICA ISO A PASSO GROSSO

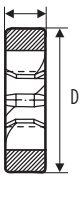
EN *Round dies with special outside diameter*
FR *Filières rondes, avec diamètre exterieur spécial*
ESP *Cojinetes redondos con diametro exterior special*
PT *Caçonetes redondos com diâmetro exterior especial*

12066 | **HSS-G** | **M**

DIAMETRO ESTERNO SPECIALE
Special outside diameter

Filiere con Ø esterno speciale
Round dies with special outside diameter





R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

6g NON A NORMA DIN

	Ø	D x h	pcs.	cod.	cad / each €
M	**2** x 0,4	25 x 9	1	**12066**202X04	consultare listino
	3 x 0,5	25 x 9	1	**12066**203X05	*see price list*
	4 x 0,7	25 x 9	1	**12066**204X07	
	5 x 0,8	25 x 9	1	**12066**205X08	
	6 x 1	25 x 9	1	**12066**206X1	
	7 x 1	25 x 9	1	**12066**207X1	
	8 x 1,25	25 x 9	1	**12066**208X125	
	10 x 1,5	25 x 9	1	**12066**210X15	
	12 x 1,75	25 x 9	1	**12066**212X175	
	10 x 1,5	38 x 14	1	**12066**310X15	
	12 x 1,75	38 x 14	1	**12066**312X175	
	14 x 2	38 x 14	1	**12066**314X2	
	16 x 2	38 x 14	1	**12066**316X2	
	18 x 2,5	38 x 14	1	**12066**318X25	
	20 x 2,5	38 x 14	1	**12066**320X25	

FILIERE IN HSS ESAGONALI

EN *Hexagonal round dies*
FR *Filieres hexagonales*
ESP *Cojinetes hexagonales*
PT *Caçonetes redondos hexagonais*

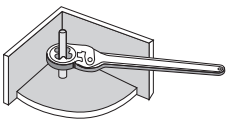
12094 | **HSS-G** | **M**

ESAGONALI
Hexagonal



DIN 382 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**3** x 0,5	19 x 5	1	**12094**03x05	consultare listino
	4 x 0,7	19 x 5	1	**12094**04x07	*see price list*
	5 x 0,8	19 x 7	1	**12094**05x08	
	6 x 1	19 x 7	1	**12094**06x1	
	7 x 1	22 x 9	1	**12094**07x1	
	8 x 1,25	22 x 9	1	**12094**08x125	
	9 x 1,25	22 x 9	1	**12094**09x125	
	10 x 1,5	27 x 11	1	**12094**10x15	
	11 x 1,5	27 x 11	1	**12094**11x15	
	12 x 1,75	36 x 14	1	**12094**12x175	
	14 x 2	36 x 14	1	**12094**14x2	
	16 x 2	41 x 18	1	**12094**16x2	
	18 x 2,5	41 x 18	1	**12094**18x25	
	20 x 2,5	41 x 18	1	**12094**20x25	
	22 x 2,5	50 x 22	1	**12094**22x25	
	24 x 3	50 x 22	1	**12094**24x3	
	27 x 3	60 x 25	1	**12094**27x3	
	30 x 3,5	60 x 25	1	**12094**30x35	
	33 x 3,5	60 x 25	1	**12094**33x35	
	36 x 4	60 x 25	1	**12094**36x4	
	39 x 4	70 x 30	1	**12094**39x4	
	42 x 4,5	70 x 30	1	**12094**42x45	
	45 x 4,5	85 x 36	1	**12094**45x45	
	48 x 5	85 x 36	1	**12094**48x5	
	52 x 5	85 x 36	1	**12094**52x5	
	56 x 5,5	100 x 36	1	**12094**56x55	
	60 x 5,5	100 x 36	1	**12094**60x55	
	64 x 6	100 x 36	1	**12094**64x6	
	68 x 6	115 x 36	1	**12094**68x6	



Per generare nuovi filetti e ripassare filettature danneggiate in punti di difficile accesso.

To generate new threads and overhaul the damaged ones.

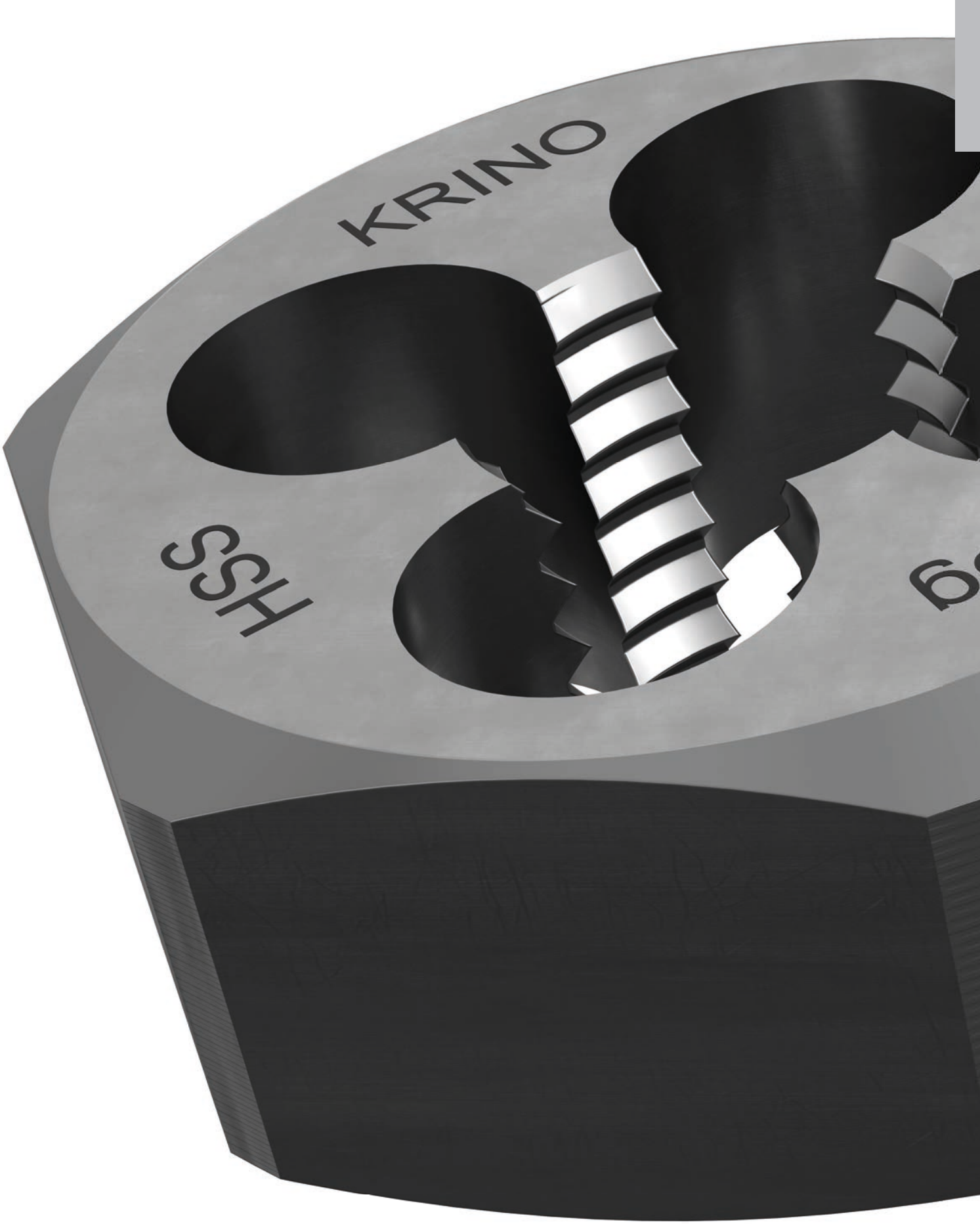
R ≤ 800 N/mm²

Acciaio *Steel*

Metalli *Metals*

Alluminio *Aluminum*

Olio *Oil*



COD. 12094

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA METRICA A PASSO FINE

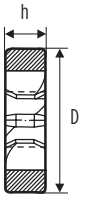
EN *Round dies, spiral point, metric fine thread*
FR *Filieres rondes, entrée gun, filetages métriques à pas fin*
ESP *Cojinetes redondos, entrada corregida, rosca metrica fina*
PT *Caçonetes redondos, ponta em espiral,rosca fina métrica*

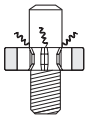
12065 | **HSS-G** | **MF**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point

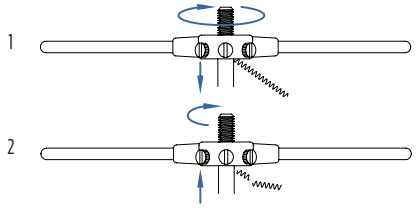






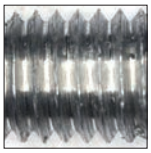
Ø M84 X 1,5÷105 X 4

Su richiesta / *On demand*



È buona norma, ad ogni rotazione della filiera(1), effettuare mezzo giro indietro per rompere il truciolo(2)

Please rotate clockwise the round die(1) then anticlockwise to break the chip(2)



Risultato: ottima finitura del filetto
Result: good thread finishing

R ≤ 800 N/mm²

Acciaio *Steel*

Metalli *Metals*

Alluminio *Aluminum*

Olio *Oil*

DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**2,5** x 0,35	16 x 5	1	**12065**025X035	consultare listino
	2,6 x 0,35	16 x 5	1	**12065**026X035	*see price list*
	3 x 0,35	20 x 5	1	**12065**03X035	
	3,5 x 0,35	20 x 5	1	**12065**035X035	
	4 x 0,35	20 x 5	1	**12065**04X035	
	4 x 0,5	20 x 5	1	**12065**04X05	
	4,5 x 0,5	20 x 5	1	**12065**045X05	
	5 x 0,5	20 x 5	1	**12065**05X05	
	5 x 0,75	20 x 7	1	**12065**05X075	
	5,5 x 0,5	20 x 5	1	**12065**055X05	
	6 x 0,5	20 x 5	1	**12065**06X05	
	6 x 0,75	20 x 7	1	**12065**06X075	
	7 x 0,5	25 x 9	1	**12065**07X05	
	7 x 0,75	25 x 9	1	**12065**07X075	
	8 x 0,5	25 x 9	1	**12065**08X05	
	8 x 0,75	25 x 9	1	**12065**08X075	
	8 x 1	25 x 9	1	**12065**08X1	
	9 x 0,5	25 x 9	1	**12065**09X05	
	9 x 0,75	25 x 9	1	**12065**09X075	
	9 x 1	25 x 9	1	**12065**09X1	
	10 x 0,5	30 x 11	1	**12065**10X05	
	10 x 0,75	30 x 11	1	**12065**10X075	
	10 x 1	30 x 11	1	**12065**10X1	
	10 x 1,25	30 x 11	1	**12065**10X125	
	11 x 1	30 x 11	1	**12065**11X1	
	11 x 1,25	30 x 11	1	**12065**11X125	
	12 x 0,5	38 x 10	1	**12065**12X05	
	12 x 0,75	38 x 10	1	**12065**12X075	
	12 x 1	38 x 10	1	**12065**12X1	
	12 x 1,25	38 x 10	1	**12065**12X125	
	12 x 1,5	38 x 10	1	**12065**12X15	
	13 x 0,5	38 x 10	1	**12065**13X05	
	13 x 0,75	38 x 10	1	**12065**13X075	
	13 x 1	38 x 10	1	**12065**13X1	
	13 x 1,5	38 x 10	1	**12065**13X15	
	14 x 0,5	38 x 10	1	**12065**14X05	
	14 x 0,75	38 x 10	1	**12065**14X075	
	14 x 1	38 x 10	1	**12065**14X1	
	14 x 1,25	38 x 10	1	**12065**14X125	
	14 x 1,5	38 x 10	1	**12065**14X15	
	15 x 0,75	38 x 10	1	**12065**15X075	
	15 x 1	38 x 10	1	**12065**15X1	
	15 x 1,5	38 x 10	1	**12065**15X15	
	16 x 0,5	45 x 14	1	**12065**16X05	
	16 x 0,75	45 x 14	1	**12065**16X075	
	16 x 1	45 x 14	1	**12065**16X1	
	16 x 1,25	45 x 14	1	**12065**16X125	
	16 x 1,5	45 x 14	1	**12065**16X15	
	17 x 1	45 x 14	1	**12065**17X1	
	17 x 1,5	45 x 14	1	**12065**17X15	
	18 x 0,5	45 x 14	1	**12065**18X05	
	18 x 0,75	45 x 14	1	**12065**18X075	
	18 x 1	45 x 14	1	**12065**18X1	
	18 x 1,25	45 x 14	1	**12065**18X125	
	18 x 1,5	45 x 14	1	**12065**18X15	
	18 x 2	45 x 14	1	**12065**18X2	
	19 x 1	45 x 14	1	**12065**19X1	
	19 x 1,5	45 x 14	1	**12065**19X15	
	20 x 0,5	45 x 14	1	**12065**20X05	
	20 x 0,75	45 x 14	1	**12065**20X075	
	20 x 1	45 x 14	1	**12065**20X1	
	20 x 1,25	45 x 14	1	**12065**20X125	
	20 x 1,5	45 x 14	1	**12065**20X15	
	20 x 2	45 x 14	1	**12065**20X2	
	21 x 1	45 x 14	1	**12065**21X1	
	21 x 1,5	45 x 14	1	**12065**21X15	
	22 x 0,5	55 x 16	1	**12065**22X05	

Ø	D x h	pcs.	cod.	cad / each €
22 x 0,75	55 x 16	1	**12065**22X075	consultare listino
22 x 1	55 x 16	1	**12065**22X1	*see price list*
22 x 1,25	55 x 16	1	**12065**22X125	
22 x 1,5	55 x 16	1	**12065**22X15	
22 x 2	55 x 16	1	**12065**22X2	
23 x 1	55 x 16	1	**12065**23X1	
23 x 1,5	55 x 16	1	**12065**23X15	
24 x 0,5	55 x 16	1	**12065**24X05	
24 x 0,75	55 x 16	1	**12065**24X075	
24 x 1	55 x 16	1	**12065**24X1	
24 x 1,25	55 x 16	1	**12065**24X125	
24 x 1,5	55 x 16	1	**12065**24X15	
24 x 2	55 x 16	1	**12065**24X2	
25 x 1	55 x 16	1	**12065**25X1	
25 x 1,5	55 x 16	1	**12065**25X15	
25 x 2	55 x 16	1	**12065**25X2	
26 x 1	55 x 16	1	**12065**26X1	
26 x 1,5	55 x 16	1	**12065**26X15	
26 x 2	55 x 16	1	**12065**26X2	
27 x 1	65 x 18	1	**12065**27X1	
27 x 1,5	65 x 18	1	**12065**27X15	
27 x 2	65 x 18	1	**12065**27X2	
28 x 1	65 x 18	1	**12065**28X1	
28 x 1,5	65 x 18	1	**12065**28X15	
28 x 2	65 x 18	1	**12065**28X2	
29 x 1,5	65 x 18	1	**12065**29X15	
30 x 1	65 x 18	1	**12065**30X1	
30 x 1,5	65 x 18	1	**12065**30X15	
30 x 2	65 x 18	1	**12065**30X2	
30 x 2,5	65 x 18	1	**12065**30X25	
30 x 3	65 x 25	1	**12065**30X3	
32 x 1	65 x 18	1	**12065**32X1	
32 x 1,5	65 x 18	1	**12065**32X15	
32 x 2	65 x 18	1	**12065**32X2	
32 x 3	65 x 25	1	**12065**32X3	
33 x 1,5	65 x 18	1	**12065**33X15	
33 x 2	65 x 18	1	**12065**33X2	
33 x 3	65 x 25	1	**12065**33X3	
34 x 1	65 x 18	1	**12065**34X1	
34 x 1,5	65 x 18	1	**12065**34X15	
34 x 2	65 x 18	1	**12065**34X2	
35 x 1	65 x 18	1	**12065**35X1	
35 x 1,5	65 x 18	1	**12065**35X15	
35 x 2	65 x 18	1	**12065**35X2	
36 x 1	65 x 18	1	**12065**36X1	
36 x 1,5	65 x 18	1	**12065**36X15	
36 x 2	65 x 18	1	**12065**36X2	
36 x 3	65 x 25	1	**12065**36X3	
37 x 1,5	65 x 18	1	**12065**37X15	
38 x 1	75 x 20	1	**12065**38X1	
38 x 1,5	75 x 20	1	**12065**38X15	
38 x 2	75 x 20	1	**12065**38X2	
38 x 3	75 x 30	1	**12065**38X3	
39 x 1,5	75 x 20	1	**12065**39X15	
39 x 2	75 x 20	1	**12065**39X2	
39 x 3	75 x 30	1	**12065**39X3	
40 x 1	75 x 20	1	**12065**40X1	
40 x 1,5	75 x 20	1	**12065**40X15	
40 x 2	75 x 20	1	**12065**40X2	
40 x 3	75 x 30	1	**12065**40X3	
42 x 1	75 x 20	1	**12065**42X1	
42 x 1,5	75 x 20	1	**12065**42X15	
42 x 2	75 x 20	1	**12065**42X2	
42 x 3	75 x 30	1	**12065**42X3	
44 x 1,5	90 x 22	1	**12065**44X15	
44 x 2	90 x 22	1	**12065**44X2	
45 x 1	90 x 22	1	**12065**45X1	
45 x 1,5	90 x 22	1	**12065**45X15	
45 x 2	90 x 22	1	**12065**45X2	
45 x 3	90 x 36	1	**12065**45X3	
46 x 1,5	90 x 22	1	**12065**46X15	
48 x 1	90 x 22	1	**12065**48X1	
48 x 1,5	90 x 22	1	**12065**48X15	
48 x 2	90 x 22	1	**12065**48X2	
48 x 3	90 x 36	1	**12065**48X3	
50 x 1,5	90 x 22	1	**12065**50X15	
50 x 2	90 x 22	1	**12065**50X2	
50 x 3	90 x 36	1	**12065**50X3	

Ø	D x h	pcs.	cod.	cad / each €
52 x 1,5	90 x 22	1	**12065**52X15	
52 x 2	90 x 22	1	**12065**52X2	consultare listino
52 x 3	90 x 36	1	**12065**52X3	*see price list*
54 x 1	105 x 22	1	**12065**54X1	
54 x 1,5	105 x 22		**12065**54X15	
54 x 2	105 x 22	1	**12065**54X2	
54 x 3	105 x 36	1	**12065**54X3	
54 x 4	105 x 36	1	**12065**54X4	
55 x 1,5	105 x 22	1	**12065**55X15	
55 x 2	105 x 22	1	**12065**55X2	
55 x 3	105 x 36	1	**12065**55X3	
55 x 4	105 x 36	1	**12065**55X4	
56 x 1	105 x 22	1	**12065**56X1	
56 x 1,5	105 x 22	1	**12065**56X15	
56 x 2	105 x 22	1	**12065**56X2	
56 x 3	105 x 36	1	**12065**56X3	
56 x 4	105 x 36	1	**12065**56X4	
58 x 1	105 x 22	1	**12065**58X1	
58 x 1,5	105 x 22	1	**12065**58X15	
58 x 2	105 x 22	1	**12065**58X2	
58 x 3	105 x 36	1	**12065**58X3	
58 x 4	105 x 36	1	**12065**58X4	
60 x 1,5	105 x 22	1	**12065**60X15	
60 x 2	105 x 22	1	**12065**60X2	
60 x 3	105 x 36	1	**12065**60X3	
60 x 4	105 x 36	1	**12065**60X4	
62 x 1,5	105 x 22	1	**12065**62X15	
62 x 2	105 x 22	1	**12065**62X2	
62 x 3	105 x 36	1	**12065**62X3	
62 x 4	105 x 36	1	**12065**62X4	
63 x 1,5	105 x 22	1	**12065**63X15	
64 x 1,5	120 x 22	1	**12065**64X15	
64 x 2	120 x 22	1	**12065**64X2	
64 x 3	120 x 36	1	**12065**64X3	
64 x 4	120 x 36	1	**12065**64X4	
65 x 1,5	120 x 22	1	**12065**65X15	
65 x 2	120 x 22	1	**12065**65X2	
65 x 3	120 x 36	1	**12065**65X3	
65 x 4	120 x 36	1	**12065**65X4	
68 x 1,5	120 x 22	1	**12065**68X15	
68 x 2	120 x 22	1	**12065**68X2	
68 x 3	120 x 36	1	**12065**68X3	
68 x 4	120 x 36	1	**12065**68X4	
70 x 1,5	120 x 22	1	**12065**70X15	
70 x 2	120 x 22	1	**12065**70X2	
70 x 3	120 x 36	1	**12065**70X3	
70 x 4	120 x 36	1	**12065**70X4	
72 x 1,5	120 x 22	1	**12065**72X15	
72 x 2	120 x 22	1	**12065**72X2	
72 x 3	120 x 36	1	**12065**72X3	
72 x 4	120 x 36	1	**12065**72X4	
74 x 1,5	120 x 22	1	**12065**74X15	
74 x 2	120 x 22	1	**12065**74X2	
74 x 3	120 x 36	1	**12065**74X3	
74 x 4	120 x 36	1	**12065**74X4	
75 x 1,5	120 x 22	1	**12065**75X15	
75 x 2	120 x 22	1	**12065**75X2	
75 x 3	120 x 36	1	**12065**75X3	
75 x 4	120 x 36	1	**12065**75X4	
76 x 1,5	120 x 22	1	**12065**76X15	
76 x 2	120 x 22	1	**12065**76X2	
76 x 3	120 x 36	1	**12065**76X3	
76 x 4	120 x 36	1	**12065**76X4	
78 x 1,5	120 x 22	1	**12065**78X15	
78 x 2	120 x 22	1	**12065**78X2	
78 x 3	120 x 36	1	**12065**78X3	
78 x 4	120 x 36	1	**12065**78X4	
80 x 1,5	120 x 22	1	**12065**80X15	
80 x 2	120 x 22	1	**12065**80X2	
80 x 3	120 x 36	1	**12065**80X3	
80 x 4	120 x 36	1	**12065**80X4	
82 x 1,5	130 x 25	1	**12065**82X15	
82 x 2	130 x 25	1	**12065**82X2	
82 x 3	130 x 36	1	**12065**82X3	
82 x 4	130 x 36	1	**12065**82X4	
82 x 1,5	130 x 25	1	**12065**82X15	
82 x 2	130 x 25	1	**12065**82X2	
82 x 3	130 x 36	1	**12065**82X3	
82 x 4	130 x 36	1	**12065**82X4	

FILIERE TONDE IN HSS SINISTRE, FILETTATURA METRICA A PASSO FINE

EN *Round dies, metric fine thread, left hand*
FR *Filières rondes, filetage métrique à pas fin, gauche*
ESP *Cojinetes redondos, rosca metrica fina izquierda*
PT *Caçonetes redondos, rosca métrica fina, mão esquerda*

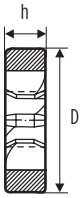
12072 | **HSS-G** | **MF**

SINISTRE
Left hand

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





Ø M37 X 1,5÷48 X 3
Su richiesta / *On demand*

DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
M	**3** x 0,35	20 x 5	1	**12072**03X035	consultare listino
	4 x 0,5	20 x 5	1	**12072**04X05	*see price list*
	4,5 x 0,5	20 x 5	1	**12072**045X05	
	5 x 0,75	20 x 7	1	**12072**05X075	
	5,5 x 0,5	20 x 5	1	**12072**055X05	
	6 x 0,5	20 x 5	1	**12072**06X05	
	6 x 0,75	20 x 7	1	**12072**06X075	
	7 x 0,5	25 x 9	1	**12072**07X05	
	7 x 0,75	25 x 9	1	**12072**07X075	
	8 x 0,75	25 x 9	1	**12072**08X075	
	8 x 1	25 x 9	1	**12072**08X1	
	9 x 0,5	25 x 9	1	**12072**09X05	
	10 x 1	30 x 11	1	**12072**10X1	
	10 x 1,25	30 x 11	1	**12072**10X125	
	12 x 1	38 x 10	1	**12072**12X1	
	12 x 1,25	38 x 10	1	**12072**12X125	
	12 x 1,5	38 x 10	1	**12072**12X15	
	13 x 1,5	38 x 10	1	**12072**13X15	
	14 x 1	38 x 10	1	**12072**14X1	
	14 x 1,25	38 x 10	1	**12072**14X125	
	14 x 1,5	38 x 10	1	**12072**14X15	
	15 x 1,5	38 x 10	1	**12072**15X15	
	16 x 1	45 x 14	1	**12072**16X1	
	16 x 1,25	45 x 14	1	**12072**16X125	
	16 x 1,5	45 x 14	1	**12072**16X15	
	18 x 1	45 x 14	1	**12072**18X1	
	18 x 1,25	45 x 14	1	**12072**18X125	
	18 x 1,5	45 x 14	1	**12072**18X15	
	18 x 2	45 x 14	1	**12072**18X2	
	20 x 1,25	45 x 14	1	**12072**20X125	
	20 x 1,5	45 x 14	1	**12072**20X15	
	20 x 2	45 x 14	1	**12072**20X2	
	22 x 1,25	55 x 16	1	**12072**22X125	
	22 x 1,5	55 x 16	1	**12072**22X15	
	22 x 2	55 x 16	1	**12072**22X2	
	23 x 1,5	55 x 16	1	**12072**23X15	
	24 x 1,25	55 x 16	1	**12072**24X125	
	24 x 1,5	55 x 16	1	**12072**24X15	
	24 x 2	55 x 16	1	**12072**24X2	
	25 x 1,5	55 x 16	1	**12072**25X15	
	25 x 2	55 x 16	1	**12072**25X2	
	26 x 1,5	55 x 16	1	**12072**26X15	
	26 x 2	55 x 16	1	**12072**26X2	
	27 x 1,5	65 x 18	1	**12072**27X15	
	27 x 2	65 x 18	1	**12072**27X2	
	28 x 1,5	65 x 18	1	**12072**28X15	
	28 x 2	65 x 18	1	**12072**28X2	
	30 x 1,5	65 x 18	1	**12072**30X15	
	30 x 2	65 x 18	1	**12072**30X2	
	30 x 2,5	65 x 18	1	**12072**30X25	
	30 x 3	65 x 25	1	**12072**30X3	
	32 x 1,5	65 x 18	1	**12072**32X15	
	32 x 2	65 x 18	1	**12072**32X2	
	32 x 3	65 x 25	1	**12072**32X3	
	33 x 1,5	65 x 18	1	**12072**33X15	
	33 x 2	65 x 18	1	**12072**33X2	
	33 x 3	65 x 18	1	**12072**33X3	
	34 x 1,5	65 x 18	1	**12072**34X15	
	34 x 2	65 x 18	1	**12072**34X2	
	35 x 1,5	65 x 25	1	**12072**35X15	
	35 x 2	65 x 18	1	**12072**35X2	
	36 x 1,5	65 x 18	1	**12072**36X15	
	36 x 2	65 x 18	1	**12072**36X2	
	36 x 3	65 x 18	1	**12072**36X3	

R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

FILIERE TONDE IN HSS NON A NORMA DIN, FILETTATURA METRICA A PASSO FINE

EN *Round dies with special outside diameter*
FR *Filières rondes, avec diamètre exterieur spécial*
ESP *Cojinetes redondos con diametro exterior special*
PT *Caçonetes redondos com diâmetro exterior especial*

12066 | **HSS-G** | **MF**

DIAMETRO ESTERNO SPECIALE
Special outside diameter

Filiere con Ø esterno speciale
Round dies with special outside diameter



6g NON A NORMA DIN

	Ø	D x h	pcs.	cod.	cad / each €
MF	**8** x 1	25 x 9	1	**12066**208X1	consultare listino
	10 x 1	38 x 14	1	**12066**310X1	*see price list*
	10 x 1,25	38 x 14	1	**12066**310X125	
	12 x 1,25	38 x 14	1	**12066**312X125	
	12 x 1,5	38 x 14	1	**12066**312X15	
	14 x 1,25	38 x 14	1	**12066**314X125	
	14 x 1,5	38 x 14	1	**12066**314X15	
	16 x 1,5	38 x 14	1	**12066**316X15	
	18 x 1,5	38 x 14	1	**12066**318X15	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS, FILETTATURA METRICA A PASSO FINE PER TUBI DI CONDUZIONE ELETTRICA

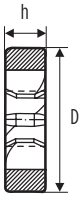
EN *Round dies, metric fine thread for cables connections*
FR *Filières rondes métrique à pas fin pour tubes avec armature en acier*
ESP *Cojinetes redondos rosca metrica fina para tubos de conducción eléctrica*
PT *Caçonetes redondos, rosca fina métrica para ligações de cabos*

12069 | **HSS-G** | **MF**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point

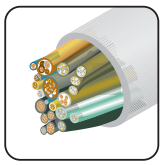




DIN 223 - EN 22568 6g

	Ø	D x h	pcs.	cod.	cad / each €
MF	**12** x 1,5	38 x 10	1	**12069**12X15	consultare listino
	16 x 1,5	45 x 14	1	**12069**16X15	*see price list*
	20 x 1,5	45 x 14	1	**12069**20X15	
	25 x 1,5	55 x 16	1	**12069**25X15	
	32 x 1,5	65 x 18	1	**12069**32X15	
	40 x 1,5	75 x 20	1	**12069**40X15	
	50 x 1,5	90 x 22	1	**12069**50X15	
	63 x 1,5	105 x 22	1	**12069**63X15	

Per tubi di conduzione elettrica
For electrical conduction tubes



R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE ESAGONALI IN HSS, FILETTAURA METRICA ISO A PASSO FINE

EN *Hexagonal round dies, metric fine thread*
FR *Filières hexagonales*
ESP *Cojinetes hexagonales*
PT *Caçonetes redondos hexagonais, rosca métrica fina*

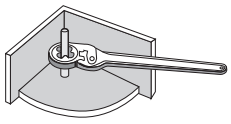
12096 | **HSS-G** | **MF**

ESAGONALI
Hexagonal



DIN 382 6g

	Ø	D x h	pcs.	cod.	cad / each €
MF	**3** x 0,35	19 x 5	1	**12096**03x035	consultare listino
	4 x 0,35	19 x 5	1	**12096**04x035	*see price list*
	4 x 0,5	19 x 5	1	**12096**04x05	
	5 x 0,5	19 x 5	1	**12096**05x05	
	5 x 0,75	19 x 7	1	**12096**05x075	
	6 x 0,5	19 x 5	1	**12096**06x05	
	6 x 0,75	19 x 7	1	**12096**06x075	
	7 x 0,75	22 x 9	1	**12096**07x075	
	8 x 0,5	22 x 9	1	**12096**08x05	
	8 x 0,75	22 x 9	1	**12096**08x075	
	8 x 1	22 x 9	1	**12096**08x1	
	9 x 0,75	22 x 9	1	**12096**09x075	
	9 x 1	22 x 9	1	**12096**09x1	
	10 x 0,75	27 x 11	1	**12096**10x075	
	10 x 1	27 x 11	1	**12096**10x1	
	10 x 1,25	27 x 11	1	**12096**10x125	
	11 x 1	27 x 11	1	**12096**11x1	
	11 x 1,25	27 x 11	1	**12096**11x125	
	12 x 0,75	36 x 10	1	**12096**12x075	
	12 x 1	36 x 10	1	**12096**12x1	
	12 x 1,25	36 x 10	1	**12096**12x125	
	12 x 1,5	36 x 10	1	**12096**12x15	
	13 x 1	36 x 10	1	**12096**13x1	
	13 x 1,5	36 x 10	1	**12096**13x15	
	14 x 0,75	36 x 10	1	**12096**14x075	
	14 x 1	36 x 10	1	**12096**14x1	
	14 x 1,25	36 x 10	1	**12096**14x125	
	14 x 1,5	36 x 10	1	**12096**14x15	
	15 x 1	36 x 10	1	**12096**15x1	
	15 x 1,5	36 x 10	1	**12096**15x15	
	16 x 1	41 x 14	1	**12096**16x1	
	16 x 1,25	41 x 14	1	**12096**16x125	
	16 x 1,5	41 x 14	1	**12096**16x15	
	18 x 1	41 x 14	1	**12096**18x1	
	18 x 1,25	41 x 14	1	**12096**18x125	
	18 x 1,5	41 x 14	1	**12096**18x15	
	18 x 2	41 x 14	1	**12096**18x2	
	20 x 1	41 x 14	1	**12096**20x1	
	20 x 1,25	41 x 14	1	**12096**20x125	
	20 x 1,5	41 x 14	1	**12096**20x15	
	20 x 2	41 x 14	1	**12096**20x2	



Per generare nuovi filetti e ripassare filettature danneggiate in punti di difficile accesso.
To generate new threads and overhaul the damaged ones.

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA GAS CILINDRICA ISO 228

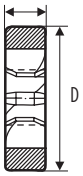
EN *Spiral point round dies, spiral point, BSP pipe thread ISO 228*
FR *Filières rondes, entrée gun, pour filetage gaz de tuyauterie ISO 228*
ESP *Cojinetes redondos, entrada corregida, rosca gas cilindrica ISO 228*
PT *Caçonetes redondos de ponta em espiral, ponta em espiral, rosca de tubo bsp ISO 228*

12075 | **HSS-G** | **BSPP (GAS)**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 5158 - EN 24231

	Ø	D x h	pcs.	cod.	cad / each €
G	**1/8"** x 28	30 x 11	1	**120751**/8	consultare listino
	1/4" x 19	38 x 10	1	**120751**/4	*see price list*
	3/8" x 19	45 x 14	1	**120753**/8	
	1/2" x 14	45 x 14	1	**120751**/2	
	5/8" x 14	55 x 16	1	**120755**/8	
	3/4" x 14	55 x 16	1	**120753**/4	
	7/8" x 14	65 x 18	1	**120757**/8	
	1" x 11	65 x 18	1	**120751**	
	1-1/8" x 11	75 x 20	1	**120751**.1/8	
	1-1/4" x 11	75 x 20	1	**120751**.1/4	
	1-3/8" x 11	90 x 22	1	**120751**.3/8	
	1-1/2" x 11	90 x 22	1	**120751**.1/2	
	1-5/8" x 11	90 x 22	1	**120751**.5/8	
	1-3/4" x 11	90 x 22	1	**120751**.3/4	
	1-3/4" x 11	105 x 22	1	**120751**.3/4105	
	2" x 11	90 x 22	1	**120759**2	
	2" x 11	105 x 22	1	**120751**2	
	2-1/4" x 11	105 x 22	1	**120752**.1/4	
	2-1/2" x 11	120 x 22	1	**120752**.1/2	
	2-3/4" x 11	120 x 22	1	**120752**.3/4	
	3" x 11	130 x 25	1	**120753**	
	3-1/2" x 11	150 x 25	1	**120753**.1/2	
	4" x 11	160 x 25	1	**120754**	

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA SINISTRA GAS CILINDRICA ISO 228

EN *Spiral point round dies, spiral point, BSP pipe thread ISO 228, left hand*
FR *Filières rondes, entrée gun, pour filetage gaz de tuyauterie ISO 228, gauche*
ESP *Cojinetes redondos, entrada corregida, rosca gas cilindrica ISO 228 izquierda*
PT *Caçonetes redondos de ponta em espiral, ponta em espiral, rosca de tubo bsp ISO 228, mão esquerda*

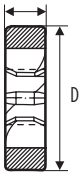
SINISTRE
Left hand

12077 | **HSS-G** | **BSPP (GAS)**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 5158 - EN 24231

	Ø	D x h	pcs.	cod.	cad / each €
G	**1/8"** x 28	30 x 11	1	**120771**/8	consultare listino
	1/4" x 19	38 x 10	1	**120771**/4	*see price list*
	3/8" x 19	45 x 14	1	**120773**/8	
	1/2" x 14	45 x 14	1	**120771**/2	
	5/8" x 14	55 x 16	1	**120775**/8	
	3/4" x 14	55 x 16	1	**120773**/4	
	7/8" x 14	65 x 18	1	**120777**/8	
	1" x 11	65 x 18	1	**120771**	
	1-1/8" x 11	75 x 20	1	**120771**.1/8	
	1-1/4" x 11	75 x 20	1	**120771**.1/4	
	1-1/2" x 11	90 x 22	1	**120771**.1/2	
	1-3/4" x 11	105 x 22	1	**120771**.3/4	
	2" x 11	105 x 22	1	**120772**	

FILIERE IN HSS ESAGONALI FILETTURA BSPP (GAS)

EN *Hexagonal round dies BSPP pipe thread*
FR *Filières hexagonales*
ESP *Cojinetes hexagonales*
PT *Caçonetes redondos hexagonais, rosca de tubo BSPP*

12098 | **HSS-G** | **BSPP (GAS)**

ESAGONALI
Hexagonal

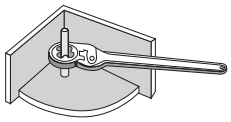


DIN 382

	Ø	D x h	pcs.	cod.	cad / each €
G	**1/8"** x 28	27 x 11	1	**120981**/8	consultare listino
	1/4" x 19	36 x 10	1	**120981**/4	*see price list*
	3/8" x 19	41 x 14	1	**120983**/8	
	1/2" x 14	41 x 14	1	**120981**/2	
	5/8" x 14	50 x 16	1	**120985**/8	
	3/4" x 14	50 x 16	1	**120983**/4	
	7/8" x 14	60 x 18	1	**120987**/8	
	1" x 11	60 x 18	1	**120981**	
	1-1/8" x 11	70 x 20	1	**120981**.1/8	
	1-1/2" x 11	85 x 22	1	**120981**.1/2	
	2" x 11	100 x 22	1	**120982**	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*



Per generare nuovi filetti e ripassare filettature danneggiate in punti di difficile accesso.
To generate new threads and overhaul the damaged ones.

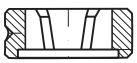
FILIERE TONDE IN HSS, FILETTATURA CONICA PER TUBI 1:16 BSPT

EN *Round dies, Whitworth taper thread 1:16 BSPT*
FR *Filières rondes, filetage gaz de tuyauterie BSPT*
ESP *Cojinetes redondos, rosca gas conica BSPT*
PT *Caçonetes redondos, rosca cónica Whitworth 1:16 BSPT*

12089 | **HSS-G** | **BSPT**

CONICI 1:16
Taper 1:16





Conicità 1:16
Taper 1:16

	Ø	D x h	pcs.	cod.	cad / each €
Rc	**1/8"** x 28	30 x 11	1	**120891**/8	consultare listino
	1/4" x 19	38 x 14	1	**120891**/4	*see price list*
	3/8" x 19	45 x 18	1	**120893**/8	
	1/2" x 14	45 x 18	1	**120891**/2	
	3/4" x 14	55 x 22	1	**120893**/4	
	1" x 11	65 x 25	1	**120891**	
	1-1/4" x 11	75 x 26	1	**120891**.1/4	
	1-1/2" x 11	90 x 27	1	**120891**.1/2	
	2" x 11	105 x 28	1	**120892**	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA WHITWORTH A PASSO FINE

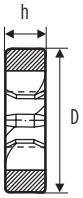
EN *Round dies, spiral point, Whitworth BSF thread BS-84*
FR *Filières rondes, entrée gun, filetage Whitworth*
ESP *Cojinetes redondos, entrada corregida, rosca Whitworth*
PT *Caçonetes redondos ponta em espiral, rosca Whitworth BSF bs-84*

12087 | **HSS-G** | **BSF**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





DIN 223 - EN 22568

	Ø	D x h	pcs.	cod.	cad / each €
BSF	**3/16"** x 32	20 x 7	1	**120873**/16	consultare listino
	1/4" x 26	25 x 9	1	**120871**/4	*see price list*
	5/16" x 22	25 x 9	1	**120875**/16	
	3/8" x 20	30 x 11	1	**120873**/8	
	7/16" x 18	30 x 11	1	**120877**/16	
	1/2" x 16	38 x 10	1	**120871**/2	
	9/16" x 16	38 x 10	1	**120879**/16	
	5/8" x 14	45 x 14	1	**120875**/8	
	3/4" x 12	45 x 14	1	**120873**/4	
	7/8" x 11	55 x 22	1	**120877**/8	
	1" x 10	55 x 22	1	**120871**	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA WHITWORTH A PASSO GROSSO BS-84

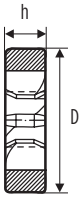
EN *Round dies, spiral point, Whitworth BSW thread BS-84*
FR *Filières rondes,, entrée gun, filetage Whitworth*
ESP *Cojinetes redondos, entrada corregida, rosca Whitworth*
PT *Caçonetes redondos, ponta em espiral, rosca Whitworth BSW bs-84*

12070 | **HSS-G** | **BSW**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





DIN 223 - EN 22568

	Ø	D x h	pcs.	cod.	cad / each €
BSW	**1/16"** x 60	16 x 5	1	**120701**/16	consultare listino
	3/32" x 48	16 x 5	1	**120703**/32	*see price list*
	1/8" x 40	20 x 5	1	**120701**/8	
	5/32" x 32	20 x 5	1	**120705**/32	
	3/16" x 24	20 x 7	1	**120703**/16	
	7/32" x 24	20 x 7	1	**120707**/32	
	1/4" x 20	25 x 9	1	**120701**/4	
	5/16" x 18	25 x 9	1	**120705**/16	
	3/8" x 16	30 x 11	1	**120703**/8	
	7/16" x 14	30 x 11	1	**120707**/16	
	1/2" x 12	38 x 14	1	**120701**/2	
	9/16" x 12	38 x 14	1	**120709**/16	
	5/8" x 11	45 x 18	1	**120705**/8	
	3/4" x 10	45 x 18	1	**120703**/4	
	7/8" x 9	55 x 22	1	**120707**/8	
	1" x 9	55 x 22	1	**120701**	
	1-1/8" x 7	65 x 25	1	**120701**.1/8	
	1-1/4" x 7	65 x 25	1	**120701**.1/4	
	1-3/8" x 6	65 x 25	1	**120701**.3/8	
	1-1/2" x 6	65 x 22	1	**120706**1.1/2	
	1-1/2" x 6	75 x 30	1	**120707**1.1/2	
	1-5/8" x 5	75 x 30	1	**120701**.5/8	
	1-3/4" x 5	90 x 36	1	**120701**.3/4	
	1-7/8" x 4,5	90 x 36	1	**120701**.7/8	
	2" x 4,5	90 x 36	1	**120702**	
	2-1/2" x 4	105 x 36	1	**120702**.1/2	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA SINISTRA WHITWORTH A PASSO GROSSO

EN *Round dies, spiral point, Whitworth BSW thread, left hand*
FR *Filières rondes, entrée gun, filetage à gauche Whitworth*
ESP *Cojinetes redondos, entrada corregida, rosca Whitworth*
PT *Caçonetes redondos, ponta em espiral, rosca whitworth esquerda bsw*

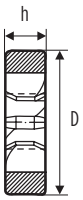
12088 | **HSS-G** | **BSW**

SINISTRE
Left hand



HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point



DIN 223 - EN 22568

	Ø	D x h	pcs.	cod.	cad / each €
BSW	**1/8"** x 40	20 x 5	1	**120881**/8	consultare listino
	5/32" x 32	20 x 5	1	**120885**/32	*see price list*
	3/16" x 24	20 x 7	1	**120883**/16	
	1/4" x 20	20 x 7	1	**120881**/4	
	5/16" x 18	25 x 9	1	**120885**/16	
	3/8" x 16	30 x 11	1	**120883**/8	
	7/16" x 14	30 x 11	1	**120887**/16	
	1/2" x 12	38 x 14	1	**120881**/2	
	9/16" x 12	38 x 14	1	**120889**/16	
	5/8" x 11	45 x 18	1	**120885**/8	
	3/4" x 10	45 x 18	1	**120883**/4	
	7/8" x 9	55 x 22	1	**120887**/8	
	1" x 8	55 x 22	1	**120881**	

R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

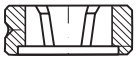
FILIERE TONDE IN HSS, FILETTATURA CONICA AMERICANA PER TUBI 1:16 NPT

EN *Round dies, taper pipe thread NPT*
FR *Filières rondes, filetage conique pour tubes NPT*
ESP *Cojinetes redondos, rosca conica americana NPT*
PT *Caçonetes redondos, rosca cónica para tubos NPT*

12091 | **HSS-G** | **NPT**

CONICI 1:16
Taper 1:16





Conicità 1:16
Taper 1:16

	Ø	D x h	pcs.	cod.	cad / each €
NPT	**1/8"** x 27	30 x 11	1	**120911**/8	consultare listino
	1/4" x 18	38 x 14	1	**120911**/4	*see price list*
	3/8" x 18	45 x 18	1	**120913**/8	
	1/2" x 14	45 x 18	1	**120911**/2	
	3/4" x 14	55 x 22	1	**120913**/4	
	1" x 11,5	65 x 25	1	**120911**	
	1-1/4" x 11,5	75 x 26	1	**120911**.1/4	
	1-1/2" x 11,5	90 x 27	1	**120911**.1/2	
	2" x 11,5	105 x 28	1	**120912**	

R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

FILIERE TONDE IN HSS A IMBOCCO CORRETTO, FILETTATURA AMERICANA UNC PASSO GROSSO ANSI B1.1

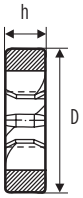
EN *Round dies, spiral point, unified coarse thread UNC*
FR *Filières rondes, filetage americain à pas gros UNC*
ESP *Cojinetes redondos, rosca unificada vasta UNC*
PT *Caçonetes redondos, ponta em espiral, rosca grossa unificada UNC*

12080 | **HSS-G** | **UNC**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 223 - EN 22568

	Ø	D x h	pcs.	cod.	cad / each €
N°	**4** x 40 (-1/8)	20 x 5	1	**12080**N04	consultare listino
	5 x 40 (-1/8)	20 x 5	1	**12080**N05	*see price list*
	6 x 32 (-9/64)	20 x 7	1	**12080**N06	
	8 x 32 (-5/32)	20 x 7	1	**12080**N08	
	10 x 24 (-3/16)	20 x 7	1	**12080**N10	
	12 x 24 (-7/32)	20 x 7	1	**12080**N12	
UNC	**1/4"** x 20	20 x 7	1	**12080**1/4	
	5/16" x 18	25 x 9	1	**12080**5/16	
	3/8" x 16	30 x 11	1	**12080**3/8	
	7/16" x 14	30 x 11	1	**12080**7/16	
	1/2" x 13	38 x 14	1	**12080**1/2	
	9/16" x 12	38 x 14	1	**12080**9/16	
	5/8" x 11	45 x 18	1	**12080**5/8	
	3/4" x 10	45 x 18	1	**12080**3/4	
	7/8" x 9	55 x 22	1	**12080**7/8	
	1" x 8	55 x 22	1	**12080**1	
	1-1/8" x 7	65 x 25	1	**12080**1.1/8	
	1-1/4" x 7	65 x 25	1	**12080**1.1/4	
	1-3/8" x 6	65 x 25	1	**12080**1.3/8	
	1-1/2" x 6	65 x 25	1	**12080**61.1/2	
	1-1/2" x 6	75 x 30	1	**12080**71.1/2	
	1-5/8" x 5	75 x 30	1	**12080**1.5/8	
	1-3/4" x 5	90 x 36	1	**12080**1.3/4	
	1-7/8" x 4,5	90 x 36	1	**12080**1.7/8	
	2" x 4,5	90 x 36	1	**120802**	

FILIERE TONDE IN HSS SINISTRE, FILETTATURA AMERICANA UNC PASSO GROSSO ANSI B1.1

EN *Round dies, spiral point, unified coarse thread UNC, left hand*
FR *Filières rondes, filetage à gauche americain à pas gros UNC*
ESP *Cojinetes redondos, rosca izquierda unificada vasta UNC*
PT *Caçonetes redondos, ponta em espiral, rosca esquerda grossa unificada UNC*

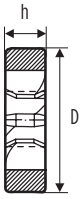
SINISTRE
Left hand

12082 | **HSS-G** | **UNC**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 223 - EN 22568

	Ø	D x h	pcs.	cod.	cad / each €
N°	**8** x 32 (-5/32)	20 x 7	1	**12082**NR08	consultare listino
	10 x 24 (-3/16)	20 x 7	1	**12082**NR10	*see price list*
UNC	**5/16"** x 18	25 x 9	1	**12082**5/16	
	3/8" x 16	30 x 11	1	**12082**3/8	
	7/16" x 14	38 x 14	1	**12082**7/16	
	1/2" x 13	38 x 14	1	**12082**1/2	
	9/16" x 12	38 x 14	1	**12082**9/16	
	5/8" x 11	45 x 18	1	**12082**5/8	
	3/4" x 10	45 x 18	1	**12082**3/4	
	7/8" x 9	55 x 22	1	**12082**7/8	
	1" x 8	55 x 22	1	**12082**1	

In esaurimento
Running out

FILIERE TONDE IN HSS, FILETTATURA AMERICANA UNF A PASSO FINE ANSI B1.1

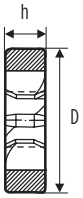
EN *Round dies, unified fine thread UNF*
FR *Filières rondes, filetage americain à pas fin*
ESP *Cojinetes redondos, rosca unificada fina UNF*
PT *Caçonetes redondos, desdobramento de rosca fina unificada*

12085 | **HSS-G** | **UNF**



HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point



R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

DIN 223 - EN 22568

	Ø	D x h	pcs.	cod.	cad / each €
N°	**2** x 64 (-3/32)	16 x 5	1	**12085**N02	consultare listino
	3 x 56 (-7/64)	16 x 5	1	**12085**N03	*see price list*
	4 x 48 (-1/8)	20 x 5	1	**12085**N04	
	5 x 44 (-1/8)	20 x 5	1	**12085**N05	
	6 x 40 (-9/64)	20 x 5	1	**12085**N06	
	8 x 36 (-5/32)	20 x 7	1	**12085**N08	
	10 x 32 (-3/16)	20 x 7	1	**12085**N10	
	12 x x28 (-7/32)	20 x 7	1	**12085**N12	
UNF	**1/4"** x 28	20 x 7	1	**12085**1/4	
	5/16" x 24	25 x 9	1	**12085**5/16	
	3/8" x 24	30 x 11	1	**12085**3/8	
	7/16" x 20	30 x 11	1	**12085**7/16	
	1/2" x 20	38 x 10	1	**12085**1/2	
	9/16" x 18	38 x 10	1	**12085**9/16	
	5/8" x 18	45 x 14	1	**12085**5/8	
	3/4" x 16	45 x 14	1	**12085**3/4	
	7/8" x 14	55 x 16	1	**12085**7/8	
	1" x 12	55 x 16	1	**12085**1X12	
*	**1"** x 14	55 x 16	1	**12085**1X14	
	1-1/8" x 12	65 x 18	1	**12085**1.1/8	
	1-1/4" x 12	65 x 18	1	**12085**1.1/4	
	1-3/8" x 12	65 x 18	1	**12085**1.3/8	
	1-1/2" x 12	65 x 18	1	**12085**61.1/2	
	1-1/2" x 12	75 x 20	1	**12085**71.1/2	

* Filettatura UNS / *UNS thread*

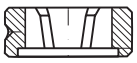
FILIERE TONDE IN HSS, FILETTATURA SINISTRA AMERICANA UNF A PASSO FINE ANSI B1.1

EN *Round dies, unified fine thread UNF, left hand*
FR *Filières rondes, filetage à gauche americain à pas fin*
ESP *Cojinetes redondos, rosca izquierda unificada fina UNF*
PT *Caçonetes redondos, desdobramento de rosca esquerda fina unificada*

SINISTRE
Left hand

12086 | **HSS-G** | **UNF**





Conicità 1:16
Taper 1:16

	Ø	D x h	pcs.	cod.	cad / each €
N°	**10** x 32 (-3/16)	20 x 7	1	**12086**NR10	consultare listino
UNF	**1/4"** x 28	20 x 7	1	**12086**1/4	*see price list*
	5/16" x 24	25 x 9	1	**12086**5/16	
	3/8" x 24	30 x 11	1	**12086**3/8	
	7/16" x 20	30 x 11	1	**12086**7/16	
	1/2" x 20	38 x 10	1	**12086**1/2	
	9/16" x 18	38 x 10	1	**12086**9/16	
	5/8" x 18	45 x 14	1	**12086**5/8	
	3/4" x 16	45 x 14	1	**12086**3/4	
	7/8" x 14	55 x 16	1	**12086**7/8	
	1" x 12	55 x 16	1	**12086**1	

R ≤ 800 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum*
Olio *Oil*

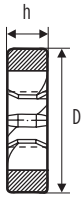
FILIERE TONDE IN HSS, FILETTATURA AMERICANA UNEF A PASSO EXTRAFINE ANSI B1.1

EN *Round dies, unified extrafine thread UNEF*
FR *Filières rondes, filetage americain à pas extrafin*
ESP *Cojinetes redondos, rosca unificada extrafina UNEF*
PT *Caçonetes redondos, rosca extrafina unificada UNEF*

12079 | **HSS-G** | **UNEF**

HV = 62÷63
HSS-G AISI M2
FORM B

Imbocco corretto
Spiral Point





DIN 223 - EN 22568

Ø	D x h	pcs.	cod.	cad / each €
UNEF **1/4"** x 32	20 x 7	1	**12079**1/4	consultare listino
3/8" x 32	30 x 11	1	**12079**3/8	*see price list*
1/2" x 28	38 x 10	1	**12079**1/2	
9/16" x 24	38 x 10	1	**12079**9/16	
5/8" x 24	45 x 14	1	**12079**5/8	
3/4" x 20	45 x 14	1	**12079**3/4	
7/8" x 20	55 x 16	1	**12079**7/8	
***1"** x 20	55 x 16	1	**12079**1	
***1-1/8"** x 18	65 x 18	1	**12079**1.1/8	

*In esaurimento
**Running out*

R ≤ 800 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum

Olio
Oil

FILIERE TONDE AL CV, FILETTATURA METRICA ISO A PASSO GROSSO

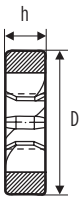
EN *C.V. round dies, metric coarse thread*
FR *Filieres ronde, filetage metrique*
ESP *Cojinetes redondos C.V., rosca metrica*
PT *C.V. caçonetes redondos, passo métrico grosso*

12001 | **C.V.** | **M**

HRC = 60÷61

Metrica passo grosso
Metric coarse pitch





UNI 4535 ≃ DIN 223

	Ø	D x h	pcs.	cod.	cad / each €
M	**2** x 0,4	25,4 x 9	5	**12001**202X04	consultare listino
	3 x 0,5	25,4 x 9	5	**12001**203X05	*see price list*
	4 x 0,7	25,4 x 9	5	**12001**204X07	
	5 x 0,8	25,4 x 9	5	**12001**205X08	
	6 x 1	25,4 x 9	5	**12001**206X1	
	6 x 1	38,1 x 14	5	**12001**306X1	
	7 x 1	25,4 x 9	5	**12001**207X1	
	8 x 1,25	25,4 x 9	5	**12001**208X125	
	8 x 1,25	38,1 x 14	5	**12001**308X125	
	9 x 1,25	25,4 x 9	5	**12001**209X125	
	10 x 1,5	25,4 x 9	5	**12001**210X15	
	10 x 1,5	38,1 x 14	5	**12001**310X15	
	11 x 1,5	38,1 x 14	5	**12001**311X15	
	12 x 1,75	25,4 x 9	5	**12001**212X175	
	12 x 1,75	38,1 x 14	5	**12001**312X175	
	14 x 2	38,1 x 14	5	**12001**314X2	
	16 x 2	38,1 x 14	5	**12001**316X2	
	16 x 2	50,8 x 16	2	**12001**516X2	
	18 x 2,5	38,1 x 14	5	**12001**318X25	
	18 x 2,5	50,8 x 16	2	**12001**518X25	
	20 x 2,5	38,1 x 14	5	**12001**320X25	
	20 x 2,5	50,8 x 16	2	**12001**520X25	
	22 x 2,5	50,8 x 16	2	**12001**522X25	
	24 x 3	50,8 x 16	2	**12001**524X3	
	27 x 3	63,5 x 19	1	**12001**627X3	
	30 x 3,5	63,5 x 19	1	**12001**630X35	
	33 x 3,5	63,5 x 19	1	**12001**633X35	
	36 x 4	63,5 x 19	1	**12001**636X4	

SELF ART. 12002
Su richiesta / *On demand*

000 **15037**



R ≤ 600 N/mm²

Metalli
Metals

Alluminio
Aluminum

Leghe leggere
Light alloys

Olio
Oil

FILIERE TONDE AL CV, FILETTATURA METRICA ISO A PASSO FINE

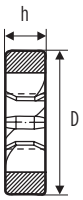
EN *C.V. round dies, metric fine thread*
FR *Filieres ronde, filetage metrique*
ESP *Cojinetes redondos C.V., rosca metrica*
PT *C.V. caçonetes redondos, passo métrico fine*

12005 | **C.V.** | **MF**

HRC = 60÷61

Metrica passo fine
Metric fine pitch





UNI 4535 ≃ DIN 223

	Ø	D x h	pcs.	cod.	cad / each €
M	**6** x 0,75	25,4 x 9	5	**12005**206X075	consultare listino
	7 x 0,75	25,4 x 9	5	**12005**207X075	*see price list*
	8 x 0,75	25,4 x 9	5	**12005**208X075	
	8 x 1	25,4 x 9	5	**12005**208X1	
	9 x 0,75	25,4 x 9	5	**12005**209X075	
	9 x 1	25,4 x 9	5	**12005**209X1	
	10 x 1,25	25,4 x 9	5	**12005**210X125	
	12 x 1,5	25,4 x 9	5	**12005**212X15	
	10 x 0,75	38,1 x 14	5	**12005**310X075	
	10 x 1	38,1 x 14	5	**12005**310X1	
	10 x 1,25	38,1 x 14	5	**12005**310X125	
	11 x 0,75	38,1 x 14	5	**12005**311X075	
	11 x 1	38,1 x 14	5	**12005**311X1	
	11 x 1,25	38,1 x 14	5	**12005**311X125	
	12 x 0,75	38,1 x 14	5	**12005**312X075	
	12 x 1	38,1 x 14	5	**12005**312X1	
	12 x 1,25	38,1 x 14	5	**12005**312X125	
	12 x 1,5	38,1 x 14	5	**12005**312X15	
	14 x 1	38,1 x 14	5	**12005**314X1	
	14 x 1,25	38,1 x 14	5	**12005**314X125	
	14 x 1,5	38,1 x 14	5	**12005**314X15	
	16 x 1	38,1 x 14	5	**12005**316X1	
	16 x 1,5	38,1 x 14	5	**12005**316X15	
	18 x 1,5	38,1 x 14	5	**12005**318X15	
	18 x 2	38,1 x 14	5	**12005**318X2	
	18 x 1,5	50,8 x 16	2	**12005**518X15	
	18 x 2	50,8 x 16	2	**12005**518X2	
	20 x 1,5	50,8 x 16	2	**12005**520X15	
	20 x 2	50,8 x 16	2	**12005**520X2	
	22 x 1,5	50,8 x 16	2	**12005**522X15	
	22 x 2	50,8 x 16	2	**12005**522X2	
	24 x 1,5	50,8 x 16	2	**12005**524X15	
	24 x 2	50,8 x 16	2	**12005**524X2	
	27 x 1,5	63,5 x 19	1	**12005**627X15	
	27 x 2	63,5 x 19	1	**12005**627X2	
	30 x 1,5	63,5 x 19	1	**12005**630X15	
	30 x 2	63,5 x 19	1	**12005**630X2	
	30 x 3	63,5 x 19	1	**12005**630X3	

R ≤ 600 N/mm²

Metalli
Metals

Alluminio
Aluminum

Leghe leggere
Light alloys

Olio
Oil

FILIERE TONDE AL CV, FILETTATURA GAS CILINDRICA PER TUBI BSPP

EN *Round dies, cylindrical BSPP thread*
FR *Filières rondes, filetage gaz cylindrique*
ESP *Cojinetes redondos, rosca gas BSPP*
PT *Caçonetes redondos, rosca cilíndrica BSPP*

12015 | **C.V.** | **BSPP (GAS)**



≃ DIN 223 (EN 24231)

	Ø	D x h	pcs.	cod.	cad / each €
G	**1/8"** x 28	38,1 x 14	5	**12015**31/8	consultare listino
	1/4" x 19	38,1 x 14	5	**12015**31/4	*see price list*
	3/8" x 19	38,1 x 14	5	**12015**33/8	
	3/8" x 19	50,8 x 16	2	**12015**53/8	
	1/2" x 14	50,8 x 16	2	**12015**51/2	
	3/4" x 14	50,8 x 16	2	**12015**53/4	
	1" x 11	63,5 x 19	1	**12015**61	
	1-1/4" x 11	75 x 20	1	**12015**71.1/4	
	1-1/2" x 11	75 x 20	1	**12015**71.1/2	
	2" x 11	105 x 22	1	**12015**12	

R ≤ 600 N/mm²

Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Olio *Oil*

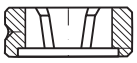
FILIERE TONDE AL CV, FILETTATURA GAS CONICA PER TUBI BSPT (CON 1:16)

EN *Round dies, BSPT taper thread (taper 1:16)*
FR *Filières rondes c.v. filetage conique pour tubes BSPT (avec 1:16)*
ESP *Peines redondos, rosca cónica BSPT (conicidad 1:16)*
PT *C.V. roscas redondas, rosca de gás cónica para tubos BSPT (com 1:16)*

12017 | **C.V.** | **BSPT**

CONICI 1:16
Taper 1:16





Conicità 1:16
Taper 1:16

≃ DIN 223 (EN 24230)

	Ø	D x h	pcs.	cod.	cad / each €
Rc	**1/8"** x 28	30 x 11	1	**12017**31/8	consultare listino
	1/4" x 19	38 x 14	1	**12017**31/4	*see price list*
	3/8" x 19	45 x 18	1	**12017**43/8	
	1/2" x 14	45 x 18	1	**12017**41/2	
	3/4" x 14	55 x 22	1	**12017**53/4	
	1" x 11	65 x 25	1	**12017**61	
	1-1/4" x 11	75 x 30	1	**12017**71.1/4	
	1-1/2" x 11	90 x 27	1	**12017**91.1/2	
	2" x 11	105 x 28	1	**12017**12	

In esaurimento
Running out

R ≤ 600 N/mm²

Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Olio *Oil*

FILIERE TONDE AL CV, FILETTATURA INGLESE WHITWORTH A PASSO GROSSO BSW

EN *Round dies, Whitworth thread BSW*
FR *Filières rondes, filetage Whitworth BSW*
ESP *Cojinetes redondos, rosca Whitworth BSW*
PT *Caçonetes redondos, rosca whitworth BSW*

12010 | **C.V.** | **BSW**



≃ DIN 223 (EN 22568)

	Ø	D x h	pcs.	cod.	cad / each €
G	**1/8"** x 40	25,4 x 9	5	**12010**21/8	consultare listino
	5/32" x 32	25,4 x 9	5	**12010**25/32	*see price list*
	3/16" x 24	25,4 x 9	5	**12010**23/16	
	1/4" x 20	25,4 x 9	5	**12010**21/4	
	5/16" x 18	25,4 x 9	5	**12010**25/16	
	3/8" x 16	38,1 x 14	5	**12010**33/8	
	7/16" x 14	38,1 x 14	5	**12010**37/16	
	1/2" x 12	38,1 x 14	5	**12010**31/2	
	9/16" x 12	38,1 x 14	5	**12010**39/16	
	5/8" x 11	50,8 x 16	2	**12010**55/8	
	3/4" x 10	50,8 x 16	2	**12010**53/4	
	7/8" x 9	50,8 x 16	2	**12010**57/8	
	1" x 8	50,8 x 16	2	**12010**51	
	1-1/8" x 7	63,5 x 19	1	**12010**61.1/8	
	1-1/4" x 7	63,5 x 19	1	**12010**61.1/4	
	1-3/8" x 6	63,5 x 19	1	**12010**61.3/8	
	1-1/2" x 6	63,5 x 19	1	**12010**61.1/2	
	1-3/4" x 5	90 x 36	1	**12010**91.3/4	
	2" x 4,5	90 x 36	1	**12010**92	

R ≤ 600 N/mm²

Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Olio *Oil*

FILIERE TONDE AL CV, FILETTATURA INGLESE WHITWORTH A PASSO FINE BSF

EN *Round dies, Whitworth thread BSF*
FR *Filières rondes, filetage Whitworth BSF*
ESP *Cojinetes redondos, rosca Whitworth BSF*
PT *Caçonetes redondos, rosca whitworth BSF*

12012 | **C.V.** | **BSF**



≃ DIN 223 (EN 22568)

	Ø	D x h	pcs.	cod.	cad / each €
BSF	**3/16"** x 32	25,4 x 9	5	**12012**23/16	consultare listino
	1/4" x 26	25,4 x 9	5	**12012**21/4	*see price list*
	5/16" x 22	25,4 x 9	5	**12012**25/16	
	3/8" x 20	38,1 x 14	5	**12012**33/8	
	7/16" x 18	38,1 x 14	5	**12012**37/16	
	1/2" x 16	38,1 x 14	5	**12012**31/2	
	9/16" x 16	38,1 x 14	5	**12012**39/16	
	5/8" x 14	50,8 x 16	2	**12012**55/8	
	3/4" x 12	50,8 x 16	2	**12012**53/4	
	7/8" x 11	50,8 x 16	2	**12012**57/8	
	1" x 10	50,8 x 16	2	**12012**51	

In esaurimento *Running out*

R ≤ 600 N/mm²

Metalli *Metals*
Alluminio *Aluminum*
Leghe leggere *Light alloys*
Olio *Oil*

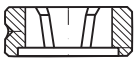
FILIERE TONDE AL CV, FILETTATURA CONICA AMERICANA PER TUBI NPT ANSI B 2.1

EN *Round dies, NPT taper thread*
FR *Filières rondes, filetage conique NPT*
ESP *Cojinetes redondos, rosca conica NPT*
PT *Caçonetes redondos, rosca cónica NPT*

12032 | **C.V.** | **NPT**

CONICI 1:16
Taper 1:16





Conicità 1:16
Taper 1:16

≃ DIN 223 (EN 24231)

	Ø	D x h	pcs.	cod.	cad / each €
NPT	**1/8"** x 27	30 x 11	1	**12032**31/8	consultare listino
	1/4" x 18	38 x 14	1	**12032**31/4	*see price list*
	3/8" x 18	45 x 18	1	**12032**43/8	
	1/2" x 14	45 x 18	1	**12032**41/2	
	3/4" x 14	55 x 22	1	**12032**53/4	
	1" x 11-1/2	65 x 25	1	**12032**61	
	1-1/4" x 11-1/2	75 x 26	1	**12032**71.1/4	
	1-1/2" x 11-1/2	90 x 27	1	**12032**91.1/2	
	2" x 11-1/2	105 x 28	1	**12032**12	

R ≤ 600 N/mm²

Metalli
Metals

Alluminio
Aluminum

Leghe leggere
Light alloys

Olio
Oil

FILIERE TONDE AL CV, FILETTATURA AMERICANA A PASSO GROSSO UNC

EN *Round dies, UNC coarse thread*
FR *Filières rondes, filetage UNC*
ESP *Cojinetes redondos, rosca UNC*
PT *Caçonetes redondos, rosca UNC*

12020 | **C.V.** | **UNC**



≃ DIN 223 (EN 22568)

	Ø	D x h	pcs.	cod.	cad / each €
N°	**5** x 40 (-1/8)	25,4 x 9	5	**12020**N05	consultare listino
	6 x 32 (-9/64)	25,4 x 9	5	**12020**N06	*see price list*
	8 x 32 (-5/32)	25,4 x 9	5	**12020**N08	
	10 x 24 (-3/16)	25,4 x 9	5	**12020**N10	
	12 x 24 (-7/32)	25,4 x 9	5	**12020**N12	
UNC	**1/4"** x 20	25,4 x 9	5	**12020**21/4	
	5/16" x 18	25,4 x 9	5	**12020**25/16	
	3/8" x 16	38,1 x 14	5	**12020**33/8	
	7/16" x 14	38,1 x 14	5	**12020**37/16	
	1/2" x 13	38,1 x 14	5	**12020**31/2	
	9/16" x 12	38,1 x 14	5	**12020**39/16	
	5/8" x 11	50,8 x 16	2	**12020**55/8	
	3/4" x 10	50,8 x 16	2	**12020**53/4	
	7/8" x 9	50,8 x 16	2	**12020**57/8	
	1" x 8	50,8 x 16	2	**12020**51	
	1-1/8" x 7	63,5 x 19	1	**12020**61.1/8	
	1-1/4" x 7	63,5 x 19	1	**12020**61.1/4	
	1-3/8" x 6	63,5 x 19	1	**12020**61.3/8	
	1-1/2" x 6	63,5 x 19	1	**12020**61.1/2	

R ≤ 600 N/mm²

Metalli
Metals

Alluminio
Aluminum

Leghe leggere
Light alloys

Olio
Oil

FILIERE TONDE AL CV, FILETTATURA AMERICANA A PASSO FINE UNF

EN *Round dies, UNF FINE thread*
FR *Filières rondes, filetage UNC*
ESP *Cojinetes redondos, rosca UNC*
PT *Caçonetes redondos, rosca UNC*

12025 | **C.V.** | **UNF**



≃ DIN 223 (EN 22568)

	Ø	D x h	pcs.	cod.	cad / each €
N°	**5** x 44 (-1/8)	25,4 x 9	5	**12025**N05	consultare listino
	6 x 40 (-9/64)	25,4 x 9	5	**12025**N06	*see price list*
	8 x 36 (-5/32)	25,4 x 9	5	**12025**N08	
	10 x 32 (-3/16)	25,4 x 9	5	**12025**N10	
	12 x 28 (-7/32)	25,4 x 9	5	**12025**N12	
UNF	**1/4"** x 28	25,4 x 9	5	**12025**21/4	
	5/16" x 24	25,4 x 9	5	**12025**25/16	
	3/8" x 24	38,1 x 14	5	**12025**33/8	
	7/16" x 20	38,1 x 14	5	**12025**37/16	
	1/2" x 20	38,1 x 14	5	**12025**31/2	
	9/16" x 18	38,1 x 14	5	**12025**39/16	
	5/8" x 18	50,8 x 16	2	**12025**55/8	
	3/4" x 16	50,8 x 16	2	**12025**53/4	
	7/8" x 14	50,8 x 16	2	**12025**57/8	
	1" x 12	50,8 x 16	2	**12025**51	
	1-1/8" x 12	63,5 x 19	1	**12025**61.1/8	
	1-1/4" x 12	63,5 x 19	1	**12025**61.1/4	
	1-3/8" x 12	63,5 x 19	1	**12025**61.3/8	
	1-1/2" x 12	63,5 x 19	1	**12025**61.1/2	

R ≤ 600 N/mm²

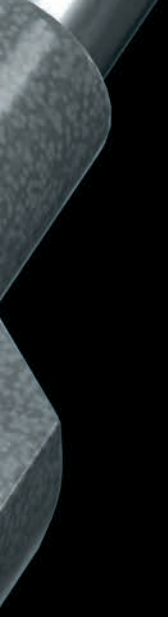
Metalli *Metals*

Alluminio *Aluminum*

Leghe leggere *Light alloys*

Olio *Oil*


KRINO®
No.2 M4-12



ACCESSORI PER UTENSILI A FILETTARE

Threading tools accessories

Outils a fileter accessoires

Herramientas de roscado accesorios

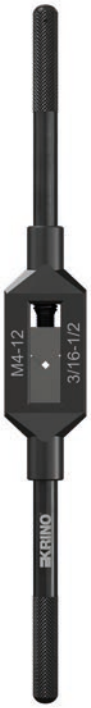
Ferramentas de roscar acessórios

GIRAMASCHI ESTENSIBILI, MODELLO AMERICANO

EN *Adjustable tap wrenches*
FR *Tourne à gauche extensible*
ESP *Giramachos ayustables*
PT *Chaves de macho ajustáveis*

15003

ACCIAIO
Steel



DIN 1814

Gr. N.	Per maschi / *for taps* M	BSW-UNC-UNF	BSP-NPT	L	cod.	cad / each €
0	1 ÷ 8	1/16 ÷ 1/4		170	**15003**00	consultare listino
1	1 ÷ 10	1/16 ÷ 3/8	1/8	200	**15003**01	*see price list*
1-1/2	1 ÷ 12	1/16 ÷ 1/2	1/8	200	**15003**01.1/2	
2	4 ÷ 12	5/32 ÷ 1/2	1/8	260	**15003**02	
3	5 ÷ 20	7/32 ÷ 3/4	1/8 ÷ 1/2	345	**15003**03	
4	9 ÷ 27	7/16 ÷ 1	1/4 ÷ 3/4	430	**15003**04	
5	13 ÷ 32	1/2 ÷ 1-1/4	1/4 ÷ 1”	770	**15003**05	
7	25 ÷ 52	1 ÷ 2-1/8	3/4 ÷ 2-1/4	1000	**15003**07	
8	25 ÷ 64	1 ÷ 2-1/2	3/4 ÷ 3”	1200	**15003**08	

PROLUNGA PER MASCHI

EN *Tap extension*
FR *Rallonge de robinet*
ESP *Prolungador para machos*
PT *Extensão de tap*

10098



DIN 377

Quadro *Square* mm	L	Per maschi *for taps* DIN 352	cod.	cad each €
2.1	60	M 1-2.6	**10098**021	consultare
2.4	70		**10098**024	listino
2.7	80	M 3	**10098**027	*see price list*
3.0	90	M 3.5	**10098**030	
3.4	95	M 4	**10098**034	
3.8	100		**10098**038	
4.3	105		**10098**043	
4.9	110	M 4.5-8	**10098**049	
5.5	115	M 9-10	**10098**055	
6.2	120	M 11	**10098**062	
7.0	125	M 12	**10098**070	
8.0	125		**10098**080	
9.0	130	M 14-16	**10098**090	

Quadro *Square* mm	L	Per maschi *for taps* DIN 352	cod.	cad each €
10.0	140		**10098**100	consultare
11.0	150	M 18	**10098**110	listino
12.0	155	M 20	**10098**120	*see price list*
13.0	165		**10098**130	
14.5	175	M 22-24	**10098**145	
16.0	180	M 27	**10098**160	
18.0	200	M 30	**10098**180	
20.0	220	M 33	**10098**200	
22.0	220	M 36	**10098**220	
24.0	235	M39-42	**10098**240	
26.0	250		**10098**260	
29.0	265	M45-48	**10098**290	
32.0	285	M52	**10098**320	

GIRAMASCHI A CRICCHETTO REVERSIBILE

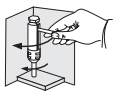
EN *Tap holder with ratchet*
ESP *Giramachos de carraca*
FR *Porte-tarauds à cliquet*
PT *Suporte de macho com roquete*

15010

SERIE CORTA
Short serie



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW	L	pcs.	cod.	cad / each €
1	3 ÷ 10	1/8 ÷ 3/8	85	1	**15010**01	consultare listino
2	5 ÷ 12	7/32 ÷ 1/2	100	1	**15010**02	*see price list*



Acciaio
Steel

SELF ART. 15012
Su richiesta / *On demand*

15011

SERIE LUNGA
Long serie



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW	L	pcs.	cod.	cad / each €
1	3 ÷ 10	1/8 ÷ 3/8	250	1	**15011**01	consultare listino
2	5 ÷ 12	7/32 ÷ 1/2	300	1	**15011**02	*see price list*

Griffe per *Jaws for*		cod.	cad / each €
	**1501001 - 1501101**	**15011**10	consultare listino
	1501002 - 1501102	**15011**12	*see price list*

SELF ART. 15012
Su richiesta / *On demand*

GIRAMASCHI A MANDRINO TIPO GOODEL

EN *Goodel tap holder without ratchet*
ESP *Giramachos Goodel sin carraca*
FR *Porte-tarauds Goodel sans cliquet*
PT *Suporte de macho Goodel sem roquete*

15005

SERIE CORTA
Short serie



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW	L	pcs.	cod.	cad / each €
1	3 ÷ 5	1/8 ÷ 3/16	62	1	**15005**01	consultare listino
2	6 ÷ 8	1/4 ÷ 3/8	78	1	**15005**02	*see price list*
3	9 ÷ 10	3/8	102	1	**15005**03	
4	10 ÷ 12	3/8 ÷ 1/2	102	1	**15005**04	

SELF ART. 15007
Su richiesta / *On demand*

15006

SERIE LUNGA
Long serie



Gr. N.	Per maschi / *for taps* M	Per maschi / *for taps* BSW	L	pcs.	cod.	cad / each €
1	3 ÷ 5	1/8 ÷ 3/16	150	1	**15006**01	consultare listino
2	6 ÷ 8	1/4 ÷ 3/8	150	1	**15006**02	*see price list*
3	9 ÷ 10	3/8	150	1	**15006**03	
4	10 ÷ 12	3/8 ÷ 1/2	150	1	**15006**04	

SELF ART. 15007
Su richiesta / *On demand*

PORTAFILIERE DIN 225 (EN22568) IN ACCIAIO PER FILIERE TONDE

EN *Steel die cast round dies stock DIN 225 (EN22568)*
FR *Porte filières DIN 225 (EN22568) à main*
ESP *Manerales para cojinetes DIN 225 (EN22568)*
PT *Caçonetes redondos de aço fundido sob pressão em stock DIN 225 (EN22568)*

15037



PER FILIERE HSS E HSS-CO (DIN 223)

For HSS and HSS-CO round dies (DIN 223)

Gr.	M	BSW-BSP	L	Pcs.	cod.	cad / each €
16 x 5	M 1 ÷ 2,6	W 1/16 ÷ 3/32	160	1	**15037**16X5	consultare listino
20 x 5	M 3 ÷ 4	W 1/8 ÷ 5/32	190	1	**15037**20X5	*see price list*
20 x 7	M 4,5 ÷ 6	W 3/16 ÷ 1/4	190	1	**15037**20X7	
25 x 9	M 7 ÷ 9	W 5/16 ÷	215	1	**15037**25X9	
30 x 11	M 10 ÷ 11	W 3/8 ÷ 7/16	250	1	**15037**30X11	
38 x 10	MF 12 ÷ 14	G 1/8 ÷ 1/4	310	1	**15037**38X10	
38 x 14	M 12 ÷ 14	W 1/2 ÷ 9/16	310	1	**15037**38X14	
45 x 14	MF 16 ÷ 20	G 3/8 ÷ 1/2	445	1	**15037**45X14	
45 x 18	M 16 ÷ 20	W 5/8 ÷ 13/16	445	1	**15037**45X18	
55 x 16	MF 22 ÷ 26	G 5/8 ÷ 3/4	495	1	**15037**55X16	
55 x 18 (-22)	M 22 ÷ 24	W 7/8 ÷ 1"	495	1	**15037**55X22	
65 x 18	MF 27 ÷ 35	G 7/8 ÷ 1"	550	1	**15037**65X18	
65 x 25	M 27 ÷ 36	W 1.1/8 ÷ 1"3/8	550	1	**15037**65X25	
75 x 20	MF 38 ÷ 42	G 1.1/8 ÷ 1"1/4	735	1	**15037**75X20	
75 x 30	M 39 ÷ 42	W 1.1/2 ÷ 1"5/8	735	1	**15037**75X30	
90 x 22	MF 45 ÷ 52	G 1.3/8 ÷ 1"3/4	900	1	**15037**90X22	
90 x 36	M 45 ÷ 52	W 1.3/4 ÷ 2"	900	1	**15037**90X36	
105 x 22	MF 54 ÷ 65	G 2" ÷ 2"1/4	980	1	**15037**105X22	
105 x 36	M 56 ÷ 64	W 2" ÷ 2"1/4	980	1	**15037**105X36	
120 x 22	MF 64 ÷ 71	G 2.1/4 ÷ 2.3/4	960	1	**15037**120X22	
120 x 36	M 64 ÷ 71	BSW 2.1/2 ÷ 2.3/4	960	1	**15037**120X36	
130 x 25		G 3"	960	1	**15037**130X25	
130 x 36			960	1	**15037**130X36	
140 x 22			980	1	**15037**140X22	
150 x 25		G 3.1/2	1000	1	**15037**150X25	
160 x 25		G 4"	1000	1	**15037**160X25	

15032



PER FILIERE AL CV (DIN 382)

For CV round dies (DIN 382)

Gr. N.	Ø mm	Ø pollici / *inches*	L	Pcs.	cod.	cad / each €
1	25,4 x 9,5	1" x 3/8	210	1	**15032**01	consultare listino
2	38,1 x 12,7	1"1/2 x 1/2	300	1	**15032**02	*see price list*
3	50,8 x 15,9	2" x 5/8	490	1	**15032**03	
4	63,5 x 19	2.1/2 x 3/4	520	1	**15032**04	
5	76,2 x 22	3" x 7/8	700	1	**15032**05	
6	88,9 x 25,4	3.1/2 x 1"	950	1	**15032**06	
7	101,6 x 25,4	4" x 1"	890	1	**15032**07	

ESTRATTORI DI VITI E PRIGIONIERI IN ACCIAIO LEGATO

EN *Screw extractors*
FR *Extracteur de vis*
ESP *Extractores de tornillos*
PT *Extratores de parafuso*

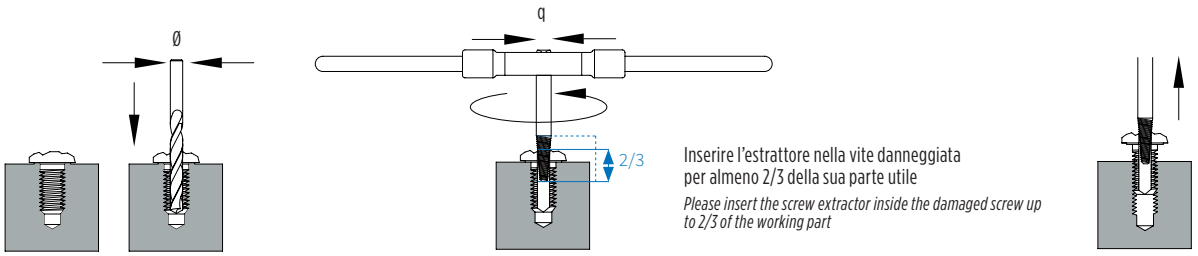
10065

ACCAIO
Steel

DIN 225 (EN 22568)



Gr. N.	viti *screws*	Ø	q	giramaschi n. *tap.wrench n.*	pcs.	cod.	cad / each €
1	M 3 ÷ 6	3 ÷ 4	3	0-1-1.1/2	1	**10065**01	consultare listino
2	M 6 ÷ 8	4 ÷ 4,5	3,6	0-1-1.1/2	1	**10065**02	*see price list*
3	M 8 ÷ 11	5,5 ÷ 6	5,5	1-1.1/2	1	**10065**03	
4	M 11 ÷ 14	6 ÷ 6,5	6,3	2-3-4	1	**10065**04	
5	M 14 ÷ 18	9 ÷ 10	8,6	3-4-5	1	**10065**05	
6	M 18 ÷ 25	12 ÷ 13	12	3-4-5-6	1	**10065**06	
7	M 25 ÷ 35	14 ÷ 16	15	4-5-6	1	**10065**07	
8	M 35 ÷ 50	20 ÷ 22	19	4-5-6	1	**10065**08	



Inserire l'estrattore nella vite danneggiata per almeno 2/3 della sua parte utile
Please insert the screw extractor inside the damaged screw up to 2/3 of the working part

SERIE DI ESTRATTORI IN ASTUCCIO DI PLASTICA

EN *Screw extractors sets in plastic cases*
ESP *Juego de extractores de tornillos en estucho plastico*
FR *Jeux de extracteurs de vis*
PT *Conjuntos de extratores de parafuso em caixas de plástico*

10067



composizione *description*	pcs.	cod.	cad / each €
5 pcs Ø 1÷5	1	**10067**101	consultare listino
6 pcs Ø 1÷6	1	**10067**102	*see price list*
8 pcs Ø 1÷8	1	**10067**103	

CONTAFILETTI PER FILETTI METRICI ISO 60° - WH 55°

EN *Screw pitch gauge ISO 60° - Wh 55°*
ESP *Cuentahilos - ISO 60°-Wh 55°*
FR *Jeux de filetageISO 60° - Wh 55°*
PT *Calibre do passo do parafuso ISO 60° - Wh 55°*

41003



composizione *description*	pcs.	cod.	cad / each €
52 pcs. M 0,25 ÷ 6 Wh 62 ÷ 4	1	**41003**1251	consultare listino
12 pcs. M 0,5 ÷ 1,75	1	**41003**1261	*see price list*

ASSORTIMENTI A FILETTARE IN HSS

EN *HSS threadind sets*
FR *HSS assortiments à fileter*
ESP *Juegos de rosca HSS*
PT *Conjuntos de roscas HSS*

MATERIALE *Material*	FILETTATURA *Thread*	GAMMA *Range*	N° PASSI *N° of thread*	COMPOSIZIONE PASSI INCLUSI *Composition Threads included*	N° PEZZI *N° of pieces*	SERIE DI N° PCS *Standard*	GIRAMASCHI N° *Tap wrenches n°*	N° GIRAMASCHI ACRICCHETTO *N° of tap holdfer with ratchet*
HSS CO	M	**M 3-12**	**7**	M 3 - 4 - 5 - 6 - 8 - 10 - 12	**21**	3	–	–
					29	3	1.1/2	–
					43	3	N° 1 - 2	N° 1
		M 3-20	**11**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	**54**	3	N° 1 - 3	N° 1 - 2
		M 3-24	**13**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24	**61**	3	N° 1 - 4	–
HSS	M	**M 3-12**	**7**	M 3 - 4 - 5 - 6 - 8 - 10 - 12	**15**	1	1.1/2	–
					21	3	–	–
					29	3	1.1/2	–
					30	3	1.1/2	–
					43	3	N° 1 - 2	N° 1
		M 3-20	**11**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	**54**	3	N° 1 - 3	N° 1 - 2
		M 3-24	**13**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24	**61**	3	N° 1 - 4	–
		M 5-30	**13**	M 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 27 - 30	**62**	3	N° 1 - 3 - 5	–
		M 3-12 sinistro ***Left hand***	**7**	M 3 - 4 - 5 - 6 - 8 - 10 - 12	**21**	3	–	–
		M 3-20 sinistro ***Left hand***	**11**	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20	**54**	3	N° 1 - 3	N° 1 - 2

Ø FILIERE (mm) *Ø Dies (mm)*	Ø PORTAFILIERE (mm) *Ø Die holder (mm)*	Ø PUNTE PREFORO (mm) *Ø punte preforo (mm)*	MATERIALE VALIGETTA *Case material*	IMMAGINE* *Image**	DIMESIONE VALIGETTA (LxPxH mm) *Case dimension (LxPxH mm)*	N° RIPIANI VALIGETTA *N° of shelves in the case*	COD.	CAD / *each* €
–	–	–	ABS		115x170x40	–	**17020**408	consultare listino *see price list*
–	–	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25	METALLO *metal*		110x185x50	–	**17020**407	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25	METALLO *metal*		410x230x55	–	**17020**506	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14 - 45x18	–			520x255x60	–	**17020**508	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22	–	LEGNO *wood*		540x338x87	2	**17020**544C	
–	–	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25	ABS		115x170x40	–	**17020**404	
–	–	–			115x170x40	–	**17020**401	
–	–	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25	METALLO *metal*		110x185x50	–	**17020**402	
25x9 (7)	25X9	–			265x120x35	–	**17020**501	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25			410x230x55	–	**17020**500	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18	–			520x255x60	–	**17020**503	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14 45x18 - 55x22	–	LEGNO *wood*		700x434x91,5	2	**17020**504C	
DIN223	20x7 - 25x9 - 30x11 38x14 - 45x18 55x22 - 65x25	–			885x380x90	–	**17020**505	
–	–	–	ABS		115x170x40	–	**17020**409	
DIN223	20x5 - 20x7 - 25x9 30x11 - 38x14 - 45x18	–	METALLO *metal*		520x255x60	–	**17020**509	

*Immagini a scopo esemplificativo. Il prodotto effettivo può differire per forma, colore, finiture o altri dettagli.
**Images are for illustrative purposes only. The actual product may differ in shape, color, finish, or other details.*

ASSORTIMENTI A FILETTARE IN HSS

EN *HSS threadind sets*
FR *HSS assortiments à fileter*
ESP *Juegos de rosca HSS*
PT *Conjuntos de roscas HSS*

MATERIALE *Material*	FILETTATURA *Thread*	GAMMA *Range*	N° PASSI *N° of thread*	COMPOSIZIONE PASSI INCLUSI *Composition Threads included*	N° PEZZI *N° of pieces*	SERIE DI N° PCS *Standard*	GIRAMASCHI N° *Tap wrenches n°*	N° GIRAMASCHI ACRICCHETTO *N° of tap holdfer with ratchet*
HSS	MF	M 6-24	13	MF: 6x0,75 - 8x0,75 - 8x1 - 10x1 - 12x1 - 12x1,5 - 14x1,25 14x1,5 - 16x1,5 - 18x1,5 - 20x1,5 - 22x1,5 - 24x1,5	47	2	N° 1 - 4	
	M + MF	M 4-14	12	M: 4x0,7 - 5x0,8 - 6x1 - 8x1,25 - 10x1,5- 12x1,75 - 14x2 MF: 8x1 - 10x1,25 - 12x1,25 - 12x1,5 - 14x1,5	48	3	N° 1 - 3	N° 1
		M 3-16	17	M 3x0,5 - 4x0,7 - 5x0,8 - 6x1 - 7x1 - 8x1 - 8x1,25 - 10x1,25 - 10x1,5 12x1,25 - 12x1,5 - 12x1,75 - 14x1,25 - 14x1,5 - 14x2 - 16x1,5 - 16x2	62	M 3 MF 2	N° 1 - 3	N° 1
		M 2-18	20	M: 2x0,4 - 3x0,5 - 4x0,7 - 5x0,8 - 6x1 - 7x1 - 8x1,25 - 10x1,5 - 12x1,75 - 14x2 - 16x2 MF: 8x1 - 10x1 - 10x1,25 - 12x1,25 - 12x1,5 - 14x1,25 -14x1,5 - 16x1,5 - 18x1,5	76	3	N° 1 - 3	N° 1
	BSPP	1/8" - 1"	6	1/8" - 1/4" - 3/8" - 1/2" - 3/4" - 1"	26	2	N° 1 - 3 -5	–
			8	1/8" - 1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	32	2	N° 1 - 3 -5	–
	BSPT	1/8" - 1"	6	1/8" - 1/4" - 3/8" - 1/2" - 3/4" - 1"	20	1	N° 1 - 3 -5	–
	NPT	1/8" - 1"	6	1/8" - 1/4" - 3/8" - 1/2" - 3/4" - 1"	20	1	N° 1 - 3 -5	–
	BSW	1/4" - 1"	9	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	44	3	N° 1 - 4	–
	BSF	1/4" - 1"	9	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	35	2	N° 1 - 4	–
	UNC	1/4" - 1"	9	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	42	3	N° 1 - 2	–
	UNF	1/4" - 1"	9	1/4" - 5/16" - 3/8" - 7/16" - 1/2" - 5/8" - 3/4" - 7/8" - 1"	35	2	N° 1 - 4	–

Ø FILIERE (mm) *Ø Dies (mm)*	Ø PORTAFILIERE (mm) *Ø Die holder (mm)*	Ø PUNTE PREFORO (mm) *Ø punte preforo (mm)*	MATERIALE VALIGETTA *Case material*	IMMAGINE* *Image**	DIMESIONE VALIGETTA (LxPxH mm) *Case dimension (LxPxH mm)*	N° RIPIANI VALIGETTA *N° of shelves in the case*	COD.	CAD / *each* €
DIN223	20x7 - 25x9 - 30x11 38x10 - 45x14 - 55x16	–	METALLO *metal*		510x237x50	2	**17020**511	consultare listino *see price list*
25x9 (5) 38x14 (7)	25x9 - 38x14	–	LEGNO *wood*		580x300x51	1	**17025**513C	
20x7 - 25x9 - 30x10 38x14 - 45x18	20x7 - 25x9 - 30x10 38x14 - 45x18	-			520x305x41	1	**17025**512C	
25x9 (8) 38x14 (12)	25x9 - 38x14	–			655x425x53	1	**17025**511C	
DIN 5158	30x11 - 38x10 - 45x14 55x16 - 65x18	–	LEGNO *wood*		700x440x53	1	**17025**615C	
DIN 5158	30x11 - 38x10 - 45x14 55x16 - 65x18	–	METALLO *metal*		550x297x56	2	**17025**614	
-	30x11 - 38x10 - 45x18 55x16 - 65x18	–	LEGNO *wood*		700x440x53	1	**17025**628C	
-	30x11 - 38x10 - 45x18 55x16 - 65x18	–			700x440x53	1	**17025**635C	
DIN 223	20x7 - 25x9 - 30x11 38x14 - 45x18 - 55x22	–			700x440x53	1	**17025**621C	
DIN 223	20x7 - 25x9 - 30x11 38x10 - 45x14 - 55x22	–			700x440x53	1	**17025**631C	
DIN 223	20x7 - 25x9 - 30x11 38x10	–			700x440x53	1	**17020**526C	
DIN 223	20x7 - 25x9 - 30x11 38x10 - 45x14 - 55x16	–			700x440x53	1	**17020**531C	

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ASSORTIMENTI A FILETTARE IN C.V.

EN *C.V. threadind sets*
FR *C.V. assortiments à fileter*
ESP *Juegos de rosca C.V.*
PT *Conjuntos de roscas C.V.*

MATERIALE *Material*	FILETTATURA *Thread*	GAMMA *Range*	N° PASSI *N° of thread*	COMPOSIZIONE PASSI INCLUSI *Composition Threads included*	N° PEZZI *N° of pieces*	SERIE DI N° PCS *Standard*	GIRAMASCHI N° *Tap wrenches n°*	N° GIRAMASCHI ACRICCHETTO *N° of tap holder with ratchet*
C.V.	M	M 3-12	7	M 3 - 4 - 5 - 6 - 8 - 10- 12	15	1	1-1/2"	–
				M 3 - 4 - 5 - 6 - 8 - 10- 12	21	3	–	–
				M 3 - 4 - 5 - 6 - 8 - 10- 12	29	3	1-1/2"	–
				M 3 - 4 - 5 - 6 - 8 - 10- 12	32	3	1-1/2"	-
				M 3 - 4 - 5 - 6 - 8 - 10 - 12	30	3	1-1/2"	–
			10	M 3 - 4 - 5 - 6 - 7 - 8- 9 - 10 - 11 - 12	44	3	N° 1 - 2	–
		M 3-20	11	M 3 - 4 - 5 - 6 - 8 - 10- 12 - 14 - 16 - 18 - 20	48	3	N° 1 - 3	–
		M 3-24	13	M 3 - 4 - 5 - 6 - 8 - 10- 12 - 14 - 16 - 18 - 20 - 22 - 24	58	3	N° 1 - 2 - 4	–
		M 3-30	15	M 3 - 4 - 5 - 6 - 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 27 - 30	67	3	N° 1 - 3 - 5	-
	M+MF	M 3-12	11	M: 3x0,5 - 4x0,7 - 5x0,8 - 6x1 - 7x1 - 8x1,25 - 10x1,5 - 12x1,75 MF: 8x1 - 10x1,25 - 12x1,5	30	1	1-1/2"	-
				M: 3x0,5 - 4x0,7 - 5x0,8 - 6x1 - 7x1 - 8x1,25 - 10x1,5 - 12x1,75 MF: 8x1 - 10x1,25 - 12x1,5	30	3	1-1/2"	–
		M 2-18	20	**FIAT RIDOTTO** M: 2x0,4 - 3x0,5 - 4x0,7- 5x0,8 - 6x1 - 7x1- 8x1,25 - 10x1,5 - 12x1,75- 14x2- 16x2 MF: 8x1 - 10x1 - 10x1,25 - 12x1,25 - 12x1,5 - 14x1,25 - 14x1,5- 16x1,5- 18x1,5	65	2	N° 1 - 3	–
			35	2x0,4 - 3x0,5 - 4x0,7 - 5x0,8 - 6x0,75 - 6x1,0 - 7x0,75 - 7x1,0 - 8x0,75 - 8x1,0 - 8x1,25 9x0,75 - 9x1,0 - 9x1,25 - 10x0,75 - 10x1,0 - 10x1,25 - 10x1,5 - 11x0,75 - 11x1,0 - 11x1,25 - 11x1,5 - 12x0,75 - 12x1,0 - 12x1,25 - 12x1,5 - 12x1,75 - 14x1,0 - 14x1,25 - 14x1,5 - 14x2,0 - 16x1,0 - 16x1,5 - 16x2,0 - 18x1,5	110	2	1-1/2" - 4	-
			35	**FIAT CLASSIC** M: 2x0,4 - 3x0,5 - 4x0,7- 5x0,8 - 6x1 - 7x1- 8x1,25 - 9x1,25 - 10x1,5 - 11x1,5 - 12x1,75- 14x2- 16x2 MF: 6x0,75 - 7x0,75 - 8x0,75 - 8x1 - 9x0,75 - 9x1 - 10x0,75 - 10x1 - 10x1,25 - 11x0,75 - 11x1 11x1,25 - 12x0,75 - 12x1 - 12x1,25 - 12x1,5 - 14x1 - 14x1,25 - 14x1,5- 16x1 - 16x1,5- 18x1,5		2	N° 1 - 3	N° 1
		M 3-24	26	**FIAT GRANDE** M: 3x0,5 - 4x0,7- 5x0,8 - 6x1 - 7x1- 8x1,25 - 10x1,5 - 12x1,75- 14x2- 16x2 - 20x2,5 MF: 8x0,75 - 8x1 - 10x1 - 11x0,75 - 12x1 - 12x1,5 - 14x1 - 14x1,5 16x1 - 16x1,5- 18x1,5 - 20x1,5 - 22x1,5 - 24x1,5 - 24x2	111	3	N° 1 - 2 - 3 - 4	–
			30	**FIAT GRANDE** M: 3x0,5 - 4x0,7- 5x0,8 - 6x1 - 7x1- 8x1,25 - 9x1,25 - 10x1,5 - 12x1,75- 14x2- 16x2 - 20x2,5 MF: 8x1 - 9x1 - 10x1 - 10x1,25 - 12x1 - 12x1,25 - 12x1,5 - 14x1 - 14x1,25 - 14x1,5 16x1 - 16x1,5- 18x1,5 - 20x1,5 - 22x1,5 - 22x2 - 24x1,5 - 24x2	114	M: 3 MF: 2	N° 1 - 3 - 4	N° 1

Ø FILIERE (mm) *Ø Dies (mm)*	Ø PORTAFILIERE (mm) *Ø Die holder (mm)*	Ø PUNTE PREFORO (mm) *Ø punte preforo (mm)*	N° CONTAFILETTI *Ø N° of screw pitch gauge*	MATERIALE VALIGETTA *Case material*	IMMAGINE* *Image**	DIMESIONE VALIGETTA (LxPxH mm) *Case dimension (LxPxH mm)*	N° RIPIANI VALIGETTA *N° of shelves in the case*	COD.	CAD / *each* €
–	–	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25	–	PLASTICA *Plastic*		115x170x40	–	**17005**404	consultare listino *see price list*
–	–	–	-	METALLO *metal*		110x155x35	–	**17005**401	
–	–	2,5 - 3,3 - 4,2 - 5 6,8 - 8,5 - 10,25	–			110x185x50	–	**17005**402	
25,4 (7)	25,4	-	1 + giravite	METALLO *metal*		265x120x35	-	**09030**500	
25,4 (7)	25,4	–	–	LEGNO *wood*		320x215x35	1	**17012**532C	
25,4 (7) 38,1 (3)	25,4 - 38,1	–	–			520x305x41	1	**17012**533C	
25,4 (5) 38,1 (6)	25,4 - 38,1	–	–			580x300x51	1	**17012**535C	
25,4 (5) 38,1 (4) 50,8 (4)	25,4 - 38,1 50,8	–	–			700x440x53	1	**17012**537C	
25,4 (5) 38,1 (4) 50,8 (4) 63,5 (2)	25,4 - 38,1 50,8 - 63,5	-	–			700x434x91,5	2	**17012**538C	
25,4	25,4	2,5 - 3,3 - 4,2 5 - 6,8	1	PLASTICA *Plastic*		275x210x50	-	**09030**505	
25,4	25,4	–	1			275x210x50	-	**09030**504	
25,4 (8) 38,1 (12)	25,4 - 38,1	–	–	LEGNO *wood*		655x425x53	1	**17012**510C	
25,4 (8) 38,1 (12)	25,4 - 38,1	-	-	METALLO *metal*		455x345x55	2	**09030**502	
25,4 (14) 38,1 (21)	25,4 - 38,1	–	–	LEGNO *wood*		498x336x68,5	2	**17012**500C	
25,4 (8) 38,1 (12) 50,8 (6)	25,4 - 38,1 50,8	–	–			700x434x91,5	2	**17012**512C	
25,4 (9) 38,1 (14) 50,8 (7)	25,4 - 38,1 50,8	–	–			498x336x68,5	2	**17012**513C	

*Immagini a scopo esemplificativo. Il prodotto effettivo può differire per forma, colore, finiture o altri dettagli.
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ASSORTIMENTI A FILETTARE IN C.V.

EN *C.V. threadind sets*
FR *C.V. assortiments à fileter*
ESP *Juegos de rosca C.V.*
PT *Conjuntos de roscas C.V.*

MATERIALE *Material*	FILETTATURA *Thread*	GAMMA *Range*	N° PASSI *N° of thread*	COMPOSIZIONE PASSI INCLUSI *Composition Threads included*	N° PEZZI *N° of pieces*	SERIE DI N° PCS *Standard*	GIRAMASCHI N° *Tap wrenches n°*	N° GIRAMASCHI ACRICCHETTO *N° of tap holdfer with ratchet*
C.V.	BSPP	1/8" - 1"	6	1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1	23	2	N° 3 -5	-
	BSPT	1/8" - 1"	6	1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1	20	1	N° 1 - 3 -5	-
	NPT	1/8" - 1"	6	1/8 - 1/4 - 3/8 - 1/2 - 3/4 - 1	20	1	N° 1 - 3 -5	-
	BSW	1/8" - 1"	13	1/8 - 5/32 - 3/16 - 1/4 - 5/16 - 3/8 -7/16 - 1/2 - 9/16 - 5/8 - 3/4 - 7/8 - 1	58	3	N° 1 - 2 - 4	-
	BSF	1/4" - 1"	10	1/4 - 5/16 - 3/8 -7/16 - 1/2 - 9/16 - 5/8 - 3/4 - 7/8 - 1	35	2	N° 1 - 4	-
	UNC	1/4" - 1"	10	1/4 - 5/16 - 3/8 -7/16 - 1/2 - 9/16 - 5/8 - 3/4 - 7/8 - 1	45	3	N° 1 - 4	-
	UNF	1/4" - 1"	10	1/4 - 5/16 - 3/8 -7/16 - 1/2 - 9/16 - 5/8 - 3/4 - 7/8 - 1	35	2	N° 1 - 4	-

Ø FILIERE (mm) *Ø Dies (mm)*	Ø PORTAFILIERE (mm) *Ø Die holder (mm)*	Ø PUNTE PREFORO (mm) *Ø punte preforo (mm)*	N° CONTAFILETTI *Ø N° of screw pitch gauge*	MATERIALE VALIGETTA *Case material*	IMMAGINE* *Image**	DIMESIONE VALIGETTA (LxPxH mm) *Case dimension (LxPxH mm)*	N° RIPIANI VALIGETTA *N° of shelves in the case*	COD.	CAD / *each* €
38,1 (3) 50,8 (2) 63,5 (1)	38,1 - 50,8 - 63,5	-	-	LEGNO *wood*		700x440x53	1	**17012**515C	consultare listino *see price list*
DIN 223	30x11 - 38x14 - 45x18 55x22 - 65x25	-	-			700x440x53	1	**17012**540C	
DIN 223	30x11 - 38x14 - 45x18 55x22 - 65x25	-	-			700x440x53	1	**17012**545C	
25,4 (5) 38,1 (4) 50,8 (4)	25,4 - 38,1 - 50,8	-	-			700x440x53	1	**17012**521C	
25,4 (2) 38,1 (4) 50,8 (4)	25,4 - 38,1 - 50,8	-	-			700x440x53	1	**17012**525C	
25,4 (2) 38,1 (4) 50,8 (4)	25,4 - 38,1 - 50,8	-	-			700x440x53	1	**17012**561C	
25,4 (2) 38,1 (4) 50,8 (4)	25,4 - 38,1 - 50,8	-	-			700x440x53	1	**17012**566C	

*Immagini a scopo esemplificativo. Il prodotto effettivo può differire per forma, colore, finiture o altri dettagli.
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RIPRISTINO DELLE FILETTATURE

Thread repair

Réparation de filets

Reparación de roscas

Reparação de roscas

KIT MONODIMENSIONALI METRICI PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

EN *Thread repair kit - One dimensional kit*
FR *Trousse pour rétablir taraudages endommagées - Kit unidimensionnel*
ESP *Juego para reparar rosca dañada - Kit unidimensional*
PT *Kit de reparação de roscas -Kit unidimensional*

10600 | **M**

KIT MONODIMENSIONALI
One dimensional kit

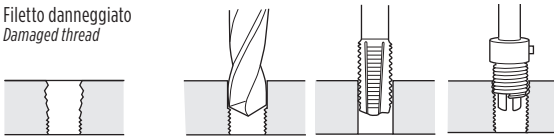


	Ø	mm	n°	n°	pcs.	cod.	cad / each €
M	**2** x 0,4	2,1	2	2	20	**10600**098	consultare listino
	2,5 x 0,45	2,6	3	3	20	**10600**099	*see price list*
	3 x 0,5	3,2	4	4	20	**10600**100	
	3,5 x 0,6	3,7	5	5	20	**10600**101	
	4 x 0,7	4,2	6	6	20	**10600**102	
	5 x 0,8	5,2	8	8	20	**10600**103	
	6 x 1	6,3	9	9	20	**10600**104	
	7 x 1	7,3	10	11	20	**10600**105	
	8 x 1,25	8,3	11	11	20	**10600**106	
	8 x 1	8,3	11	11	20	**10600**107	
	9 x 1,25	9,3	12	12	15	**10600**108	
	10 x 1,5	10,4	13	13	15	**10600**109	
	10 x 1,25	10,3	13	13	15	**10600**110	
	10 x 1	10,3	13	13	15	**10600**111	
	11 x 1,5	11,4	14	14	10	**10600**112	
	12 x 1,75	12,4	15	15	10	**10600**113	
	12 x 1,5	12,4	15	15	10	**10600**114	
	12 x 1,25	12,3	15	15	10	**10600**115	
	12 x 1	12,3	15	15	10	**10600**116	
	14 x 2		16		10	**10600**117	
	14 x 1,5		16		10	**10600**118	
	14 x 1,25		17		10	**10600**119	
	14 x 1		17		10	**10600**120	
	16 x 2		18		10	**10600**121	
	16 x 1,5		18		10	**10600**122	
	18 x 2,5		20		5	**10600**123	
	18 x 2		20		5	**10600**124	
	18 x 1,5		20		5	**10600**125	
	20 x 2,5		21		5	**10600**126	
	20 x 2		21		5	**10600**127	
	20 x 1,5		21		5	**10600**128	
	22 x 2,5		22		5	**10600**129	
	22 x 2		22		5	**10600**130	
	22 x 1,5		22		5	**10600**131	
	24 x 3		23		5	**10600**132	
	24 x 2		23		5	**10600**133	
	24 x 1,5		23		5	**10600**134	



	Ø	pcs.	pcs.	cod.	cad / each €
M	**26** x 1,5	1	10	**10600**135	consultare listino
	27 x 3	1	10	**10600**136	*see price list*
	27 x 2	1	10	**10600**137	
	27 x 1,5	1	10	**10600**138	
	28 x 1,5	1	10	**10600**139	
	30 x 3,5	1	10	**10600**140	
	30 x 2	1	10	**10600**141	
	30 x 1,5	1	10	**10600**142	
	33 x 3,5	1	10	**10600**143	
	33 x 2	1	10	**10600**144	
	36 x 4	1	10	**10600**145	
	36 x 3	1	10	**10600**146	
	36 x 2	1	10	**10600**147	
	36 x 1,5	1	10	**10600**148	

Filetto danneggiato
Damaged thread



Ricambi e consumabili
Parts and Supplies
FROM P. 365

KIT PRURIDIMENSIONALI METRICI PER IL RIPRISTINO DELLE FILETTATURE

EN *Thread repair kit - Multi-dimensional kit*
FR *Trousse pour rétablir taraudages endommagées - Kit multidimensionnel*
ESP *Juego para reparar rosca dañada - Kit multidimensional*
PT *Kit de reparação de roscas - Kit multidimensional*

10605 | **M**

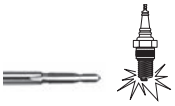
KIT PLURIDIMENSIONALI
Multi-dimensional kit



	Ø	mm	n°	n°	pcs.	cod.	cad / each €
M5-M12	**5** x 0,8	5,2	8	8	25	**10605**100	consultare listino
	6 x 1	6,3	9	9	25		*see price list*
	8 x 1,25	8,3	11	11	25		
	10 x 1,5	10,4	13	13	25		
	12 x 1,75	12,4	15	15	10		

	Ø	mm	n°	n°	pcs.	cod.	cad / each €
M6-M14x1,25	**6** x 1	6,3	9	9	25	**10605**101	consultare listino
	8 x 1,25	8,3	11	11	25		*see price list*
	10 x 1,5	10,4	13	13	25		
	12 x 1,75	12,4	15	15	10		
	14 x 1,25	14,4	17	17	10		

	Ø	mm	n°	n°	pcs.	cod.	cad / each €
M6-M14x1,25	**6** x 1	6,3	9	9	25	**10605**102	consultare listino
	8 x 1,25	8,3	11	11	25		*see price list*
	10 x 1,5	10,4	13	13	25		
	12 x 1,75	12,4	15	15	10		
	***14** x 1,25		17		10		





	Ø	mm	n°	n°	pcs.	cod.	cad / each €
M6-M10	**6** x 1	6,3 mm	9	9	25	**10605**099	consultare listino
	8 x 1,25	8,3 mm	11	11	25		*see price list*
	10 x 1,5	10,4 mm	13	13	25		

Ricambi e consumabili
Parts and Supplies
FROM P. 365

KIT MONODIMENSIONALI METRICI PER IL RIPRISTINO DELLE FILETTATURE - SPECIALE PER CANDELE

EN *Thread repair kit - One dimensional kit- Special for spark plugs*
FR *Trousse pour rétablir les taraudages endommagées, spécial pour bougies*
ESP *Juego para reparar roscas dañadas, especial para las roscas de las bujías*
PT *Kit de reparação de roscas, especial para velas de ignição e velas de incandescência*

10631 | **M**

KIT MONODIMENSIONALI - SPECIALE PER CANDELE

One dimensional kit- Special for spark plugs



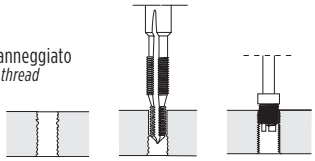
	STI	n°	8,40 d pcs.	12,40 d pcs.	16,40 d pcs.	cod.	cad / each €
M	**14** x 1,25	17	5	5	5	**10631**100	consultare listino *see price list*



RICAMBIO *Spare part*

	Filetto / *Thread*	L	pcs.	cod.	cad / each €
M	**14** x 1,25	8,4	50	**10606**14x12508	consultare listino
	14 x 1,25	12,4	50	**10606**14x12512	*see price list*
	14 x 1,25	16,4	50	**10606**14x12516	

Filetto danneggiato
Damaged thread





	STI	n°	1,5 d pcs.	cod.	cad / each €
M	**6** x 1	9	10	**10631**110	consultare listino
	8 x 1,25	11	10	**10631**111	*see price list*
	10 x 1	13	10	**10631**112	
	10 x 1.25	13	10	**10631**113	
	10 x 1,5	13	10	**10631**114	
	12 x 1,25	15	10	**10631**115	



Ricambi e consumabili
Parts and Supplies
FROM P. 365

KIT METRICI PER IL RIPRISTINO DELLE FILETTATURE SPECIALE PER CANDELE E CANDELETT

EN *Thread repair kit, special for spark plugs and glow plugs*
FR *Trousse pour rétablir les taraudages endommagées, spécial pour bougies*
ESP *Juego para reparar roscas dañadas, especial para las roscas de las bujías*
PT *Kit de reparação de roscas, especial para velas de ignição e velas de incandescência*

10631 M

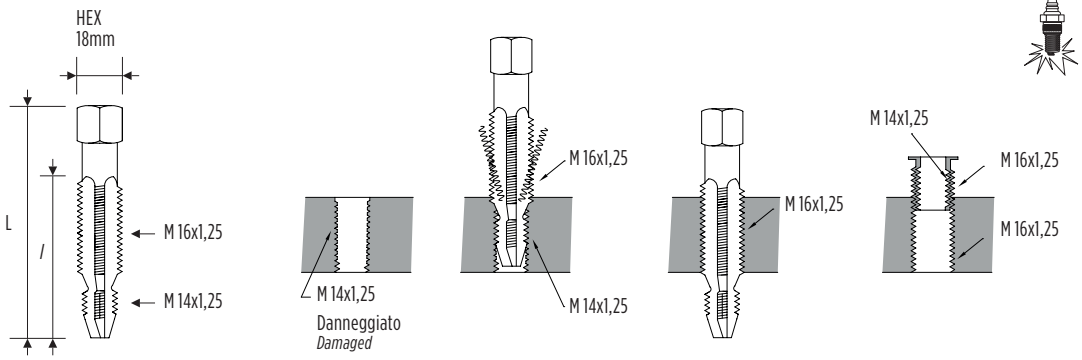
KIT MONODIMENSIONALE - SPECIALE PER CANDELE M14 x 1,25

One dimensional kit- Special for spark plugs M14 x 1,25





	STI	n°	pcs.	pcs.	pcs.	cod.	cad / each €
M	**16** x 1,25	4	4	4	4	**10631**130	consultare listino *see price list*



Inserto solido
Solid thread insert

10626 MASCHIO COMBINATO

Combined tap

RICAMBI *Spare parts*



	Ø	L	l	pcs.	cod.	cad / each €
M	**16** x 1,25	70	41	1	**10626**16x125	consultare listino *see price list*

10627 INSERTO SOLIDO

Solid insert

RICAMBI *Spare parts*



	Ø	HSS	pcs.	cod.	cad / each €
M	**14** x 1,25	9,5	50	**10627**14x12509	consultare listino
	14 x 1,25	11,2	50	**10627**14x12511	*see price list*
	14 x 1,25	12,7	50	**10627**14x12512	
	14 x 1,25	17,5	50	**10627**14x12517	

10631 M

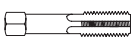
KIT PLURIDIMENSIONALE - SPECIALE PER CANDELETTE 8-10-12 mm

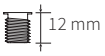
One dimensional kit- Special for spark plugs 8-10-12 mm



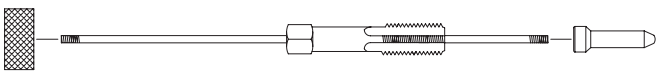
Abs

Inserto solido
Solid thread insert





n°	pcs.	cod.	cad / each €
M 8x1 - M 10x1 - M 10x1,25 M 12x1 - M 12x1,25 - M 14x1,25	M 8x1 - M 10x1 M 10x1,25 - M 12x1	**10631**205	consultare listino *see price list*



Il set contiene un'asta di montaggio, con relativa impugnatura, 3 tappi e 2 utensili inseritori.
This set contains 1 insert fitting rod, its grip handle, 3 plug end blanks and 2 insert fitting tools.

Ricambi e consumabili
Parts and Supplies
FROM P. 365

KIT PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE - WHITWORTH E GAS

EN *Thread repair kit*
FR *Trousse pour rétablir taraudages endommagées*
ESP *Juego para reparar roscas dañadas*
PT *Kit de reparação de roscas*

10600

KIT MONODIMENSIONALI

One dimensional kit



BSW

Ø	mm	n°	n°	pcs.	cod.	cad / each €
1/8 x 40	3,4	4	4	20	**10600**168	consultare listino
3/16 x 24	5,0	8	8	20	**10600**169	*see price list*
1/4 x 20	6,7	9	9	20	**10600**170	
5/16 x 18	8,3	10	11	20	**10600**171	
3/8 x 16	9,9	12	12	15	**10600**172	
7/16 x 14	11,5	14	14	10	**10600**173	
1/2 x 12	13,0	15	15	10	**10600**174	
9/16 x 12		16		10	**10600**175	
5/8 x 11		18		10	**10600**176	
3/4 x 10		20		5	**10600**177	
7/8 x 9		22		5	**10600**178	
1 x 8		23		4	**10600**179	

BSF

Ø	mm	n°	n°	pcs.	cod.	cad / each €
3/16 x 32	5,0 mm	N° 7	N° 6	20	**10600**185	consultare listino
1/4 x 26	6,6 mm	9	9	20	**10600**180	*see price list*
5/16 x 22	8,3 mm	11	11	20	**10600**181	
3/8 x 20	9,9 mm	13	13	15	**10600**182	
7/16 x 18	11,5 mm	14	14	10	**10600**183	
1/2 x 16	13,0 mm	15	15	10	**10600**184	
9/16 x 16		16		10	**10600**186	
5/8 x 14		18		10	**10600**187	
3/4 x 12		20		5	**10600**188	
7/8 x 11		22		5	**10600**189	
1” x 10		23		4	**10600**190	

BSPP

	Ø	pcs.	pcs.	cod.	cad / each €
G	**1/8** x 28	1	10	**10600**191	consultare listino
	1/4 x 19	1	10	**10600**192	*see price list*
	3/8 x 19	1	10	**10600**193	
	1/2 x 14	1	10	**10600**194	
	5/8 x 14	1	10	**10600**195	
	3/4 x 14	1	10	**10600**196	
	7/8 x 14	1	10	**10600**197	
	1” x 11	1	10	**10600**198	

10605

KIT PLURIDIMENSIONALE

Multi-dimensional kit



BSW

1/4 - 1/2

Ø	mm	n°	n°	pcs.	cod.	cad / each €
1/4 x 20	6,7	9	9	25	**10605**105	consultare listino
5/16 x 18	8,3	10	11	25		*see price list*
3/8 x 16	9,9	12	12	25		
7/16 x 14	11,5	14	14	10		
1/2 x 12	13,0	15	15	10		

BSF

1/4 - 1/2

Ø	mm	n°	n°	pcs.	cod.	cad / each €
1/4 x 26	6,6	9	9	25	**10605**106	consultare listino
5/16 x 22	8,3	11	11	25		*see price list*
3/8 x 20	9,9	12	12	25		
7/16 x 18	11,5	14	14	10		
1/2 x 16	13,0	15	15	10		

Ricambi e consumabili
Parts and Supplies
FROM P. 365

KIT PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE - UNC E UNF

EN *Thread repair kit*
FR *Trousse pour rétablir taraudages endommagées*
ESP *Juego para reparar roscas dañadas*
PT *Kit de reparação de roscas*

10600

KIT MONODIMENSIONALI
One dimensional kit



UNC

	Ø	mm	n°	n°	pcs.	cod.	cad / each €
No.	**6** x 32	3,8	5	5	20	**10600**1481	consultare listino
	8 x 32	4,4	6	6	20	**10600**149	*see price list*
	10 x 24	5,2	7	6	20	**10600**1490	
	12 x 24	5,8	8	8	20	**10600**1491	
UNC	**1/4** x 20	6,7	9	9	20	**10600**150	
	5/16 x 18	8,3	10	10	20	**10600**151	
	3/8 x 16	9,9	12	12	15	**10600**152	
	7/16 x 14	11,6	14	14	10	**10600**153	
	1/2 x 13	13,0	15	15	10	**10600**154	
	9/16 x 12		16		10	**10600**155	
	5/8 x 11		18		10	**10600**156	
	3/4 x 10		20		5	**10600**157	
	7/8 x 9		22		5	**10600**158	
	1 x 8		23		4	**10600**159	

	Ø	pcs.	pcs.	cod.	cad / each €
UNC	**1-1/8** x 7	1	10	**10600**1590	consultare listino
	1-1/4 x 7	1	10	**10600**1591	*see price list*
	1-1/2 x 6	1	10	**10600**1592	

UNF

	Ø	mm	n°	n°	pcs.	cod.	cad / each €
No.	**6** x 40	3,8	5	5	20	**10600**1597	consultare listino
	8 x 36	4,4	6	6	20	**10600**1598	*see price list*
	10 x 32	5,1	8	8	20	**10600**1599	
UNF	**1/4** x 28	6,7	9	9	20	**10600**160	
	5/16 x 24	8,3	11	11	20	**10600**161	
	3/8 x 24	9,8	13	13	15	**10600**162	
	7/16 x 20	11,5	14	14	10	**10600**163	
	1/2 x 20	13,0	15	15	10	**10600**164	
	9/16 x 18		16		10	**10600**165	
	5/8 x 18		18		10	**10600**166	
	3/4 x 16		21		5	**10600**167	
	7/8 x 14		22		5	**10600**1670	
	1 x 12		23		4	**10600**1671	

	Ø	pcs.	pcs.	cod.	cad / each €
UNF	**1-1/8** x 12	1	10	**10600**1672	consultare listino
	1-1/4 x 12	1	10	**10600**1673	*see price list*
	1-1/2 x 12	1	10	**10600**1674	

10605

KIT PLURIDIMENSIONALE
Multi-dimensional kit



UNC

1/4 - 1/2

Ø	mm	n°	n°	pcs.	cod.	cad / each €
1/4 x 20	6,7	9	9	25	**10605**103	consultare listino
5/16 x 18	8,3	10	11	25		*see price list*
3/8 x 16	9,9	12	12	25		
7/16 x 14	11,5	14	14	10		
1/2 x 13	13,0	15	15	10		

UNF

1/4 - 1/2

Ø	mm	n°	n°	pcs.	cod.	cad / each €
1/4 x 28	6,7	9	9	25	**10605**104	consultare listino
5/16 x 24	8,3	11	11	25		*see price list*
3/8 x 24	9,8	13	13	25		
7/16 x 20	11,5	14	14	10		
1/2 x 20	13,0	15	15	10		

Ricambi e consumabili
Parts and Supplies
FROM P. 365

INSERTI FILETTATI IN ACCIAIO INOX PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

EN *Wire-thread insert in stainless steel*
FR *Ressorts filetées en acier inoxidable pour le retablissement des filets endommages*
ESP *Inserto roscado para sustituir rosca danãda*
PT *Inserto roscado em aço inoxidável*

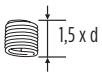
10606 | M | K-COIL DIN 8140 - ISO 2/6H

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)

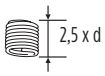
Austenitic stainless steel













	Ø	pcs.	cod.	cad each €	cod.	cad each €	cod.	cad each €	cod.	cad each €	cod.	cad each €
M	**2** x 0,4	100	**10606**102x04	consultare	**10606**02x04	consultare	**10606**202x04	consultare	**10606**2502X04	consultare	**10606**302x04	consultare
	2,2 x 0,45	100	**10606**1022x045	listino	**10606**022x045	listino	**10606**2022x045	listino	**10606**25022X04	listino	**10606**3022x045	listino
	2,5 x 0,45	100	**10606**1025x045	*see price list*	**10606**025x045	*see price list*	**10606**2025x045	*see price list*	**10606**25025X04	*see price list*	**10606**3025x045	*see price list*
	3 x 0,5	100	**10606**103x05		**10606**03x05		**10606**203x05		**10606**2503X05		**10606**303x05	
	3,5 x 0,6	100	**10606**1035x06		**10606**035x06		**10606**2035x06		**10606**25035X06		**10606**3035x06	
	4 x 0,7	100	**10606**104x07		**10606**04x07		**10606**204x07		**10606**2504X07		**10606**304x07	
	5 x 0,8	100	**10606**105x08		**10606**05x08		**10606**205x08		**10606**2505X08		**10606**305x08	
	6 x 1	100	**10606**106x1		**10606**06x1		**10606**206x1		**10606**2506X1		**10606**306x1	
	7 x 1	100	**10606**107x1		**10606**07x1		**10606**207x1		**10606**2507X1		**10606**307x1	
	8 x 1,25	100	**10606**108x125		**10606**08x125		**10606**208x125		**10606**2508X125		**10606**308x125	
	8 x 1	100	**10606**108x1		**10606**08x1		**10606**208x1		**10606**2508X1		**10606**308x1	
	9 x 1,25	100	**10606**109x125		**10606**09x125		**10606**209x125		**10606**2509X125		**10606**309x125	
	10 x 1,5	100	**10606**110x15		**10606**10x15		**10606**210x15		**10606**2510X15		**10606**310x15	
	10 x 1,25	100	**10606**110x125		**10606**10x125		**10606**210x125		**10606**2510X125		**10606**310x125	
	10 x 1	100	**10606**110x1		**10606**10x1		**10606**210x1		**10606**2510X1		**10606**310x1	
	11 x 1,5	100	**10606**111x15		**10606**11x15		**10606**211x15		-		-	
	12 x 1,75	100	**10606**112x175		**10606**12x175		**10606**212x175		**10606**2512X175		**10606**312x175	
	12 x 1,5	100	**10606**112x15		**10606**12x15		**10606**212x15		**10606**2512X15		**10606**312x15	
	12 x 1,25	100	**10606**112x125		**10606**12x125		**10606**212x125		**10606**2512X125		**10606**312x125	
	12 x 1	100	**10606**112x1		**10606**12x1		**10606**212x1		**10606**2512X1		**10606**312x1	
	14 x 2	50	**10606**114x2		**10606**14x2		**10606**214x2		**10606**2514X2		**10606**314x2	
	14 x 1,5	50	**10606**114x15		**10606**14x15		**10606**214x15		**10606**2514X15		**10606**314x15	
	14 x 1,25	50	**10606**114x125		**10606**14x125		**10606**214x125		**10606**2514X125		**10606**314x125	
	14 x 1	50	**10606**114x1		**10606**14x1		**10606**214x1		**10606**2514X1		**10606**314x1	
	16 x 2	50	**10606**116x2		**10606**16x2		**10606**216x2		**10606**2516X2		**10606**316x2	
	16 x 1,5	50	**10606**116x15		**10606**16x15		**10606**216x15		**10606**2516X15		**10606**316x15	
	18 x 2,5	25	**10606**118x25		**10606**18x25		**10606**218x25		**10606**2518X25		**10606**318x25	
	18 x 2	25	**10606**118x2		**10606**18x2		**10606**218x2		**10606**2518X2		**10606**318x2	
	18 x 1,5	25	**10606**118x15		**10606**18x15		**10606**218x15		**10606**2518X15		**10606**318x15	
	20 x 2,5	25	**10606**120x25		**10606**20x25		**10606**220x25		**10606**2520X25		**10606**320x25	
	20 x 2	25	**10606**120x2		**10606**20x2		**10606**220x2		**10606**2520X2		**10606**320x2	
	20 x 1,5	25	**10606**120x15		**10606**20x15		**10606**220x15		**10606**2520X15		**10606**320x15	
	22 x 2,5	10	**10606**122x25		**10606**22x25		**10606**222x25		**10606**2522X25		**10606**322x25	
	22 x 2	10	**10606**122x2		**10606**22x2		**10606**222x2		**10606**2522X2		**10606**322x2	
	22 x 1,5	10	**10606**122x15		**10606**22x15		**10606**222x15		**10606**2522X15		**10606**322x15	
	24 x 3	10	**10606**124x3		**10606**24x3		**10606**224x3		**10606**2524X3		**10606**324x3	
	24 x 2	10	**10606**124x2		**10606**24x2		**10606**224x2		**10606**2524X2		**10606**324x2	
	24 x 1,5	10	**10606**124x15		**10606**24x15		**10606**224x15		**10606**2524X15		**10606**324x15	
	26 x 1,5	5	-		**10606**26x15		-		-		-	
	27 x 3	5	-		**10606**27x3		-		-		-	
	27 x 2	5	-		**10606**27x2		-		-		-	
	27 x 1,5	5	-		**10606**27x15		-		-		-	
	28 x 1,5	5	-		**10606**28x15		-		-		-	
	30 x 3,5	5	-		**10606**30x35		-		-		-	
	30 x 2	5	-		**10606**30x2		-		-		-	
	30 x 1,5	5	-		**10606**30x15		-		-		-	
	33 x 3,5	5	-		**10606**33x35		-		-		-	
	33 x 2	5	-		**10606**33x2		-		-		-	
	36 x 4	5	-		**10606**36x4		-		-		-	
	36 x 3	5	-		**10606**36x3		-		-		-	
	36 x 2	5	-		**10606**36x2		-		-		-	
	36 x 1,5	5	-		**10606**36x15		-		-		-	


1xd


1,5xd

Nota: la misura è riferita all'inserto posizionato nella sua sede

Note: the coil length refers to the tool mounted inside its site

INSERTI FILETTATI AUTOBLOCCANTI IN ACCIAIO INOX PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

EN *Stainless steel wire thread inserts, screw self-locking to renew damaged threads*
FR *Ressorts filetées en acier inoxidable autobloquants pour le retablir filets endommages*
ESP *Inserto roscado, autoblocante in acero inoxidable para sustituir rosca danãda*
PT *Inserções de rosca de fio de aço inoxidável, parafuso autoblocante para renovar roscas danificadas*

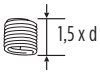
10625 | **M** | **DIN 8140 - ISO 2/6H**

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)
Austenitic stainless steel



AUTOBLOCCANTI
self-locking







	Ø	pcs.	cod.	cad each €	cod.	cad each €	cod.	cad each €
M	**3** x 0,5	100	**10625**103x05	consultare	**10625**03x05	consultare	**10625**203x05	consultare
	4 x 0,7	100	**10625**104x07	listino	**10625**04x07	listino	**10625**204x07	listino
	5 x 0,8	100	**10625**105x08	*see price list*	**10625**05x08	*see price list*	**10625**205x08	*see price list*
	6 x 1	100	**10625**106x1		**10625**06x1		**10625**206x1	
	8 x 1,25	100	**10625**108x125		**10625**08x125		**10625**208x125	
	10 x 1,5	100	**10625**110x15		**10625**10x15		**10625**210x15	
	12 x 1,75	100	**10625**112x175		**10625**12x175		**10625**212x175	
	14 x 2	50	**10625**114x2		**10625**14x2		**10625**214x2	
	16 x 2	50	**10625**116x2		**10625**16x2		**10625**216x2	

CONSIGLI D'USO
Si consiglia l'utilizzo di inserti autobloccanti nel caso di sollecitazioni cicliche del filetto o della necessità di una particolare resistenza agli impatti. Si consiglia inoltre l'uso con viti nichelate o ben lubrificate.
L'inserto autobloccante è dotato di alcune spire poligonali inserite tra le spire circolari per tutta la sua lunghezza: tali spire poligonali esercitano una pressione radiale maggiore sulla vite inserita nell'inserto funzionando da bloccaggio. Rimuovendo la vite, le spire poligonali tornano nella loro forma originale garantendo un ottimo livello di pressione radiale per una serie di avvitature/svitature successive.

EN
USE TIPS
Screw locking inserts are of particular value in applications subject to the effects of cyclic vibration or impact. The prevailing locking torque they assure is achieved by the action of one or more polygonal grip coils positioned within the insert's length, which exert radial pressure on the male thread. As the male thread passes through these grip coils, the locking flats are displaced thus exerting radial pressure or prevailing torque on the male thread. When removing the male thread, the locking coils relax to their original form permitting repeated assembly while retaining a measurable level of prevailing torque. Please use only close fit plated or lubricated bolts or screws with the screw locking inserts.

FR
CONSEILS D'UTILISATION
Les filets rapportés à frein de vis sont extrêmement utiles pour les applications sujettes aux effets provoqués par les vibrations cycliques ou les chocs. Ils offrent une sécurité supplémentaire avec le couple de freinage permanent. Ceci est accompli par la pression radiale exercée sur le filetage extérieur par une ou plusieurs spires à déFORMULÁRIOation polygonale positionnées sur la longueur du filet rapporté. Tandis que le filetage extérieur passe à travers ces spires déFORMULÁRIOées, les vis à tête plate sont déplacées, exerçant ainsi une pression radiale ou couple permanent sur le filetage extérieur. Lorsque le filetage extérieur est retiré, les spires de freinage débandent pour atteindre leur FORMULÁRIOe originale, permettant des assemblages répétés tout en conservant un niveau mesurable de couple permanent. Il est recommandé que seuls des boulons ou vis lubrifiés ou à tête plate à ajustement serré soient utilisés avec les filets rapportés à frein de vis.

ESP
CONSEJOS DE USO
El inserto autoblocante está especialmente indicado en aplicationes sujetas a vibración cíclica o impactos. Los insertos autoblocantes ofrecen una seguridad adicional por su auto freno interno que lo hace más efectivo. Esto se consigue gracias a la acción de uno a varios hilos poligonales de la rosca del inserto posicionados a lo largo mismo, que ejercen presión radial o freno efectivo en la rosca del tornillo. En la medida en que la rosca pasa a través de estos hilos de seguridad, los dispositivos se expanden aplicando gradualmente presión radial o freno efectivo en la rosca del tornillo. Al retirar el tornillo roscado, los hilos de seguridad ralajan su expansión a su forma original permitiendo repetir el roscado del tornillo y manteniendo su nivel de presión radial de seguridad. Se recomienda que solamente se utilicen tornillos niquelados o bien lubricados, con los insertos de seguridad.

PT
DICAS DE UTILIZAÇÃO
Os insertos de bloqueio de parafusos são particularmente valiosos em aplicações sujeitas a efeitos de vibração cíclica ou impacto. O binário de bloqueio predominante que asseguram é obtido pela ação de uma ou mais espirais de aperto poligonais posicionadas no comprimento da pastilha, que exercem pressão radial sobre a rosca macho. Quando a rosca macho passa através destas bobinas de aperto, as lamelas de bloqueio são deslocadas, exercendo assim uma pressão radial ou um binário predominante sobre a rosca macho. Ao remover a rosca macho, as bobinas de bloqueio relaxam para a sua forma original, permitindo a montagem repetida, mantendo um nível mensurável de binário prevalecente. Utilizar apenas parafusos ou pinos roscados lubrificados ou revestidos com fibra de vidro com os encaixes de bloqueio dos parafusos.

INSERTI FILETTATI IN ACCIAIO INOX PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

EN *Wire-thread insert in stainless steel*
FR *Ressorts filetées en acier inoxidable pour le retablissement des filets endommages*
ESP *Inserto roscado para sustituir rosca danãda*
PT *Inserto roscado em aço inoxidável*

10607 UNC K-COIL DIN 8140 - ISO 2/6H

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)
Austenitic stainless steel



	Ø	pcs.	cod.	cad / each €
No.	**8** x 32	100	**10607**N08	consultare
	10 x 24	100	**10607**N10	listino
	12 x 24	100	**10607**N12	*see price list*
UNC	**1/4** x 20	100	**10607**1/4	
	5/16 x 18	100	**10607**5/16	
	3/8 x 16	100	**10607**3/8	
	7/16 x 14	100	**10607**7/16	
	1/2 x 13	100	**10607**1/2	
	9/16 x 12	50	**10607**9/16	
	5/8 x 11	50	**10607**5/8	
	3/4 x 10	25	**10607**3/4	
	7/8 x 9	10	**10607**7/8	
	1 x 8	10	**10607**1	
	1-1/8 x 7	5	**10607**1.1/8	
	1-1/4 x 7	5	**10607**1.1/4	
	1-1/2 x 6	5	**10607**1.1/2	

10608 UNF K-COIL DIN 8140 - ISO 2/6H

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)
Austenitic stainless steel



	Ø	pcs.	cod.	cad / each €
No.	**8** x 36	100	**10608**N08	consultare
	10 x 32	100	**10608**N10	listino
UNF	**1/4** x 28	100	**10608**1/4	*see price list*
	5/16 x 24	100	**10608**5/16	
	3/8 x 24	100	**10608**3/8	
	7/16 x 20	100	**10608**7/16	
	1/2 x 20	100	**10608**1/2	
	9/16 x 18	50	**10608**9/16	
	5/8 x 18	50	**10608**5/8	
	3/4 x 16	25	**10608**3/4	
	7/8 x 14	10	**10608**7/8	
	1 x 12	10	**10608**1	
	1-1/8 x 12	5	**10608**1.1/8	
	1-1/4 x 12	5	**10608**1.1/4	
	1-1/2 x 12	5	**10608**1.1/2	

10609 BSW K-COIL DIN 8140 - ISO 2/6H

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)
Austenitic stainless steel



	Ø	pcs.	cod.	cad / each €
BSW	**1/8** x 40	100	**10609**1/8	consultare
	3/16 x 24	100	**10609**3/16	listino
	1/4 x 20	100	**10609**1/4	*see price list*
	5/16 x 18	100	**10609**5/16	
	3/8 x 16	100	**10609**3/8	
	7/16 x 14	100	**10609**7/16	
	1/2 x 12	100	**10609**1/2	
	9/16 x 12	50	**10609**9/16	
	5/8 x 11	50	**10609**5/8	
	3/4 x 10	25	**10609**3/4	
	7/8 x 9	10	**10609**7/8	
	1 x 8	10	**10609**1	

INSERTI FILETTATI IN ACCIAIO INOX PER IL RIPRISTINO DELLE FILETTATURE DANNEGGIATE

EN *Wire-thread insert in stainless steel*
FR *Ressorts filetées en acier inoxidable pour le retablissement des filets endommages*
ESP *Inserto roscado para sustituir rosca danãda*
PT *Inserto roscado em aço inoxidável*

10610 BSF K-COIL DIN 8140 - ISO 2/6H

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)
Austenitic stainless steel



	Ø	pcs.	cod.	cad / each €
BSF	**3/16** x 32	100	**10610**3/16	consultare
	1/4 x 26	100	**10610**1/4	listino
	5/16 x 22	100	**10610**5/16	*see price list*
	3/8 x 20	100	**10610**3/8	
	7/16 x 18	100	**10610**7/16	
	1/2 x 16	100	**10610**1/2	
	9/16 x 16	50	**10610**9/16	
	5/8 x 14	50	**10610**5/8	
	3/4 x 12	25	**10610**3/4	
	7/8 x 11	10	**10610**7/8	
	1 x 10	10	**10610**1	

10604 BSPP K-COIL DIN 8140 - ISO 2/6H

ACCIAIO INOX AUSTENITICO 18/8 (A2 - AISI304)
Austenitic stainless steel



	Ø	pcs.	cod.	cad / each €
G	**1/8** x 28	50	**10604**1/8	consultare
	1/4 x 19	50	**10604**1/4	listino
	3/8 x 19	50	**10604**3/8	*see price list*
	1/2 x 14	50	**10604**1/2	
	5/8 x 14	5	**10604**5/8	
	3/4 x 14	5	**10604**3/4	
	7/8 x 14	5	**10604**7/8	
	1 x 11	5	**10604**1	

MASCHI STI PER L'INSERIMENTO DI INSERTI FILETTATI K-COIL ISO 2

EN *STI taps for wire thread inserts ISO 2*
FR *Tarauds STI pour filets rapportés ISO 2*
ESP *Machos STI para la inserciòn de filetes ISO 2*
PT *Machos sti para inserções de rosca de arame iso 2*

10612 **HSS-G** **M** **FORM D ISO 1/4H**



	Ø	cod.	cad / each €
M	**2** x 0,4	**10612**02X04	consultare
	2,5 x 0,45	**10612**025X045	listino
	3 x 0,5	**10612**03X05	*see price list*
	3,5 x 0,6	**10612**035X06	
	4 x 0,7	**10612**04X07	
	5 x 0,8	**10612**05X08	
	6 x 1	**10612**06X1	
	7 x 1	**10612**07X1	
	8 x 1,25	**10612**08X125	
	8 x 1	**10612**08X1	
	9 x 1,25	**10612**09X125	
	10 x 1,5	**10612**10X15	
	10 x 1,25	**10612**10X125	
	10 x 1	**10612**10X1	
	11 x 1,5	**10612**11X15	
	12 x 1,75	**10612**12X175	
	12 x 1,5	**10612**12X15	
	12 x 1,25	**10612**12X125	
	12 x 1	**10612**12X1	
	14 x 2	**10612**14X2	
	14 x 1,5	**10612**14X15	
	14 x 1,25	**10612**14X125	
	14 x 1	**10612**14X1	
	16 x 2	**10612**16X2	
	16 x 1,5	**10612**16X15	
	18 x 2,5	**10612**18X25	
	18 x 2	**10612**18X2	
	18 x 1,5	**10612**18X15	
	20 x 2,5	**10612**20X25	
	20 x 2	**10612**20X2	
	20 x 1,5	**10612**20X15	
	22 x 2,5	**10612**22X25	
	22 x 2	**10612**22X2	
	22 x 1,5	**10612**22X15	
	24 x 3	**10612**24X3	
	24 x 2	**10612**24X2	
	24 x 1,5	**10612**24X15	

10612 **HSS-G** **M** **ISO 1/4H**



2 pcs set

	Ø	cod.	cad / each €
M	**26** x 1,5	**10612**26X15	consultare
	27 x 3	**10612**27X3	listino
	27 x 2	**10612**27X2	*see price list*
	27 x 1,5	**10612**27X15	
	28 x 1,5	**10612**28X15	
	30 x 3,5	**10612**30X35	
	30 x 2	**10612**30X2	
	30 x 1,5	**10612**30X15	
	33 x 3,5	**10612**33X35	
	33 x 2	**10612**33X2	
	36 x 4	**10612**36X4	
	36 x 3	**10612**36X3	
	36 x 2	**10612**36X2	
	36 x 1,5	**10612**36X15	

MASCHIO COMBI PER L'INSERIMENTO DI INSERTI FILETTATI ISO 2 SPECIALE PER CANDELE

EN *Spark plug taps with pilot nose for wire thread insert ISO 2*
FR *Tarauds pour bougies d'allumage avec nez pilote pour filets rapportés ISO 2*
ESP *Machos indicado para bujias ISO 2*
PT *Machos de vela de ignição com ponta piloto para inserção de rosca de arame iso 2*

10620 **HSS-G** **M** **ISO 1/4H**



	Ø	cod.	cad / each €
M	**6** x 1	**10620**06X1	consultare
	8 x 1,25	**10620**08X125	listino
	10 x 1,5	**10620**10X15	*see price list*
	10 x 1,25	**10620**10X125	
	10 x 1	**10620**10X1	
	12 x 1,25	**10620**12X125	
	14 x 1,25	**10620**14X125	
	18 x 1,5	**10620**18X15	



MASCHI STI PER L'INSERIMENTO DI INSERTI FILETTATI K-COIL ISO 2

EN *STI taps for wire thread inserts ISO 2*
FR *Tarauds STI pour filets rapportés ISO 2*
ESP *Machos STI para la inserciòn de filetes ISO 2*
PT *Machos sti para inserções de rosca de arame iso 2*

10613 HSS-G UNC FORM D



	Ø	cod.	cad / each €
No.	**8** x 32	**10613**NR08	consultare
	10 x 24	**10613**NR10	listino
	12 x 24	**10613**NR12	*see price list*
UNC	**1/4** x 20	**10613**1/4	
	5/16 x 18	**10613**5/16	
	3/8 x 16	**10613**3/8	
	7/16 x 14	**10613**7/16	
	1/2 x 13	**10613**1/2	
	9/16 x 12	**10613**9/16	
	5/8 x 11	**10613**5/8	
	3/4 x 10	**10613**3/4	
	7/8 x 9	**10613**7/8	
	1 x 8	**10613**1	

10614 HSS-G UNF FORM D



	Ø	cod.	cad / each €
No.	**8** x 36	**10614**NR08	consultare
	10 x 32	**10614**NR10	listino
UNF	**1/4** x 28	**10614**1/4	*see price list*
	5/16 x 24	**10614**5/16	
	3/8 x 24	**10614**3/8	
	7/16 x 20	**10614**7/16	
	1/2 x 20	**10614**1/2	
	9/16 x 18	**10614**9/16	
	5/8 x 18	**10614**5/8	
	3/4 x 16	**10614**3/4	
	7/8 x 14	**10614**7/8	
	1 x 12	**10614**112	
	1 x 14	**10614**114	

10617 HSS-G BSPP FORM D



2 pcs set

	Ø	cod.	cad / each €
BSPP	**1/8** x 28	**10617**1/8	consultare
	1/4 x 19	**10617**1/4	listino
	3/8 x 19	**10617**3/8	*see price list*
	1/2 x 14	**10617**1/2	
	5/8 x 14	**10617**5/8	
	3/4 x 14	**10617**3/4	
	7/8 x 14	**10617**7/8	
	1 x 11	**10617**1	

10615 HSS-G BSW FORM D



	Ø	cod.	cad / each €
BSW	**1/8** x 40	**10615**1/8	consultare
	3/16 x 24	**10615**3/16	listino
	1/4 x 20	**10615**1/4	*see price list*
	5/16 x 18	**10615**5/16	
	3/8 x 16	**10615**3/8	
	7/16 x 14	**10615**7/16	
	1/2 x 12	**10615**1/2	
	9/16 x 12	**10615**9/16	
	5/8 x 11	**10615**5/8	
	3/4 x 10	**10615**3/4	
	7/8 x 9	**10615**7/8	
	1 x 8	**10615**1	

10616 HSS-G BSF FORM D



	Ø	cod.	cad / each €
BSF	**3/16** x 32	**10616**3/16	consultare
	1/4 x 26	**10616**1/4	listino
	5/16 x 22	**10616**5/16	*see price list*
	3/8 x 20	**10616**3/8	
	7/16 x 18	**10616**7/16	
	1/2 x 16	**10616**1/2	
	9/16 x 16	**10616**9/16	
	5/8 x 14	**10616**5/8	
	3/4 x 12	**10616**3/4	
	7/8 x 11	**10616**7/8	
	1 x 10	**10616**1	

ACCESSORI PER L'UTILIZZO DEGLI INSERTI FILETTATI K-COIL

EN *Inserting tools for K-coil*
FR *Outils d'insertion pour bobine K*
ESP *Herramientas para insertar K-coil*
PT *Ferramentas de inserção para K-coil*

10618 PUNTA ELICOIDALE PER PREFORI FIL. DANNEGGIATE

Twist drill for damaged threads



Elenco completo dei diametri dei prefori per i filetti
Complete list of pre-drill hole diameters for threads
P. 600

Ø mm	l mm	L mm		Per filetto *For thread*	cod.	cad / each €
2,1	24	49	**M**	**2** x 0,4	**10618**0210	consultare listino
2,6	30	57		**2,5** x 0,45	**10618**0260	*see price list*
3,2	36	65		**3** x 0,5	**10618**0320	
3,7	39	70		**3,5** x 0,6	**10618**0370	
4,2	43	75		**4** x 0,7	**10618**0420	
5,2	52	86		**5** x 0,8	**10618**0520	
6,3	63	101		**6** x 1	**10618**0630	
7,3	69	109		**7** x 1	**10618**0730	
8,3	75	117		**8** x 1,25 - 8x1	**10618**0830	
9,3	81	125		**9** x 1,25	**10618**0930	
10,3	87	133		**10** x 1,25 - 10x1	**10618**1030	
10,4	87	133		**10** x 1,5	**10618**1040	
11,4	94	133		**11** x 1,5	**10618**1140	
12,3	101	133		**12** x 1,25 - 12x1	**10618**1230	
12,4	101	133		**12** x 1,75 - 12x1,5	**10618**1240	

10611 UTENSILE PER LA ROTTURA DEL PERNO DI TRASCINAMENTO K-COIL

Tang break tool



	Ø	N.	cod.	cad / each €
M	**2** x 0,4	**2**	**1061**102	consultare listino
	2,5 x 0,45	**3**	**1061**103	*see price list*
	3 x 0,5	**4**	**1061**104	
	3,5 x 0,6	**5**	**1061**105	
	4 x 0,7	**6**	**1061**106	
	5 x 0,8	**8**	**1061**108	
	6 x 1	**9**	**1061**109	
	7 x 1 - 8x1,25 - 8x1	**11**	**1061**11	
	9 x 1,25	**12**	**1061**12	
	10 x 1,5 - 10x1,25 - 10x1	**13**	**1061**13	
	11 x 1,5	**14**	**1061**14	
	12 x 1,75 - 12x1,5 - 12x1,25 - 12x1	**15**	**1061**15	

10622 ESTRATTORE K-COIL

Extracting tool



N.		Ø mm	Ø inches	cod.	cad / each €
2	**M**	**3** ÷ 10	**3/16** ÷ 3/8	**10622**02	consultare listino
3	**M**	**11** ÷ 24	**3/8** ÷ 1	**10622**03	*see price list*

ACCESSORI PER L'UTILIZZO DEGLI INSERTI FILETTATI K-COIL

EN *Inserting tools for K-coil*
FR *Outils d'insertion pour bobine K*
ESP *Herramientas para insertar K-coil*
PT *Ferramentas de inserção para K-coil*

10621 UTENSILE MANUALE PER INSERIRE I K-COIL

Inserting tool for K-coil



	Ø	N.	cod.	cad / each €
M	**2** x 0,4	**2**	**10621**02	consultare listino
	2,5 x 0,45	**3**	**10621**03	*see price list*
	3 x 0,5	**4**	**10621**04	
	3,5 x 0,6	**5**	**10621**05	
	4 x 0,7	**6**	**10621**06	
	5 x 0,8	**8**	**10621**08	
	6 x 1	**9**	**10621**09	
	7 x 1	**10**	**10621**10	
	8 x 1,25 - 8x1	**11**	**10621**11	
	9 x 1,25	**12**	**10621**12	
	10 x 1,5 - 10x1,25 - 10x1	**13**	**10621**13	
	11 x 1,5	**14**	**10621**14	
	12 x 1,75 - 12x1,5 - 12x1,25 - 12x1	**15**	**10621**15	
	14 x 2 - 14x1,5	**16**	**10621**16	
	14 x 1,25 - 14x1	**17**	**10621**17	
	16 x 2 - 16x1,5	**18**	**10621**18	
	18 x 2,5 - 18x2 - 18x1,5	**20**	**10621**20	
	20 x 2,5 - 20x2 - 20x1,5	**21**	**10621**21	
	22 x 2,5 - 22x2 - 22x1,5	**22**	**10621**22	
	24 x 2,5 - 24x2 - 24x1,5	**23**	**10621**23	

10628 INSERITORE CON ATTACCO 1/4" HEX FORM E

Inserting tool with 1/4" HEX FORM E hex shank



Per filetto *For thread*	cod.	cad / each €
M 3	**10628**03X05	consultare listino
M 4	**10628**04X07	*see price list*
M 5	**10628**05X08	
M 6	**10628**06X1	
M 8	**10628**08X125	
M 10	**10628**10X15	
M 12	**10628**12X175	

ACCESSORI PER L'UTILIZZO DEGLI INSERTI FILETTATI K-COIL

EN *Inserting tools for K-coil*
FR *Outils d'insertion pour bobine K*
ESP *Herramientas para insertar K-coil*
PT *Ferramentas de inserção para K-coil*

10623 INSERITORE CON ATTACCO ESAGONALE DA 1/2

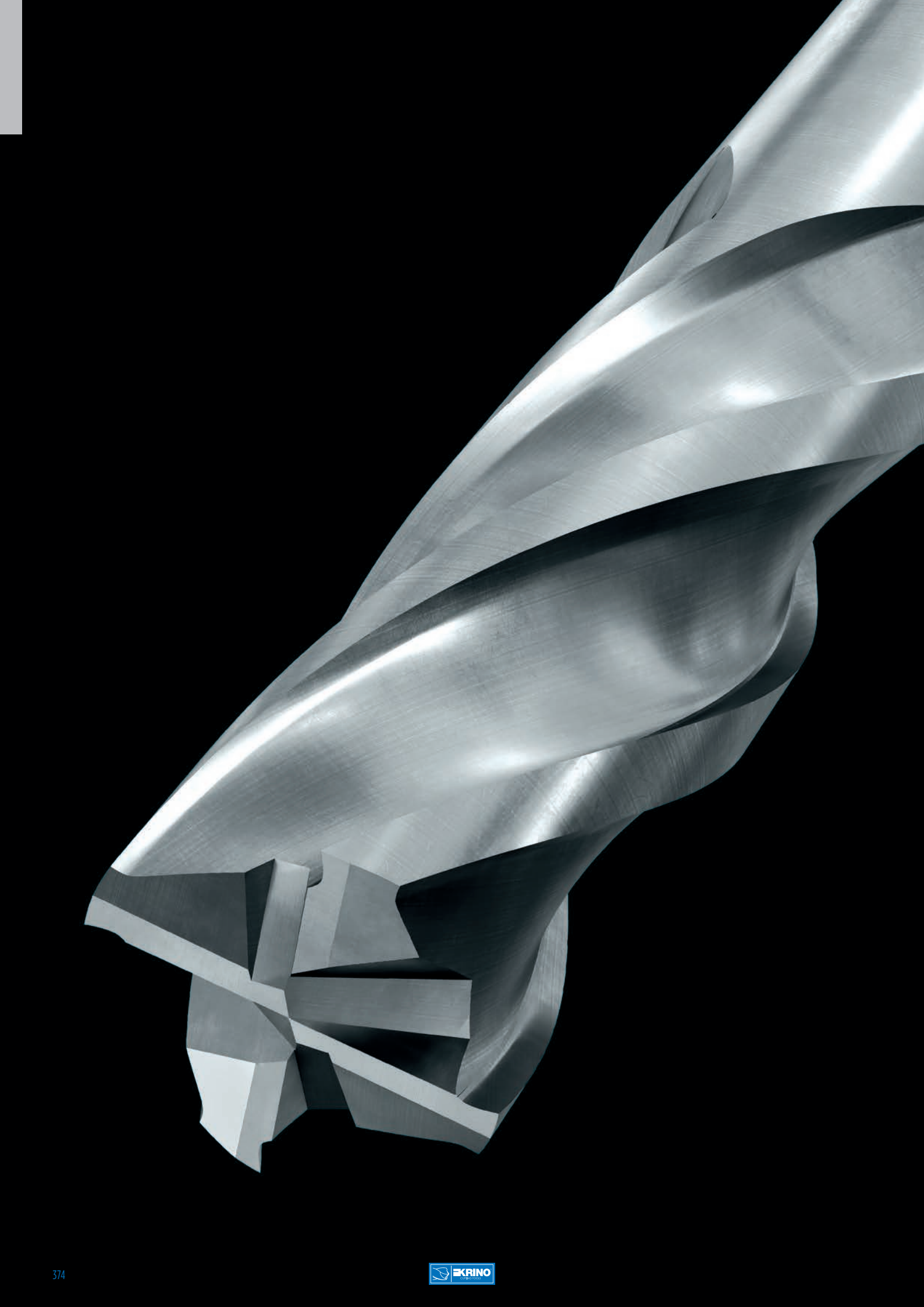
Inserting tool with 1/2" hexagonal drive

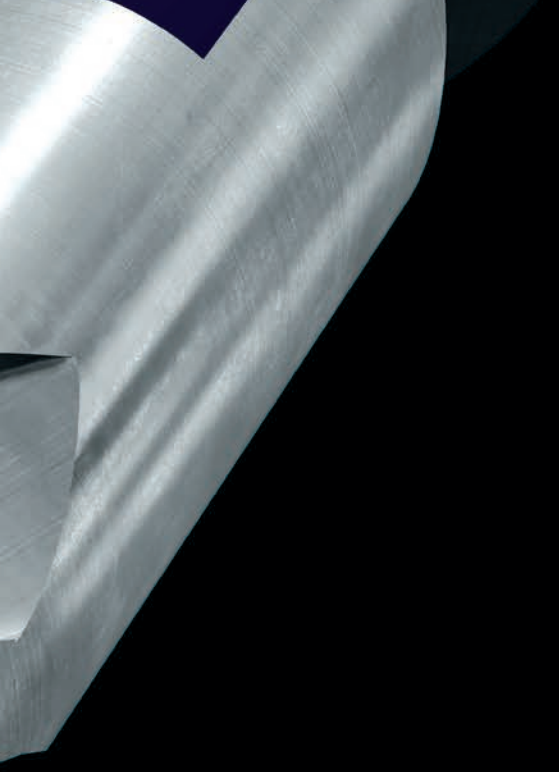


	Ø	cod.	cad / each €
M	**26** x 1,5	**10623**26X15	consultare listino
	27 x 3	**10623**27X3	*see price list*
	27 x 2	**10623**27X2	
	27 x 1,5	**10623**27X15	
	28 x 1,5	**10623**28X15	
	30 x 3,5	**10623**30X35	
	30 x 2	**10623**30X2	
	30 x 1,5	**10623**30X15	
	33 x 3,5	**10623**33X35	
	33 x 2	**10623**33X2	
	36 x 4	**10623**36X4	
	36 x 3	**10623**36X3	
	36 x 2	**10623**36X2	
	36 x 1,5	**10623**36X15	

	Ø	cod.	cad / each €
G	***1/8** x 28	**10623**G1/8	consultare listino
	***1/4** x 19	**10623**G1/4	*see price list*
	***3/8** x 19	**10623**G3/8	
	***1/2** x 14	**10623**G1/2	
	5/8 x 14	**10623**G5/8	
	3/4 x 14	**10623**G3/4	
	7/8 x 14	**10623**G7/8	
	1 x 11	**10623**G1	

* Attacco da 1/4"
** 1/4" hexagonal drive*





ALESATORI, FRESE FRONTALI E UTENSILI SALDOBRASATI

Reamers, end mills and brazed tools

Alésoirs, fraises à rainurer et outils brasés

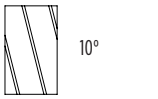
Escariadores, fresas frontales y herramientas soldadas

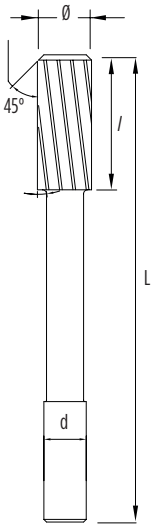
Alargadores, fresas e ferramentas soldadas

ALESATORI A MACCHINA HSS-CO A CODOLO CILINDRICO

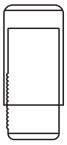
EN *HSS-Co machine reamers*
FR *Alésoirs machine HSS-Co*
ESP *Escariadores a maquina HSS-Co*
PT *Alargadores de máquina HSS-Co*

29020 HSS-CO 5% DIN 212/2B



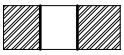






Confezione
Packaging

Ø	d	l	L				
g6	h9	mm	mm	z	pcs.	cod.	cad/each €
3	3,0	15	61	6	1	**29020**0300	consultare listino
4	4,0	19	75	6	1	**29020**0400	*see price list*
5	5,0	23	86	6	1	**29020**0500	
6	6,0	26	93	6	1	**29020**0600	
7	7,0	30	109	6	1	**29020**0700	
8	8,0	32	117	6	1	**29020**0800	
9	9,0	36	125	6	1	**29020**0900	
10	10,0	38	133	6	1	**29020**1000	
11	10,0	41	142	8	1	**29020**1100	
12	10,0	44	151	8	1	**29020**1200	
13	10,0	44	151	8	1	**29020**1300	
14	12,5	47	160	8	1	**29020**1400	
15	12,5	50	162	8	1	**29020**1500	
16	12,5	52	170	8	1	**29020**1600	
17	14,0	54	175	8	1	**29020**1700	
18	14,0	56	182	8	1	**29020**1800	
19	16,0	58	189	10	1	**29020**1900	
20	16,0	60	195	10	1	**29020**2000	



H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.
Suitable for finishing operations, insidethrough holes with H7 tolerance.



Acciaio
Steel



Metalli
Metals



Olio
Oil

CONSIGLI D'USO
Per evitare un'usura precoce dell'utensile, è buona norma fare ruotare l'alesatore sempre e solo nel verso corretto di rotazione e lavorare con uno spessore corretto di sovrametallo da asportare. Di seguito si riporta lo spessore di sovrametallo consigliato:

Use tips
Please always rotate the reamer according to the correct sense of rotation to prevent early tool wear. Please refer to the previous table to learn the right removable stock thickness to be used.

Diametro foro (mm)	Spessore consigliato di sovrametallo (mm)
Hole diameter (mm)	***Removable stock thichness (mm)***
Ø ≤ 4	0,1
4 < Ø ≤ 11	0,2
11 < Ø ≤ 38	0,3
40 < Ø ≤ 50	0,4

Lo spessore di sovrametallo non deve essere troppo limitato, perché in tal modo l'alesatore comprime il materiale invece di tagliarlo. D'altro canto lo spessore non deve essere troppo elevato, perché l'utensile rischia di incollarsi e/o il foro generato risulta sottodimensionato.

Fori sottodimensionati si ottengono anche con velocità e avanzamenti troppo bassi o con apporti troppo limitati di lubrorefrigerante, mentre fori sovradimensionati si ottengono con parametri di taglio troppo elevati. Parametri di lavoro scorretti generano tra l'altro anche fori con una cattiva finitura.

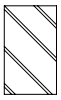
If the removable stock thickness is too little, the reamer compresses the work-piece material instead of cutting it; on the other hand, if the removable stock thickness is too high, the tool tries to stick and/or the hole you produce is too little.

You'll produce little holes also with low cutting parameters (low cutting speed, low feed, low lubricant content), whereas you'll drill bigger holes than expected if you use high cutting parameters. Please use the recommended cutting parameters to avoid any bad finishing.

ALESATORI A MACCHINA HSS-CO A CODOLO CILINDRICO

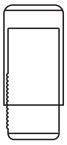
EN *HSS-Co machine reamers*
FR *Alésoirs machine HSS-Co*
ESP *Escariadores a maquina HSS-Co*
PT *Alargadores de máquina HSS-Co*

29021 HSS-CO 5% DIN 212/2C



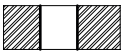
Per centri a controllo numerico CNC
For CNC numerical control centers





Confezione
Packaging

Ø	d	l	L				
g6	h9	mm	mm	z	pcs.	cod.	cad/each €
3	3,0	15	61	6	1	**29021**0300	consultare listino
4	4,0	19	75	6	1	**29021**0400	*see price list*
5	5,0	23	86	6	1	**29021**0500	
6	6,0	26	93	6	1	**29021**0600	
7	7,0	30	109	6	1	**29021**0700	
8	8,0	32	117	6	1	**29021**0800	
9	9,0	36	125	6	1	**29021**0900	
10	10,0	38	133	6	1	**29021**1000	
11	10,0	41	142	8	1	**29021**1100	
12	10,0	44	151	8	1	**29021**1200	
13	10,0	44	151	8	1	**29021**1300	
14	12,5	47	160	8	1	**29021**1400	
16	12,5	52	170	8	1	**29021**1600	
18	14,0	56	182	8	1	**29021**1800	
20	16,0	60	195	10	1	**29021**2000	



H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.
Suitable for finishing operations, insidethrough holes with H7 tolerance.



Acciaio
Steel



Metalli
Metals

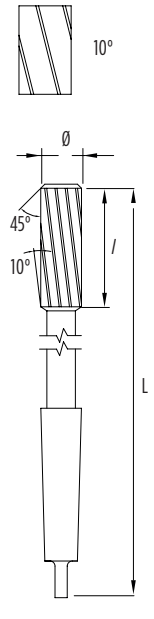


Olio
Oil

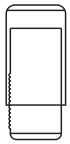
ALESATORI A MACCHINA A CODOLO CONICO MORSE

EN *Morse taper shank machine reamers*
FR *Alésoirs machine queue conique*
ESP *Escariadores a maquina vastago conico Morse*
PT *Alargadores para máquinas com veio cónico morse*

29026 HSS-CO 5% DIN 208 B



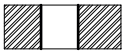




Confezione
Packaging

Ø g6	CM MK	l mm	L mm	z	pcs.	cod.	cad/each €
5	1	23	133	6	1	**29026**0500	consultare
6	1	26	138	6	1	**29026**0600	listino
7	1	31	150	6	1	**29026**0700	*see price list*
8	1	33	156	6	1	**29026**0800	
9	1	36	162	6	1	**29026**0900	
10	1	38	168	6	1	**29026**1000	
11	1	41	175	8	1	**29026**1100	
12	1	44	182	8	1	**29026**1200	
13	1	44	182	8	1	**29026**1300	
14	1	47	189	8	1	**29026**1400	
15	2	50	204	8	1	**29026**1500	
16	2	52	210	8	1	**29026**1600	
17	2	54	214	8	1	**29026**1700	
18	2	56	219	8	1	**29026**1800	
19	2	58	223	10	1	**29026**1900	
20	2	60	228	10	1	**29026**2000	
21	2	62	232	10	1	**29026**2100	

Ø g6	CM MK	l mm	L mm	z	pcs.	cod.	cad/each €
22	2	64	237	10	1	**29026**2200	consultare
23	2	66	241	10	1	**29026**2300	listino
24	3	68	268	10	1	**29026**2400	*see price list*
25	3	68	268	10	1	**29026**2500	
26	3	70	273	10	1	**29026**2600	
27	3	71	277	10	1	**29026**2700	
28	3	71	277	10	1	**29026**2800	
30	3	73	281	10	1	**29026**3000	
31	3	75	285	12	1	**29026**3100	
32	4	77	317	12	1	**29026**3200	
34	4	78	321	12	1	**29026**3400	
35	4	78	321	12	1	**29026**3500	
36	4	79	325	12	1	**29026**3600	
38	4	81	329	12	1	**29026**3800	
40	4	81	329	12	1	**29026**4000	
45	4	83	336	12	1	**29026**4500	
50	4	86	344	12	1	**29026**5000	


H7

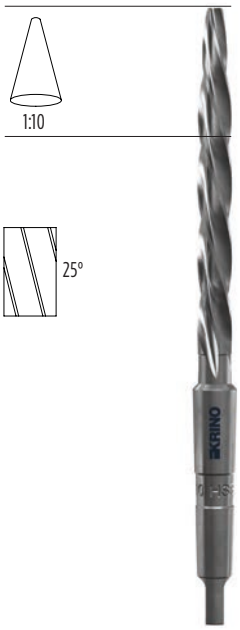
Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.
Suitable for finishing operations, insidethrough holes with H7 tolerance.

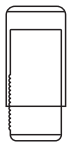

Acciaio
Steel


Metalli
Metals


Olio
Oil

29039 HSS DIN 311





Confezione
Packaging

Ø g6	CM MK	l mm	L mm	z	pcs.	cod.	cad/each €
10	1	95	171	4	1	**29039**1000	consultare
11	1	100	176	4	1	**29039**1100	listino
12	2	105	199	5	1	**29039**1200	*see price list*
13	2	105	199	5	1	**29039**1300	
14	2	115	209	5	1	**29039**1400	
15	2	125	209	5	1	**29039**1500	
16	2	135	219	5	1	**29039**1600	
17	3	135	229	5	1	**29039**1700	
18	3	145	251	5	1	**29039**1800	
19	3	145	261	5	1	**29039**1900	
20	3	155	261	5	1	**29039**2000	
21	3	155	271	5	1	**29039**2100	

Ø g6	CM MK	l mm	L mm	z	pcs.	cod.	cad/each €
22	3	165	271	5	1	**29039**2200	consultare
23	3	165	281	5	1	**29039**2300	listino
24	3	180	281	5	1	**29039**2400	*see price list*
25	3	180	296	5	1	**29039**2500	
26	3	180	296	5	1	**29039**2600	
27	3	195	311	5	1	**29039**2700	
28	3	195	311	5	1	**29039**2800	
30	3	195	311	5	1	**29039**3000	
31	3	210	326	5	1	**29039**3100	
32	4	210	354	5	1	**29039**3200	
34	4	220	364	5	1	**29039**3400	
36	4	220	364	5	1	**29039**3600	

Per alesare fori disallineati che devono essere rivettati o imbullonati insieme
Suitable for finishing operations, throught misaligned holes


Acciaio
Steel

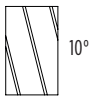

Metalli
Metals


Olio
Oil

ALESATORI A MANICOTTO IN HSS CON TAGLIENTI ELICOIDALI E FORO CONICO 1:30

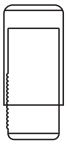
EN *HSS shell reamers with taper bore 1:30*
FR *Alésoirs creux à alesage conique 1:30*
ESP *Escariadores huecos a maquina HSS conicidad 1:30*
PT *Alargadores de concha hss com furo cónico 1:30*

29040 **HSS** **DIN 219 B**









Confezione
Packaging

Ø g6	foro / *hole* Ø mm	*l* mm	L mm	z	pcs.	cod.	cad/each €
30	13	32	45	10	1	**29040**3000	consultare listino
32	16	36	50	12	1	**29040**3200	*see price list*
34	16	36	50	12	1	**29040**3400	
35	16	36	50	12	1	**29040**3500	
36	19	40	56	12	1	**29040**3600	
38	19	40	56	12	1	**29040**3800	
40	19	40	56	12	1	**29040**4000	
42	19	40	56	12	1	**29040**4200	
45	22	45	63	12	1	**29040**4500	
46	22	45	63	12	1	**29040**4600	
48	22	45	63	12	1	**29040**4800	
50	22	45	63	12	1	**29040**5000	
52	27	50	71	12	1	**29040**5200	
55	27	50	71	12	1	**29040**5500	
58	27	50	71	12	1	**29040**5800	
60	27	50	71	12	1	**29040**6000	



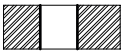
Acciaio
Steel



Metalli
Metals



Olio
Oil



H7

Per operazioni di finitura di fori passanti in tolleranza H7 di materiali ferrosi e non ferrosi.
Suitable for finishing operations, insidethrough holes with H7 tolerance.

In esaurimento
Running out



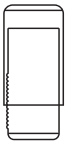
MANDRINO PORTA ALESATORE A MANICOTTO CON ESTRATTORE

EN *Drill chuck for shell reamers with ejecting tool*
FR *Mandrin porte-alésoir creux avec extracteur*
ESP *Mandrino para corona de escariador a maquina*
PT *Mandril de perfuração para alargadores de conchas com ferramenta de ejeção*

29041 **HSS** **DIN 217**





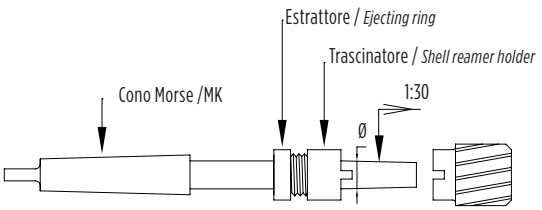


Confezione
Packaging

CM *MK*	foro / *hole* Ø mm	L mm	cod.	cad/each €
3	13	250	**29041**0313	consultare listino
3	16	261	**29041**0316	*see price list*
4	19	298	**29041**0419	
4	22	312	**29041**0422	
5	27	359	**29041**0527	

In esaurimento
Running out

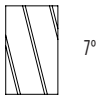




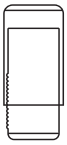
ALESATORI A MANO IN HSS A CODOLO CILINDRICO

EN *HSS hand reamers*
FR *Alésoirs à main HSS*
ESP *Escariadores a mano HSS*
PT *Alargadores manuais em hss*

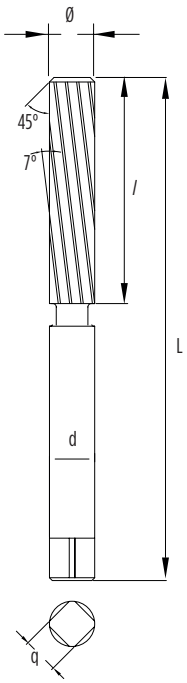
29001 HSS DIN 206 B



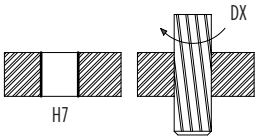




Confezione
Packaging



Ø g6	d e9	q mm	l mm	L mm	z	pcs.	cod.	cad/each €
4	4	3,0	38	76	6	1	**29001**0400	consultare listino
5	5	3,8	44	87	6	1	**29001**0500	*see price list*
6	6	4,9	47	93	6	1	**29001**0600	
7	7	5,5	54	107	6	1	**29001**0700	
8	8	6,2	58	115	6	1	**29001**0800	
9	9	7,0	62	124	6	1	**29001**0900	
10	10	8,0	66	133	6	1	**29001**1000	
11	11	9,0	71	142	8	1	**29001**1100	
12	12	9,0	76	152	8	1	**29001**1200	
13	13	10,0	76	152	8	1	**29001**1300	
14	14	11,0	81	163	8	1	**29001**1400	
15	15	12,0	81	163	8	1	**29001**1500	
16	16	12,0	87	175	8	1	**29001**1600	
17	17	13,0	87	175	8	1	**29001**1700	
18	18	14,5	93	188	8	1	**29001**1800	
19	19	14,5	93	188	10	1	**29001**1900	
20	20	16,0	100	201	10	1	**29001**2000	
21	21	16,0	100	201	10	1	**29001**2100	
22	22	18,0	107	215	10	1	**29001**2200	
23	23	18,0	107	215	10	1	**29001**2300	
24	24	18,0	115	231	10	1	**29001**2400	
25	25	20,0	115	231	10	1	**29001**2500	
26	26	20,0	115	231	10	1	**29001**2600	
27	27	22,0	124	247	10	1	**29001**2700	
28	28	22,0	124	247	10	1	**29001**2800	
30	30	24,0	124	247	10	1	**29001**3000	
32	32	24,0	133	265	12	1	**29001**3200	
34	34	26,0	142	284	12	1	**29001**3400	
35	35	29,0	142	284	12	1	**29001**3500	
36	36	29,0	142	284	12	1	**29001**3600	
38	38	29,0	152	305	12	1	**29001**3800	
40	40	32,0	152	305	12	1	**29001**4000	



Per operazioni di calibratura, lavori di manutenzione o riparazione di fori passanti in tolleranza H7.
Suitable for gauging operations, maintenance and recovery of through holes with H7 tolerance.

SOVRAMETALLO CONSIGLIATO / ***Recommended removable stock***

Diametro foro (mm) *Hole diameter (mm)*	Spessore consigliato di sovrametallo (mm) *Removable stock thichness (mm)*
Ø ≤ 11	0,2
11 < Ø ≤ 38	0,3
Ø = 40	0,4


Acciaio
Steel


Metalli
Metals


Olio
Oil

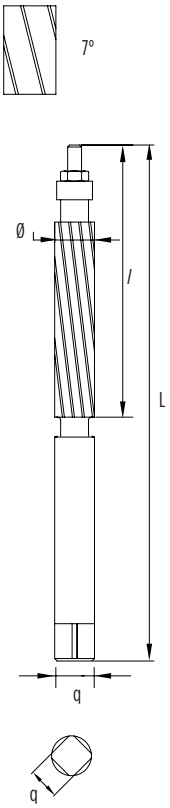
ALESATORI A MANO IN HSS A CODOLO CILINDRICO

EN *HSS hand reamers*
FR *Alésoirs à main HSS*
ESP *Escariadores a mano HSS*
PT *Alargadores manuais em hss*

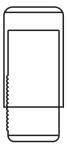
29006 HSS DIN 859/B

PICCOLA ESPANSIONE 1/100 DEL DIAMETRO NOMINALE

Adjustable hand reamer 1/100 nominal diameter

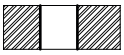






Confezione
Packaging

Ø mm	d e9	q mm	l mm	L mm	z	pcs.	cod.	cad/each €
10	10	8,0	50	133	9	1	**29006**007	consultare listino
13	13	10,0	56	152	9	1	**29006**010	*see price list*
14	14	11,0	61	163	9	1	**29006**011	
16	16	12,0	67	175	9	1	**29006**013	
19	19	14,5	68	188	9	1	**29006**014	
20	20	16,0	75	201	9	1	**29006**015	
24	24	18,0	85	231	12	1	**29006**017	
25	25	20,0	85	231	12	1	**29006**018	
30	30	24,0	94	247	12	1	**29006**019	



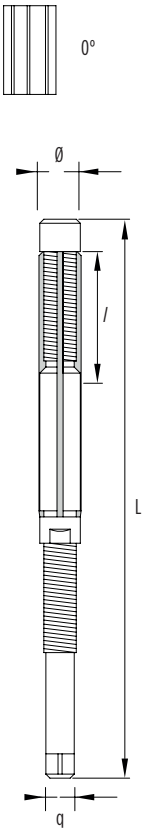
H7

In esaurimento
Running out

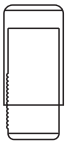
29005 HSS

GRANDE ESPANSIONE, LAME CORTE

Expanding hand reamer short type

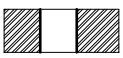






Confezione
Packaging

Capacità/*Range* Ø mm	q mm	l mm	L mm	z	pcs.	cod.	cad/each €
6,4-7,2	3,0	32	110	4	1	**29005**001	consultare listino
7,2-8	3,4	32	110	4	1	**29005**002	*see price list*
8-9	3,8	34	115	5	1	**29005**003	
9-10	4,3	34	115	5	1	**29005**004	
10-11	4,9	34	115	5	1	**29005**005	
11-12	4,9	35	125	5	1	**29005**006	
12-13,5	6,2	41	135	5	1	**29005**007	
13,5-15,5	7,0	50	146	5	1	**29005**008	
15,5-18	8,0	60	166	5	1	**29005**009	
18-21	9,0	65	178	5	1	**29005**010	
21-24	11,0	76	195	5	1	**29005**011	
24-27,5	12,0	82	218	5	1	**29005**012	
27,5-31,5	14,5	86	245	5	1	**29005**013	
31,5-37	18,0	98	280	6	1	**29005**014	
37-45	20,0	108	325	6	1	**29005**015	
45-55	26,0	118	370	6	1	**29005**016	
55-65	32,0	125	400	6	1	**29005**017	
67-80	39,0	140	435	8	1	**29005**018	



H7 H7

Per eseguire riparazioni e lavorazioni leggere in fori ciechi e/o passanti in tolleranza H7.

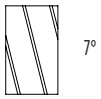
Suitable for recovery and light works inside blind and/or through holes with H7 tolerance.

In esaurimento
Running out

ALESATORI A MANO IN HSS A CODOLO CILINDRICO, CONICITÀ 1:50, PER FORI DI SPINE CONICHE

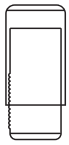
EN *Taper pin hand reamers, taper 1:50*
FR *Alésoirs à main pour trous de goupilles coniques, conicité 1:50*
ESP *Escariadores a mano HSS, conicidad 1:50*
PT *Alargadores manuais de pinos cónicos, cone 1:50*

29010 HSS DIN 9 B

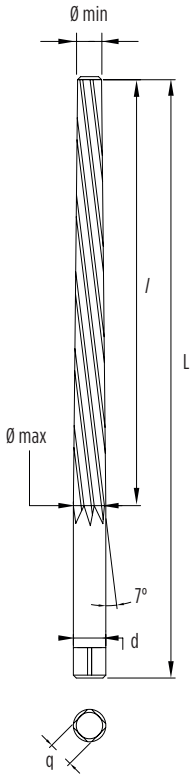




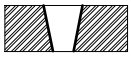




Confezione
Packaging



Ø	Ø min	Ø max	q	l	L				
mm	mm	mm	mm	mm	mm	z	pcs.	cod.	cad/each €
4	3,90	5,25	4,00	68	93	5	1	**29010**0400	consultare listino
5	4,90	6,36	5,00	73	100	5	1	**29010**0500	*see price list*
6	5,90	8,00	6,30	105	135	6	1	**29010**0600	
8	7,90	10,80	8,00	145	180	7	1	**29010**0800	
10	9,90	13,40	10,00	175	215	7	1	**29010**1000	
12	11,80	16,00	11,20	210	255	7	1	**29010**1200	
16	15,80	20,40	14,00	230	280	9	1	**29010**1600	
20	19,80	24,80	18,00	250	310	9	1	**29010**2000	



H7

Per operazioni di alesatura in fori di spine coniche con tolleranza H7.
Scaricare ripetutamente i trucioli durante la lavorazione.

Suitable for reaming in taper pin holes with H7 tolerance. Please remove the chips while reaming.



Acciaio
Steel



Metalli
Metals



Olio
Oil

FRESE FRONTALI A 2 TAGLIENTI IN METALLO DURO INTEGRALE

EN *Two flutes carbide end mills*
FR *Fraise carbure deux dents*
ESP *Fresas frontales de metal duro dos dientes*
PT *Fresas de topo de metal duro de duas ranhuras*

SERIE CORTA
Short serie

24150 VHM DIN 6527 K





Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	50	3	2	1	**24150**0200	consultare
3	6	50	4	2	1	**24150**0300	listino
4	6	54	5	2	1	**24150**0400	*see price list*
5	6	54	6	2	1	**24150**0500	
6	6	54	7	2	1	**24150**0600	
8	8	58	9	2	1	**24150**0800	
10	10	66	11	2	1	**24150**1000	
12	12	73	12	2	1	**24150**1200	
14	14	75	14	2	1	**24150**1400	
16	16	82	16	2	1	**24150**1600	
18	18	84	18	2	1	**24150**1800	
20	20	92	20	2	1	**24150**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

24152 VHM TiAlN DIN 6527 K

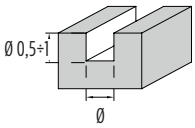


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	50	3	2	1	**24152**0200	consultare
3	6	50	4	2	1	**24152**0300	listino
4	6	54	5	2	1	**24152**0400	*see price list*
5	6	54	6	2	1	**24152**0500	
6	6	54	7	2	1	**24152**0600	
8	8	58	9	2	1	**24152**0800	
10	10	66	11	2	1	**24152**1000	
12	12	73	12	2	1	**24152**1200	
14	14	75	14	2	1	**24152**1400	
16	16	82	16	2	1	**24152**1600	
18	18	84	18	2	1	**24152**1800	
20	20	92	20	2	1	**24152**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

Fresa per cave
Slot end mills



SERIE EXTRA LUNGA
Extra long serie

24151 VHM NORMA KRINO
Krino norm

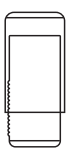




Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	3	75	20	2	1	**24151**0300	consultare
4	4	75	25	2	1	**24151**0400	listino
5	5	75	30	2	1	**24151**0500	*see price list*
6	6	75	30	2	1	**24151**0600	
8	8	100	40	2	1	**24151**0800	
10	10	100	40	2	1	**24151**1000	
12	12	150	45	2	1	**24151**1200	
14	14	150	45	2	1	**24151**1400	
16	16	150	65	2	1	**24151**1600	
18	18	150	65	2	1	**24151**1800	
20	20	150	65	2	1	**24151**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



Confezione
Packaging

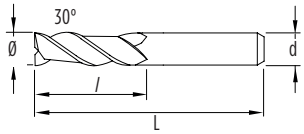
24153 VHM TiAlN NORMA KRINO
Krino norm



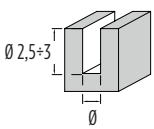
Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	3	75	20	2	1	**24153**0300	consultare
4	4	75	25	2	1	**24153**0400	listino
5	5	75	30	2	1	**24153**0500	*see price list*
6	6	75	30	2	1	**24153**0600	
8	8	100	40	2	1	**24153**0800	
10	10	100	40	2	1	**24153**1000	
12	12	150	45	2	1	**24153**1200	
14	14	150	45	2	1	**24153**1400	
16	16	150	65	2	1	**24153**1600	
18	18	150	65	2	1	**24153**1800	
20	20	150	65	2	1	**24153**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



Fresa per cave
Slot end mills



R < 850 N/mm²

Acciaio *Steel*
Alluminio *Aluminum* Si 3÷12%
Emulsione *Lubrificant*
Ghisa *Cast Iron* HB30<200
A secco *dry*

FRESE FRONTALI A 3 TAGLIENTI IN METALLO DURO INTEGRALE

EN *Three flutes carbide end mills*
FR *Fraise carbure trois dents*
ESP *Fresas frontales de metal duro tres dientes*
PT *Fresas de topo de metal duro com três dentes*

SERIE LUNGA
Long serie

24161 VHM DIN 6527 L





Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	57	7	3	1	**24161**0300	consultare
4	6	57	8	3	1	**24161**0400	listino
5	6	57	10	3	1	**24161**0500	*see price list*
6	6	57	10	3	1	**24161**0600	
8	8	63	16	3	1	**24161**0800	
9	10	72	16	3	1	**24161**0900	
10	10	72	19	3	1	**24161**1000	
12	12	83	22	3	1	**24161**1200	
14	14	83	22	3	1	**24161**1400	
16	16	92	26	3	1	**24161**1600	
18	18	92	26	3	1	**24161**1800	
20	20	104	32	3	1	**24161**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

24163 VHM TiAlN DIN 6527 L

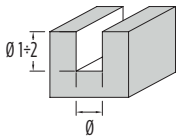


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	57	7	3	1	**24163**0300	consultare
4	6	57	8	3	1	**24163**0400	listino
5	6	57	10	3	1	**24163**0500	*see price list*
6	6	57	10	3	1	**24163**0600	
8	8	63	16	3	1	**24163**0800	
9	10	72	16	3	1	**24163**0900	
10	10	72	19	3	1	**24163**1000	
12	12	83	22	3	1	**24163**1200	
14	14	83	22	3	1	**24163**1400	
16	16	92	26	3	1	**24163**1600	
18	18	92	26	3	1	**24163**1800	
20	20	104	32	3	1	**24163**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

Fresa per cave
Slot end mills



SERIE EXTRA LUNGA
Extra long serie

24162 VHM NORMA KRINO
Krino norm

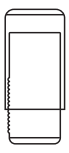




Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	3	75	20	3	1	**24162**0300	consultare
4	4	75	25	3	1	**24162**0400	listino
5	5	75	30	3	1	**24162**0500	*see price list*
6	6	75	30	3	1	**24162**0600	
8	8	100	40	3	1	**24162**0800	
10	10	100	40	3	1	**24162**1000	
12	12	150	45	3	1	**24162**1200	
16	16	150	65	3	1	**24162**1600	
20	20	150	65	3	1	**24162**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



Confezione
Packaging

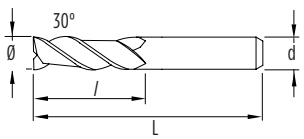
24164 VHM TiAlN NORMA KRINO
Krino norm



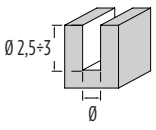
Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	3	75	20	3	1	**24164**0300	consultare
4	4	75	25	3	1	**24164**0400	listino
5	5	75	30	3	1	**24164**0500	*see price list*
6	6	75	30	3	1	**24164**0600	
8	8	100	40	3	1	**24164**0800	
10	10	100	40	3	1	**24164**1000	
12	12	150	45	3	1	**24164**1200	
16	16	150	65	3	1	**24164**1600	
20	20	150	65	3	1	**24164**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



Fresa per cave
Slot end mills



R < 850 N/mm²

Acciaio *Steel*
Metalli *Metals*
Alluminio *Aluminum* Si 3÷12%
Emulsione *Lubrificant*
Ghisa *Cast Iron* HB30<200
A secco *dry*

FRESE FRONTALI A 3 TAGLIENTI IN METALLO DURO INTEGRALE

EN *Three flutes carbide end mills*
FR *Fraise carbure trois dents*
ESP *Fresas frontales de metal duro tres dientes*
PT *Fresas de topo de metal duro com três dentes*

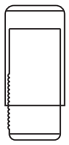
MINIFRESA
Mini end mills

24181 | **VHM** | **TiAlN** | **NORMA KRINO**
Krino norm



TOLLERANZA: H10
Tolerance
Codolo: HA - DIN6535 <2mm
Shank HB - DIN6535 >2mm





Confezione
Packaging

Ø e8 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
0,5	3	38	1,5	3	1	**241810050**	consultare
1	3	38	2	3	1	**241810100**	listino
1,5	3	38	2	3	1	**241810150**	*see price list*
2	6	38	4	3	1	**241810200**	
2,5	6	38	5	3	1	**241810250**	
3	6	38	5	3	1	**241810300**	
3,5	6	38	6	3	1	**241810350**	
4	6	38	7	3	1	**241810400**	
4,5	6	38	8	3	1	**241810450**	
5	6	38	8	3	1	**241810500**	
6	6	38	8	3	1	**241810600**	
8	8	43	11	3	1	**241810800**	
10	10	50	13	3	1	**241811000**	
12	12	55	15	3	1	**241811200**	

R < 850 N/mm²


Acciaio
Steel


Metalli
Metals

R < 750 N/mm²

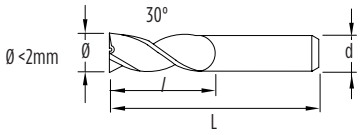


Inox
Stainless

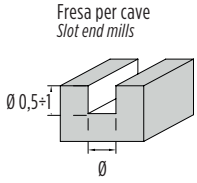


Alluminio
Aluminum
Si 3÷12%


Emulsione
Lubrificant







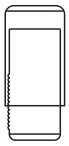
SERIE LUNGA
Long serie

24184 | **VHM** | **TiAlN** | **DIN 6527 L**
Carbide



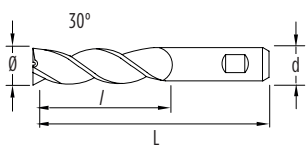
TOLLERANZA: H10
Tolerance
Codolo: HB - DIN6535

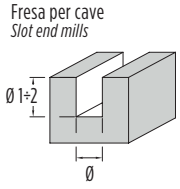




Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	57	6	3	1	**241840200**	consultare
3	6	57	7	3	1	**241840300**	listino
4	6	57	8	3	1	**241840400**	*see price list*
5	6	57	10	3	1	**241840500**	
6	6	57	10	3	1	**241840600**	
8	8	63	16	3	1	**241840800**	
9	10	72	16	3	1	**241840900**	
10	10	72	19	3	1	**241841000**	
12	12	83	22	3	1	**241841200**	
14	14	83	22	3	1	**241841400**	
16	16	92	26	3	1	**241841600**	
18	18	92	26	3	1	**241841800**	
20	20	104	32	3	1	**241842000**	





R < 850 N/mm²


Acciaio
Steel



Alluminio
Aluminum
Si 3÷12%


Emulsione
Lubrificant


Ghisa
Cast Iron
HB30<200


A secco
dry

FRESE FRONTALI A 4 TAGLIENTI IN METALLO DURO INTEGRALE

EN *Four flutes carbide end mills*
FR *Fraise carbure quatre dents*
ESP *Fresas frontales de metal duro cuatro dientes*
PT *Fresas de topo de metal duro com quatro dentes*

24165 VHM DIN 6527 K



Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	50	4	4	1	**24165**0200	consultare
3	6	50	5	4	1	**24165**0300	listino
4	6	54	8	4	1	**24165**0400	*see price list*
5	6	54	9	4	1	**24165**0500	
6	6	54	10	4	1	**24165**0600	
8	8	58	12	4	1	**24165**0800	
10	10	66	14	4	1	**24165**1000	
12	12	73	16	4	1	**24165**1200	
14	14	75	18	4	1	**24165**1400	
16	16	82	22	4	1	**24165**1600	
18	18	84	24	4	1	**24165**1800	
20	20	92	26	4	1	**24165**2000	



TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

24167 VHM TiAlN DIN 6527 K

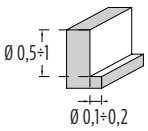


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	50	4	4	1	**24167**0200	consultare
3	6	50	5	4	1	**24167**0300	listino
4	6	54	8	4	1	**24167**0400	*see price list*
5	6	54	9	4	1	**24167**0500	
6	6	54	10	4	1	**24167**0600	
8	8	58	12	4	1	**24167**0800	
10	10	66	14	4	1	**24167**1000	
12	12	73	16	4	1	**24167**1200	
14	14	75	18	4	1	**24167**1400	
16	16	82	22	4	1	**24167**1600	
18	18	84	24	4	1	**24167**1800	
20	20	92	26	4	1	**24167**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

Finitura
Finishing



SERIE EXTRA LUNGA
Extra long serie

24166 VHM DIN 6527 L

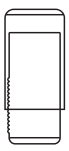


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	57	7	4	1	**24166**0200	consultare
3	6	57	8	4	1	**24166**0300	listino
4	6	57	11	4	1	**24166**0400	*see price list*
5	6	57	13	4	1	**24166**0500	
6	6	57	13	4	1	**24166**0600	
8	8	63	19	4	1	**24166**0800	
9	10	72	19	4	1	**24166**0900	
10	10	72	22	4	1	**24166**1000	
12	12	83	26	4	1	**24166**1200	
14	14	83	26	4	1	**24166**1400	
16	16	92	32	4	1	**24166**1600	
18	18	92	32	4	1	**24166**1800	
20	20	104	38	4	1	**24166**2000	



TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



Confezione
Packaging

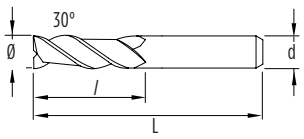
24168 VHM TiAlN DIN 6527 L



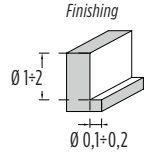
Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	57	7	4	1	**24168**0200	consultare
3	6	57	8	4	1	**24168**0300	listino
4	6	57	11	4	1	**24168**0400	*see price list*
5	6	57	13	4	1	**24168**0500	
6	6	57	13	4	1	**24168**0600	
8	8	63	19	4	1	**24168**0800	
9	10	72	19	4	1	**24168**0900	
10	10	72	22	4	1	**24168**1000	
12	12	83	26	4	1	**24168**1200	
14	14	83	26	4	1	**24168**1400	
16	16	92	32	4	1	**24168**1600	
18	18	92	32	4	1	**24168**1800	
20	20	104	38	4	1	**24168**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



Finitura
Finishing



R < 850 N/mm² **R < 1000 N/mm²**

Acciaio *Steel* | Metalli *Metals* | Alluminio *Aluminum* Si 3÷12% | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

FRESE FRONTALI A 4 TAGLIENTI IN METALLO DURO INTEGRALE

EN *Four flutes carbide end mills*
FR *Fraise carbure quatre dents*
ESP *Fresas frontales de metal duro cuatro dientes*
PT *Fresas de topo de metal duro com quatro dentes*

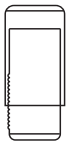
SERIE LUNGA
long serie

24183 VHM TiAlN DIN 6527 L
Carbide



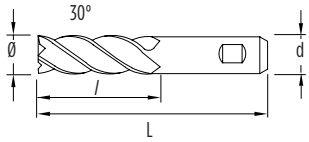
TOLLERANZA: H10
Tolerance
Codolo: HB - DIN6535



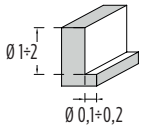


Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	2	57	7	4	1	**24183**0200	consultare
3	3	57	8	4	1	**24183**0300	listino
4	4	57	11	4	1	**24183**0400	*see price list*
5	5	57	13	4	1	**24183**0500	
6	6	57	13	4	1	**24183**0600	
8	8	63	19	4	1	**24183**0800	
9	9	72	19	4	1	**24183**0900	
10	10	72	22	4	1	**24183**1000	
12	12	83	26	4	1	**24183**1200	
14	14	83	26	4	1	**24183**1400	
16	16	92	32	4	1	**24183**1600	
18	18	92	32	4	1	**24183**1800	
20	20	104	38	4	1	**24183**2000	



Finitura
Finishing



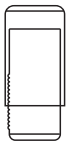
SERIE LUNGA
Long serie

24182 VHM TiAlN DIN 6527 L
Carbide



TOLLERANZA: H10
Tolerance
Codolo: HB - DIN6535

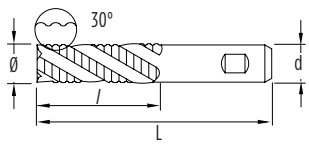




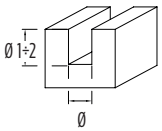
Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	57	13	4	1	**24182**0600	consultare
8	8	63	19	4	1	**24182**0800	listino
10	10	72	22	4	1	**24182**1000	*see price list*
12	12	83	26	4	1	**24182**1200	
14	14	83	26	4	1	**24182**1400	
16	16	92	32	4	1	**24182**1600	
18	18	92	32	4	1	**24182**1800	
20	20	104	38	4	1	**24182**2000	

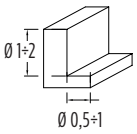
Rompitruciolo tipo NRF
Chip-breaker NRF type



Fresa per cave
Slot end mills



Sgrossatura
Roughing



R < 1200 N/mm² **R < 750 N/mm²**


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum
Si > 5%


Emulsione
Lubrificant


Ghisa
Cast Iron
HB30<200


A secco
dry

FRESE FRONTALI A 4 TAGLIENTI A ELICA VARIABILE IN METALLO DURO INTEGRALE

EN *Four flutes carbide end mills with variable helix*
FR *Fraise carbure quatre dents avec helice variable*
ESP *Fresas frontales de metal duro cuatro dientes con helica variable*
PT *Fresas de topo de metal duro de quatro ranhuras com hélice variável*

SERIE LUNGA
Long serie

24169 VHM DIN 6527 L



Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	6	3,7	57	11	4	1	**24169**0400	consultare
5	6	4,7	57	13	4	1	**24169**0500	listino
6	6	5,5	57	13	4	1	**24169**0600	*see price list*
8	8	7,5	63	19	4	1	**24169**0800	
10	10	9,2	72	22	4	1	**24169**1000	
12	12	11,2	83	26	4	1	**24169**1200	
14	14	13,2	83	26	4	1	**24169**1400	
16	16	15,0	92	32	4	1	**24169**1600	
18	18	17,0	92	32	4	1	**24169**1800	
20	20	19,0	104	38	4	1	**24169**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

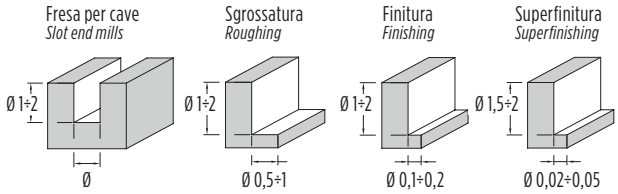
24171 VHM TiAlN DIN 6527 L



Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	6	3,7	57	11	4	1	**24171**0400	consultare
5	6	4,7	57	13	4	1	**24171**0500	listino
6	6	5,5	57	13	4	1	**24171**0600	*see price list*
8	8	7,5	63	19	4	1	**24171**0800	
10	10	9,2	72	22	4	1	**24171**1000	
12	12	11,2	83	26	4	1	**24171**1200	
14	14	13,2	83	26	4	1	**24171**1400	
16	16	15,0	92	32	4	1	**24171**1600	
18	18	17,0	92	32	4	1	**24171**1800	
20	20	19,0	104	38	4	1	**24171**2000	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



SERIE LUNGA
long serie

24170 VHM NORMA KRINO
Krino norm



Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
10	10	9,2	100	40	4	1	**24170**1000	consultare
12	12	11,2	150	45	4	1	**24170**1200	listino
14	14	13,2	150	45	4	1	**24170**1400	*see price list*
16	16	15,0	150	65	4	1	**24170**1600	
18	18	17,0	150	65	4	1	**24170**1800	
20	20	19,0	150	65	4	1	**24170**2000	

TOLLERANZA: H10
Tolerance

Codolo: - HA - DIN6535
Shank

24172 VHM TiAlN NORMA KRINO
Krino norm

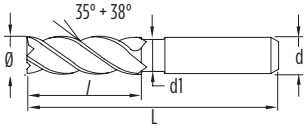


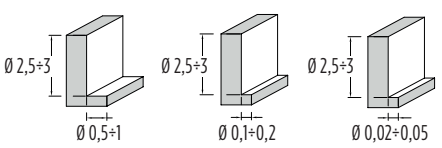
Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
10	10	9,2	100	40	4	1	**24172**1000	consultare
12	12	11,2	150	45	4	1	**24172**1200	listino
14	14	13,2	150	45	4	1	**24172**1400	*see price list*
16	16	15,0	150	65	4	1	**24172**1600	
18	18	17,0	150	65	4	1	**24172**1800	
20	20	19,0	150	65	4	1	**24172**2000	

TOLLERANZA: H10
Tolerance

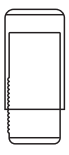
Codolo: HA - DIN6535
Shank

Eliche variabili 35°-38°
Variable helix 35°-38°









Confezione
Packaging

R < 1600 N/mm² **R < 750 N/mm²**

Acciaio *Steel* | Metalli *Metals* | Alluminio *Aluminum* Si 3÷12% | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

FRESE FRONTALI A 4 TAGLIENTI A ELICA VARIABILE IN METALLO DURO INTEGRALE

EN *Four flutes carbide end mills with variable helix*
FR *Fraise carbure quatre dents avec helice variable*
ESP *Fresas frontales de metal duro cuatro dientes con helica variable*
PT *Fresas de topo de metal duro de quatro ranhuras com hélice variável*

SERIE LUNGA - SPECIALE INOX

Long serie - for Stainless steel

24174 **VHM** **TiAlN** **DIN 6527 L**
Carbide

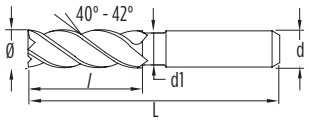


Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	6	3,7	57	11	4	1	**24174**0400	consultare
5	6	4,7	57	13	4	1	**24174**0500	listino
6	6	5,5	57	13	4	1	**24174**0600	*see price list*
8	8	7,5	63	19	4	1	**24174**0800	
10	10	9,2	72	22	4	1	**24174**1000	
12	12	11,2	83	26	4	1	**24174**1200	
16	16	15,0	92	32	4	1	**24174**1600	
20	20	19,0	104	38	4	1	**24174**2000	



TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



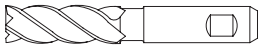
24175 **VHM** **TiAlN** **DIN 6527 L**
Carbide

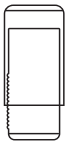


Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	6	3,7	57	11	4	1	**24175**0400	consultare
5	6	4,7	57	13	4	1	**24175**0500	listino
6	6	5,5	57	13	4	1	**24175**0600	*see price list*
8	8	7,5	63	19	4	1	**24175**0800	
10	10	9,2	72	22	4	1	**24175**1000	
12	12	11,2	83	26	4	1	**24175**1200	
16	16	15,0	92	32	4	1	**24175**1600	
20	20	19,0	104	38	4	1	**24175**2000	

TOLLERANZA: H10
Tolerance

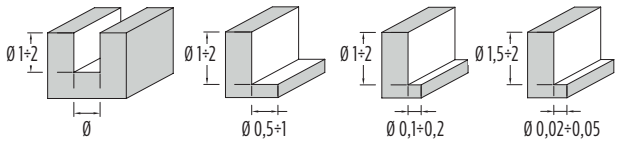
Codolo: HB - DIN6535
Shank





Confezione
Packaging

Fresa per cave *Slot end mills*
Sgrossatura *Roughing*
Finitura *Finishing*
Superfinitura *Superfinishing*



R < 750 N/mm²

Inox *Stainless*

R < 1000 N/mm²

Acciaio *Steel*

Alluminio *Aluminum* Si <3%

Emulsione *Lubrificant*

Ghisa *Cast Iron* HB30<200

A secco *dry*

FRESE FRONTALI A 6 E PIÙ TAGLIENTI PER SUPERFINITURA IN METALLO DURO INTEGRALE

EN *Six flutes carbide end mills*
FR *Fraise carbure six dents*
ESP *Fresas frontales de metal duro seis dientes*
PT *Fresas de topo de metal duro de seis ranhuras*

SERIE LUNGA - PER MATERIALI CON HRC < 50

Long serie - Suitable for materials with HRC < 50

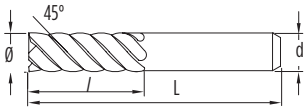
24177 VHM TiAlN ≈ DIN 6527 L



Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	57	8	6	1	**24177**0300	consultare
4	6	57	11	6	1	**24177**0400	listino
5	6	57	13	6	1	**24177**0500	*see price list*
6	6	57	13	6	1	**24177**0600	
8	8	63	19	6	1	**24177**0800	
10	10	72	22	6	1	**24177**1000	
12	12	83	26	6	1	**24177**1200	
14	14	83	26	6	1	**24177**1400	
16	16	92	32	6	1	**24177**1600	
18	18	92	32	8	1	**24177**1800	
20	20	104	38	8	1	**24177**2000	
25	25	121	45	10	1	**24177**2500	

TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank



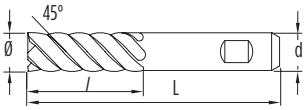
24185 VHM TiAlN ≈ DIN 6527 L

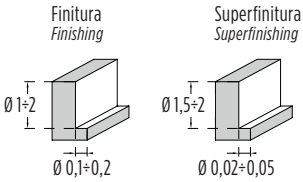


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	57	13	6	1	**24185**0600	consultare
8	8	63	19	6	1	**24185**0800	listino
10	10	72	22	6	1	**24185**1000	*see price list*
12	12	83	26	6	1	**24185**1200	
14	14	83	26	6	1	**24185**1400	
16	16	92	32	6	1	**24185**1600	
18	18	92	32	8	1	**24185**1800	
20	20	104	38	8	1	**24185**2000	
25	25	121	45	10	1	**24185**2500	

TOLLERANZA: H10
Tolerance

Codolo: HB - DIN6535
Shank





R < 750 N/mm² **R < 1600 N/mm²**

Inox *Stainless* | Acciaio *Steel* | Alluminio *Aluminum* Si 3÷12% | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

SERIE EXTRA LUNGA - PER MATERIALI CON HRC < 50

Extra long serie - Suitable for materials with HRC < 50

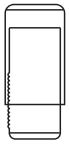
24178 VHM TiAlN NORMA KRINO

Krino norm

TOLLERANZA: H10
Tolerance

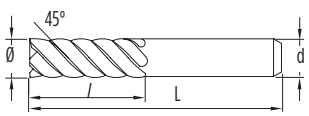
Codolo: - HA - DIN6535
Shank

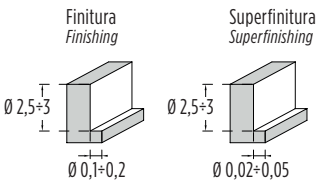




Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	75	30	6	1	**24178**0600	consultare
8	8	100	40	6	1	**24178**0800	listino
10	10	100	40	6	1	**24178**1000	*see price list*
12	12	150	45	6	1	**24178**1200	
16	16	150	65	6	1	**24178**1600	
20	20	150	65	8	1	**24178**2000	
25	25	150	75	10	1	**24178**2500	





R < 750 N/mm² **R < 1600 N/mm²**

Inox *Stainless* | Acciaio *Steel* | Alluminio *Aluminum* Si 3÷12% | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

FRESE FRONTALI A 6 E PIÙ TAGLIENTI PER SUPERFINITURA IN METALLO DURO INTEGRALE

EN *Six flutes carbide end mills*
FR *Fraise carbure six dents*
ESP *Fresas frontales de metal duro seis dientes*
PT *Fresas de topo de metal duro de seis ranhuras*

SERIE LUNGA - PER MATERIALI CON HRC < 62

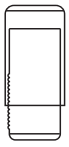
Long serie - Suitable for materials with HRC < 62

24186 **VHM** **TiAlN** ≈ DIN 6527 L

TOLLERANZA: H10
Tolerance

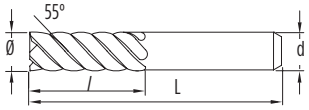
Codolo: HA - DIN6535
Shank

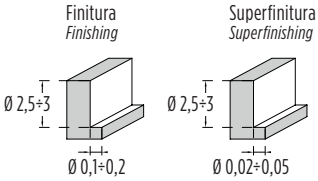




Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	57	8	6	1	**24186**0300	consultare
4	6	57	11	6	1	**24186**0400	listino
5	6	57	13	6	1	**24186**0500	*see price list*
6	6	57	13	6	1	**24186**0600	
8	8	63	19	6	1	**24186**0800	
10	10	72	22	6	1	**24186**1000	
12	12	83	26	6	1	**24186**1200	
14	14	83	26	6	1	**24186**1400	
16	16	92	32	6	1	**24186**1600	
18	18	92	32	8	1	**24186**1800	
20	20	104	38	8	1	**24186**2000	





Acciaio *Steel* | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

SERIE LUNGA - UNIVERSALE - ELICA VARIABILE

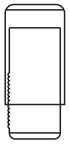
Long serie - Universal - Variable helix

24176 **VHM** **TiAlN** ≈ DIN 6527 L

TOLLERANZA: H10
Tolerance

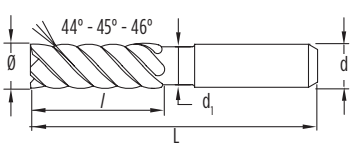
Codolo: HA - DIN6535
Shank

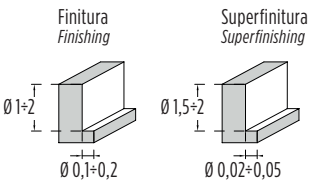




Confezione
Packaging

Ø h10 mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
8	8	7,5	63	19	6	1	**24176**0800	consultare
10	10	9,2	72	22	6	1	**24176**1000	listino
12	12	11,2	83	26	6	1	**24176**1200	*see price list*
16	16	15,0	92	32	6	1	**24176**1600	
20	20	19,0	104	38	6	1	**24176**2000	
25	25	23,5	121	45	6	1	**24176**2500	





R < 750 N/mm²

Inox *Stainless*

R < 1600 N/mm²

Acciaio *Steel* | Alluminio *Aluminum* Si 3÷12% | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

FRESE FRONTALI IN METALLO DURO INTEGRALE PER ALLUMINIO

EN *Carbide end mills for aluminium*
FR *Fraise carbure pour aluminium*
ESP *Fresas frontales de metal duro para aluminium*
PT *Fresas frontales de metal duro para aluminium*

SERIE CORTA - SPECIALE ALLUMINIO

Short serie - Special for aluminium

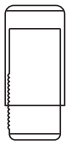
24154 VHM DIN 6527 K



TOLLERANZA: E8
Tolerance

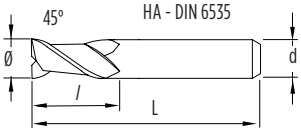
Codolo: HA - DIN6535
Shank

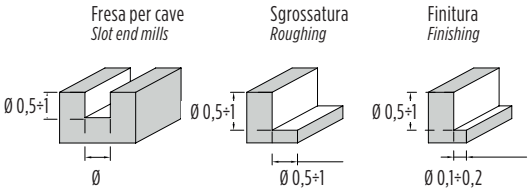




Confezione
Packaging

Ø e8 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	50	4	2	1	**24154**0300	consultare
4	6	54	5	2	1	**24154**0400	listino
5	6	54	6	2	1	**24154**0500	*see price list*
6	6	54	7	2	1	**24154**0600	
8	8	58	9	2	1	**24154**0800	
10	10	66	11	2	1	**24154**1000	
12	12	73	12	2	1	**24154**1200	
14	14	75	14	2	1	**24154**1400	
16	16	82	16	2	1	**24154**1600	
18	18	84	18	2	1	**24154**1800	
20	20	92	20	2	1	**24154**2000	







Alluminio
Aluminum
Si<12%



Emulsione
Lubrificant

SERIE EXTRA LUNGA - SPECIALE ALLUMINIO

Extra long serie - Special for aluminium

24155 VHM NORMA KRINO

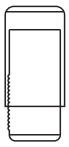
Krino norm



TOLLERANZA: H10
Tolerance

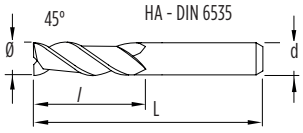
Codolo: - HA - DIN6535
Shank

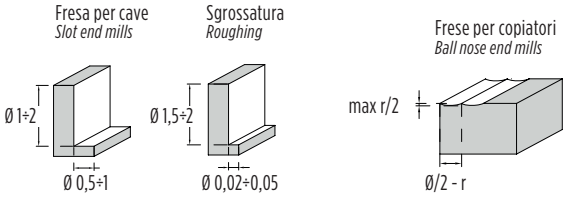




Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
5	5	75	30	2	1	**24155**0500	consultare
6	6	75	30	2	1	**24155**0600	listino
8	8	100	40	2	1	**24155**0800	*see price list*
10	10	100	40	2	1	**24155**1000	
12	12	150	45	2	1	**24155**1200	
16	16	150	65	2	1	**24155**1600	







Alluminio
Aluminum
Si<3%



Emulsione
Lubrificant

Nella lavorazione di alluminio, superleghe di titanio e quando ci sia pericolo di incollaggio trucioli si consiglia l'uso di fresatura concorde, che è anche indicata nel caso di lavorazioni di spessori sottili, perché le forze di taglio aiutano a tenere saldo il pezzo in lavorazione.

When machining aluminum, titanium superalloys and whenever there is a risk of chip bonding, we recommend the use of concordant milling, which is also suitable for thin-wall machining, because the cutting forces help to keep the workpiece firmly in place.

FRESE FRONTALI IN METALLO DURO INTEGRALE PER ALLUMINIO

EN *Carbide end mills for aluminium*
FR *Fraise carbure pour aluminium*
ESP *Fresas frontales de metal duro para aluminium*
PT *Fresas frontales de metal duro para aluminium*

SERIE LUNGA - SPECIALE ALLUMINIO

Long serie - Special for aluminium

24180 VHM NORMA KRINO

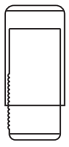
Krino norm

Metallo duro
Carbide

TOLLERANZA: E8
Tolerance

Codolo: HA - DIN6535
Shank

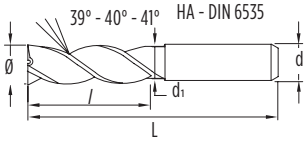


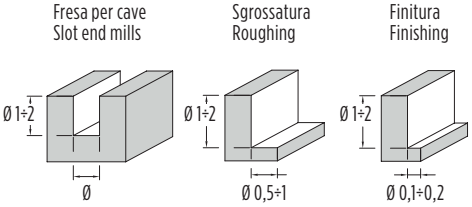


Confezione
Packaging

v mm	d mm	d_1 mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	2,7	57	8	3	1	**24180**0300	consultare
4	6	3,7	57	11	3	1	**24180**0400	listino
5	6	4,7	57	13	3	1	**24180**0500	*see price list*
6	6	5,5	57	13	3	1	**24180**0600	
8	8	7,5	63	16	3	1	**24180**0800	
10	10	9,2	72	19	3	1	**24180**1000	
12	12	11,2	83	22	3	1	**24180**1200	
16	16	11,2	92	32	3	1	**24180**1600	
20	20	19,0	104	38	3	1	**24180**2000	

Le eliche variabili garantiscono minori vibrazioni, migliore finitura, maggiore rendimento.
The variable helix ensures less vibration, better finishing, higher efficiency.





Alluminio
Aluminum

Emulsione
Lubrificant

SERIE LUNGA - SPECIALE ALLUMINIO - CON CANALINA DI LUBROREFRIGERAZIONE

Long serie - Special for aluminium - with Cooling System

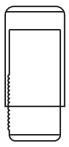
24156 VHM ~ DIN 6527 L

Taglienti raggiati
Corner radius

TOLLERANZA: H10
Tolerance

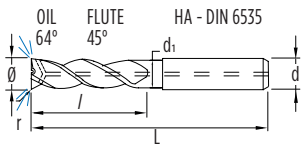
Codolo: ~ HA - DIN6535
Shank

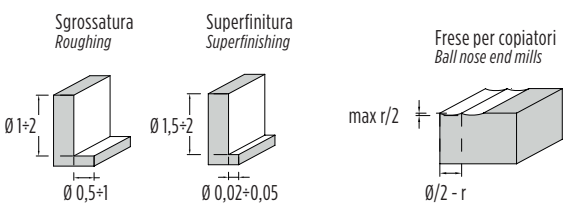




Confezione
Packaging

Ø h10 mm	d mm	d_1 mm	L mm	l mm	r mm	z	pcs.	cod.	cad/ each €
6	6	5,7	57	10	1	3	1	**24156**0600	consultare
8	8	7,7	63	16	1	3	1	**24156**0800	listino
10	10	9,5	72	19	1,5	3	1	**24156**1000	*see price list*
12	12	11,5	83	22	1,5	3	1	**24156**1200	
16	16	15,5	92	26	2	3	1	**24156**1600	
20	20	19,5	104	32	2,5	3	1	**24156**2000	





Alluminio
Aluminum
Si<12%

Emulsione
Lubrificant

FRESE FRONTALI A RAGGIO IN METALLO DURO INTEGRALE

EN *Carbide end mills with ball end*
FR *Fraise carbure à bout hémisphérique*
ESP *Fresas frontales radiales de metal duro*
PT *Fresas de topo de metal duro com extremidade esférica*

SERIE LUNGA
Long serie

24157 VHM DIN 6527 L





Ø f9 mm	d mm	L mm	l mm	r mm	z	pcs.	cod.	cad/ each €
2	6	57	6	1	2	1	**24157**0200	consultare
3	6	57	7	1,5	2	1	**24157**0300	listino
4	6	57	8	2	2	1	**24157**0400	*see price list*
5	6	57	10	2,5	2	1	**24157**0500	
6	6	57	10	3	2	1	**24157**0600	
8	8	63	16	4	2	1	**24157**0800	
10	10	72	19	5	2	1	**24157**1000	
12	12	83	22	6	2	1	**24157**1200	
14	14	83	22	7	2	1	**24157**1400	
16	16	92	26	8	2	1	**24157**1600	
18	18	92	26	9	2	1	**24157**1800	
20	20	104	32	10	2	1	**24157**2000	

TOLLERANZA: F9
Tolerance

Codolo: HA - DIN6535
Shank

24159 VHM TiAlN DIN 6527 L

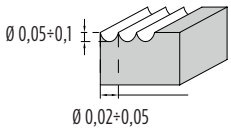


Ø f9 mm	d mm	L mm	l mm	r mm	z	pcs.	cod.	cad/ each €
2	6	57	6	1	2	1	**24159**0200	consultare
3	6	57	7	1,5	2	1	**24159**0300	listino
4	6	57	8	2	2	1	**24159**0400	*see price list*
5	6	57	10	2,5	2	1	**24159**0500	
6	6	57	10	3	2	1	**24159**0600	
8	8	63	16	4	2	1	**24159**0800	
10	10	72	19	5	2	1	**24159**1000	
12	12	83	22	6	2	1	**24159**1200	
14	14	83	22	7	2	1	**24159**1400	
16	16	92	26	8	2	1	**24159**1600	
18	18	92	26	9	2	1	**24159**1800	
20	20	104	32	10	2	1	**24159**2000	

TOLLERANZA: F9
Tolerance

Codolo: HA - DIN6535
Shank

Frese per copiatori
Ball nose end mills



SERIE EXTRA LUNGA
Extra Long serie

24158 VHM NORMA KRINO
Krino norm

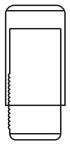




Ø f9 mm	d mm	L mm	l mm	r mm	z	pcs.	cod.	cad/ each €
3	3	75	20	1,5	2	1	**24158**0300	consultare
4	4	75	25	2	2	1	**24158**0400	listino
5	5	75	30	2,5	2	1	**24158**0500	*see price list*
6	6	75	30	3	2	1	**24158**0600	
8	8	100	40	4	2	1	**24158**0800	
10	10	100	40	5	2	1	**24158**1000	
12	12	150	45	6	2	1	**24158**1200	

TOLLERANZA: F9
Tolerance

Codolo: HA - DIN6535
Shank



Confezione
Packaging

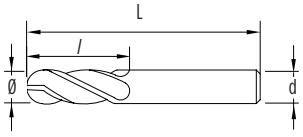
24160 VHM TiAlN NORMA KRINO
Krino norm



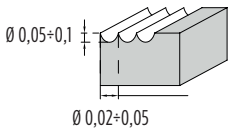
Ø f9 mm	d mm	L mm	l mm	r mm	z	pcs.	cod.	cad/ each €
3	3	75	20	1,5	2	1	**24160**0300	consultare
4	4	75	25	2	2	1	**24160**0400	listino
5	5	75	30	2,5	2	1	**24160**0500	*see price list*
6	6	75	30	3	2	1	**24160**0600	
8	8	100	40	4	2	1	**24160**0800	
10	10	100	40	5	2	1	**24160**1000	
12	12	150	45	6	2	1	**24160**1200	

TOLLERANZA: F9
Tolerance

Codolo: HA - DIN6535
Shank



Frese per copiatori
Ball nose end mills



R < 850 N/mm²

Acciaio
Steel

Metalli
Metals

Alluminio
Aluminum
Si 3÷12%

Emulsione
Lubrificant

FRESE FRONTALI A RAGGIO IN METALLO DURO INTEGRALE

EN *Carbide end mills with ball end*
FR *Fraise carbure à bout hémisphérique*
ESP *Fresas frontales radiales de metal duro*
PT *Fresas de topo de metal duro com extremidade esférica*

SERIE LUNGA
long serie

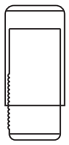
24179 **VHM** **TiAlN** **DIN 6528**



TOLLERANZA: H10
Tolerance

Codolo: HA - DIN6535
Shank

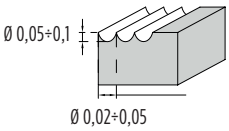




Confezione
Packaging

Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	4	50	11	4	1	**24179**0400	consultare
5	5	50	13	4	1	**24179**0500	listino
6	6	57	13	4	1	**24179**0600	*see price list*
8	8	63	19	4	1	**24179**0800	
10	10	72	22	4	1	**24179**1000	
12	12	83	26	4	1	**24179**1200	
14	14	83	26	4	1	**24179**1400	
16	16	92	32	4	1	**24179**1600	
18	18	92	32	4	1	**24179**1800	
20	20	104	38	4	1	**24179**2000	

Frese per copiatori
Ball nose end mills



R < 1200 N/mm²


Acciaio
Steel


Metalli
Metals



Alluminio
Aluminum
Si 3÷12%


Emulsione
Lubrificant


Ghisa
Cast Iron
HB30<200


A secco
dry

FRESE FRONTALI CILINDRICHE A 2 TAGLIENTI IN HSS-CO 8%

EN *HSS-CO 8% two flutes end mills*
FR *Fraises à rainurer HSS-CO 8%, deux dents*
ESP *Fresas frontales HSS-CO 8%*
PT *Fresas de topo HSS-CO 8% com duas ranhuras*

SERIE CORTA
Short serie

24001 HSS-CO 8% DIN 327 D





Ø mm	tol.	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	e8	6	48	4	2	1	24001**0200**	consultare
2,5	e8	6	49	5	2	1	24001**0250**	listino
3	e8	6	49	5	2	1	24001**0300**	*see price list*
3,5	h10	6	51	7	2	1	24001**0350**	
4	e8	6	51	7	2	1	24001**0400**	
4,5	h10	6	52	8	2	1	24001**0450**	
5	e8	6	52	8	2	1	24001**0500**	
5,5	h10	6	52	8	2	1	24001**0550**	
6	e8	6	52	8	2	1	24001**0600**	
6,5	h10	10	60	10	2	1	24001**0650**	
7	e8	10	60	10	2	1	24001**0700**	
7,5	h10	10	61	11	2	1	24001**0750**	
8	e8	10	61	11	2	1	24001**0800**	
8,5	h10	10	61	11	2	1	24001**0850**	
9	h10	10	61	11	2	1	24001**0900**	
9,5	h10	10	63	13	2	1	24001**0950**	
10	e8	10	63	13	2	1	24001**1000**	
11	h10	12	73	16	2	1	24001**1100**	
12	e8	12	73	16	2	1	24001**1200**	
13	h10	12	73	16	2	1	24001**1300**	
14	e8	12	73	16	2	1	24001**1400**	
15	h10	12	79	19	2	1	24001**1500**	
16	e8	16	79	19	2	1	24001**1600**	
18	e8	16	79	19	2	1	24001**1800**	
20	e8	20	88	22	2	1	24001**2000**	

TOLLERANZA: E8/H10
Tolerance

Codolo: B - DIN1835
Shank

24003 HSS-CO 8% TiAlN DIN 327 D

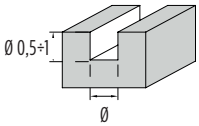


Ø mm	tol.	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	e8	6	48	4	2	1	24003**0200**	consultare
2,5	e8	6	49	5	2	1	24003**0250**	listino
3	e8	6	49	5	2	1	24003**0300**	*see price list*
3,5	h10	6	51	7	2	1	24003**0350**	
4	e8	6	51	7	2	1	24003**0400**	
4,5	h10	6	52	8	2	1	24003**0450**	
5	e8	6	52	8	2	1	24003**0500**	
5,5	h10	6	52	8	2	1	24003**0550**	
6	e8	6	52	8	2	1	24003**0600**	
6,5	h10	10	60	10	2	1	24003**0650**	
7	e8	10	60	10	2	1	24003**0700**	
7,5	h10	10	61	11	2	1	24003**0750**	
8	e8	10	61	11	2	1	24003**0800**	
8,5	h10	10	61	11	2	1	24003**0850**	
9	h10	10	61	11	2	1	24003**0900**	
9,5	h10	10	63	13	2	1	24003**0950**	
10	e8	10	63	13	2	1	24003**1000**	
11	h10	12	73	16	2	1	24003**1100**	
12	e8	12	73	16	2	1	24003**1200**	
13	h10	12	73	16	2	1	24003**1300**	
14	e8	12	73	16	2	1	24003**1400**	
15	h10	12	79	19	2	1	24003**1500**	
16	e8	16	79	19	2	1	24003**1600**	
18	e8	16	79	19	2	1	24003**1800**	
20	e8	20	88	22	2	1	24003**2000**	

TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank

Fresa per cave
Slot end mills



SERIE LUNGA
Long serie

24002 HSS-CO 8% DIN 844 L

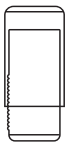




Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	56	12	2	1	24002**0300**	consultare
4	6	63	19	2	1	24002**0400**	listino
5	6	68	24	2	1	24002**0500**	*see price list*
6	6	68	24	2	1	24002**0600**	
8	10	88	38	2	1	24002**0800**	
10	10	95	45	2	1	24002**1000**	
12	12	110	53	2	1	24002**1200**	
14	12	110	53	2	1	24002**1400**	
16	16	123	63	2	1	24002**1600**	
18	16	123	63	2	1	24002**1800**	
20	20	141	75	2	1	24002**2000**	

TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank



Confezione
Packaging

24004 HSS-CO 8% TiAlN DIN 844 L

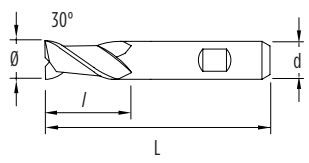


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	56	12	2	1	24004**0300**	consultare
4	6	63	19	2	1	24004**0400**	listino
5	6	68	24	2	1	24004**0500**	*see price list*
6	6	68	24	2	1	24004**0600**	
8	10	88	38	2	1	24004**0800**	
10	10	95	45	2	1	24004**1000**	
12	12	110	53	2	1	24004**1200**	
14	12	110	53	2	1	24004**1400**	
16	16	123	63	2	1	24004**1600**	
18	16	123	63	2	1	24004**1800**	
20	20	141	75	2	1	24004**2000**	

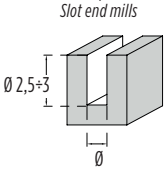
TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.



Fresa per cave
Slot end mills




Acciaio
Steel


Metalli
Metals


Emulsione
Lubrificant


Ghisa
Cast Iron
HB30<200


A secco
dry

FRESE FRONTALI CILINDRICHE A 3 TAGLIENTI IN HSS-CO 8%

EN *HSS-CO 8% three flutes end mills*
FR *Fraises à rainurer HSS-CO 8%, trois dents*
ESP *Fresas frontales HSS-CO 8%*
PT *Fresas de topo HSS-CO 8% com três ranhuras*

SERIE CORTA
Short serie

24009 HSS-CO 8% DIN 844 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	52	13	3	1	**24009**0300	consultare
4	6	55	13	3	1	**24009**0400	listino
5	6	57	13	3	1	**24009**0500	*see price list*
6	6	57	13	3	1	**24009**0600	
8	10	69	19	3	1	**24009**0800	
10	10	72	22	3	1	**24009**1000	
12	12	79	22	3	1	**24009**1200	
14	12	83	26	3	1	**24009**1400	
16	16	92	32	3	1	**24009**1600	
18	16	92	32	3	1	**24009**1800	
20	20	104	38	3	1	**24009**2000	



TOLLERANZA: E8/H10
Tolerance

Codolo: B - DIN1835
Shank

24011 HSS-CO 8% TiAlN DIN 844 K

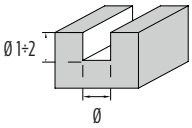


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	52	13	3	1	**24011**0300	consultare
4	6	55	13	3	1	**24011**0400	listino
5	6	57	13	3	1	**24011**0500	*see price list*
6	6	57	13	3	1	**24011**0600	
8	10	69	19	3	1	**24011**0800	
10	10	72	22	3	1	**24011**1000	
12	12	79	22	3	1	**24011**1200	
14	12	83	26	3	1	**24011**1400	
16	16	92	32	3	1	**24011**1600	
18	16	92	32	3	1	**24011**1800	
20	20	104	38	3	1	**24011**2000	

TOLLERANZA: E8/H10
Tolerance

Codolo: B - DIN1835
Shank

Fresa per cave
Slot end mills



SERIE LUNGA
Long serie

24010 HSS-CO 8% DIN 844 L

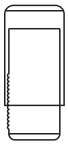


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	56	12	3	1	**24010**0300	consultare
4	6	63	19	3	1	**24010**0400	listino
5	6	68	24	3	1	**24010**0500	*see price list*
6	6	68	24	3	1	**24010**0600	
8	10	88	38	3	1	**24010**0800	
10	10	95	45	3	1	**24010**1000	
12	12	110	53	3	1	**24010**1200	
14	12	110	53	3	1	**24010**1400	
16	16	123	63	3	1	**24010**1600	
18	16	123	63	3	1	**24010**1800	
20	20	141	75	3	1	**24010**2000	

TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank





Confezione
Packaging

24012 HSS-CO 8% TiAlN DIN 844 L

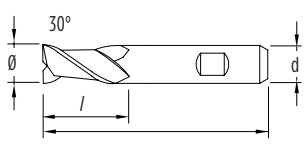


Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	56	12	3	1	**24012**0300	consultare
4	6	63	19	3	1	**24012**0400	listino
5	6	68	24	3	1	**24012**0500	*see price list*
6	6	68	24	3	1	**24012**0600	
8	10	88	38	3	1	**24012**0800	
10	10	95	45	3	1	**24012**1000	
12	12	110	53	3	1	**24012**1200	
14	12	110	53	3	1	**24012**1400	
16	16	123	63	3	1	**24012**1600	
18	16	123	63	3	1	**24012**1800	
20	20	141	75	3	1	**24012**2000	

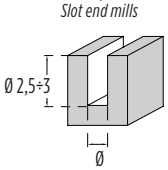
TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.



Fresa per cave
Slot end mills



Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI IN HSS-CO 8%

EN *HSS-CO 8% four flutes end mills*
FR *Fraises à rainurer HSS-CO 8%, quatre dents*
ESP *Fresas frontales HSS-CO 8%*
PT *Fresas de topo HSS-CO 8% com quatro ranhuras*

SERIE CORTA
Short serie

24013 HSS-CO 8% DIN 844 K

UNIVERSALE / ***Universal***



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	52	8	4	1	**24013**0300	consultare
4	6	55	11	4	1	**24013**0400	listino
5	6	57	13	4	1	**24013**0500	*see price list*
6	6	57	13	4	1	**24013**0600	
7	10	66	16	4	1	**24013**0700	
8	10	69	19	4	1	**24013**0800	
9	10	69	19	4	1	**24013**0900	
10	10	72	22	4	1	**24013**1000	
12	12	83	26	4	1	**24013**1200	
14	12	83	26	4	1	**24013**1400	
16	16	92	32	4	1	**24013**1600	
18	16	92	32	4	1	**24013**1800	
20	20	104	38	4	1	**24013**2000	
22	20	104	38	6	1	**24013**2200	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

24015 HSS-CO 8% TiAlN DIN 844 K

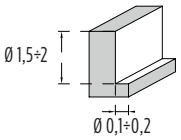


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	52	8	4	1	**24015**0300	consultare
4	6	55	11	4	1	**24015**0400	listino
5	6	57	13	4	1	**24015**0500	*see price list*
6	6	57	13	4	1	**24015**0600	
7	10	66	16	4	1	**24015**0700	
8	10	69	19	4	1	**24015**0800	
9	10	69	19	4	1	**24015**0900	
10	10	72	22	4	1	**24015**1000	
12	12	83	26	4	1	**24015**1200	
14	12	83	26	4	1	**24015**1400	
16	16	92	32	4	1	**24015**1600	
18	16	92	32	4	1	**24015**1800	
20	20	104	38	4	1	**24015**2000	
22	20	104	38	6	1	**24015**2200	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Finitura
Finishing



SERIE LUNGA
Long serie

24014 HSS-CO 8% DIN 844 L



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	6	63	19	4	1	**24014**0400	consultare
5	6	68	24	4	1	**24014**0500	listino
6	6	68	24	4	1	**24014**0600	*see price list*
8	10	88	38	4	1	**24014**0800	
10	10	95	45	4	1	**24014**1000	
12	12	110	53	4	1	**24014**1200	
14	12	110	53	4	1	**24014**1400	
16	16	123	63	4	1	**24014**1600	
18	16	123	63	4	1	**24014**1800	
20	20	141	75	4	1	**24014**2000	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

24016 HSS-CO 8% TiAlN DIN 844 L

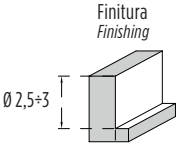


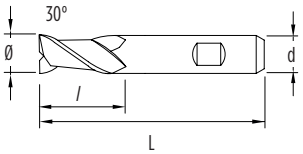
Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
4	6	63	19	4	1	**24016**0400	consultare
5	6	68	24	4	1	**24016**0500	listino
6	6	68	24	4	1	**24016**0600	*see price list*
8	10	88	38	4	1	**24016**0800	
10	10	95	45	4	1	**24016**1000	
12	12	110	53	4	1	**24016**1200	
14	12	110	53	4	1	**24016**1400	
16	16	123	63	4	1	**24016**1600	
18	16	123	63	4	1	**24016**1800	
20	20	141	75	4	1	**24016**2000	

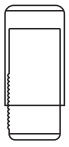
TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Finitura
Finishing







Confezione
Packaging

Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

Ghisa
Cast Iron
HB30<200

A secco
dry

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200.
Steel and metals with R<850 N/mm², cast iron with HB30<200.

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI A SGROSSARE IN HSS-CO 8%

EN *HSS-CO 8% four flutes end mills, for roughing purpose*
FR *Fraises à rainurer HSS-CO 8%, pour dégrossissage, quatre dents*
ESP *Fresas frontales HSS-CO 8%*
PT *Fresas de topo HSS-CO 8% com quatro ranhuras, para fins de lapidação*

SERIE CORTA
Short serie

24017 HSS-CO 8% DIN 844 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	57	13	4	1	**24017**0600	consultare
8	10	69	19	4	1	**24017**0800	listino
10	10	72	22	4	1	**24017**1000	*see price list*
12	12	79	22	4	1	**24017**1200	
14	12	83	26	4	1	**24017**1400	
16	16	92	32	4	1	**24017**1600	
18	16	92	32	4	1	**24017**1800	
20	20	104	38	4	1	**24017**2000	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

24019 HSS-CO 8% TiAlN DIN 844 K

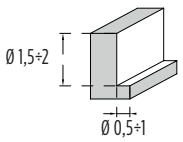


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	57	13	4	1	**24019**0600	consultare
8	10	69	19	4	1	**24019**0800	listino
10	10	72	22	4	1	**24019**1000	*see price list*
12	12	79	22	4	1	**24019**1200	
14	12	83	26	4	1	**24019**1400	
16	16	92	32	4	1	**24019**1600	
18	16	92	32	4	1	**24019**1800	
20	20	104	38	4	1	**24019**2000	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Sgrossatura
Roughing



SERIE LUNGA
Long serie

24018 HSS-CO 8% DIN 844 L



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	68	24	4	1	**24018**0600	consultare
8	10	88	38	4	1	**24018**0800	listino
10	10	95	45	4	1	**24018**1000	*see price list*
12	12	110	53	4	1	**24018**1200	
14	12	110	53	4	1	**24018**1400	
16	16	123	63	4	1	**24018**1600	
18	16	123	63	4	1	**24018**1800	
20	20	141	75	4	1	**24018**2000	
22	20	141	75	4	1	**24018**2200	
25	25	166	90	4	1	**24018**2500	
28	25	166	90	4	1	**24018**2800	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Confezione
Packaging

24020 HSS-CO 8% TiAlN DIN 844 L

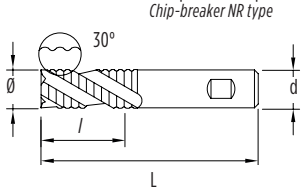


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	68	24	4	1	**24020**0600	consultare
8	10	88	38	4	1	**24020**0800	listino
10	10	95	45	4	1	**24020**1000	*see price list*
12	12	110	53	4	1	**24020**1200	
14	12	110	53	4	1	**24020**1400	
16	16	123	63	4	1	**24020**1600	
18	16	123	63	4	1	**24020**1800	
20	20	141	75	4	1	**24020**2000	
22	20	141	75	4	1	**24020**2200	
25	25	166	90	4	1	**24020**2500	
28	25	166	90	4	1	**24020**2800	

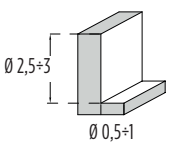
TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Rompitruciolo tipo NR
Chip-breaker NR type



Sgrossatura
Roughing



Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200, acciai molto duri con R<1000 N/mm².
Steel and metals with R<850 N/mm², cast iron with HB30<200, hard steel with R<1000 N/mm².

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI PER SEMIFINITURA IN HSS-CO 8%

EN *HSS-CO 8% four flutes end mills, for finishing purpose*
FR *Fraises à rainurer HSS-CO 8%, quatre dents, pour semi-finissage,*
ESP *Fresas frontales HSS-CO 8%*
PT *Fresas de topo HSS-CO 8% com quatro ranhuras, para fins de acabamento*

SERIE CORTA
Short serie

24021 HSS-CO 8% DIN 844 K



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	57	13	4	1	**24021**0600	consultare
8	10	69	19	4	1	**24021**0800	listino
10	10	72	22	4	1	**24021**1000	*see price list*
12	12	83	26	4	1	**24021**1200	
14	12	83	26	4	1	**24021**1400	
16	16	92	32	4	1	**24021**1600	
18	16	92	32	4	1	**24021**1800	
20	20	104	38	4	1	**24021**2000	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

24023 HSS-CO 8% TiAlN DIN 844 K

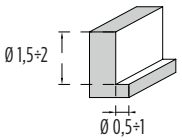


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	57	13	4	1	**24023**0600	consultare
8	10	69	19	4	1	**24023**0800	listino
10	10	72	22	4	1	**24023**1000	*see price list*
12	12	83	26	4	1	**24023**1200	
14	12	83	26	4	1	**24023**1400	
16	16	92	32	4	1	**24023**1600	
18	16	92	32	4	1	**24023**1800	
20	20	104	38	4	1	**24023**2000	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Semifinitura
semifinishing



SERIE LUNGA
Long serie

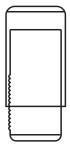
24022 HSS-CO 8% DIN 844 L



Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	68	24	4	1	**24022**0600	consultare
8	10	88	38	4	1	**24022**0800	listino
10	10	95	45	4	1	**24022**1000	*see price list*
12	12	110	53	4	1	**24022**1200	
14	12	110	53	4	1	**24022**1400	
16	16	123	63	4	1	**24022**1600	
18	16	123	63	4	1	**24022**1800	
20	20	141	75	4	1	**24022**2000	
22	20	141	75	4	1	**24022**2200	
25	25	166	90	4	1	**24022**2500	
28	25	166	90	4	1	**24022**2800	

TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank



Confezione
Packaging

24024 HSS-CO 8% TiAlN DIN 844 L

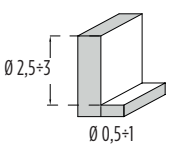


Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
6	6	68	24	4	1	**24024**0600	consultare
8	10	88	38	4	1	**24024**0800	listino
10	10	95	45	4	1	**24024**1000	*see price list*
12	12	110	53	4	1	**24024**1200	
14	12	110	53	4	1	**24024**1400	
16	16	123	63	4	1	**24024**1600	
18	16	123	63	4	1	**24024**1800	
20	20	141	75	4	1	**24024**2000	
22	20	141	75	4	1	**24024**2200	
25	25	166	90	4	1	**24024**2500	
28	25	166	90	4	1	**24024**2800	

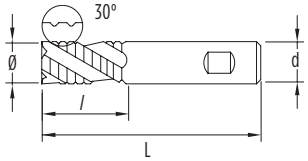
TOLLERANZA: JS12
Tolerance

Codolo: B - DIN1835
Shank

Semifinitura
semifinishing



Rompitruciolo tipo NF
Chip-breaker NF type



Acciaio
Steel

Metalli
Metals

Emulsione
Lubrificant

Ghisa
Cast Iron
HB30<200

A secco
dry

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200, acciai molto duri con R<1000 N/mm².
Steel and metals with R<850 N/mm², cast iron with HB30<200, hard steel with R<1000 N/mm².

FRESE FRONTALI A RAGGIO IN HSS-CO 8%

EN *HSS-CO 8% round edge end mills*
FR *Fraises à rainurer à bout hémisphérique HSS-CO 8%*
ESP *Fresas frontales HSS-C08%*
PT *Fresas de topo de arestas redondas HSS-C08%*

SERIE CORTA
Short serie

24005 HSS-CO 8% DIN 327 D





e8 h10 Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	48	4	2	1	24005**0200**	consultare
3	6	49	5	2	1	24005**0300**	listino
4	6	51	7	2	1	24005**0400**	*see price list*
5	6	52	8	2	1	24005**0500**	
6	6	52	8	2	1	24005**0600**	
7	10	60	10	2	1	24005**0700**	
8	10	61	11	2	1	24005**0800**	
9	10	61	11	2	1	24005**0900**	
10	10	63	13	2	1	24005**1000**	
12	12	73	16	2	1	24005**1200**	
14	12	73	16	2	1	24005**1400**	
16	16	79	19	2	1	24005**1600**	
18	16	79	19	2	1	24005**1800**	
20	20	88	22	2	1	24005**2000**	

TOLLERANZA: E8 H10
Tolerance

Codolo: B - DIN1835
Shank

24007 HSS-CO 8% TiAlN DIN 327 D

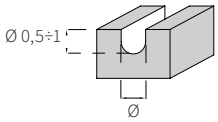


e8 h10 Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
2	6	48	4	2	1	24007**0200**	consultare
3	6	49	5	2	1	24007**0300**	listino
4	6	51	7	2	1	24007**0400**	*see price list*
5	6	52	8	2	1	24007**0500**	
6	6	52	8	2	1	24007**0600**	
7	10	60	10	2	1	24007**0700**	
8	10	61	11	2	1	24007**0800**	
9	10	61	11	2	1	24007**0900**	
10	10	63	13	2	1	24007**1000**	
12	12	73	16	2	1	24007**1200**	
14	12	73	16	2	1	24007**1400**	
16	16	79	19	2	1	24007**1600**	
18	16	79	19	2	1	24007**1800**	
20	20	88	22	2	1	24007**2000**	

TOLLERANZA: E8 H10
Tolerance

Codolo: B - DIN1835
Shank

Frese per cave
Slot end mills



Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200
Steel and metals with R<850 N/mm², cast iron with HB30<200

SERIE LUNGA
Long serie

24006 HSS-CO 8% NORMA KRINO
Krino norm

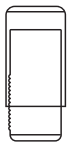




Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	56	8	2	1	24006**0300**	consultare
4	6	63	11	2	1	24006**0400**	listino
5	6	68	13	2	1	24006**0500**	*see price list*
6	6	68	13	2	1	24006**0600**	
8	10	88	19	2	1	24006**0800**	
10	10	95	22	2	1	24006**1000**	
12	12	110	26	2	1	24006**1200**	
14	12	110	26	2	1	24006**1400**	
16	16	123	32	2	1	24006**1600**	
18	16	123	32	2	1	24006**1800**	
20	20	141	38	2	1	24006**2000**	

TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank



Confezione
Packaging

24008 HSS-CO 8% TiAlN NORMA KRINO
Krino norm

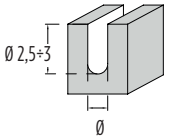


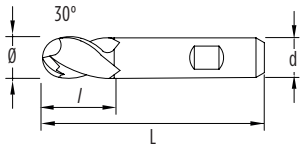
Ø h10 mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	6	56	8	2	1	24008**0300**	consultare
4	6	63	11	2	1	24008**0400**	listino
5	6	68	13	2	1	24008**0500**	*see price list*
6	6	68	13	2	1	24008**0600**	
8	10	88	19	2	1	24008**0800**	
10	10	95	22	2	1	24008**1000**	
12	12	110	26	2	1	24008**1200**	
14	12	110	26	2	1	24008**1400**	
16	16	123	32	2	1	24008**1600**	
18	16	123	32	2	1	24008**1800**	
20	20	141	38	2	1	24008**2000**	

TOLLERANZA: H10
Tolerance

Codolo: B - DIN1835
Shank

Fresa per cave
Slot end mills





Acciaio *Steel* | Metalli *Metals* | Emulsione *Lubrificant* | Ghisa *Cast Iron* HB30<200 | A secco *dry*

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200
Steel and metals with R<850 N/mm², cast iron with HB30<200

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI IN HSS-CO 5% CON ATTACCO CONICO MORSE

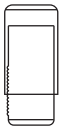
EN *HSS-CO 5% Morse taper end mills*
FR *Fraises à rainurer HSS-C05%, queue Morse*
ESP *Fresas frontales HSS-C05%, vastago Morse*
PT *Fresas de topo cónicas hss-co5% morse*

24025 HSS-CO 5% DIN 845K

SERIE CORTA
Short serie



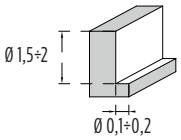




Confezione
Packaging

Ø k10 mm	CM MK	M	FORM	L mm	l mm	z	pcs.	cod.	cad/ each €
16	2	M10	A	117	32	4	1	**240251600**	consultare
18	2	M10	A	117	32	4	1	**240251800**	listino
20	2	M10	A	123	38	4	1	**240252000**	*see price list*
25	3	M12	A	147	45	6	1	**240252500**	
28	3	M12	A	147	45	6	1	**240252800**	
30	3	M12	A	147	45	6	1	**240253000**	
32	4	M16	A	178	53	6	1	**240253200**	
40	4	M16	A	178	63	6	1	**240254000**	

Finitura
Finishing

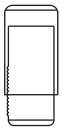


24026 HSS-CO 5% DIN 845L

SERIE LUNGA
Long serie

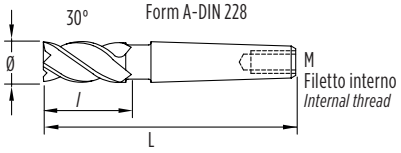




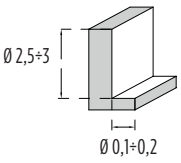


Confezione
Packaging

Ø k10 mm	CM MK	M	FORM	L mm	l mm	z	pcs.	cod.	cad/ each €
16	2	M10	A	148	63	4	1	**240261600**	consultare
20	2	M10	A	160	75	4	1	**240262000**	listino
25	3	M12	A	192	90	6	1	**240262500**	*see price list*
28	3	M12	A	192	90	6	1	**240262800**	
32	4	M16	A	231	106	6	1	**240263200**	
40	4	M16	A	250	125	6	1	**240264000**	



Finitura
Finishing




Acciaio
Steel


Metalli
Metals


Emulsione
Lubrificant


Ghisa
Cast Iron
HB30<200


A secco
dry

Acciai e metalli con R<850 N/mm², ghisa con durezza HB30<200
Steel and metals with R<850 N/mm², cast iron with HB30<200

FRESE FRONTALI CILINDRICHE A 4 TAGLIENTI A SGROSSARE IN HSS-CO 5% CON ATTACCO CONICO MORSE

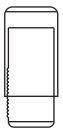
EN *HSS-CO 5% Morse taper end mills for roughing purpose*
FR *Fraises à rainurer HSS-CO5%, queue Morse, pour dégrossissage*
ESP *Fresas frontales HSS-CO5%, vastago Morse*
PT *Fresas de topo cónicas hss-co5% morse para fins de lapidação*

24029 **HSS-CO 5%** **DIN 845K**

SERIE CORTA
Short serie



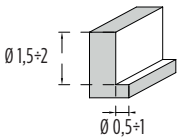




Confezione
Packaging

Ø k10 mm	CM MK	M	FORM	L mm	l mm	z	pcs.	cod.	cad/ each €
16	2	M10	A	117	32	4	1	**24029**1600	consultare
18	2	M10	A	117	32	4	1	**24029**1800	listino
20	2	M10	A	123	38	4	1	**24029**2000	*see price list*
25	3	M12	A	147	45	6	1	**24029**2500	
28	3	M12	A	147	45	6	1	**24029**2800	
30	3	M12	A	147	45	6	1	**24029**3000	

Sgrossatura
Roughing



FRESA FRONTALE PER PANTOGRAFI A UN DENTE PER ALLUMINIO

EN *One flute end mills for aluminium*
FR *Fraises à une goujure pour l'aluminium*
ESP *Fresas de un solo filo para aluminio*
PT *Fresas de topo de uma ranhura para alumínio*

26100 **HSS-G**

PER ALLUMINIO
For aluminium

1 Dente
1 Cutting edge

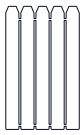


Acciaio
Steel



Emulsione
Lubrificant





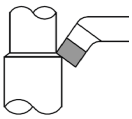
Confezione
Packaging

Ø mm	d mm	L mm	l mm	z	pcs.	cod.	cad/ each €
3	8	60	12	1	1	**26100**03060	consultare
4	8	60	12	1	1	**26100**04060	listino
4	8	80	14	1	1	**26100**04080	*see price list*
5	8	60	12	1	1	**26100**05060	
5	8	80	16	1	1	**26100**05080	
6	8	60	14	1	1	**26100**06060	
6	8	90	16	1	1	**26100**06090	
8	8	80	14	1	1	**26100**08080	
8	8	100	28	1	1	**26100**08100	
10	8	80	14	1	1	**26100**10080	

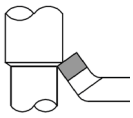
UTENSILI DA TORNIO SALDOBRASATI CON PLACCHETTA IN METALLO DURO

EN *Carbide brazed tools*
FR *Outils brasés au carbure*
ESP *Herramientas soldadas de metal duro*
PT *Ferramentas soldadas em metal duro*

FORMA / *Shape*



R
Destro
Right



L
Sinistro
Left

QUALITÀ METALLO DURO / *Carbide quality*

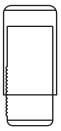


P30
Per accaio
Suitable for steel



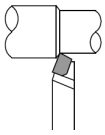
K10
Per ghisa
Suitable for cast iron

Confezione
Packaging



28200 ISO 1 DIN 4971

UTENSILE SGROSSATORE DIRITTO PER PASSATA
Straight Turning Brazed Tools





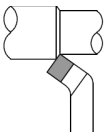


Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	R	P30	**28200**RP300808	consultare
8X8 x 80	R	K10	**28200**RK100808	listino
10x10 x 90	R	P30	**28200**RP301010	*see price list*
10x10 x 90	R	K10	**28200**RK101010	
10x10 x 90	L	P30	**28200**LP301010	
12x12 x 100	R	P30	**28200**RP301212	
12x12 x 100	R	K10	**28200**RK101212	
12x12 x 100	L	P30	**28200**LP301212	

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	R	P30	**28200**RP301616	consultare
16x16 x 110	R	K10	**28200**RK101616	listino
16x16 x 110	L	P30	**28200**LP301616	*see price list*
20x20 x 125	R	P30	**28200**RP302020	
20x20 x 125	R	K10	**28200**RK102020	
20x20 x 125	L	P30	**28200**LP302020	
25x25 x 140	R	P30	**28200**RP302525	
25x25 x 140	R	K10	**28200**RK102525	

28202 ISO 2 DIN 4972

UTENSILE SGROSSATORE PIEGATO PER PASSATA
Bent Turning Brazed Tools







Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	R	P30	**28202**RP300808	consultare
8x8 x 80	L	P30	**28202**LP300808	listino
8x8 x 80	R	K10	**28202**RK100808	*see price list*
8x8 x 80	L	K10	**28202**LK100808	
10x10 x 90	R	P30	**28202**RP301010	
10x10 x 90	L	P30	**28202**LP301010	
10x10 x 90	R	K10	**28202**RK101010	
10x10 x 90	L	K10	**28202**LK101010	
12x12 x 100	R	P30	**28202**RP301212	
12x12 x 100	L	P30	**28202**LP301212	
12x12 x 100	R	K10	**28202**RK101212	
12x12 x 100	L	K10	**28202**LK101212	
16x16 x 110	R	P30	**28202**RP301616	
16x16 x 110	L	P30	**28202**LP301616	

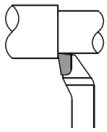
Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	R	K10	**28202**RK101616	consultare
16x16 x 110	L	K10	**28202**LK101616	listino
20x20 x 125	R	P30	**28202**RP302020	*see price list*
20x20 x 125	L	P30	**28202**LP302020	
20x20 x 125	R	K10	**28202**RK102020	
20x20 x 125	L	K10	**28202**LK102020	
25x25 x 140	R	P30	**28202**RP302525	
25x25 x 140	L	P30	**28202**LP302525	
25x25 x 140	R	K10	**28202**RK102525	
25x25 x 140	L	K10	**28202**LK102525	
32x32 x 170	R	P30	**28202**RP303232	
32x32 x 170	L	P30	**28202**LP303232	
32x32 x 170	R	K10	**28202**RK103232	
32x32 x 170	L	K10	**28202**LK103232	

UTENSILI DA TORNIO SALDOBRASATI CON PLACCHETTA IN METALLO DURO

EN *Carbide brazed tools*
FR *Outils brasés au carbure*
ESP *Herramientas soldadas de metal duro*
PT *Ferramentas soldadas em metal duro*

28204 ISO 3 DIN 4978

UTENSILE CURVO PER FINITURA
Off Set Turning Brazed Tools For Corner Work





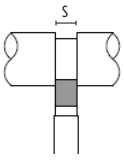


Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
10x10 x 90	R	P30	**28204**RP301010	consultare
10x10 x 90	L	P30	**28204**LP301010	listino
10x10 x 90	R	K10	**28204**RK101010	*see price list*
10x10 x 90	L	K10	**28204**LK101010	
10x16 x 110	R	P30	**28204**RP301016	
10x16 x 110	L	P30	**28204**LP301016	
10x16 x 110	R	K10	**28204**RK101016	
10x16 x 110	L	K10	**28204**LK101016	
12x12 x 100	R	P30	**28204**RP301212	
12x12 x 100	L	P30	**28204**LP301212	
12x12 x 100	R	K10	**28204**RK101212	
12x12 x 100	L	K10	**28204**LK101212	
12x20 x 125	R	P30	**28204**RP301220	
12x20 x 125	L	P30	**28204**LP301220	
12x20 x 125	R	K10	**28204**RK101220	
12x20 x 125	L	K10	**28204**LK101220	
16x16 x 110	R	P30	**28204**RP301616	
16x16 x 110	L	P30	**28204**LP301616	

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	R	K10	**28204**RK101616	consultare
16x16 x 110	L	K10	**28204**LK101616	listino
16x25 x 140	R	P30	**28204**RP301625	*see price list*
16x25 x 140	L	P30	**28204**LP301625	
16x25 x 140	R	K10	**28204**RK101625	
16x25 x 140	L	K10	**28204**LK101625	
20x20 x 125	R	P30	**28204**RP302020	
20x20 x 125	L	P30	**28204**LP302020	
20x20 x 125	R	K10	**28204**RK102020	
20x20 x 125	L	K10	**28204**LK102020	
20x32 x 170	R	P30	**28204**RP302032	
20x32 x 170	L	P30	**28204**LP302032	
20x32 x 170	R	K10	**28204**RK102032	
20x32 x 170	L	K10	**28204**LK102032	
25x25 x 140	R	P30	**28204**RP302525	
25x25 x 140	L	P30	**28204**LP302525	
25x25 x 140	R	K10	**28204**RK102525	
25x25 x 140	L	K10	**28204**LK102525	

28206 ISO 4 DIN 4976

UTENSILE FRONTALE A TESTA LARGA
Wide Face Square Nose Brazed Tools







Dimensione *Dimension*	s	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	8	R	P30	**28206**RP300808	consultare
8x8 x 80	8	R	K10	**28206**RK100808	listino
10x10 x 90	10	R	P30	**28206**RP301010	*see price list*
10x10 x 90	10	R	K10	**28206**RK101010	
12x12 x 100	12	R	P30	**28206**RP301212	
12x12 x 100	12	R	K10	**28206**RK101212	

Dimensione *Dimension*	s	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	16	R	P30	**28206**RP301616	consultare
16x16 x 110	16	R	K10	**28206**RK101616	listino
20x20 x 125	20	R	P30	**28206**RP302020	*see price list*
20x20 x 125	20	R	K10	**28206**RK102020	
25x25 x 140	25	R	P30	**28206**RP302525	
25x25 x 140	25	R	K10	**28206**RK102525	

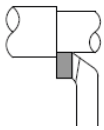
UTENSILI DA TORNIO SALDOBRASATI CON PLACCHETTA IN METALLO DURO

EN *Carbide brazed tools*
FR *Outils brasés au carbure*
ESP *Herramientas soldadas de metal duro*
PT *Ferramentas soldadas em metal duro*

28208 ISO 5 DIN 4977

UTENSILE PIEGATO A SPIANARE E INTESTARE

Off Set face Turning Brazed Tools







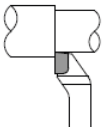
Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	R	P30	**28208**RP300808	consultare
8x8 x 80	L	P30	**28208**LP300808	listino
8x8 x 80	R	K10	**28208**RK100808	*see price list*
8x8 x 80	L	K10	**28208**LK100808	
10x10 x 90	R	P30	**28208**RP301010	
10x10 x 90	L	P30	**28208**LP301010	
10x10 x 90	R	K10	**28208**RK101010	
10x10 x 90	L	K10	**28208**LK101010	
12x12 x 100	R	P30	**28208**RP301212	
12x12 x 100	L	P30	**28208**LP301212	
12x12 x 100	R	K10	**28208**RK101212	
12x12 x 100	L	K10	**28208**LK101212	

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	R	P30	**28208**RP301616	consultare
16x16 x 110	L	P30	**28208**LP301616	listino
16x16 x 110	R	K10	**28208**RK101616	*see price list*
16x16 x 110	L	K10	**28208**LK101616	
20x20 x 125	R	P30	**28208**RP302020	
20x20 x 125	L	P30	**28208**LP302020	
20x20 x 125	R	K10	**28208**RK102020	
20x20 x 125	L	K10	**28208**LK102020	
25x25 x 140	R	P30	**28208**RP302525	
25x25 x 140	L	P30	**28208**LP302525	
25x25 x 140	R	K10	**28208**RK102525	
25x25 x 140	L	K10	**28208**LK102525	

28210 ISO 6 DIN 4980

UTENSILE PIEGATO PER SPALLAMENTI

Off Set Side Turning Brazed Tools







Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	R	P30	**28210**RP300808	consultare
8x8 x 80	L	P30	**28210**LP300808	listino
8x8 x 80	R	K10	**28210**RK100808	*see price list*
8x8 x 80	L	K10	**28210**LK100808	
10x10 x 90	R	P30	**28210**RP301010	
10x10 x 90	L	P30	**28210**LP301010	
10x10 x 90	R	K10	**28210**RK101010	
10x10 x 90	L	K10	**28210**LK101010	
12x12 x 100	R	P30	**28210**RP301212	
12x12 x 100	L	P30	**28210**LP301212	
12x12 x 100	R	K10	**28210**RK101212	
12x12 x 100	L	K10	**28210**LK101212	
16x16 x 110	R	P30	**28210**RP301616	
16x16 x 110	L	P30	**28210**LP301616	

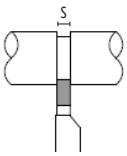
Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	R	K10	**28210**RK101616	consultare
16x16 x 110	L	K10	**28210**LK101616	listino
20x20 x 125	R	P30	**28210**RP302020	*see price list*
20x20 x 125	L	P30	**28210**LP302020	
20x20 x 125	R	K10	**28210**RK102020	
20x20 x 125	L	K10	**28210**LK102020	
25x25 x 140	R	P30	**28210**RP302525	
25x25 x 140	L	P30	**28210**LP302525	
25x25 x 140	R	K10	**28210**RK102525	
25x25 x 140	L	K10	**28210**LK102525	
32x32 x 170	R	P30	**28210**RP303232	
32x32 x 170	L	P30	**28210**LP303232	
32x32 x 170	R	K10	**28210**RK103232	
32x32 x 170	L	K10	**28210**LK103232	

UTENSILI DA TORNIO SALDOBRASATI CON PLACCHETTA IN METALLO DURO

EN *Carbide brazed tools*
FR *Outils brasés au carbure*
ESP *Herramientas soldadas de metal duro*
PT *Ferramentas soldadas em metal duro*

28212 ISO 7 DIN 4981

UTENSILE PER TRONCATURA
Cutting Off Brazed Tools





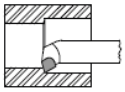


Dimensione *Dimension*	s	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
6x10 x 90	3	R	P30	**28212**RP300610	consultare
6x10 x 90	3	L	P30	**28212**LP300610	listino
6x10 x 90	3	R	K10	**28212**RK100610	*see price list*
6x10 x 90	3	L	K10	**28212**LK100610	
8x12 x 100	3	R	P30	**28212**RP300812	
8x12 x 100	3	L	P30	**28212**LP300812	
8x12 x 100	3	R	K10	**28212**RK100812	
8x12 x 100	3	L	K10	**28212**LK100812	
10x16 x 110	4	R	P30	**28212**RP301016	
10x16 x 110	4	L	P30	**28212**LP301016	
10x16 x 110	4	R	K10	**28212**RK101016	
10x16 x 110	4	L	K10	**28212**LK101016	

Dimensione *Dimension*	s	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
12x20 x 125	5	R	P30	**28212**RP301220	consultare
12x20 x 125	5	L	P30	**28212**LP301220	listino
12x20 x 125	5	R	K10	**28212**RK101220	*see price list*
12x20 x 125	5	L	K10	**28212**LK101220	
16x25 x 140	6	R	P30	**28212**RP301625	
16x25 x 140	6	L	P30	**28212**LP301625	
16x25 x 140	6	R	K10	**28212**RK101625	
16x25 x 140	6	L	K10	**28212**LK101625	
20x32 x 170	8	R	P30	**28212**RP302032	
20x32 x 170	8	L	P30	**28212**LP302032	
20x32 x 170	8	R	K10	**28212**RK102032	
20x32 x 170	8	L	K10	**28212**LK102032	

28214 ISO 8 DIN 4973

UTENSILE AD ALESARE PER FORI PASSANTI
Boring Brazed Tools





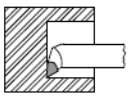


Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 125	R	P30	**28214**RP300808	consultare
8x8 x 125	R	K10	**28214**RK100808	listino
10x10 x 150	R	P30	**28214**RP301010	*see price list*
10x10 x 150	R	K10	**28214**RK101010	
12x12 x 180	R	P30	**28214**RP301212	
12x12 x 180	R	K10	**28214**RK101212	
16x16 x 210	R	P30	**28214**RP301616	

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 210	R	K10	**28214**RK101616	consultare
20x20 x 250	R	P30	**28214**RP302020	listino
20x20 x 250	R	K10	**28214**RK102020	*see price list*
25x25 x 300	R	P30	**28214**RP302525	
25x25 x 300	R	K10	**28214**RK102525	
32x32 x 355	R	P30	**28214**RP303232	
32x32 x 355	R	K10	**28214**RK103232	

28216 ISO 9 DIN 4974

UTENSILE AD ALESARE PER FORI CIECHI
Internal Side Turning Brazed Tools







Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 125	R	P30	**28216**RP300808	consultare
8x8 x 125	R	K10	**28216**RK100808	listino
10x10 x 150	R	P30	**28216**RP301010	*see price list*
10x10 x 150	R	K10	**28216**RK101010	
12x12 x 180	R	P30	**28216**RP301212	
12x12 x 180	R	K10	**28216**RK101212	
16x16 x 210	R	P30	**28216**RP301616	

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 210	R	K10	**28216**RK101616	consultare
20x20 x 250	R	P30	**28216**RP302020	listino
20x20 x 250	R	K10	**28216**RK102020	*see price list*
25x25 x 300	R	P30	**28216**RP302525	
25x25 x 300	R	K10	**28216**RK102525	
32x32 x 355	R	P30	**28216**RP303232	
32x32 x 355	R	K10	**28216**RK103232	

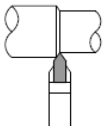
UTENSILI DA TORNIO SALDOBRASATI CON PLACCHETTA IN METALLO DURO

EN *Carbide brazed tools*
FR *Outils brasés au carbure*
ESP *Herramientas soldadas de metal duro*
PT *Ferramentas soldadas em metal duro*

28218 ISO 10 DIN 4975

UTENSILE DIRITTO PER FINITURA

Finishing Brazed Tools







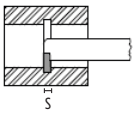
Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	R	P30	**28218**RP300808	consultare
10x10 x 90	R	P30	**28218**RP301010	listino
12x12 x 100	R	P30	**28218**RP301212	*see price list*
16x16 x 110	R	P30	**28218**RP301616	

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
10x16 x 110	R	P30	**28218**RP301016	consultare
12x20 x 125	R	P30	**28218**RP301220	listino
16x25 x 140	R	P30	**28218**RP301625	*see price list*

28220 ISO 11 DIN 263

UTENSILE PER CANALINI INTERNI

Internal Undercutting Brazed Tools







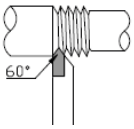
Dimensione *Dimension*	s	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 125	3,3	R	P30	**28220**RP300808	consultare
10x10 x 140	3,6	R	P30	**28220**RP301010	listino
12x12 x 160	4	R	P30	**28220**RP301212	*see price list*

Dimensione *Dimension*	s	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 180	5	R	P30	**28220**RP301616	consultare
20x20 x 210	6	R	P30	**28220**RP302020	listino
25x25 x 250	8	R	P30	**28220**RP302525	*see price list*

28224 ISO 12 DIN 282

UTENSILE PER FILETTATURA ESTERNA A 60°

External Threading Brazed Tools







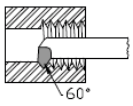
Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 80	R	P30	**28224**RP300808	consultare
10x10 x90	R	P30	**28224**RP301010	listino
12x12 x 100	R	P30	**28224**RP301212	*see price list*

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 110	R	P30	**28224**RP301616	consultare
20x20 x 125	R	P30	**28224**RP302020	listino
25x25 x 140	R	P30	**28224**RP302525	*see price list*

28226 ISO 13 DIN 283

UTENSILE PER FILETTATURA INTERNA A 60°

Internal Side Turning







Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
8x8 x 120	R	P30	**28226**RP300808	consultare
10x10 x 140	R	P30	**28226**RP301010	listino
12x12 x 160	R	P30	**28226**RP301212	*see price list*

Dimensione *Dimension*	Forma *Shape*	Qualità *Quality*	cod.	cad/ each €
16x16 x 180	R	P30	**28226**RP301616	consultare
20x20 x 210	R	P30	**28226**RP302020	listino
25x25 x 250	R	P30	**28226**RP302525	*see price list*

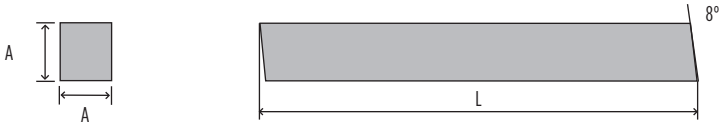
BARRETTE TRATTATE E RETTIFICATE IN HSS-CO 8%

EN *HSS-CO 8% tool bits*
FR *Tiges traitées en HSS-CO 8%*
ESP *Cuchillas HSS de Cobalto 8% para tornio*
PT *Brocas para ferramentas HSS-CO 8%*

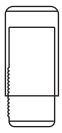
26150 HSS-CO 8% DIN 4964/B

QUADRA
Square





Confezione
Packaging



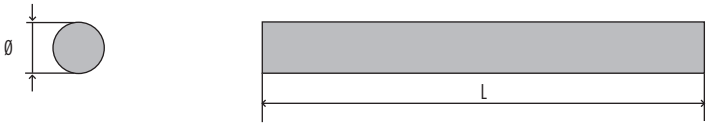
AxA h14	L mm	cod.	cad/ each €
6 x 6	160	**26150**0606160	consultare
6 x 6	200	**26150**0606200	listino
8 x 8	160	**26150**0808160	*see price list*
8 x 8	200	**26150**0808200	
10 x 10	160	**26150**1010160	
10 x 10	200	**26150**1010200	
12 x 12	160	**26150**1212160	
12 x 12	200	**26150**1212200	

AxA h14	L mm	cod.	cad/ each €
14 x 14	160	**26150**1414160	consultare
14 x 14	200	**26150**1414200	listino
16 x 16	160	**26150**1616160	*see price list*
16 x 16	200	**26150**1616200	
18 x 18	160	**26150**1818160	
20 x 20	200	**26150**2020200	
30 x 30	200	**26150**3030200	

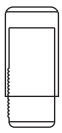
26152 HSS-CO 8% DIN 4964/A

TONDA
Round





Confezione
Packaging



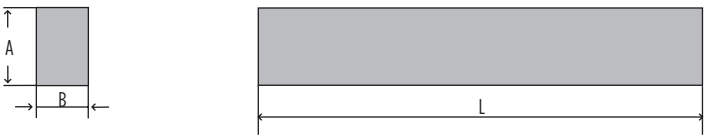
Ø mm h14	L mm	cod.	cad/ each €
5,0	100	**26152**05100	consultare
6,0	100	**26152**06100	listino
6,0	200	**26152**06200	*see price list*
8,0	160	**26152**08160	
8,0	200	**26152**08200	
10,0	100	**26152**10100	
10,0	160	**26152**10160	
10,0	200	**26152**10200	

Ø mm h14	L mm	cod.	cad/ each €
12	160	**26152**12160	consultare
14	160	**26152**14160	listino
14	200	**26152**14200	*see price list*
16	160	**26152**16160	
16	200	**26152**16200	
18	200	**26152**18200	
20	160	**26152**20160	

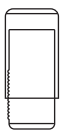
26154 HSS-CO 8% DIN 4964/D

RETTANGOLARE
Rectangular





Confezione
Packaging



AxB h14	L mm	cod.	cad/ each €
10 x 4	160	**26154**1004160	consultare
10 x 5	200	**26154**1005200	listino
12 x 6	200	**26154**1206200	*see price list*
12 x 8	200	**26154**1208200	
15 x 4	200	**26154**1504200	
16 x 4	160	**26154**1604160	
16 x 4	200	**26154**1604200	

AxB h14	L mm	cod.	cad/ each €
16 x 10	200	**26154**1610200	consultare
20 x 4	200	**26154**2004200	listino
20 x 5	200	**26154**2005200	*see price list*
20 x 6	200	**26154**2006200	
20 x 8	200	**26154**2008200	
20 x 10	200	**26154**2010200	
20 x 12	200	**26154**2012200	





FRESE ROTATIVE

Rotary burrs

Fraises rotatives

Fresas rotativas

Brocas rotativas

FRESE ROTATIVE IN METALLO DURO

EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

UN TAGLIO PER OGNI APPLICAZIONE

A cut for each application

TAGLIO 1

Cut 1



TAGLIO ALLUMINIO

Adatto a alluminio, magnesio, plastiche e gomma dura.
Buon rendimento con un alto tasso di asportazione del materiale, che previene l'incollaggio dei trucioli.

ALUMINIUM CUT
Suitable for cutting into aluminium, magnesium, plastic and hard rubber. High efficiency with good removal rate, thus preventing the chips clogging the tool.



TAGLIO 3

Cut 3



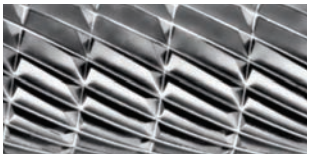
TAGLIO STANDARD

Per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti.
Velocità consigliata: 450÷600 m/min.

STANDARD CUT
Standard cut in low and high tensile steel, welded points, metals.
Cutting speed: 450÷600 m/min.

TAGLIO 3 PLUS

Cut 3 plus



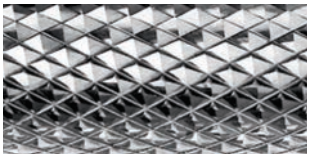
TAGLIO STANDARD CON ROMPITRUCIOLO

Per acciaio, acciaio temprato, ghisa, cordoni di saldatura, materiali metallici in genere. Buon grado di finitura con ottimi rendimenti.
Velocità consigliata: 450÷600 m/min.

STANDARD CUT WITH CHIP BREAKER
In low and high tensile steel, welded points, metals.
Cutting speed: 450÷600 m/min.

TAGLIO 4

Cut 4



TAGLIO INCROCIATO

Per acciaio trattato, acciaio inox, materiali metallici in genere. Vibrazioni ridotte, buona finitura superficiale, ottimi rendimenti.
Velocità consigliata: 450÷600 m/min.

DIAMOND CUT FINISH WORK
In high alloy steel, stainless steel, metals, less vibrations, high performances.
Cutting speed: 450÷600 m/min.

METALLO DURO

Realizzate in metallo duro, sono ideali per lavorazioni anche intensive di finitura e la sgrossatura su acciaio, acciaio temprato, acciaio inox, ghisa, cordoni di saldatura e materiali metallici in generale.

CARBIDE
Made by carbide, they are ideal for even intensive finishing and roughing operations on steel, hardened steel, stainless steel, cast iron, weld seams and metallic materials in general.

FRESE ROTATIVE IN METALLO DURO

EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

UNA FORMA PER OGNI APPLICAZIONE

A shape for each application

FORMA CILINDRICA ZYA

Cylindrical shape ZYA without end cut



FORMA CILINDRICA CON TESTA A SFERA WRC

Cylindrical shape with radius end WRC



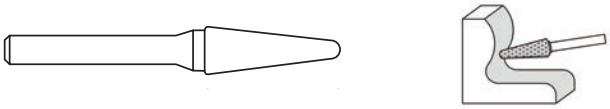
FORMA CILINDRICA CON TAGLIENTE FRONTALE ZYAS

Cylindrical shape ZYAS with end cut



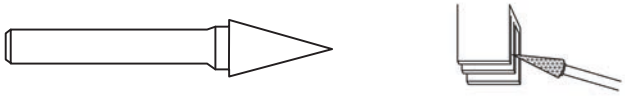
FORMA A CONO CON PUNTA ARROTONDATA KEL

Conical shape with radius end KEL



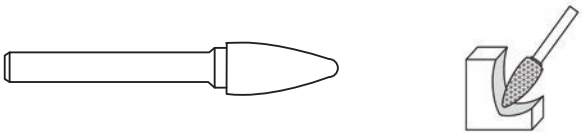
FORMA A CONO APPUNTITO SKM

Conical pointed shape SKM



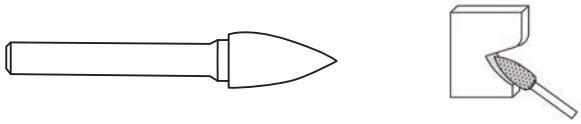
FORMA AD ALBERO RBF

Tree shape with radius end RBF



FORMA A OGIVA SPG

Pointed tree shape SPG



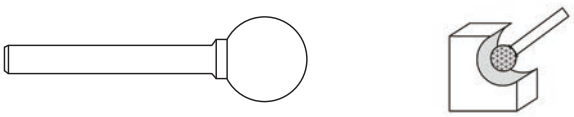
FORMA A GOCCIA TRE

Oval shape TRE



FORMA A SFERA KUD

Ball shape KUD



FRESE ROTATIVE IN METALLO DURO

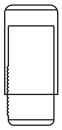
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

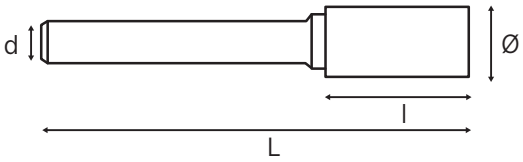
FORMA CILINDRICA ZYA SENZA TAGLIO FRONTALE

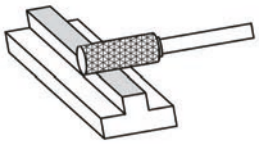
Cylindrical shape ZYA without end cut

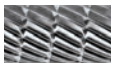




Confezione
Packaging





									TiAlN	TiAlN
											
Gambo **Shank**	**Ø** **mm**	**l** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	- -	**26015**00103 consultare listino *see price list*	**26016**00103	**26020**00103	**26033**00103	**26034**00103
Ø 6 mm	**4**	14	50	6	**cod.** **cad/each €**	- -	**26015**00104 consultare listino *see price list*	**26016**00104	**26020**00104	**26033**00104	**26034**00104
	6	18	50	6	**cod.** **cad/each €**	- -	**26015**00106 consultare listino *see price list*	**26016**00106	**26020**00106	**26033**00106	**26034**00106
	8	18	63	6	**cod.** **cad/each €**	- -	**26015**00108 consultare listino *see price list*	**26016**00108	**26020**00108	**26033**00108	**26034**00108
	10	20	65	6	**cod.** **cad/each €**	- -	**26015**00110 consultare listino *see price list*	**26016**00110	**26020**00110	**26033**00110	**26034**00110
	12	25	70	6	**cod.** **cad/each €**	- -	**26015**00112 consultare listino *see price list*	**26016**00112	**26020**00112	**26033**00112	**26034**00112
	16	25	70	6	**cod.** **cad/each €**	- -	**26015**00116 consultare listino *see price list*	**26016**00116	**26020**00116	**26033**00116	**26034**00116
Ø 6 mm Serie lunga *Long serie*	**8**	-	-	-	**cod.** **cad/each €**	- -	-	-	-	-	-
	12	-	-	-	**cod.** **cad/each €**	- -	-	-	-	-	-

FRESE ROTATIVE IN METALLO DURO

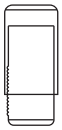
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

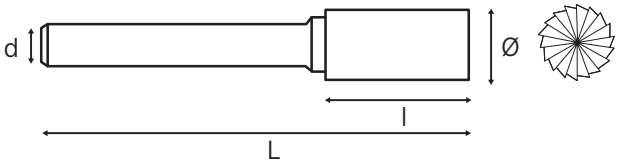
FORMA CILINDRICA ZYAS CON TAGLIO FRONTALE

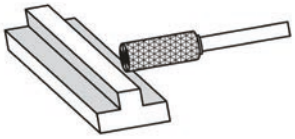
Cylindrical shape ZYAS with end cut

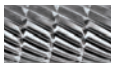
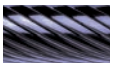




Confezione
Packaging





										TiAlN	TiAlN
											
Gambo **Shank**	**Ø** **mm**	***l*** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	- -	**26015**00203 consultare listino *see price list*	**26016**00203	**26020**00203	**26033**00203	**26034**00203
Ø 6 mm	**4**	14	50	6	**cod.** **cad/each €**	- -	**26015**00204 consultare listino *see price list*	**26016**00204	**26020**00204	**26033**00204	**26034**00204
	6	18	50	6	**cod.** **cad/each €**	**26025**00206 consultare listino *see price list*	**26015**00206	**26016**00206	**26020**00206	**26033**00206	**26034**00206
	8	18	63	6	**cod.** **cad/each €**	**26025**00208 consultare listino *see price list*	**26015**00208	**26016**00208	**26020**00208	**26033**00208	**26034**00208
	10	20	65	6	**cod.** **cad/each €**	**26025**00210 consultare listino *see price list*	**26015**00210	**26016**00210	**26020**00210	**26033**00210	**26034**00210
	12	25	70	6	**cod.** **cad/each €**	**26025**00212 consultare listino *see price list*	**26015**00212	**26016**00212	**26020**00212	**26033**00212	**26034**00212
	16	25	70	6	**cod.** **cad/each €**	**26025**00216 consultare listino *see price list*	**26015**00216	**26016**00216	**26020**00216	**26033**00216	**26034**00216
Ø 6 mm Serie lunga *Long serie*	**8**	18	120	6	**cod.** **cad/each €**	**26026**00208 consultare listino *see price list*	-	**26027**00208	**26028**00208	-	-
	12	25	120	6	**cod.** **cad/each €**	**26026**00212 consultare listino *see price list*	-	**26027**00212 -	**26028**00212 -	- -	- -

FRESE ROTATIVE IN METALLO DURO

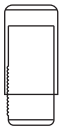
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

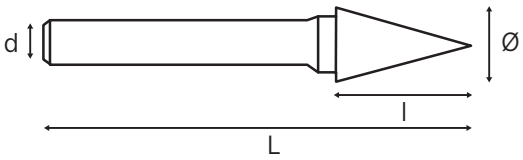
FORMA A CONO APPUNTITO SKM

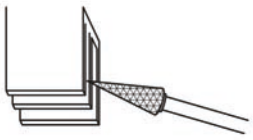
Conical pointed shape SKM

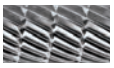
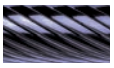




Confezione
Packaging





										TiAlN	TiAlN
											
Gambo **Shank**	**Ø** **mm**	***l*** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	-	**26015**00303 consultare listino *see price list*	**26016**00303	**26020**00303	**26033**00303	**26034**00303
Ø 6 mm	**4**	12	50	6	**cod.** **cad/each €**	-	**26015**00304 consultare listino *see price list*	**26016**00304	**26020**00304	**26033**00304	**26034**00304
	6	18	50	6	**cod.** **cad/each €**	**26025**00306 consultare listino *see price list*	**26015**00306	**26016**00306	**26020**00306	**26033**00306	**26034**00306
	8	18	63	6	**cod.** **cad/each €**	**26025**00308 consultare listino *see price list*	**26015**00308	**26016**00308	**26020**00308	**26033**00308	**26034**00308
	10	20	65	6	**cod.** **cad/each €**	**26025**00310 consultare listino *see price list*	**26015**00310	**26016**00310	**26020**00310	**26033**00310	**26034**00310
	12	25	70	6	**cod.** **cad/each €**	**26025**00312 consultare listino *see price list*	**26015**00312	**26016**00312	**26020**00312	**26033**00312	**26034**00312
	16	25	70	6	**cod.** **cad/each €**	**26025**00316 consultare listino *see price list*	**26015**00316	**26016**00316	**26020**00316	**26033**00316	**26034**00316
Ø 6 mm Serie lunga *Long serie*	**8**	18	120	6	**cod.** **cad/each €**	**26026**00308 consultare listino *see price list*	-	**26027**00308	**26028**00308	-	-
	12	25	120	6	**cod.** **cad/each €**	**26026**00312 consultare listino *see price list*	-	**26027**00312 -	**26028**00312 -	- -	- -

FRESE ROTATIVE IN METALLO DURO

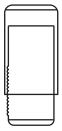
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

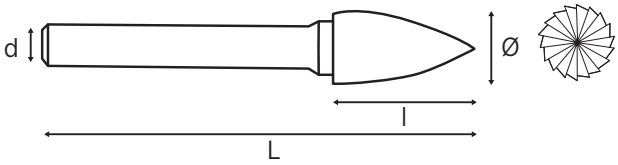
FORMA AD OGIVA SPG

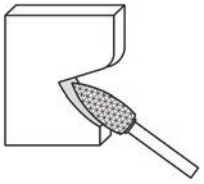
Pointed tree shape SPG

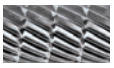
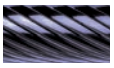




Confezione
Packaging





									TiAlN	TiAlN
										
Gambo **Shank**	**Ø** **mm**	***l*** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	-	**26015**00403 consultare listino *see price list*	**26016**00403	**26020**00403	**26033**00403	**26034**00403
Ø 6 mm	**4**	14	50	6	**cod.** **cad/each €**	-	**26015**00404 consultare listino *see price list*	**26016**00404	**26020**00404	**26033**00404	**26034**00404
	6	18	50	6	**cod.** **cad/each €**	**26025**00406 consultare listino *see price list*	**26015**00406	**26016**00406	**26020**00406	**26033**00406	**26034**00406
	8	18	63	6	**cod.** **cad/each €**	**26025**00408 consultare listino *see price list*	**26015**00408	**26016**00408	**26020**00408	**26033**00408	**26034**00408
	10	20	65	6	**cod.** **cad/each €**	**26025**00410 consultare listino *see price list*	**26015**00410	**26016**00410	**26020**00410	**26033**00410	**26034**00410
	12	25	70	6	**cod.** **cad/each €**	**26025**00412 consultare listino *see price list*	**26015**00412	**26016**00412	**26020**00412	**26033**00412	**26034**00412
	16	25	70	6	**cod.** **cad/each €**	**26025**00416 consultare listino *see price list*	**26015**00416	**26016**00416	**26020**00416	**26033**00416	**26034**00416
Ø 6 mm Serie lunga *Long serie*	**8**	18	120	6	**cod.** **cad/each €**	**26026**00408 consultare listino *see price list*	-	**26027**00408	**26028**00408	-	-
	12	25	120	6	**cod.** **cad/each €**	**26026**00412 consultare listino *see price list*	-	**26027**00412 -	**26028**00412 -	- -	- -

FRESE ROTATIVE IN METALLO DURO

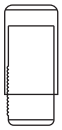
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

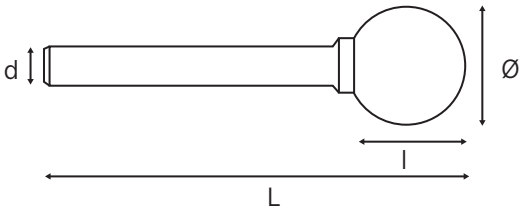
FORMA A SFERA KUD

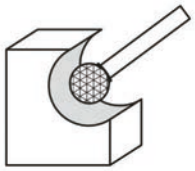
Ball shape KUD





Confezione
Packaging





Gambo Shank	Ø mm	l mm	L mm	d mm		Taglio 1 Cut 1	Taglio 3 Cut 3	Taglio 3 Plus Cut 3 Plus	Taglio 4 Cut 4	Taglio 3 TiAlN Cut 3	Taglio4 TiAlN Cut 4
Ø 3 mm Microfrese *Micro rotary files*	**3**	3	38	3	**cod.** **cad/each €**	-	**26015**00503 consultare listino *see price list*	**26016**00503	**26020**00503	**26033**00503	**26034**00503
Ø 6 mm	**4**	3	50	6	**cod.** **cad/each €**	-	**26015**00504 consultare listino *see price list*	**26016**00504	**26020**00504	**26033**00504	**26034**00504
	6	5	50	6	**cod.** **cad/each €**	**26025**00506 consultare listino *see price list*	**26015**00506	**26016**00506	**26020**00506	**26033**00506	**26034**00506
	8	7	63	6	**cod.** **cad/each €**	**26025**00508 consultare listino *see price list*	**26015**00508	**26016**00508	**26020**00508	**26033**00508	**26034**00508
	10	9	65	6	**cod.** **cad/each €**	**26025**00510 consultare listino *see price list*	**26015**00510	**26016**00510	**26020**00510	**26033**00510	**26034**00510
	12	10	70	6	**cod.** **cad/each €**	**26025**00512 consultare listino *see price list*	**26015**00512	**26016**00512	**26020**00512	**26033**00512	**26034**00512
	16	14	70	6	**cod.** **cad/each €**	**26025**00516 consultare listino *see price list*	**26015**00516	**26016**00516	**26020**00516	**26033**00516	**26034**00516
Ø 6 mm Serie lunga *Long serie*	**8**	7	120	6	**cod.** **cad/each €**	**26026**00508 consultare listino *see price list*	-	**26027**00508	**26028**00508	-	-
	12	10	120	6	**cod.** **cad/each €**	**26026**00512 consultare listino *see price list*	-	**26027**00512 -	**26028**00512 -	- -	- -

FRESE ROTATIVE IN METALLO DURO

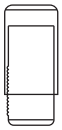
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

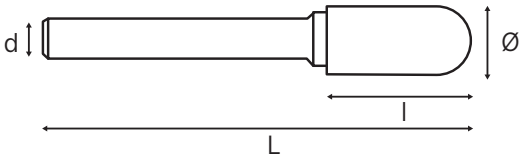
FORMA CLINDRICA CON TESTA A SFERA WRC

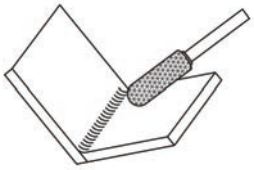
Cylindrical shape with radius end WRC

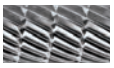
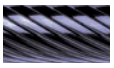




Confezione
Packaging





									TiAlN	TiAlN
										
Gambo **Shank**	**Ø** **mm**	***l*** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	-	**26015**00603 consultare listino *see price list*	**26016**00603	**26020**00603	**26033**00603	**26034**00603
Ø 6 mm	**4**	14	50	6	**cod.** **cad/each €**	-	**26015**00604 consultare listino *see price list*	**26016**00604	**26020**00604	**26033**00604	**26034**00604
	6	18	50	6	**cod.** **cad/each €**	**26025**00606 consultare listino *see price list*	**26015**00606	**26016**00606	**26020**00606	**26033**00606	**26034**00606
	8	18	63	6	**cod.** **cad/each €**	**26025**00608 consultare listino *see price list*	**26015**00608	**26016**00608	**26020**00608	**26033**00608	**26034**00608
	10	20	65	6	**cod.** **cad/each €**	**26025**00610 consultare listino *see price list*	**26015**00610	**26016**00610	**26020**00610	**26033**00610	**26034**00610
	12	25	70	6	**cod.** **cad/each €**	**26025**00612 consultare listino *see price list*	**26015**00612	**26016**00612	**26020**00612	**26033**00612	**26034**00612
	16	25	70	6	**cod.** **cad/each €**	**26025**00616 consultare listino *see price list*	**26015**00616	**26016**00616	**26020**00616	**26033**00616	**26034**00616
Ø 6 mm Serie lunga *Long serie*	**8**	18	120	6	**cod.** **cad/each €**	**26026**00608 consultare listino *see price list*	-	**26027**00608	**26028**00608	-	-
	12	25	120	6	**cod.** **cad/each €**	**26026**00612 consultare listino *see price list*	-	**26027**00612 -	**26028**00612 -	- -	- -

FRESE ROTATIVE IN METALLO DURO

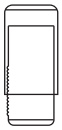
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

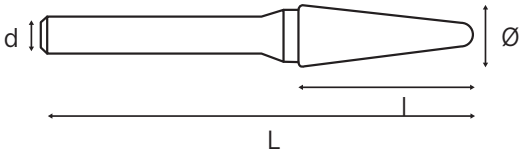
FORMA A CONO CON PUNTA ARROTONDATA KEL

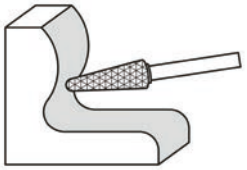
Conical shape with radius end KEL

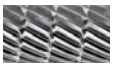
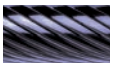




Confezione
Packaging





										TiAlN	TiAlN
											
Gambo **Shank**	**Ø** **mm**	**l** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	-	**26015**00703 consultare listino *see price list*	**26016**00703	**26020**00703	**26033**00703	**26034**00703
Ø 6 mm	**4**	16	50	6	**cod.** **cad/each €**	-	**26015**00704 consultare listino *see price list*	**26016**00704	**26020**00704	**26033**00704	**26034**00704
	6	18	50	6	**cod.** **cad/each €**	-	**26015**00706 consultare listino *see price list*	**26016**00706	**26020**00706	**26033**00706	**26034**00706
	8	18	63	6	**cod.** **cad/each €**	-	**26015**00708 consultare listino *see price list*	**26016**00708	**26020**00708	**26033**00708	**26034**00708
	10	20	65	6	**cod.** **cad/each €**	-	**26015**00710 consultare listino *see price list*	**26016**00710	**26020**00710	**26033**00710	**26034**00710
	12	25	70	6	**cod.** **cad/each €**	-	**26015**00712 consultare listino *see price list*	**26016**00712	**26020**00712	**26033**00712	**26034**00712
	16	25	70	6	**cod.** **cad/each €**	-	**26015**00716 consultare listino *see price list*	**26016**00716	**26020**00716	**26033**00716	**26034**00716
Ø 6 mm Serie lunga *Long serie*	**8**	-	-	-	**cod.** **cad/each €**	- -	- -	- -	- -	- -	- -
	12	-	-	-	**cod.** **cad/each €**	- -	- -	- -	- -	- -	- -

FRESE ROTATIVE IN METALLO DURO

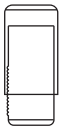
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

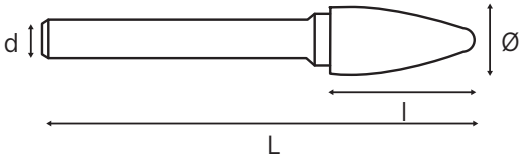
FORMA AD ALBERO RBF

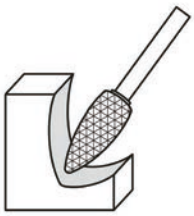
Tree shape with radius end RBF

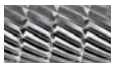
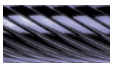




Confezione
Packaging





										TiAlN	TiAlN
											
Gambo **Shank**	**Ø** **mm**	***l*** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	16	38	3	**cod.** **cad/each €**	-	**26015**00803 consultare listino *see price list*	**26016**00803	**26020**00803	**26033**00803	**26034**00803
Ø 6 mm	**4**	14	50	6	**cod.** **cad/each €**	-	**26015**00804 consultare listino *see price list*	**26016**00804	**26020**00804	**26033**00804	**26034**00804
	6	18	50	6	**cod.** **cad/each €**	-	**26015**00806 consultare listino *see price list*	**26016**00806	**26020**00806	**26033**00806	**26034**00806
	8	18	63	6	**cod.** **cad/each €**	-	**26015**00808 consultare listino *see price list*	**26016**00808	**26020**00808	**26033**00808	**26034**00808
	10	20	65	6	**cod.** **cad/each €**	-	**26015**00810 consultare listino *see price list*	**26016**00810	**26020**00810	**26033**00810	**26034**00810
	12	25	70	6	**cod.** **cad/each €**	-	**26015**00812 consultare listino *see price list*	**26016**00812	**26020**00812	**26033**00812	**26034**00812
	16	25	70	6	**cod.** **cad/each €**	-	**26015**00816 consultare listino *see price list*	**26016**00816	**26020**00816	**26033**00816	**26034**00816
Ø 6 mm Serie lunga *Long serie*	**8**	-	-	-	**cod.** **cad/each €**	- -	- -	- -	- -	- -	- -
	12	-	-	-	**cod.** **cad/each €**	- -	- -	- -	- -	- -	- -

FRESE ROTATIVE IN METALLO DURO

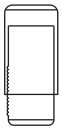
EN *Carbide rotary burrs*
FR *Fraises rotatives en carbure*
ESP *Fresas rotativas de metal duro*
PT *Brocas rotativas de metal duro*

HM

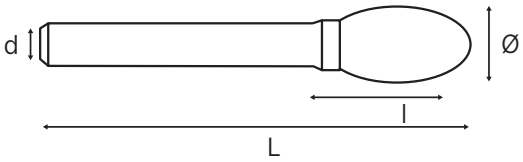
FORMA A GOCCIA TRE

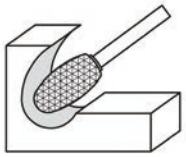
Oval shape TRE

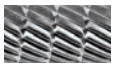
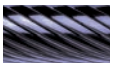




Confezione
Packaging

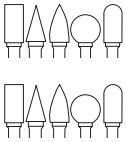
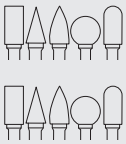
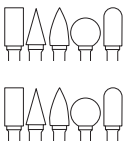




										TiAlN	TiAlN
											
Gambo **Shank**	**Ø** **mm**	**l** **mm**	**L** **mm**	**d** **mm**		**Taglio 1** **Cut 1**	**Taglio 3** **Cut 3**	**Taglio 3 Plus** **Cut 3 Plus**	**Taglio 4** **Cut 4**	**Taglio 3** **Cut 3**	**Taglio4** **Cut 4**
Ø 3 mm Microfrese *Micro rotary files*	**3**	5,5	38	3	**cod.** **cad/each €**	-	**26015**00903 consultare listino *see price list*	**26016**00903	**26020**00903	**26033**00903	**26034**00903
Ø 6 mm	**4**	6	50	6	**cod.** **cad/each €**	-	**26015**00904 consultare listino *see price list*	**26016**00904	**26020**00904	**26033**00904	**26034**00904
	6	10	50	6	**cod.** **cad/each €**	-	**26015**00906 consultare listino *see price list*	**26016**00906	**26020**00906	**26033**00906	**26034**00906
	8	13	58	6	**cod.** **cad/each €**	-	**26015**00908 consultare listino *see price list*	**26016**00908	**26020**00908	**26033**00908	**26034**00908
	10	16	61	6	**cod.** **cad/each €**	-	**26015**00910 consultare listino *see price list*	**26016**00910	**26020**00910	**26033**00910	**26034**00910
	12	20	65	6	**cod.** **cad/each €**	-	**26015**00912 consultare listino *see price list*	**26016**00912	**26020**00912	**26033**00912	**26034**00912
	16	25	70	6	**cod.** **cad/each €**	-	**26015**00916 consultare listino *see price list*	**26016**00916	**26020**00916	**26033**00916	**26034**00916
Ø 6 mm Serie lunga *Long serie*	**8**	-	-	-	**cod.** **cad/each €**	- -	- -	- -	- -	- -	- -
	12	-	-	-	**cod.** **cad/each €**	- -	- -	- -	- -	- -	- -

ASSORTIMENTI FRESE ROTATIVE IN METALLO DURO

EN *Carbide rotary burrs sets*
FR *Assortiments de fraises rotatives en carbure*
ESP *Surtido fresas rotativas de metal duro*
PT *Conjuntos de brocas rotativas de metal duro*

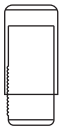
	N° Pezzi N° Pieces	Ø mm	Forme Shapes		Taglio 1 Cut 1	Taglio 3 Plus Cut 3 Plus	Taglio 4 Cut 4	Taglio 3 e 4 Cut 3 and 4	TiAlN Taglio 4 Cut 4	TiAlN Taglio 3 e 4 Cut 3 and 4
	5	**10**		**cod.** **cad/each €**	**26030**430 consultare listino *see price list*	**26030**416	**26030**404	-	**26030**412	-
	5	**12**		**cod.** **cad/each €**	**26030**431 consultare listino *see price list*	**26030**417	**26030**405	-	**26030**413	-
	10	**10**		**cod.** **cad/each €**	-	-	-	**26030**401 consultare listino *see price list*	-	**26030**410
	10	**12**		**cod.** **cad/each €**	-	-	-	**26030**402 consultare listino *see price list*	-	**26030**411
	10 (5+5)	**8** **12**		**cod.** **cad/each €**	**26030**432 consultare listino *see price list*	**26030**415	**26030**403	-	-	-
	45	**6** **8** **10** **12** **16**	Tutte le forme *All shapes*	**cod.** **cad/each €**	-	-	**26030**502 consultare listino *see price list*	-	**26030**504	-

FRESE ROTATIVE IN HSS

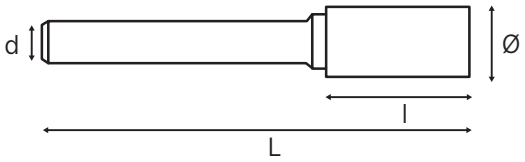
EN *HSS rotary burrs*
FR *Fraises rotatives HSS*
ESP *Fresas rotativas HSS*
PT *Brocas rotativas de HSS*

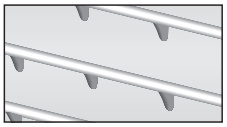
HSS





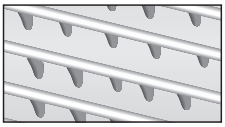
Confezione
Packaging





Z2 Taglio bastardo per leghe leggere, rame, ottone, bronzo, acciaio dolce. VT 220÷250 m/min.

For cutting light alloys, copper, brass, bronze, mild steel. Cutting speed: 220÷250 m/min.



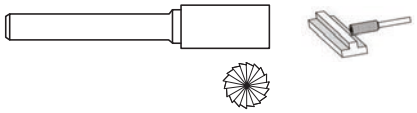
Z3 Taglio mezzo dolce per acciai, ghisa. VT 80÷220 m/min.

For cutting steel, cast iron. Cutting speed 80÷220 m/min.

SELF ART. 26004
Su richiesta / *On demand*

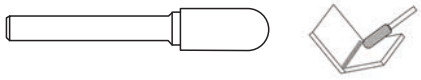
HRC ≃ 63

CILINDRICA CON TAGLIO FRONTALE
Cylindrical shape with end cut



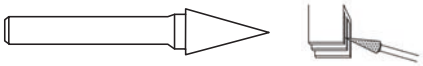
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6	20	60	6	2600100106	consultare	2600300106	consultare
8	30	70	6	2600100108	listino	2600300108	listino
10	30	70	6	2600100110	*see price list*	2600300110	*see price list*
12	30	70	6	2600100112		2600300112	
15	30	70	6	2600100115		2600300115	

CILINDRICA CON TESTA SFERICA
Cylindrical shape with radius end



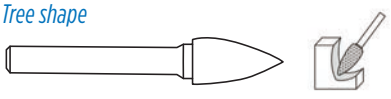
Ø mm	l mm	L mm	d mm	26001 Z2 cod.	26001 Z2 cad/each €	26003 Z3 cod.	26003 Z3 cad/each €
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8	30	70	6	2600100208	consultare	2600300208	consultare
10	30	70	6	2600100210	listino	2600300210	listino
12	30	70	6	2600100212	*see price list*	2600300212	*see price list*
15	30	70	6	2600100215		2600300215	

CONICA A PUNTA
Pointed tree shape



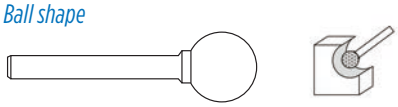
Ø mm	l mm	L mm	d mm	26001 Z2 cod.	26001 Z2 cad/each €	26003 Z3 cod.	26003 Z3 cad/each €
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8	30	70	6	2600100308	listino	2600300308	listino
10	30	70	6	2600100310	*see price list*	2600300310	*see price list*
12	30	70	6	2600100312		2600300312	
15	30	70	6	2600100315		2600300315	

OGIVA A PUNTA
Tree shape



Ø mm	l mm	L mm	d mm	26001 Z2 cod.	26001 Z2 cad/each €	26003 Z3 cod.	26003 Z3 cad/each €
6	20	60	6	2600100406		2600300406	
8	30	70	6	2600100408	consultare	2600300408	consultare
10	30	70	6	2600100410	listino	2600300410	listino
12	30	70	6	2600100412	*see price list*	2600300412	*see price list*
15	30	70	6	2600100415		2600300415	

SFERICA
Ball shape



Ø mm	l mm	L mm	d mm	26001 Z2 cod.	26001 Z2 cad/each €	26003 Z3 cod.	26003 Z3 cad/each €
6	5	50	6	2600100506	consultare	2600300506	consultare
8	7	52	6	2600100508	listino	2600300508	listino
10	9	54	6	2600100510	*see price list*	2600300510	*see price list*
12	10	55	6	2600100512		2600300512	
15	14	59	6	2600100515		2600300515	

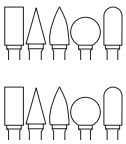
Acciaio
Steel

Alluminio
Aluminum

Leghe leggere
Light alloys

ASSORTIMENTI FRESE ROTATIVE IN HSS

EN *HSS rotary burrs sets*
FR *Assortiments de fraises rotatives HSS*
ESP *Surtido fresas rotativas HSS*
PT *Conjuntos de brocas rotativas de HSS*

	N° Pezzi N° Pieces	Ø mm	Forme Shapes		 Taglio Z2 Cut Z2	 Taglio Z3 CutZ3	 Taglio Z2 e Z3 Cut Z2 and Z3
	5	**10**		**cod.** **cad/each €**	**26008**203 consultare listino *see price list*	**26008**201	-
	5	**12**		**cod.** **cad/each €**	**26008**204 consultare listino *see price list*	**26008**200	-
	10	**10**		**cod.** **cad/each €**	-	-	**26008**401 consultare listino *see price list*
	10	**12**		**cod.** **cad/each €**	-	-	**26008**402 consultare listino *see price list*
	50	**6** **8** **10** **12** **15**	Tutte le forme *All shapes*	**cod.** **cad/each €**	-	-	**26008**501 consultare listino *see price list*


KRINO®



LAME DA TAGLIO

Cutting blades

Lames de coupe

Cuchillas de corte

Lâminas de corte

MASTER BLADES

È la **linea di lame TCT** di qualità superiore: progettate con materiali d'eccellenza e tecnologie all'avanguardia, offrono precisione estrema, resistenza e durata eccezionale. Ideali per i professionisti che cercano il massimo delle performance.

EN
This is a line of premium-quality TCT blades: designed with premium materials and cutting-edge technology, they offer extreme precision, strength and exceptional durability. Ideal for professionals seeking the ultimate in performance.

FR
Il s'agit de la gamme de lames TCT haut de gamme: conçues avec des matériaux d'excellence et des technologies de pointe, elles offrent une précision extrême, une résistance et une durabilité exceptionnelles. idéales pour les professionnels à la recherche de performances maximales.

ESP
Es la línea de discos TCT de calidad superior: diseñadas con excelentes materiales y tecnologías de vanguardia, ofrecen una precisión extrema, resistencia y una durabilidad excepcional. Ideal para profesionales que buscan el máximo rendimiento.

PT
É a linha de lâminas TCT de qualidade superior: projetadas com materiais de excelência e tecnologias de ponta, oferecem extrema precisão, resistência e durabilidade excepcional. Ideais para profissionais que buscam o máximo em desempenho.



CORPO TAGLIATO AL LASER, ACCIAIO 45 HRC PER UNA MASSIMA DURATA E PRECISIONE DI TAGLIO.



Gli intagli al laser presenti sulle lame sono progettati per assorbire le vibrazioni e ridurre significativamente il rumore durante l'uso. Questi tagli, riempiti con una speciale resina fonoassorbente, garantiscono una riduzione del rumore fino al 25% rispetto ai dischi senza questa tecnologia. Il risultato è un taglio più silenzioso, preciso e stabile, ottimizzando sia le prestazioni che il comfort dell'operatore.



Il rivestimento al PTFE riduce l'attrito, previene l'adesione di residui e il surriscaldamento, migliorando l'efficienza del disco per tagli più rapidi e precisi. Inoltre, protegge la lama dalla corrosione e dall'usura, prolungandone la durata e mantenendo elevate le prestazioni nel tempo.



Le lame con denti più sottili sono ottimizzate per elettroutensili a batteria, garantendo massime prestazioni ed allo stesso tempo una minore richiesta energetica. Ideali per prolungare la durata delle batterie, sono comunque perfette anche per utensili a filo.



I denti TCT più sottili riducono la resistenza al taglio, consentendo un lavoro più rapido ed efficiente con minore sforzo sulla macchina. Questo si traduce in una maggiore precisione, una finitura più pulita e una riduzione del consumo energetico, ottimizzando le prestazioni complessive.

CARBURO SINTERIZZATO CON SPECIALE FORMULAZIONE AD ALTA DENSITÀ

I denti da taglio sono realizzati con un carburo micro granulare appositamente formulato, che rimane più affilato più a lungo riducendo l'usura del filo, migliorando la qualità del taglio e aumentando la durata dell'utensile.

ANELLO DI TENSIONATURA (PER Ø ≥ 250 mm)

Un anello visibile sul corpo della lama riduce vibrazioni, previene deformazioni termiche e migliora la stabilità della lama, garantendo tagli più precisi e aumentando la durata dell'utensile.

EN

LASER-CUT BODY, 45 HRC STEEL FOR MAXIMUM DURABILITY AND CUTTING PRECISION.

NO NOISE VIBRATION REDUCTION
Laser cut slots on the blades are designed to absorbvibration and significantly reduce noise during use. These laser cut slots, filled with a special soundabsorbing resin, provide a noise reduction of up to 25% compared to discs without this technology. The result is a noiseless, more accurate and stable cut, optimizing both performance and operator comfort.

NON STICK PTFE COATING
The PTFE coating reduces friction, prevents residue adhesion and overheating, improves blade efficiency for faster and more precise cuts. It also protects the blade from corrosion and wear, extending blade life and maintaining high performance over time.

HIGH EFFICENCY CORDED OR CORDLESS
Blades with thinner teeth are optimized for cordless power tools, providing maximum performance while requiring less energy. Ideal for extending battery life, they are still perfect for corded tools as well.

ULTRA THIN KERF
Thinner TCT teeth reduce cutting resistance, allowing faster and more efficient work with less effort on the machine. This results in greater accuracy, cleaner finish and reduced energy consumption, optimizing overall performance.

SINTERIZED CARBIDE WITH SPECIAL HIGH DENSITY FORMULATION.
The cutting teeth are made with a specially formulated micro granular carbide, which stays sharper longer by reducing wire wear, improving cutting quality and increasing tool life.

TENSION RING (FOR Ø ≥ 250 mm)
A visible ring on the blade body reduces vibration, prevents thermal deformation, and improves blade stability, ensuring more precise cuts and increasing tool life.

FR

CORPS DÉCOUPÉ AU LASER, ACIER 45 HRC POUR UNE DURÉE DE VIE ET UNE PRÉCISION DE COUPE MAXIMALES.

NO NOISE VIBRATION REDUCTION
LLes fentes laser présentes sur les lames sont conçues pour absorber les vibrations et réduire significativement le bruit pendant l'utilisation. Remplies d'une résine spéciale phonique, elles permettent une réduction du bruit jusqu'à 25 % par rapport aux disques qui n'en sont pas équipés. Le résultat : une coupe plus silencieuse, plus précise et plus stable, pour des performances optimisées et un meilleur confort pour l'utilisateur.

NON STICK PTFE COATING
Le revêtement en PTFE réduit les frottements, empêchel'adhérence des résidus et la surchauffe, améliorant ainsi l'efficacité du disque pour des coupes plus rapides et plus précises. De plus, il protège la lame contre la corrosion et l'usure, prolongeant sa durée de vie et maintenant des performances élevées dans le temps.

HIGH EFFICENCY CORDED OR CORDLESS
Les lames avec dents plus fines sont optimisées pour les outils électroportatifs à batterie, garantissant des performances maximales tout en réduisant la consommation d'énergie. Parfaites pour prolonger la durée de vie des batteries, elles sont également idéales pour les outils filaires.

ULTRA THIN KERF
Les dents TCT plus fines réduisent la résistance à la coupe, permettant un travail plus rapide et plus efficace avec un effort moindre sur la machine. Cela se traduit par une plus grande précision, une finition plus propre et une réduction de la consommation d'énergie, optimisant ainsi les performances globales.

CARBURE FRITTÉ À FORMULATION SPÉCIALE HAUTE DENSITÉ.
TLes dents de coupe sont fabriquées avec un carbure microgranulaire spécialement formulé, qui reste affûté plus longtemps, réduit l'usure du tranchant, améliore la qualité de coupe et augmente la durée de vie de l'outil.

BAGUE DE TENSION (POUR Ø ≥ 250 mm)
Une bague visible sur le corps de la lame réduit les vibrations, prévient les déformations thermiques et améliore la stabilité de la lame, garantissant des coupes plus précises et prolongeant la durée de vie de l'outil.

ESP

CUERPO CORTADO CON LÁSER, ACERO 45 HRC PARA UNA MÁXIMA DURABILIDAD Y PRECISIÓN DE CORTE.

NO NOISE VIBRATION REDUCTION
Las estrías cortadas a láser de los discos están diseñadas para absorber las vibraciones y reducir significativamente el ruido durante el uso. Estos cortes, están rellenos de una resina especial fonoabsorbente, garantizan una reducción de ruido de hasta el 25% en comparación con los discos sin esta tecnología. El resultado es un corte más silencioso, preciso y estable, optimizando tanto el rendimiento como la comodidad del operario.

NON STICK PTFE COATING
El recubrimiento de PTFE reduce la fricción, evita la adhesión de residuos y el sobrecalentamiento, mejorando la eficiencia del disco para cortes más rápidos y precisos. También protege la hoja de la corrosión y el desgaste, alargando su vida útil y manteniendo un alto rendimiento a lo largo del tiempo.

HIGH EFFICENCY CORDED OR CORDLESS
Los discos con dientes más delgados están optimizadas para herramientas eléctricas inalámbricas, lo que garantiza el máximo rendimiento y, al mismo tiempo, una menor demanda de energía. Ideales para prolongar la vida útil de las baterías, también son perfectos para herramientas con cable.

ULTRA THIN KERF
Los dientes TCT más delgados reducen la resistencia al corte, lo que permite un trabajo más rápido y eficiente con menos esfuerzo en la máquina Esto da como resultado una mayor precisión, un acabado más limpio y un menor consumo de energía, optimizando el rendimiento general.

CARBURO SINTERIZADO CON FORMULACIÓN ESPECIAL DE ALTA DENSIDAD
Los dientes de corte están hechos con un micro carburo y recubrimiento granular especialmente formulado, que se mantiene más afilado durante más tiempo reduciendo el desgaste de los bordes, mejorando la calidad del corte y aumentando la vida útil de la herramienta.

ANILLO TENSOR (PARA Ø ≥ 250 mm)
Un anillo visible en el cuerpo de la hoja reduce la vibración, evita la deformación térmica y mejora la estabilidad de la hoja, lo que garantiza cortes más precisos y aumenta la vida útil de la herramienta.

PT

CORPO CORTADO A LASER, AÇO DE 45 HRC PARA MÁXIMA DURABILIDADE E PRECISÃO DE CORTE.

NO NOISE VIBRATION REDUCTION
As ranhuras cortadas a laser nas lâminas foram projetadas para absorver a vibração e reduzir significativamente o ruído durante o uso. Essas ranhuras, preenchidas com uma resina especial de absorção de som, proporcionam uma redução de ruído de até 25% em comparação com discos sem essa tecnologia. O resultado é um corte silencioso, mais preciso e estável, otimizando tanto o desempenho quanto o conforto do operador.

NON STICK PTFE COATING
O revestimento de PTFE reduz o atrito, evita a aderência de resíduos e o superaquecimento, além de melhorar a eficiência da lâmina para cortes mais rápidos e precisos. Ele também protege a lâmina contra corrosão e desgaste, prolongando sua vida útil e mantendo o alto desempenho ao longo do tempo.

HIGH EFFICENCY CORDED OR CORDLESS
Lâminas com dentes mais finos são otimizadas para ferramentas elétricas sem fio, proporcionando desempenho máximo com menor consumo de energia. Ideais para prolongar a vida útil da bateria, elas também são perfeitas para ferramentas com fio.

ULTRA THIN KERF
TOs dentes TCT mais finos reduzem a resistência ao corte, permitindo um trabalho mais rápido e eficiente com menos esforço da máquina. Isso resulta em maior precisão, acabamento mais limpo e menor consumo de energia, otimizando o desempenho geral..

CARBIDO SINTERIZADO COM FORMULAÇÃO ESPECIAL DE ALTA DENSIDADE.
Os dentes de corte são fabricados com um carbido microgranular especialmente formulado, que permanece afiado por mais tempo, reduzindo o desgaste do fio, melhorando a qualidade do corte e aumentando a vida útil da ferramenta.

ANEL DE TENSÃO (PARA Ø ≥ 250 mm)
Um anel visível no corpo da lâmina reduz a vibração, evita a deformação térmica e melhora a estabilidade da lâmina, garantindo cortes mais precisos e aumentando a vida útil da ferramenta.

LAME TCT MASTERBLADES

EN *TCT blades MASTERBLADES*
FR *Lames TCT MASTERBLADES*
ESP *Discos TCT MASTERBLADES*
PT *Lâminas TCT MASTERBLADES*

27080



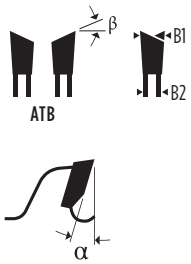
TRAPPED BLISTER (TB)

CARTON BOX (CB)

Confezione
Packaging

LEGNO
Wood

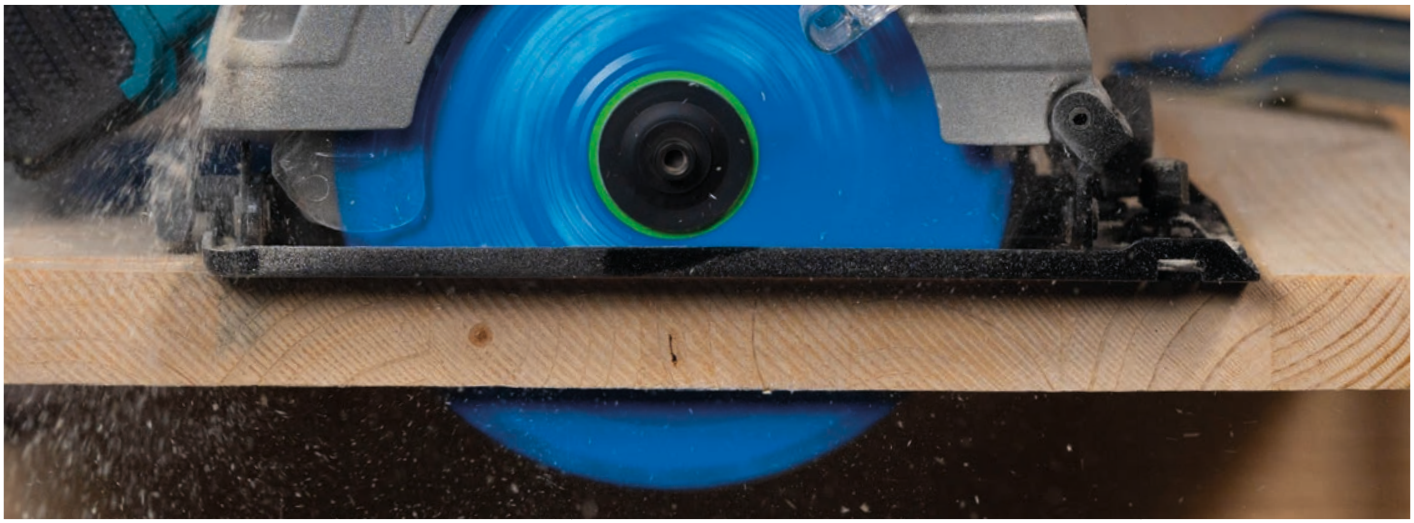
CARATTERISTICHE TECNICHE
Technical features



LEGNO *Wood*	●●●●●
OSB *Osb*	●●●●●
COMPENSATO *Plywood*	●●●●●
TRUCIOLATO *Chipboard*	●●●
LAMINATO *Laminate*	●●●
MELAMINA *Melamine*	●●

MACCHINA *Machines*	D (mm)	D (in)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	85	3 3/8"	**15**	-	**20**	1,1	0,7	ATB	14°	5°	T	F	-	**27080**0851520	TB	consultare
	136	5 3/8"	**20**	-	**24**	1,6	1	ATB	15°	25°	L&T	G	2/6/32	**27080**1362024	TB	listino
	140	5 1/2"	**20**	16/15.875/12.75	**24**	1,8	1,2	ATB	15°	25°	L&T	G	2/6/32	**27080**1402024	TB	*see price list*
	140	5 1/2"	**20**	16/15.875/12.75	**42**	1,8	1,2	ATB	15°	25°	T	F	2/6/32	**27080**1402042	TB	
	150	5 7/8"	**20**	-	**24**	1,6	1	ATB	25°	25°	L&T	G	2/6/32	**27080**1502024	TB	
	160		**20**	15,875	**24**	1,6	1	ATB	25°	25°	L&T	G	2/6/32	**27080**1602024	TB	
	160		**20**	15,875	**48**	1,6	1	ATB	10°	25°	T	F	2/6/32	**27080**1602048	TB	
	165	6 1/2"	**20**	15,875	**24**	1,6	1	ATB	25°	25°	L&T	G	2/6/32	**27080**1652024	TB	
	165	6 1/2"	**20**	15,875	**36**	1,6	1	ATB	10°	25°	T	F	2/6/32	**27080**1652036	TB	
	**165**	6 1/2"	**20**	15,875	**48**	1,6	1	ATB	10°	25°	T	F	2/6/32	**27080**1652048	TB	
	184	7 1/4"	**30**	20/16/15.875	**24**	1,6	1	ATB	25°	25°	L&T	G	2/7/42	**27080**1843024	TB	
	184	7 1/4"	**30**	20/16/15.875	**48**	1,6	1	ATB	15°	25°	T	F	2/7/42	**27080**1843048	TB	
	190		**30**	20	**24**	1,6	1	ATB	25°	25°	L&T	G	2/7/42	**27080**1903024	TB	
	190		**30**	20	**48**	1,6	1	ATB	15°	25°	T	F	2/7/42	**27080**1903048	TB	
	190		**30**	20	**60**	1,6	1	ATB	10°	25°	T	F	2/7/42	**27080**1903060	TB	
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**24**	1,8	1,2	ATB	20°	25°	L&T	G	2/7/42	**27080**21030240	TB	
	235	9 1/4"	**30**	-	**24**	2,8	1,8	ATB	18°	15°	L&T	G	2/7/42	**27080**2353024	CB	
	235	9 1/4"	**30**	-	**48**	2,8	1,8	ATB	10°	15°	T	F	2/7/42	**27080**2353048	CB	
	235	9 1/4"	**30**	-	**60**	2,8	1,8	ATB	10°	15°	T	F	2/7/42	**27080**2353060	CB	

MACCHINA *Machines*	D (mm)	D (in)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD / *each* €
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**24**	1,8	1,2	ATB	-5°	15°	L&T	G	2/7/42	**27080**2103024	CB	consultare
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**48**	1,8	1,2	ATB	-5°	15°	T	F	2/7/42	**27080**2103048	CB	listino
	216	8 1/2"	**30**	25.4/25/20/16/15.875	**24**	1,8	1,2	ATB	-5°	15°	L&T	G	2/7/42	**27080**2163024	CB	*see price list*
	216	8 1/2"	**30**	25.4/25/20/16/15.875	**48**	1,8	1,2	ATB	-5°	15°	T	F	2/7/42	**27080**2163048	CB	
	216	8 1/2"	**30**	25.4/25/20/16/15.875	**60**	1,8	1,2	ATB	-5°	15°	T	SF	2/7/42	**27080**2163060	CB	
	**250**		**30**	25.4/25/20/16/15.875	**60**	2,4	1,8	ATB	-5°	15°	T	F	COMBI 3	**27080**25030600	CB	
	254	10"	**30**	25.4/25/20/16/15.875	**40**	2,4	1,8	ATB	-5°	15°	L&T	G	COMBI 3	**27080**2543040	CB	
	254	10"	**30**	25.4/25/20/16/15.875	**60**	2,4	1,8	ATB	-5°	15°	T	F	COMBI 3	**27080**2543060	CB	
	**254**	10"	**30**	25.4/25/20/16/15.875	**80**	2,4	1,8	ATB	-5°	15°	T	SF	COMBI 3	**27080**2543080	CB	
	300		**30**	25.4/25/20/16/15.875	**72**	2,5	1,8	ATB	-5°	15°	T	F	COMBI 3	**27080**30030720	CB	
	305	12"	**30**	25.4/25/20/16/15.875	**40**	2,5	1,8	ATB	-5°	15°	L&T	G	COMBI 3	**27080**3053040	CB	
	305	12"	**30**	25.4/25/20/16/15.875	**60**	2,5	1,8	ATB	-5°	15°	T	F	COMBI 3	**27080**3053060	CB	
	305	12"	**30**	25.4/25/20/16/15.875	**72**	2,5	1,8	ATB	-5°	15°	T	F	COMBI 3	**27080**3053072	CB	
	305	12"	**30**	25.4/25/20/16/15.875	**96**	2,5	1,8	ATB	-5°	15°	T	SF	COMBI 3	**27080**3053096	CB	
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**24**	1,8	1,2	ATB	20°	25°	L&T	G	2/7/42	**27080**21030240	TB	
	250		**30**	-	**40**	3,2	2,2	ATB	15°	15°	L&T	G	COMBI 3	**27080**2503040	CB	
	250		**30**	-	**60**	3,2	2,2	ATB	15°	15°	T	F	COMBI 3	**27080**2503060	CB	
	250		**30**	-	**80**	3,2	2,2	ATB	10°	15°	T	SF	COMBI 3	**27080**2503080	CB	
	300		**30**	-	**48**	3,2	2,2	ATB	20°	15°	L&T	G	COMBI 3	**27080**3003048	CB	
	300		**30**	-	**72**	3,2	2,2	ATB	15°	15°	T	F	COMBI 3	**27080**3003072	CB	
	**300**		**30**	-	**96**	3,2	2,2	ATB	10°	15°	T	SF	COMBI 3	**27080**3003096	CB	
	315		**30**	-	**48**	3,2	2,2	ATB	15°	15°	L&T	G	COMBI 3	**27080**3153048	CB	
	315		**30**	-	**60**	3,2	2,2	ATB	15°	15°	T	F	COMBI 3	**27080**3153060	CB	
	350		**30**	-	**54**	3,5	2,5	ATB	15°	15°	L&T	G	COMBI 3	**27080**3503054	CB	
	350		**30**	-	**84**	3,5	2,5	ATB	10°	15°	T	SF	COMBI 3	**27080**3503084	CB	
	400		**30**	-	**60**	3,5	2,5	ATB	15°	15°	L&T	G	COMBI 3	**27080**4003060	CB	
	400		**30**	-	**96**	3,5	2,5	ATB	10°	15°	T	F	COMBI 3	**27080**4003096	CB	



LAME TCT MASTERBLADES

EN *TCT blades MASTERBLADES*
FR *Lames TCT MASTERBLADES*
ESP *Discos TCT MASTERBLADES*
PT *Lâminas TCT MASTERBLADES*

27081

LEGNO CON CHIODI
Wood with nails

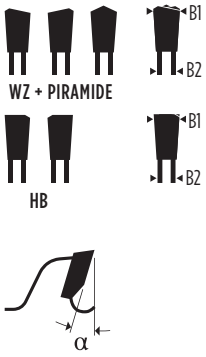


TRAPPED BLISTER (TB)

CARTON BOX (CB)

Confezione
Packaging

CARATTERISTICHE TECNICHE
Technical features



LEGNO CON CHIODI *Wood with nails*	●●●●●
LEGNO DA COSTRUZIONE *Constuction wood*	●●●●●
OSB *Osb*	●●●●●
LEGNO *Wood*	●●●
COMPENSATO *Plywood*	●●●

MACCHINA *Machines*	D (mm)	D (in)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	160		**20**	-	**24**	1,8	1,2	WZ + piramide	18°	12° 25°	L&T	G	2/6/32	**270811**602024	TB	consultare
	165	6 1/2"	**20**	-	**24**	1,8	1,2	WZ + piramide	18°	12° 25°	L&T	G	2/6/32	**270811**652024	TB	listino
	190		**30**	-	**24**	2	1,4	WZ + piramide	18°	12° 25°	L&T	G	2/7/42	**270811**903024	TB	*see price list*
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**30**	2	1,4	WZ + piramide	18°	12° 25°	L&T	G	2/7/42	**270812**103030	TB	
	235	9 1/4"	**30**	-	**30**	2,2	1,6	WZ + piramide	18°	12° 25°	L&T	G	2/7/42	**270812**353030	CB	
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**30**	2	1,4	WZ + piramide	18°	12° 25°	L&T	G	2/7/42	**270812**103030	TB	
	250		**30**	-	**20**	3,2	2,2	HB	20°	-	L&T	G	COMBI 3	**270812**503020	CB	
	300		**30**	-	**20**	3,2	2,2	HB	17°	-	L&T	G	COMBI 3	**270813**003020	CB	
	315		**30**	-	**20**	3,2	2,2	HB	17°	-	L&T	G	COMBI 3	**270813**153020	CB	
	350		**30**	-	**24**	3,5	2,5	HB	15°	-	L&T	G	COMBI 3	**270813**503024	CB	
	400		**30**	-	**28**	3,5	2,5	HB	15°	-	L&T	G	COMBI 3	**270814**003028	CB	

LAME TCT MASTERBLADES

EN *TCT blades MASTERBLADES*
FR *Lames TCT MASTERBLADES*
ESP *Discos TCT MASTERBLADES*
PT *Lâminas TCT MASTERBLADES*

27082

ALLUMINIO E MULTIMATERIALE

Aluminium and multimaterial

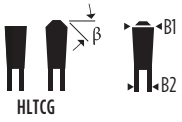


TRAPPED BLISTER (TB)

CARTON BOX (CB)

Confezione
Packaging

CARATTERISTICHE TECNICHE
Technical features





ALLUMINIO *Aluminium*	●●●●●
PLASTICA *Plastics*	●●●●●
RAME *Copper*	●●●●●
OTTONE *Brass*	●●●●●
LAMINATO *Laminate*	●●●●
MELAMINA *Melamine*	●●●●

MACCHINA *Machines*	D (mm)	D (in)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	140	5 1/2"	**20**	16/15.875/12.75	**42**	2,4	1,8	HLTCG	-5°	45°	–	–	2/6/32	**270821**402042	TB	consultare
	**165**	6 1/2"	**20**	15,875	**54**	2,4	1,8	HLTCG	-5°	45°	–	–	2/6/32	**270821**652054	TB	listino
	190		**30**	20/16/15.875	**54**	2,4	1,8	HLTCG	-5°	45°	–	–	2/7/42	**270821**903054	TB	*see price list*
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**54**	2,4	1,8	HLTCG	-5°	45°	–	–	COMBI 3	**270822**103054	CB	
	**216**	8 1/2"	**30**	-	**60**	2,4	1,8	HLTCG	-5°	45°	–	–	COMBI 3	**270822**163060	CB	
	254	10"	**30**	25.4/25/20/16/15.875	**80**	2,4	1,8	HLTCG	-5°	45°	–	–	COMBI 3	**270822**543080	CB	
	305	12"	**30**	25.4/25/20/16/15.875	**96**	2,4	1,8	HLTCG	-5°	45°	–	–	COMBI 3	**270823**053096	CB	
	250		**32**	-	**80**	3,2	2,5	HLTCG	5°	45°	–	–	2/12/64	**270822**503280	CB	
	300		**32**	-	**96**	3,2	2,5	HLTCG	5°	45°	–	–	2/12/64	**270823**003296	CB	
	**350**		**32**	-	**84**	3,6	3	HLTCG	5°	45°	–	–	2/12/64	**270823**503284	CB	
	350		**32**	-	**108**	3,6	3	HLTCG	5°	45°	–	–	2/12/64	**270823**5032108	CB	
	400		**32**	-	**96**	4	3,2	HLTCG	5°	45°	–	–	2/12/64	**270824**003296	CB	
	450		**32**	-	**108**	4,2	3,5	HLTCG	5°	45°	–	–	2/12/64	**270824**5032108	CB	

LAME TCT MASTERBLADES

EN *TCT blades MASTERBLADES*
FR *Lames TCT MASTERBLADES*
ESP *Discos TCT MASTERBLADES*
PT *Lâminas TCT MASTERBLADES*

27083

ACCIAIO
Steel

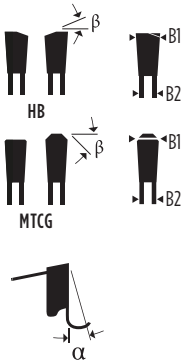


TRAPPED BLISTER (TB)

CARTON BOX (CB)

Confezione
Packaging

CARATTERISTICHE TECNICHE
Technical features



METALLO *Metal* ●●●●●
ACCIAIO *Steel* ●●●●●
INOX *Inox* ●

DENTI CERMET (CERAMICA E METALLO)
TEETH CERMET (CERAMIC AND METAL)
per una maggiore durata della lama.
Nessuna scintilla, taglio freddo.
for longer blade life. No spark, cold cut.

MACCHINA *Machines*	D (mm)	D (in)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	136	5 3/8"	**20**	-	**30**	1,6	1,2	HB	0°	20°	–	–	-	**27083**1362030	TB	consultare
	150	5 7/8"	**20**	-	**32**	1,6	1,2	HB	0°	20°	–	–	-	**27083**1502032	TB	listino
	160		**20**	16/15.875	**36**	1,6	1,2	HB	0°	20°	–	–	2/6/32	**27083**1602036	TB	*see price list*
	165	6 1/2"	**20**	16/15.875	**36**	1,6	1,2	HB	0°	20°	–	–	2/6/32	**27083**1652036	TB	
	**184**	7 1/4"	**30**	25.4/25/20/16/15.875	**48**	2	1,6	HB	0°	20°	–	–	2/7/42	**27083**1843048	TB	
	190		**30**	20	**48**	2	1,6	HB	0°	20°	–	–	2/7/42	**27083**1903048	TB	
	203	8"	**15,875**	-	**42**	1,8	1,4	HB	0°	20°				**27083**2031542	CB	
	210	8 1/4"	**30**	25.4/25/20/16/15.875	**48**	2	1,6	HB	0°	20°	–	–	2/7/42	**27083**2103048	TB	
	230	9"	**30**	25,4	**48**	2	1,6	HB	0°	20°	–	–	2/7/42	**27083**2303048	CB	
	254	10"	**25,4**	15,875	**60**	2,6	2,2	MTCG	0°	45°	–	–	COMBI 3	**27083**2542560	CB	
	**305**	12"	**25,4**	-	**60**	2,6	2,2	MTCG	0°	45°	–	–	COMBI 3	**27083**3052560	CB	
	355	14"	**25,4**	-	**80**	2,6	2,2	MTCG	0°	45°	–	–	COMBI 3	**27083**3552580	CB	

ATTENZIONE: verificare sempre che la macchina sia idonea al funzionamento con lame per acciaio.
CAUTION: Always check that the machine is suitable for operation with steel blades.

LAME TCT MASTERBLADES

EN *TCT blades MASTERBLADES*
FR *Lames TCT MASTERBLADES*
ESP *Discos TCT MASTERBLADES*
PT *Lâminas TCT MASTERBLADES*

27084



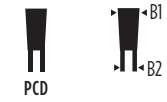
TRAPPED BLISTER (TB)

CARTON BOX (CB)

Confezione
Packaging

FIBROCEMENTO
Fiber cement

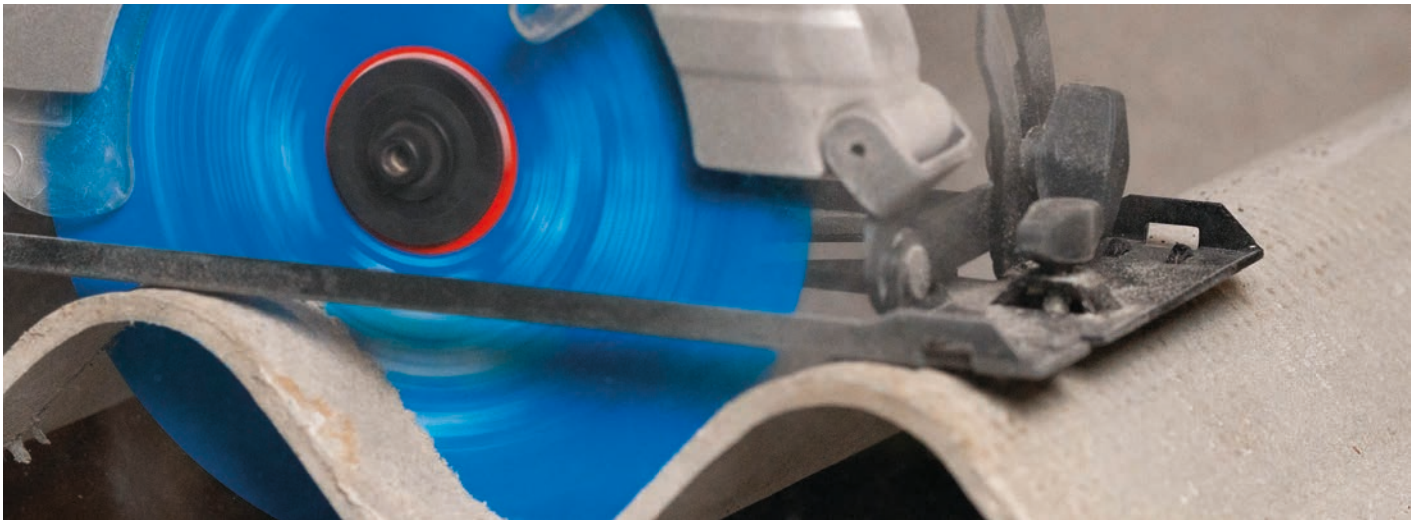
CARATTERISTICHE TECNICHE
Technical features





FIBROCEMENTO *Fiber cement* ●●●●●
CARTONGESSO *Plasterboard* ●●●●●

MACCHINA *Machines*	D (mm)	D (in)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	160		**20**	-	**4**	1,8	1,2	PCD	10°	-	-	-	2/6/32	**27084**1602004	TB	consultare
	**165**	6 1/2"	**20**	-	**4**	1,8	1,2	PCD	10°	-	-	-	2/6/32	**27084**1652004	TB	listino
	190		**30**	-	**4**	1,8	1,2	PCD	10°	-	-	-	2/7/42	**27084**1903004	TB	*see price list*
	216	8 1/2"	**30**	-	**6**	2	1,6	PCD	10°	-	-	-	2/7/42	**27084**2163006	TB	
	**216**	8 1/2"	**30**	-	**6**	2	1,6	PCD	10°	-	-	-	2/7/42	**27084**2163006	TB	



RAPIDO

Linea di lame TCT nata per rispondere alle esigenze del mercato Americano, Rapido è un' ottima alternativa alla linea MASTERBLADES in quanto unisce efficienza e convenienza in un'unica soluzione: con indicazione delle misure in pollici (e conversioni in mm), sono progettate con materiali di qualità e offrono ottime performance di taglio ed un'elevata durata dell'utensile. Ideali per i professionisti e per gli hobbisti più esigenti.

EN

A line of TCT blades created to meet the needs of latino-american market, Rapido is an excellent alternative to the MASTERBLADES line as it combines efficiency and convenience in a single solution: with inch size indication (and metric conversions), they are designed with quality materials and offer excellent cutting performance and high tool life. Ideal for professional operators and demanding hobbyists alike.

FR

Ligne de lames TCT née pour répondre aux besoins du marché sud-américain, RAPIDO est une excellente alternative à la gamme MASTERBLADES car elle combine efficacité et économie dans une solution unique: avec des indications de mesures en pouces (et conversions en mm), ces lames sont conçues avec des matériaux de qualité et offrent d'excellentes performances de coupe ainsi qu'une longue durée de vie de l'outil. Idéales pour les professionnels et les amateurs les plus exigeants.

ESP

Una línea de discos TCT creada para satisfacer las necesidades del mercado americano, Rapido es una excelente alternativa a la línea MASTERBLADES, ya que combina eficiencia y comodidad en una sola solución: con indicación de las medidas en pulgadas (y conversiones en mm), están diseñadas con materiales de calidad y ofrecen un excelente rendimiento de corte y una alta vida útil de la herramienta. Ideal para profesionales y los aficionados más exigentes.

PT

A linha de lâminas TCT criada para atender às necessidades do mercado latino-americano, a Rapido, é uma excelente alternativa à linha MASTERBLADES, pois combina eficiência e praticidade em uma única solução: com indicação de medidas em polegadas (e conversões métricas), elas são fabricadas com materiais de qualidade e oferecem excelente desempenho de corte e longa vida útil. Ideal tanto para profissionais quanto para amadores exigentes.



I denti TCT più sottili riducono la resistenza al taglio, consentendo un lavoro più rapido ed efficiente con minore sforzo sulla macchina. Questo si traduce in una maggiore precisione, una finitura più pulita e una riduzione del consumo energetico, ottimizzando le prestazioni complessive.

Le lame con denti più sottili sono ottimizzate per elettroutensili a batteria, garantendo massime prestazioni ed allo stesso tempo una minore richiesta energetica. Ideali per prolungare la durata delle batterie, sono comunque perfette anche per utensili a filo.

Il design anti-kickback dei dischi per legno riduce il rischio di movimenti bruschi e incontrollati durante il taglio, evitando che la lama venga spinta all'indietro. Inoltre protegge i denti dall'impatto con corpi estranei, migliorando la stabilità, il controllo e la sicurezza, per un taglio preciso e sicuro.

EN

ULTRA THIN KERF
Thinner TCT teeth reduce cutting resistance, allowing faster and more efficient work with less effort on the machine. This results in greater accuracy, cleaner finish and reduced energy consumption, optimizing overall performance .

HIGH EFFICENCY CORDED OR CORDLESS
Blades with thinner teeth are optimized for cordless power tools, providing maximum performance while requiring less energy. Ideal for extending battery life, they are still perfect for corded tools as well.

ANTI KICKBACK DESIGN
The anti-kickback design of wood discs reduces the risk of sudden, uncontrolled movements during cutting by preventing the blade from being pushed backward. It also protects the teeth from impact with foreign objects, improving stability, control and safety for precise and safe cutting.

FR

ULTRA THIN KERF
Les dents TCT plus fines réduisent la résistance à la coupe, permettant un travail plus rapide et plus efficace avec un effort moindre sur la machine. Cela se traduit par une plus grande précision, une finition plus propre et une réduction de la consommation d'énergie, optimisant ainsi les performances globales.

HIGH EFFICENCY CORDED OR CORDLESS
Les lames avec dents plus fines sont optimisées pour les outils électroportatifs à batterie, garantissant des performances maximales tout en réduisant la consommation d'énergie. Parfaites pour prolonger la durée de vie des batteries, elles sont également idéales pour les outils filaires.

ANTI KICKBACK DESIGN
Le design anti-recul des disques pour bois réduit le risque de mouvements brusques et incontrôlés pendant la coupe, empêchant la lame d'être repoussée vers l'arrière. Il protège également les dents contre les impacts avec des corps étrangers, améliorant la stabilité, le contrôle et la sécurité, pour une coupe précise et sûre.

ESP

ULTRA THIN KERF
Los dientes TCT más delgados reducen la resistencia al corte, lo que permite un trabajo más rápido y eficiente con menos esfuerzo en la máquina Esto da como resultado una mayor precisión, un acabado más limpio y un menor consumo de energía, optimizando el rendimiento general.

HIGH EFFICENCY CORDED OR CORDLESS
Los discos con dientes más delgados están optimizadas para herramientas eléctricas inalámbricas, lo que garantiza el máximo rendimiento y, al mismo tiempo, una menor demanda de energía. Ideales para prolongar la vida útil de las baterías, también son perfectos para herramientas con cable.

ANTI KICKBACK DESIGN
El diseño anti estrés de los discos para madera reduce el riesgo de movimientos bruscos e incontrolados durante el corte, evitando que la hoja genere un esfuerzo en dirección al usuario. También protege los dientes del impacto con objetos extraños, mejorando la estabilidad, el control y la seguridad, para un corte preciso y seguro.

PT

ULTRA THIN KERF
TOs dentes TCT mais finos reduzem a resistência ao corte, permitindo um trabalho mais rápido e eficiente com menos esforço da máquina. Isso resulta em maior precisão, acabamento mais limpo e menor consumo de energia, otimizando o desempenho geral.

HIGH EFFICENCY CORDED OR CORDLESS
Lâminas com dentes mais finos são otimizadas para ferramentas elétricas sem fio, proporcionando desempenho máximo com menor consumo de energia. Ideais para prolongar a vida útil da bateria, elas também são perfeitas para ferramentas com fio.

ANTI KICKBACK DESIGN
O design anti-coice dos discos para madeira reduz o risco de movimentos repentinos e descontrolados durante o corte, impedindo que a lâmina seja empurrada para trás. Além disso, protege os dentes contra impactos com objetos estranhos, melhorando a estabilidade, o controle e a segurança para um corte preciso e seguro.



LAME TCT RAPIDO

EN *TCT blades RAPIDO*
FR *Lames TCT RAPIDO*
ESP *Discos TCT RAPIDO*
PT *Lâminas TCT RAPIDO*

27090

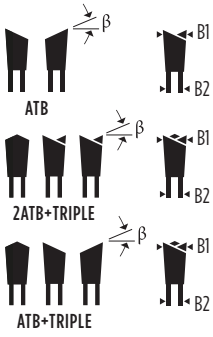
LEGNO
Wood

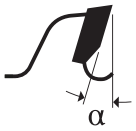


CARTON BOX (CB)

Confezione
Packaging

CARATTERISTICHE TECNICHE
Technical features





LEGNO *Wood* ●●●●●
OSB *Osb* ●●●●●
LEGNO CON CHIODI *Wood with nails* ●●●●
LEGNO DA COSTRUZIONE *Constuction wood* ●●●●
COMPENSATO *Plywood* ●●●
TRUCIOLATO *Chipboard* ●●

MACCHINA *Machines*	D (in)	D (mm)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	5 1/2"	140	**20**	16/15.875 (5/8")	**24**	1.6	1.0	ATB	20°	15°	L&T	G	-	**27090**1402024	CB	consultare
	6 1/2"	165	**20**	16/15.875 (5/8")	**24**	1.6	1.0	ATB	21°	12°	L&T	G	-	**27090**1652024	CB	listino
	7 1/4"	184	**30**	20/16/15.875 (5/8")	**16**	1.6	1.0	ATB	21°	15°	L	G	-	**27090**1843016	CB	*see price list*
	7 1/4"	184	**20**	16/15.875 (5/8")	**24**	1.6	1.0	ATB	17°	12°	L&T	G	-	**27090**1842024	CB	
	7 1/4"	184	**15.875**	-	**24**	1.6	1.0	ATB	17°	15°	L&T	G	-	**27090**1845824	CB	
	7 1/4"	184	**30**	20/16/15.875 (5/8")	**24**	1.6	1.0	ATB	17°	15°	L&T	G	-	**27090**1843024	CB	
	7 1/4"	184	**30**	20/16/15.875 (5/8")	**40**	1.6	1.0	ATB	18°	15°	T	F	-	**27090**1843040	CB	
	7 1/4"	184	**30**	20/16/15.875 (5/8")	**60**	1.6	1.0	ATB	15°	15°	T	SF	-	**27090**1843060	CB	
	8 1/4"	210	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**24**	1.8	1.2	ATB	18°	12°	L&T	G	-	**27090**2103024	CB	
	8 1/4"	210	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**48**	1.8	1.2	ATB	18°	15°	T	F	-	**27090**2103048	CB	
	8 1/4"	210	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**60**	1.8	1.2	ATB	16°	15°	T	SF	-	**27090**2103060	CB	
	9"	230	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**40**	1.8	1.2	2ATB + Triple	17°	20° 30°	L&T	G	-	**27090**2303040	CB	
	10"	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**24**	2.0	1.4	2ATB + Triple	19°	20° 30°	L	G	-	**27090**2543024	CB	
	10"	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**40**	2.0	1.4	2ATB + Triple	18°	20° 30°	L&T	G	-	**27090**2543040	CB	
	10"	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**60**	2.0	1.4	2ATB + Triple	17°	20° 30°	T	F	-	**27090**2543060	CB	
	10"	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**80**	2.0	1.4	2ATB + Triple	15°	20° 30°	T	SF	-	**27090**2543080	CB	
	12"	305	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**24**	2.1	1.6	2ATB + Triple	16°	20° 30°	L	G	-	**27090**3053024	CB	
	12"	305	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**40**	2.1	1.6	2ATB + Triple	19°	20° 30°	L&T	G	-	**27090**3053040	CB	
	12"	305	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**60**	2.1	1.6	2ATB + Triple	18°	20° 30°	T	F	-	**27090**3053060	CB	

LAME TCT RAPIDO

EN *TCT blades RAPIDO*
FR *Lames TCT RAPIDO*
ESP *Discos TCT RAPIDO*
PT *Lâminas TCT RAPIDO*

27090

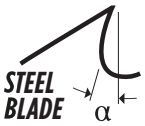


CARTON BOX (CB)

Confezione
Packaging

COMPENSATO
Plywood

CARATTERISTICHE TECNICHE
Technical features



COMPENSATO *Plywood*	●●●●●
LAMINATO *Laminate*	●●●●●
TRUCIOLATO *Chipbpoard*	●●●●
MELAMINA *Melamine*	●●●●
LEGNO *Wood*	●
OSB *Osb*	●●●●
MULTISTRATO *Multilayer*	●●●●●
PLASTICA *Plastic*	●●●

MACCHINA *Machines*	D (in)	D (mm)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	7 1/4"	184	**30**	20/16/15.875 (5/8")	**140**	2.0	1.2	-	5°	-	-	F	-	**27090**18430140	CB	consultare listino *see price list*



LAME TCT RAPIDO

EN *TCT blades RAPIDO*
FR *Lames TCT RAPIDO*
ESP *Discos TCT RAPIDO*
PT *Lâminas TCT RAPIDO*

27092



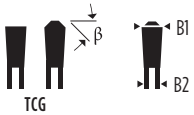
CARTON BOX (CB)

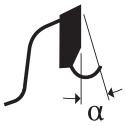
Confezione
Packaging

ALLUMINIO E MULTIMATERIALE

Aluminium and multimaterial

CARATTERISTICHE TECNICHE
Technical features





ALLUMINIO *Aluminium* ●●●●●
PLASTICA *Plastics* ●●●●
RAME *Copper* ●●●●●
OTTONE *Brass* ●●●●●
LAMINATO *Laminate* ●●●
MELAMINA *Melamine* ●●●

MACCHINA *Machines*	D (in)	D (mm)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	**7 1/4"**	184	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**48**	2.2	1.6	TCG	-4°	45°	-	-	-	**27092**1843048	CB	consultare
	8 1/4"	210	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**54**	2.2	1.6	TCG	-4°	45°	-	-	-	**27092**2103054	CB	listino
	8 1/4"	210	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**60**	2.2	1.6	TCG	-5°	45°	-	-	-	**27092**2103060	CB	*see price list*
	**10"**	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**60**	2.4	1.8	TCG	-5°	45°	-	-	-	**27092**2543060	CB	
	10"	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**80**	2.4	1.8	TCG	-4°	45°	-	-	-	**27092**2543080	CB	
	10"	254	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**100**	2.4	1.8	TCG	-5°	45°	-	-	-	**27092**25430100	CB	
	12"	305	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**80**	2.4	1.8	TCG	-5°	45°	-	-	-	**27092**3053080	CB	
	12"	305	**30**	25.4 (1")/25/20/16 15.875 (5/8")	**96**	2.4	1.8	TCG	-4°	45°	-	-	-	**27092**3053096	CB	

LAME TCT RAPIDO

EN *TCT blades RAPIDO*
FR *Lames TCT RAPIDO*
ESP *Discos TCT RAPIDO*
PT *Lâminas TCT RAPIDO*

27095



CARTON BOX (CB)

Confezione
Packaging

VINILICI & PVC
Vinyl and pvc

CARATTERISTICHE TECNICHE
Technical features

60° STEEL TEETH DESIGN

RIVESTIMENTI IN VINILE ●●●●●
Vinyl coverings
TUBI IN PVC ●●●●●
PVC pipes

MACCHINA *Machines*	D (in)	D (mm)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	7 1/4"	184	**15.875**	5/8" Diamond Knockout	**120**	1.4	1.2	-	60°	-	–	F	-	**27095**18458120	CB	consultare listino *see price list*





LAME TCT RAPIDO

EN *TCT blades RAPIDO*
FR *Lames TCT RAPIDO*
ESP *Discos TCT RAPIDO*
PT *Lâminas TCT RAPIDO*

27094

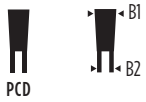


CARTON BOX (CB)

Confezione
Packaging

FIBROCEMENTO
Fiber cement

CARATTERISTICHE TECNICHE
Technical features





FIBROCEMENTO *Fiber cement* ●●●●●
CARTONGESSO *Plasterboard* ●●●●●

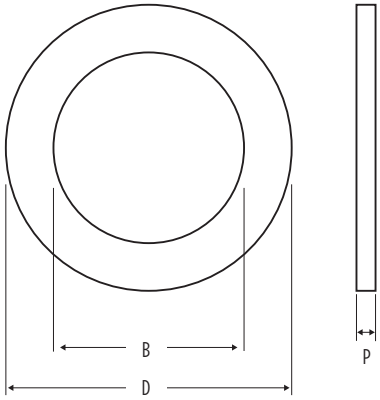
MACCHINA *Machines*	D (in)	D (mm)	FORO (mm) *Bore(mm)*	ANELLI DI RIDUZIONE *Reduction rings*	NUMERO DI DENTI *n° of theet*	LARGHEZZA DI TAGLIO (B1) *Cutting width*	SPESSORE LAMA (B2) *Blade thickness*	FORMA DEI DENTI *Tooth shape*	ANGOLO DI SPOGLIA SUPERIORE (α) *Hook angle*	ANGOLO DI AFFILATURA (β) *Sharpening angle*	LUNGO VENA TRAVERSO VENA *Rip or cross cut*	FINITURA *Finishing*	FORI DI TRASCINAMENTO *Dragging holes*	COD.	TIPO CONFEZIONE *Packaging*	CAD /*each* €
	7 1/4"	184	**15.875**	5/8" Diamond Knockout	**4**	1.8	1.2	PCD	10°	-	–	–		**27094**1841504	CB	consultare listino *see price list*



ANELLI DI RIDUZIONE

EN *Reduction rings*
FR *Anneaux de réduction*
ESP *Anillos reductores*
PT *Anel de redução*

27072



ATTENZIONE:
Lo spessore dell'anello può essere inferiore o uguale allo spessore della lama, ma NON superiore.
Lo spessore dell'anello può essere al massimo 0,3 mm inferiore a quello della lama.
(es.: lama 1,5 mm - anello 1,2 mm)

ATTENTION:
The thickness of the ring can be less than or equal to the thickness of the blade, but NOT greater.
The ring thickness can be a maximum of 0.3 mm less than the blade thickness.
(e.g.: blade 1.5 mm - ring 1.2 mm)

ANELLI DI RIDUZIONE PER LAME A SPESSORE RIDOTTO (MASTERBLADE E RAPIDO)

Reduction rings for thin blades (Masterblade and Rapido)

D	B	P			cad / each
mm	mm (*inches*)	mm	pcs.	cod.	€
20	12,75	1	3	**27072**201210	consultare
20	12,75	1,5	3	**27072**201215	listino
20	15,875 (5/8)	0,8	3	**27072**201508	*see price list*
20	15,875 (5/8)	1	3	**27072**201510	
20	15,875 (5/8)	1,5	3	**27072**201515	
20	16	1	3	**27072**201610	
20	16	1,5	3	**27072**201615	
25	15,875 (5/8)	1,5	3	**27072**251515	
30	15,875 (5/8)	0,8	3	**27072**301508	
30	15,875 (5/8)	1	3	**27072**301510	
30	15,875 (5/8)	1,2	3	**27072**301512	
30	15,875 (5/8)	1,5	3	**27072**301515	
30	16	0,8	3	**27072**301608	
30	16	1	3	**27072**301610	
30	16	1,5	3	**27072**301615	
30	20	0,8	3	**27072**302008	
30	20	1	3	**27072**302010	
30	20	1,5	3	**27072**302015	
30	25	1	3	**27072**302510	
30	25	1,5	3	**27072**302515	
30	25,4 (1)	1	3	**27072**3025410	
30	25,4 (1)	1,5	3	**27072**3025415	

ANELLI DI RIDUZIONE PER LAME CIRCOLARI

Reduction ring for circular blades

D	B	P			cad / each
mm	mm	mm	pcs.	cod.	€
35	30	1,6	3	**270723**530	consultare
35	25	1,6	3	**270723**525	listino
35	20	1,6	3	**270723**520	*see price list*
32	30	1,6	3	**270723**230	
32	25	1,6	3	**270723**225	
32	20	1,6	3	**270723**220	
30	20	1,4	3	**270723**020	
30	18	1,4	3	**270723**018	
30	16	1,4	3	**270723**016	
25	20	1,4	3	**270722**520	
20	16	1,2	3	**270722**016	

SEGA CIRCOLARE UNIVERSALE CON DENTI IN METALLO DURO

EN *Universal carbide tipped circular sawblade*
FR *Lame de scie circulaire carbure universelle*
ESP *Sierra circular universal con dientes de metal duro*
PT *Ponta de carboneto universal lâmina de serra circular*

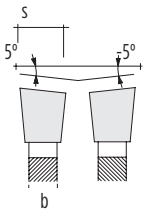
27055

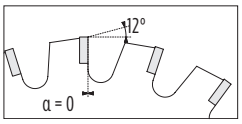
ACCIAIO E MULTIUSO

Steel and multi porpouse



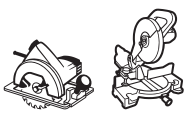
Ø mm	s spessore *thickness*	b	d foro *hole*	z n. denti *n. teeth*	α spoglia *hook angle*	cod.	cad each €
160	2,2	1,6	20	28	0°	**27055**1602028	consultare
160	2,2	1,6	30	28	0°	**27055**1603028	listino
180	2,2	1,6	30	32	0°	**27055**1803032	*see price list*
190	2,2	1,6	30	32	0°	**27055**1903032	
230	2,2	1,6	30	40	0°	**27055**2303040	
240	2,2	1,6	30	42	0°	**27055**2403042	
250	2,4	2,0	20	48	0°	**27055**2502048	
250	2,4	1,8	30	48	0°	**27055**2503048	
300	2,4	1,8	30	60	0°	**27055**3003060	
300	2,4	1,8	30	80	0°	**27055**3003080	
305	2,4	1,8	25,4	80	0°	**27055**3052580	
350	2,5	2,0	30	70	0°	**27055**3503070	
350	2,5	2,0	30	90	0°	**27055**3503090	





Lama circolare con denti in metallo duro per il taglio a secco di ferro, acciaio dolce, alluminio, leghe leggere, materiali composti (pannelli isolanti, laminati), plastica dura, legno e truciolati. Il taglio non deve fuoriuscire dal materiale oltre 10-15 mm.

Ideal for cutting in iron, soft steel, Aluminium, brass, copper, plastics, plexiglass, chipboards, composites. Applications on portable or bench sawing machines. The circular blade can't go out the work-piece material further than 10÷15 mm.



Metalli *Metals*
Alluminio *Aluminum*
Legno *Wood*
Truciolato *Chipboard*
Sandwich *Sandwich*
Plastica *Plastic*

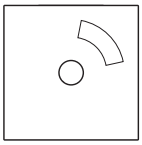
SEGHE CIRCOLARI IN HSS-DMo5 E HSS-CO PER IL TAGLIO DI ACCIAI E MATERIALI METALLICI

EN *HSS and HSS-CO circular saw blades for cutting steel and metals*
FR *Scies circulaires HSS et HSS-CO pour couper l'acier et les métaux*
ESP *Hojas HSS y HSS-CO para sierras circulares y tronzadoras para cortar acero y metales*
PT *Lâminas de serra circular hss e hss-co para cortar aço e metais*

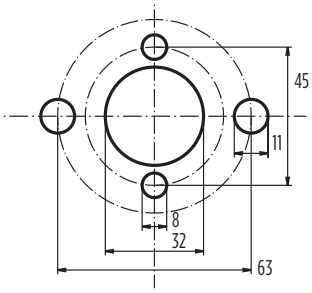
~UNI 4012

PER TRONCATRICI LENTE
For slow cutting-off machines



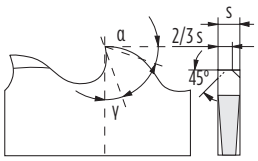


Confezione
Packaging



N°2 Ø 11X63 mm
N°2 Ø 8X45 mm
Fori di trascinamento
Drive holes - Trouse guide

Profilati
Structurals



Ø mm	s spessore *thickness*	d foro *hole*	z n. denti *n. teeth*
200	1,8	32	160
225	1,9	32	180
250	2	32	200
275	2,5	32	220
300	2,5	32	220
315	2,5	32	240
350	2,5	32	280

27001 HSS-DMo5 VAPO
BW DIN 1838 T4

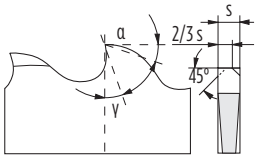
cod.	cad /each €
27001200	consultare listino
27001225	*see price list*
27001250	
27001275	
27001300	
27001315	
27001350	

27011 HSS-CO 5% VAPO
BW DIN 1838 T4

cod.	cad /each €
27011200	consultare listino
27011225	*see price list*
27011250	
27011275	
27011300	
27011315	
27011350	

Pieni
Full section

Profilati
Structurals



Ø mm	s spessore *thickness*	d foro *hole*	z n. denti *n. teeth*
200	1,8	32	128
225	1,9	32	140
250	2	32	160
275	2,5	32	180
300	2,5	32	180
315	2,5	32	200
350	2,5	32	220

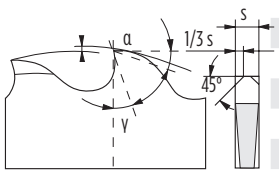
27002 HSS-DMo5 VAPO
BW DIN 1838 T5

cod.	cad /each €
27002200	consultare listino
27002225	*see price list*
27002250	
27002275	
27002300	
27002315	
27002350	

27012 HSS-CO 5% VAPO
BW DIN 1838 T5

cod.	cad /each €
27012200	consultare listino
27012225	*see price list*
27012250	
27012275	
27012300	
27012315	
27012350	

Pieni
Full section



Ø mm	s spessore *thickness*	d foro *hole*	z n. denti *n. teeth*
200	1,8	32	100
225	1,9	32	120
250	2	32	128
275	2,5	32	140
300	2,5	32	160
315	2,5	32	160
350	2,5	32	180

27003 HSS-DMo5 VAPO
C (HZ) T6

cod.	cad /each €
27003200	consultare listino
27003225	*see price list*
27003250	
27003275	
27003300	
27003315	
27003350	

27013 HSS-CO 5% VAPO
C (HZ) T6

cod.	cad /each €
27013200	consultare listino
27013225	*see price list*
27013250	
27013275	
27013300	
27013315	
27013350	

t = è il passo tra due denti consecutivi espresso in mm.
t = is the pitch between two consecutive teeth expressed in mm.

FRESE A DISCO PER CHIAVI

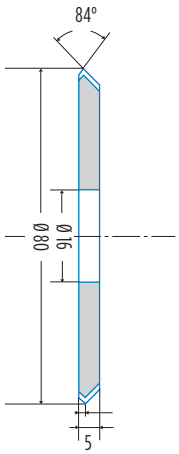
EN *Milling cutters for keys*
FR *Fraises pour clefs*
ESP *Fresas para llaves*
PT *Fresas para chaves*

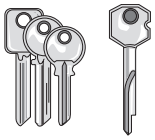
26125

FRESE BICONICHE

Prismatic milling cutters







PER MACCHINE DUPLICATRICI DI CHIAVI

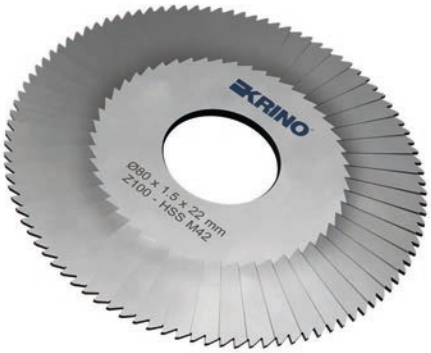
For key cutting machines:

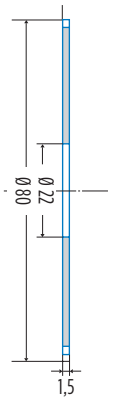
Rekord – Rekord plus, Rekord 2000, Special Super, Special Master, Bravo Super, Bravo Master, Bravo Europa, Poker-s, Poker Plus, etc.

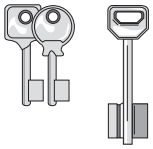
Dimensioni ***Dimensions***	**Z n. denti** ***Z n. teeth***	**cod.**	**cad /each** **€**
Ø 80x5x16 HSS-CO	110	**26125**001	consultare listino *see price list*
Ø 80x5x16 HSS-CO	120	**26125**002	
Ø 80x5x16 ASP 30 - CO8%	110	**26125**003	
Ø 80x5x16 Metallo duro *Carbide*	80	**26125**005	

FRESE A DISCO A 3 TAGLI

Three cutting milling cutters







PER MACCHINE DUPLICATRICI DI CHIAVI

For key cutting machines:

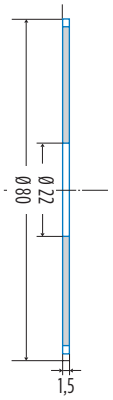
Targa –Targa 2000 –Targa 2000 P Tech 3, Modular IV, Serenissima, Opera IV, X80, GT 40B, GT 40C, GT 40D, Super Dar, Mini Jolly, etc.

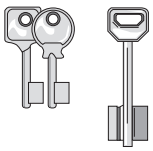
Dimensioni ***Dimensions***	**Z n. denti** ***Z n. teeth***	**cod.**	**cad /each** **€**
Ø 80x1,5x22 HSS-CO8%	100	**26125**010	consultare listino *see price list*
Ø 80x1,5x22 ASP 30 - CO8%	100	**26125**012	
Ø 80x1,5x22 Metallo duro *Carbide*	100	**26125**015	

FRESE A DISCO A TAGLIO PERIFERICO

Peripherical milling cutters







PER MACCHINE DUPLICATRICI DI CHIAVI

For key cutting machines:

Targa –Targa 2000 –Targa 2000 P Tech 3, Modular IV, Serenissima, Opera IV, X80, GT 40B, GT 40C, GT 40D, Super Dar, Mini Jolly, etc.

Dimensioni ***Dimensions***	**Z n. denti** ***Z n. teeth***	**cod.**	**cad /each** **€**
Ø 80x1,5x22 HSS-CO8%	100	**26125**020	consultare listino *see price list*
Ø 80x1,5x22 ASP 30* - CO8%	100	**26125**022	
Ø 80x1,5x22 Metallo duro *Carbide*	100	**26125**025	

* ASP 30 Acciaio superrapido sinterizzato (Metallurgia delle polveri)
* Sinterized steel C 1,28% - Cr 4,2% - Mo 5% - W 6,4% - Co 8,5% - V 3,1%

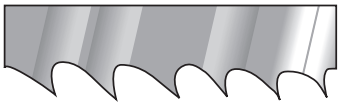
LAME A NASTRO BIMETALLICHE AD ALTE PRESTAZIONI - METALLURGIA DELLE POLVERI

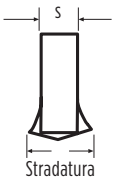
EN *Bimetal band saw blades - HSS POWDER METAL*
FR *Lames de scie à ruban bimetalliques - Métallurgie des poudres HSS*
ESP *Hojas de sierra de cinta bimetálicas*
PT *Lâminas de serra de fita bimetálicas - metalurgia do pó HSS*

25018 | **PM - M90**

ALTE PRESTAZIONI - HSS PM

High performance special blade - HSS PM





Dentatura / *Teeth*
ASP Metallurgia delle polveri
HRC: 70/71
Strip di supporto / *Body*
HRC: 48/50
(Alto contenuto di cromo / *High chrome*)

Stradatura
Tooth Set

METALLURGIA DELLE POLVERI

L'acciaio superrapido, derivato dal processo di metallurgia delle polveri, offre prestazioni eccezionali: presenta una elevata durezza a caldo e una elevata tenacità, garantita dall'alto contenuto di elementi di lega e dalla microstruttura fortemente omogenea. Gli utensili prodotti con la metallurgia delle polveri (Powder Metallurgy) hanno una durata più elevata ed un rendimento più alto, oltre che una finitura superficiale ottima, che agevola lo scorrimento dei trucioli di lavorazione lontano dalla zona di taglio.

Powder metallurgy

HSS made by powder metallurgy has excellent performances: its homogeneous structure assures high toughness and high resistance. The finishing of the tools are really smooth, so the chip can easily be evacuated far from the cutting zone, thus avoiding built-up edge growth.

MODULI DENTATURE A PASSO VARIABILE
Variable pitch modules

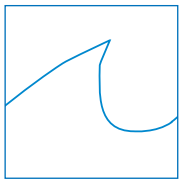


Variabile
Variable

TRIPLO TRUCIOLO
Triple chip

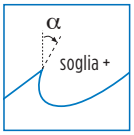


PROFILO A DENTE DI PRODUZIONE
Production tooth



Speciale geometria del dente realizzato con acciaio superrapido e metallurgia delle polveri.
Ha profilo PRODUCTION TOOTH e un'ampia gola di scarico XL.

Special tooth geometry made of high speed steel and powder metallurgy.
It has PRODUCTION TOOTH profile and a wide XL discharge groove.



SPOGLIA ESTREMAMENTE POSITIVA 12°
EXTREMELY Positive rake 12°

Dentatura variabile
Variable tooth
(z - tpi 0,75/1,25÷5/8)

Utilizzare su segatrici prevalentemente a ciclo di taglio automatico, in tutte le lavorazioni particolarmente gravose dove necessiti una lama che garantisca una elevata, costante e duratura resa prestazionale. Dedicata al taglio di sezioni piene ma anche interrotte (di medio o forte spessore), singole o eventualmente disposte affiancate in acciai con R < 1400 N/mm², acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai per lavorazioni a freddo e a caldo, acciai inossidabili, acciai inox resistenti al calore (Duplex®, Super Duplex®), titanio, leghe speciali.

Use on sawing machines mainly with automatic cutting cycle, in all particularly demanding processes where you need a blade that guarantees a high, constant and long-lasting performance. Dedicated to the cutting of solid or interrupted sections (of medium or strong thickness), single or possibly placed side by side in steels with R < 1400 N/mm², tempered steels, bearing steels, steels for molds, steels for cold working and hot, stainless steels, heat resistant stainless steels (Duplex®, Super Duplex®), titanium, special alloys.





Dimensioni (Altezza x Spessore) *Dimensions (Width x Thickness)*	**Passo dentatura (Moduli a passo variabile in Tpi)** *Toothing pitch (Variable pitches modules in Tpi)*						**cad /each**
mm	**1 / 1,4**	**1,4 / 2**	**2 / 3**	**3 / 4**	**4 / 6**	**5 / 8**	**€**
27 x 0,90			X	X	X	X	consultare listino
34 x 1,10		X	X	X	X	X	*see price list*
41 x 1,30		X	X	X	X		
54 x 1,60	X	X	X	X	X		

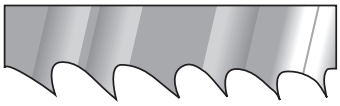
Prezzo (Al metro saldatura compresa)
Price (For meter weld included)

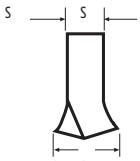
LAME A NASTRO BIMETALLICHE AD ALTE PRESTAZIONI - HSS AISI M42

EN *Bimetal band saw blades - HSS AISI M42*
FR *Lames de scie à ruban bimetalliques - HSS AISI M42*
ESP *Hojas de sierra de cinta bimetálicas - HSS AISI M42*
PT *Lâminas de serra de fita bimetálicas - HSS AISI M42*

25011 **HSS-CO 8% - M42**

ALTE PRESTAZIONI
High performance special blade





Dentatura / *Teeth*
AISI M42 - 8%Co
HRC: 68/69
Strip di supporto / *Body*
HRC: 48/50
(Alto contenuto di cromo / *High chrome*)

Stradatura
Tooth Set

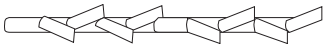


MODULI DENTATURE A PASSO VARIABILE
Variable pitch modules



Variabile
Variable

NORMALE DRITTA
Straight raker set



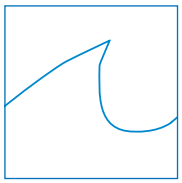
la più utilizzata
most used

MODULI DENTATURE A PASSO COSTANTE
Constant pitch modules



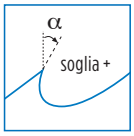
Fissa
Regular

PROFILO A DENTE CURVILINEO
Curvilinear tooth



Dente curvilineo che garantisce una esecuzione di taglio efficace e lineare, a beneficio di un migliore avanzamento.

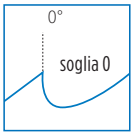
Curvilinear tooth that guarantees an effective and linear cutting execution to fit a better feed.



SPOGLIA ESTREMAMENTE POSITIVA 12°
EXTREMELY Positive rake 12°

Dentatura variabile
Variable tooth
(z - tpi 1/1,4÷5/8)3

Dentatura costante
Regular tooth
(z - tpi 2÷6)



SPOGLIA NEUTRA
Standard straight rake

Dentatura variabile
Variable tooth
(z - tpi 6/10÷10/14)

Dentatura costante
Regular tooth
(z - tpi 10÷18)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali dove necessiti una elevata resa prestazionale e vita operativa dell'utensile, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, in acciai fino a 1300 N/mm², acciai strutturali, acciai automatici, acciai al carbonio, acciai da bonifica, acciai per cuscinetti, acciai per stampi, acciai inossidabili, ghise lamellari e sferoidali, metalli non ferrosi come alluminio e rame, materie plastiche, materiali non metallici in genere.

Use on cutting-cycle saws (manual or automatic), in all kinds of artisan and industrial processes where a high performance yield and working life of the tool is required, for cutting full and interrupted sections, single or bundled, in steels up to 1300 N/mm², structural steels, automatic steels, carbon steels, tempered steels, bearing steels, steels for molds, stainless steels, lamellar and spheroidal cast irons, non-ferrous metals such as aluminum and copper, plastics, non-metallic materials in general.





Dimensioni (Altezza x Spessore)	**Passo dentatura (Moduli a passo variabile in Tpi)**															
Dimensions (Width x Thickness)	***Toothing pitch (Variable pitches modules in Tpi)***															**cad /each**
mm	**3**	**4**	**6**	**10**	**14**	**18**	**1/1,4**	**1,4/2**	**2/3**	**3/4**	**4/6**	**5/8**	**6/10**	**8/12**	**10/14**	**€**
6 x 0,65			X												X	consultare listino
6 x 0,90		X	X	X	X										X	*see price list*
10 x 0,65		X	X												X	
10 x 0,90		X	X	X	X										X	
13 x 0,65	X	X	X	X	X	X						X	X	X	X	
13 x 0,90	X	X	X	X	X							X	X	X	X	
20 x 0,90	X	X	X	X	X						X	X	X	X	X	
27 x 0,90					X				X	X	X	X	X	X	X	
34 x 1,10								X	X	X	X	X	X	X		
41 x 1,30								X	X	X	X	X	X			
54 x 1,30								X	X	X	X					
54 x 1,60							X	X	X	X	X					

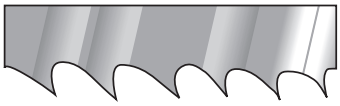
Prezzo (Al metro saldatura compresa)
Price (For meter weld included)

LAME A NASTRO BIMETALLICHE PER CARPENTERIA - HSS AISI M42

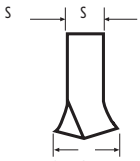
EN *Bimetal band saw blades - HSS AISI M42 - CARPENTRY SPECIAL BLADE*
FR *Lames de scie à ruban bimetalliques - HSS AISI M42 - LAME SPÉCIALE MENUISERIE*
ESP *Hojas de sierra de cinta bimetálicas - HSS AISI M42 - ESPECIAL CARPINTERÍA*
PT *Lâminas de serra de fita bimetálicas - HSS AISI M42 - LÂMINA ESPECIAL PARA CARPINTARIA*

25016 **HSS-CO 8% - M42**

DENTE RINFORZATO
Reinforced tooth



Dentatura / *Teeth*
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / *Body*
HRC: 44/46



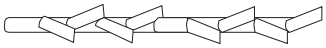
Stradatura
Tooth Set

MODULI DENTATURE A PASSO VARIABILE
Variable pitch modules

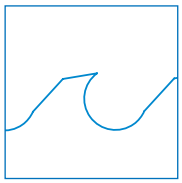


Variabile
Variable

STRADATURA MAGGIORATA
Extra set

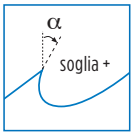


PROFILO A DENTE RINFORZATO
Reinforced tooth



Dente a profilo rinforzato, per una netta riduzione dei fenomeni di rottura dei denti ed una eccezionale resistenza agli impatti e alle vibrazioni.

Tooth with reinforced profile, for a clear reduction of the breaking phenomena of the teeth and an exceptional resistance to impacts and vibrations.



SPOGLIA POSITIVA 7°
Positive rake 7°

Dentatura variabile
Variable tooth
(z - tpi 0,75/1,25÷5/8)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), nelle lavorazioni di carpenteria dove necessiti una lama estremamente resistente e versatile, atta a tagliare le più diverse forme e spessori di materiali. Dedicata prevalentemente al taglio di sezioni interrotte (tubi, profilati, ecc.) ma anche di sezioni piene, singole o disposte a fascio di acciai fino a 1200 N/mm², acciai strutturali, acciai automatici, acciai al carbonio.

Use on cutting machines (manual or automatic), in carpentry work where you need an extremely resistant and versatile blade, able to cut the most different shapes and thicknesses of materials. Dedicated mainly to cutting interrupted sections (pipes, profiles, etc.) but also of solid, single or beam sections of steels up to 1200 N/mm², structural steels, automatic steels, carbon steels.





Dimensioni (Altezza x Spessore)	**Passo dentatura (Moduli a passo variabile in Tpi)**					
Dimensions (Width x Thickness)	***Toothing pitch (Variable pitches modules in Tpi)***					**cad /each**
mm	**3/4**	**4/6**	**5/7**	**8/11**	**12/16**	**€**
13 x 0,65				X		consultare listino
13 x 0,90				X		*see price list*
20 x 0,90			X	X		
27 x 0,90	X	X	X	X	X	
34 x 1,10	X	X	X			
41 x 1,30	X	X				

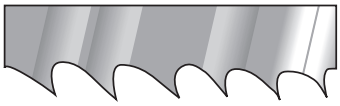
Prezzo (Al metro saldatura compresa)
Price (For meter weld included)

LAME A NASTRO BIMETALLICHE MULTIUSO - HSS AISI M42

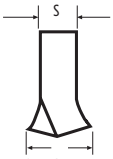
EN *Bimetal band saw blades - HSS AISI M42*
FR *Lames de scie à ruban bimetalliques - HSS AISI M42*
ESP *Hojas de sierra de cinta bimetálicas - HSS AISI M42*
PT *Lâminas de serra de fita bimetálicas - HSS AISI M42*

25010 HSS-CO 8% - M42

LAMA MULTIUSO
Multipurpose blade



Dentatura / *Teeth*
AISI M42 - 8%Co
HRC: 67/69
Strip di supporto / *Body*
HRC: 44/46



Stradatura
Tooth Set

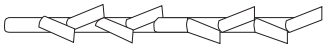


MODULI DENTATURE A PASSO VARIABILE
Variable pitch modules



Variabile
Variable

NORMALE DRITTA
Straight raker set

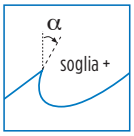


la più utilizzata
most used

MODULI DENTATURE A PASSO COSTANTE
Constant pitch modules



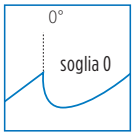
Fissa
Regular



SPOGLIA POSITIVA 8°
Positive rake 8°

Dentatura variabile
Variable tooth
(z - tpi 1,4/2÷5/8)

Dentatura costante
Regular tooth
(z - tpi 2÷6)



SPOGLIA NEUTRA
Standard straight rake

Dentatura variabile
Variable tooth
(z - tpi 6/10÷14/18)

Dentatura costante
Regular tooth
(z - tpi 8÷18)

Utilizzare su segatrici a ciclo di taglio (manuale o automatico), in tutti i generi di lavorazioni artigianali ed industriali, per il taglio di sezioni piene ed interrotte, singole o disposte a fascio, di acciai fino a 1200 N/mm2, acciai strutturali, acciai automatici, acciai al carbonio, ghise lamellari e sferoidali, metalli non ferrosi (alluminio, rame,...) materie plastiche, materiali non metallici in genere.

Use on cutting-cycle saws (manual or automatic), in all kinds of artisanal and industrial processes, for cutting solid and interrupted sections, single or arranged in bundles, of steels up to 1200 N/mm2, structural steels, automatic steels, carbon steels, lamellar and spheroidal cast irons, non-ferrous metals (aluminum, copper,...) plastics, non-metallic materials in general.



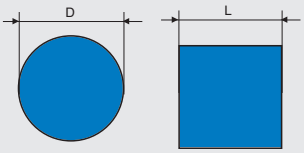


Dimensioni (Altezza x Spessore)	**Passo dentatura (Moduli a passo variabile in Tpi)**																	
Dimensions (Width x Thickness)	***Toothing pitch (Variable pitches modules in Tpi)***																	**Cad each**
mm	**2**	**3**	**4**	**6**	**8**	**10**	**14**	**18**	**1,4/2**	**2/3**	**3/4**	**4/6**	**5/8**	**6/10**	**8/12**	**10/14**	**14/18**	**€**
13 x 0,65		X	X	X		X	X	X					X	X	X	X	X	consultare
13 x 0,90		X	X	X		X	X						X	X	X	X		listino
20 x 0,90		X	X	X		X	X					X	X	X	X	X		*see price list*
27 x 0,90	X	X	X	X	X	X	X			X	X	X	X	X	X	X		
34 x 1,10										X	X	X	X	X	X			
41 x 1,30									X	X	X	X	X					

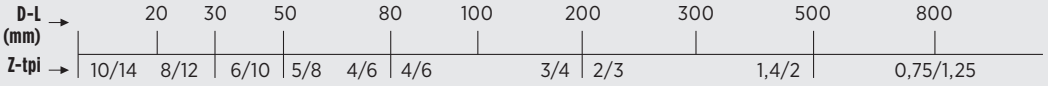
Prezzo (Al metro saldatura compresa)
Price (For meter weld included)

TABELLA PER LA SCELTA DELLA DENTATURA (PER OGNI TIPO DI LAMA)

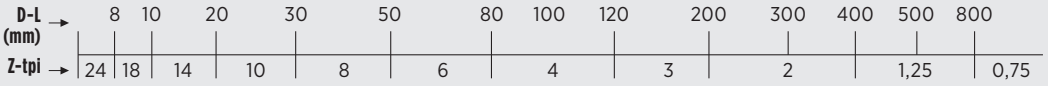
EN *Tooth selection chart*
FR *Tableau d'aide au choix des dents*
ESP *Tabla para la elecciòn del paso del diente*
PT *Tabela para a seleção de dentes*

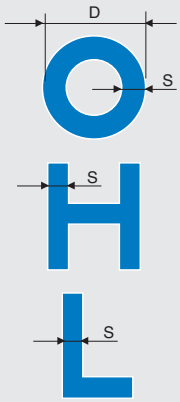


DENTATURA VARIABILE - VARIABLE TOOTH
Sezioni piene - Solid cross section



DENTATURA COSTANTE - REGULAR TOOTH
Sezioni piene - Solid cross section





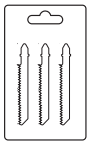
S (mm)	D (mm) 20	40	60	80	100	120	150	200	300	400	500
	Z-tpi										
< 2	14	14	10/14	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10
3	10/14	10/14	10/14	10/14	8/12	8/12	8/12	6/10	6/10	6/10	5/8
4	8/12	8/12	8/12	8/12	8/12	6/10	6/10	6/10	5/8	5/8	4/6
5	8/12	8/12	8/12	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6
6	6/10	6/10	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6	4/6
8	6/10	6/10	6/10	6/10	5/8	5/8	5/8	4/6	4/6	4/6	4/6
10		5/8	5/8	5/8	5/8	5/8	4/6	4/6	4/6	4/6	3/4
12		5/8	5/8	5/8	4/6	4/6	4/6	4/6	4/6	3/4	3/4
15		4/6	4/6	4/6	4/6	4/6	3/4	3/4	3/4	3/4	3/4
20			4/6	4/6	3/4	3/4	3/4	3/4	3/4	3/4	2/3
30				3/4	3/4	3/4	2/3	2/3	2/3	2/3	2/3
50						2/3	2/3	2/3	2/3	2/3	2/3

PARAMETRI DI TAGLIO
Cutting parameters

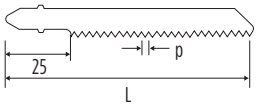
MATERIALE DA TAGLIARE *Material to cut*	**VELOCITÀ DI ROTAZIONE LAMA** *Band saw blade rotation speed m/min.*
Ferro comune, Acciai strutturali / *Iron, Structural steels*	70 ÷ 90
Acciai automatici, Acciai al carbonio / *Free-machining steels, Carbon steels*	70 ÷ 80
Acciai da bonifica / *Heat-treatable steels*	60 ÷ 70
Acciai per cuscinetti / *Ball bearing steels*	55 ÷ 65
Acciai per molle / *Spring steel*	45 ÷ 60
Acciai per stampi / *Mould steels*	25 ÷ 40
Acciai per lavorazioni a freddo / *Cold-working steels*	25 ÷ 40
Acciai per lavorazioni a caldo / *Hot-working steels*	25 ÷ 40
Acciai inossidabili e resistenti agli acidi / *Stainless and acid-resistant steels*	30 ÷ 40
Acciai inossidabili resistenti al calore / *Heat-resistant stainless steels (DUPLEX, SUPER DUPLEX...)*	25 ÷ 35
Leghe speciali a base di Nichel / *Nickel-base alloys (HASTELLOY, INCONEL...)*	15 ÷ 25
Titanio e leghe derivate / *Titanium and derivated alloys*	25 ÷ 45
Ghise lamellari e sferoidali / *Cast irons lamellar and spheroidal*	35 ÷ 55
Metalli non ferrosi quali Alluminio, Rame... / *Non ferrous metals as Aluminium, Copper...*	60 ÷ 200
Materie plastiche / *Plastics*	80 ÷ 400

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER METALLI

EN *Jig saw blades BOSCH® type for metals*
FR *Lame de scies sauteuses modèle BOSCH® pour métaux*
ESP *Hojas de sierra de calar tipo BOSCH® para metales*
PT *Lâminas de serra de recortes tipo BOSCH® para metais*

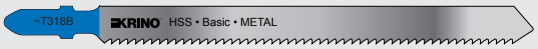
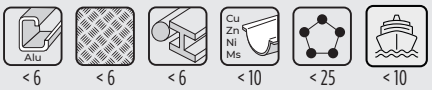
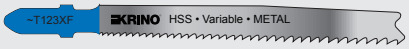
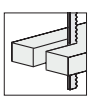
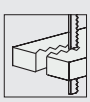
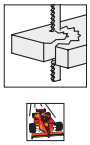


Confezione
Packaging
3 Pcs.



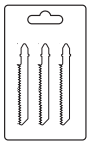
23620

METALLI
Metals

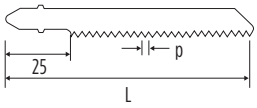
Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23620**100	≃ T118G BASIC	**76x0,8** *3x32*	HSS Fresata *Milled*		 < 1,5 < 1,5 < 1,5
 **23620**110	≃ T218A BASIC	**76x1,2** *3x21*	HSS Fresata *Milled*		 < 3 < 3 < 3
 **23620**115	≃ T318A BASIC	**132x1,2** *5x21*	HSS Fresata *Milled*		 < 65 < 3 < 3 Ø < 65 < 3 Ø < 65 < 3 Ø < 65 < 10 Ø < 65
 **23620**125	≃ T318B BASIC	**132x2** *5x12*	HSS Fresata *Milled*		 < 6 Ø < 65 < 6 < 6 Ø < 65 < 10 Ø < 50 < 25 Ø < 65 < 10
 **23620**130	≃ T318AF MULTI	**132x1,2** *5x21*	HSS Fresata *Milled*		 < 65 < 6 < 6 Ø < 65 < 6 Ø < 65 < 6 Ø < 65 < 6
 **23620**150	≃ T118BFI MULTI	**76x2** *5x12*	HSS Fresata *Milled*		 < 6 < 6 < 6 < 6 < 6 < 6
 **23620**155	≃ T318BF MULTI	**132x2** *5x12*	HSS Fresata *Milled*		 < 65 < 6 < 6 Ø < 65 < 6 Ø < 65 < 6 Ø < 65 < 15 Ø < 65 < 10
 **23620**170	≃ T123XF VARIABLE	**100x1,2÷2,6** *4x10÷21*	HSS Fresata *Milled*		 < 10 < 10 < 10 < 10 < 10
 **23620**175	≃ T118GFS INOX	**82x0,8** *3x32*	HSS Fresata *Milled*		 < 1,5
 **23620**180	≃ T127D ALU	**100x3** *4x8*	HSS Fresata *Milled*		 < 15 < 15 < 15 < 15 Ø < 30
 **23620**185	≃ T127D ALU	**100x3** *4x8*	HSS Fresata *Milled*		 < 15 < 15 < 15 < 15 Ø < 30

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ESP *Hojas de sierra de calar tipo BOSCH® para madera y derivados*
PT *Lâminas de serra de recortes tipo BOSCH® para madeira e contraplacado*

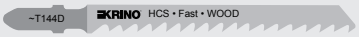
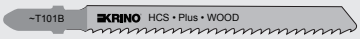


Confezione
Packaging
3 Pcs.



23600

LEGNO DOLCE
Mild wood

Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
			HCS		
23600100	≃ T119B BASIC	**76x2** *3x12*	Fresata *Milled*		< 15 < 15 < 15
			HCS		
23600105	≃ T119BO BASIC	**76x2** *3x12*	Fresata *Milled*		< 15 < 15 < 15
			HCS		
23600110	≃ T111C BASIC	**100x3** *4X8*	Fresata *Milled*		< 50 < 50 < 50 < 5 Ø < 30
			HCS		
23600130	≃ T144D FAST	**100X4** *4X6*	Rettificata *Ground*		< 50 < 50 < 50 < 5 Ø < 50
			HCS		
23600135	≃ T244D FAST	**100X4** *4X6*	Rettificata *Ground*		< 50 < 50 < 50 < 5 Ø < 50
			HCS		
23600140	≃ T344D FAST	**132X4** *5X6*	Rettificata *Ground*		< 100 < 100
			HCS		
23600150	≃ T101AO PLUS	**76X1,4** *3X18*	Rettificata *Ground*		< 15 < 15 < 15
			HCS		
23600155	≃ T101B PLUS	**100x2,5** *4x10*	Rettificata *Ground*		< 30 < 30 <30 < 5 Ø < 30
			HCS		
23600160	≃ T101BR REVERSE	**100x2,5** *4x10*	Rettificata *Ground*		< 30 < 30 <30 < 5 Ø < 30

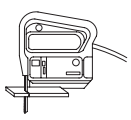
ESEMPIO DI INTERPRETAZIONE DELLA COLONNA "IMPIEGHI (MM)":
How to read the "Application (mm)" column:


< 50

Idoneo al taglio di legno stratificato dello spessore massimo di 50 mm
Suitable for cutting stratified wood – max thickness 50 mm


< 5
Ø < 50

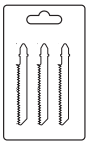
Idoneo al taglio di plastica in lastre con spessori fino a 5 mm
e profili con dimensione massima 50 mm
Suitable for cutting plastics sheet (max thickness 5 mm)
and plastics pipes / structural (max dimension 50 mm)



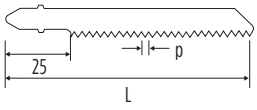
AEG, ATLAS COPCO, BOSCH,
DE WALT, ELU, FESTOOL, HITACHI,
MAKITA, METABO, HILTI, MAFELL,
MILWAUKEE, RYOBI, SKIL,...(®)

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER LEGNO

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ESP *Hojas de sierra de calar tipo BOSCH® para madera y derivados*
PT *Lâminas de serra de recortes tipo BOSCH® para madeira e contraplacado*

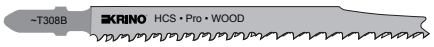
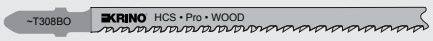
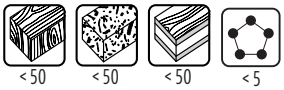


Confezione
Packaging
3 Pcs.



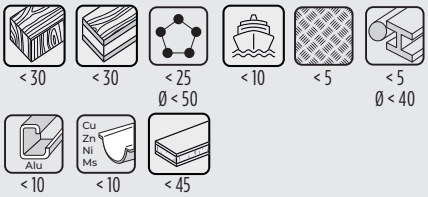
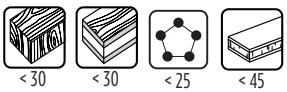
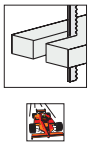
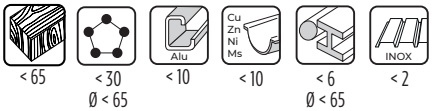
23600

LEGNO DOLCE
Mild wood

Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
					
23600170	≃ T308B PRO	**116x2,2** *4½x11*	HCS Rettificata *Ground*		 < 65 < 65 < 65
					
23600175	≃ T308B0 PRO	**116x2,2** *4½x11*	HCS Rettificata *Ground*		 < 65 < 65 < 65
					
23600180	≃ T144DP ULTRA	**100x4** *4X6*	HCS Rettificata *Ground*		 < 50 < 50 < 50 < 5 Ø < 30
					
23600190	≃ T234X VARIABLE	**116x2÷3** *4½x8÷12*	HCS Rettificata *Ground*		 < 65 < 65 < 65

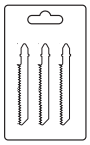
23610

LEGNO DURO
Hard wood

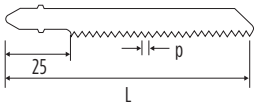
Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
					
23610105	≃ T344DF FAST	**152x4** *6X6*	HCS Rettificata *Ground*		 < 65 < 100 < 100 < 100
					
23610120	≃ T101BF PLUS	**100x2,5** *4X10*	HCS Rettificata *Ground*		 < 30 < 30 < 25 Ø < 50 < 10 < 5 < 5 Ø < 40 Alu < 10 Ø < 50 Cu Zn Ni Ms < 10 Ø < 50 < 45
					
23610125	≃ T101BRF REVERSE	**100x2,5** *4X10*	HCS Rettificata *Ground*		 < 30 < 30 < 25 Ø < 50 < 45
					
23610140	≃ T101BIF LAMINATE	**82x1,7** *3X15*	HCS Rettificata *Ground*		 < 15 < 15 < 15
					
23610150	≃ T345XF VARIABLE	**132x2,4÷5** *5X5÷10*	HCS Fresata *Milled*		 < 65 < 30 Ø < 65 Alu < 10 Cu Zn Ni Ms < 10 < 6 Ø < 65 INOX < 2

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BOSCH® PER APPLICAZIONI SPECIALI

EN *Jig saw blades BOSCH® type for special applications*
FR *Lame de scies sauteuses modèle BOSCH® pour les applications spéciales*
ESP *Hojas de sierra de calar tipo BOSCH® para aplicaciones especiales*
PT *Lâminas de serra de recortes tipo BOSCH® para aplicações especiais*



Confezione
Packaging
3 Pcs.



23630

APPLICAZIONI SPECIALI
Special applications

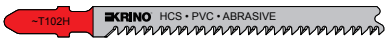
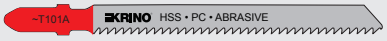
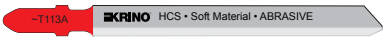
Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
					
23630090	≃ T102H PVC	**100x2,3** *4x11*	HCS Rettificata *Ground*		< 15 Ø < 30
					
23630100	≃ T101A PC	**76x1,4** *3x18*	HSS Rettificata *Ground*		< 15 < 15 < 15
					
23630130	≃ T341HM HARD PLASTIC	**132x4** *5x6*	Con inserti in MD *Carbide tip*		< 50 < 80 < 20
					
23630150	≃ T150RIFF GRIT50	**76 grana 50** *3*	Con grani in MD *Carbide grit*		< 10 < 10 < 10 < 4
					
23630160	≃ T113A SOFT	**100** *4*	HCS Rettificata *Ground*		< 50 < 10

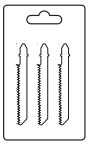
TABELLA DI COMPARAZIONE
Choosing chart

Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈**T101A**	23630100
≈**T101AO**	23600150
≈**T101B**	23600155
≈**T101BF**	23610120
≈**T101BIF**	23610140
≈**T101BR**	23600160
≈**T101BRF**	23610125
≈**T102H**	23630090
≈**T111C**	23600110
≈**T113A**	23630160
≈**T118BF**	23620150
≈**T118G**	23620100
≈**T118GFS**	23620175
≈**T119B**	23600100
≈**T119BO**	23600105
≈**T123XF**	23620170
≈**T127D**	23620180

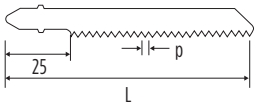
Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈**T144D**	23600130
≈**T144DP**	23600180
≈**T150RIFF**	23630150
≈**T218A**	23620110
≈**T227D**	23620185
≈**T234X**	23600190
≈**T244D**	23600135
≈**T308B**	23600170
≈**T308BO**	23600175
≈**T318A**	23620115
≈**T318AF**	23620130
≈**T318B**	23620125
≈**T318BF**	23620155
≈**T341HM**	23630130
≈**T344D**	23600140
≈**T344DF**	23610105
≈**T345XF**	23610150

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BLACK&DECKER® PER LEGNO

EN *Jig saw blades BLACK&DECKER® type for wood and plywood*
FR *Lame de scies sauteuses modèle BLACK&DECKER® pour bois et dérivés*
ESP *Hojas de sierra de calar tipo BLACK&DECKER® para madera y derivados*
PT *Lâminas de serra de recortes tipo BLACK&DECKER® para madeira e contraplacado*



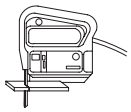
Confezione
Packaging
3 Pcs.



23710

METALLI
Metals

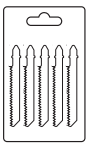
Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23710**100	≃ U118A BASIC	**76x1,2** *3x21*	HSS Fresata *Milled*		 < 3 < 3 < 3
 **23710**105	≃ U118B BASIC	**76x2** *3x12*	HSS Fresata *Milled*		 < 6 < 6 < 6
 **23710**115	≃ U127D ALU	**100x3** *4x8*	HSS Fresata *Milled*		 < 15 < 15 < 15 < 15 < 30 < 30



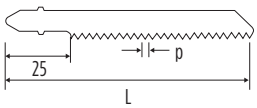
BLACK&DECKER,
KRESS, RYOBI, SKIL,...(®)

SEGHETTI BIMETAL CON ATTACCO SPECIALE SIG PER MACCHINE PNEUMATICHE ED ELETTRICHE, SPECIALI PER CARROZZERIA

EN *Compressed-air saw blades*
FR *Lame de scies a air comprimé*
ESP *Hojas de sierra de calar para maquinas pneumaticas*
PT *Lâminas de serra de ar comprimido*



Confezione
Packaging
5 Pcs.



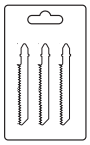
23720

METALLI
Metals

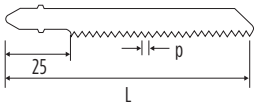
Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23720**100	≃ SIG1150	**95x1,8** *3¾x14*	BIM HSS Fresata *Milled*		
 **23720**105	≃ SIG1152	**95x1** *3¾x25*	BIM HSS Fresata *Milled*		
 **23720**110	≃ SIG1153	**95x0,7** *3¾x36*	BIM HSS Fresata *Milled*		

LAME PER SEGHETTI ALTERNATIVI CON ATTACCO BLACK&DECKER® PER LEGNO

EN *Jig saw blades BLACK&DECKER® type for wood and plywood*
FR *Lame de scies sauteuses modèle BLACK&DECKER® pour bois et dérivés*
ESP *Hojas de sierra de calar tipo BLACK&DECKER® para madera y derivados*
PT *Lâminas de serra de recortes tipo BLACK&DECKER® para madeira e contraplacado*

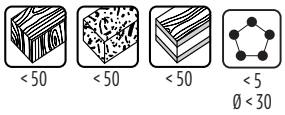
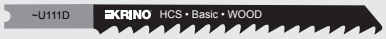
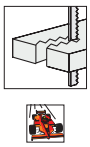
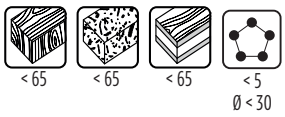
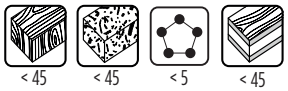
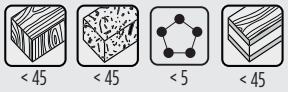
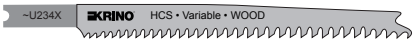


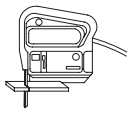
Confezione
Packaging
3 Pcs.



23700

LEGNO DOLCE
Mild wood

Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23700**100	≃ U111C BASIC	**100x3** *4x8*	HCS Fresata *Milled*		 < 50 < 50 < 50 < 5 Ø < 30
 **23700**105	≃ U111D BASIC	**100x4** *4x6*	HCS Fresata *Milled*		 < 65 < 65 < 65 < 5 Ø < 50
 **23700**110	≃ U144D FAST	**100x4** *4x6*	HCS Rettificata *Ground*		 < 65 < 65 < 65 < 5 Ø < 30
 **23700**115	≃ U1AO PLUS	**76x1,4** *3x18*	HCS Rettificata *Ground*		 < 15 < 15 < 15 < 15
 **23700**120	≃ U101B PLUS	**100x2,5** *4x10*	HCS Rettificata *Ground*		 < 45 < 45 < 5 < 45
 **23700**125	≃ U101D PLUS	**100x4** *4x6*	HCS Rettificata *Ground*		 < 45 < 45 < 5 < 45
 **23700**130	≃ U234X VARIABLE	**106x2÷3** *4x8÷12*	HCS Rettificata *Ground*		 < 65 < 65 < 65



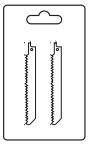
BLACK&DECKER,
KRESS, RYOBI, SKIL,...(®)

TABELLA DI COMPARAZIONE
Choosing chart

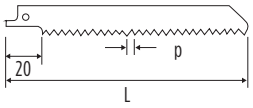
Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈**U101B**	23700120
≈**U101D**	23700125
≈**U111C**	23700100
≈**U111D**	23700105
≈**U118A**	23710100
≈**U118B**	23710105
≈**U127D**	23710115
≈**U144D**	23700110
≈**U1AO**	23700115
≈**U234X**	23700130

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER METALLO

EN *Reciprocating blades SABRE® universal type for metals*
FR *Lame de scies sauteuses modèle universelle SABRE® pour métaux*
ESP *Hojas de sierra de calar tipo universale SABRE® para metales*
PT *Lâminas recíprocas SABRE® tipo universal para metais*

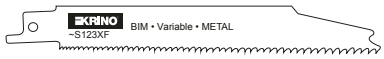
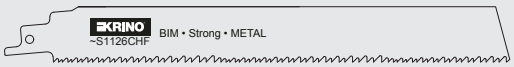
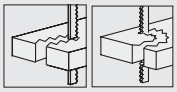
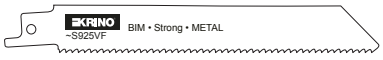
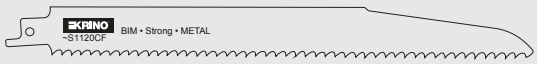


Confezione
Packaging
2 Pcs.



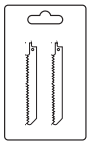
23810

METALLI
Metals

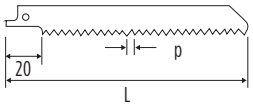
Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23810**100	≃ S922EF	**150x1,4** *6x18*	BIM HSS  Fresata *Milled* 		 < 4 < 4 Ø < 100 Ø < 100
 **23810**110	≃ S1122BF	**230x1,8** *9x14*	BIM HSS  Fresata *Milled* 	 	 < 8 < 8 Ø < 175 Ø < 175
 **23810**120	≃ S123XF	**150x1,8÷3,2** *6x8÷14*	BIM HSS  Fresata *Milled* 	 	 < 8 < 8 Ø < 100 Ø < 100
 **23810**150	≃ S1126CHF	**230x2,5÷3,2** *9x8÷10*	BIM HSS  Fresata *Milled* 		 < 12 < 12 Ø < 250 Ø < 250
 **23810**160	≃ S925VF EXTREME	**150x1,8÷2,6** *6x10÷14*	BIM HSS  Fresata *Milled* 		 < 10 < 10 Ø < 150 Ø < 150
 **23810**170	≃ S1120CF EXTREME	**230x2,5÷3,2** *9x8÷10*	BIM HSS  Fresata *Milled* 	 	 < 12 < 12 Ø < 175 Ø < 175
 **23810**175	≃ S936BEF	**150x1,4÷1,8** *6x14÷18*	BIM HSS  Fresata *Milled* 		 < 8 < 8 Ø < 100 Ø < 100
23810180	≃ S1136BEF	**230x1,4÷1,8** *9x14÷18*	BIM HSS Fresata *Milled*		< 8 < 8 Ø < 175 Ø < 175
23810190	≃ S522BF	Ideale con macchine compatte cordless *Suitable for compact cordless machines* **100x1,8** *4x14*	BIM HSS Fresata *Milled*		< 8

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER LEGNO E METALLO

EN *Reciprocating blades SABRE® universal type for wood and metals*
FR *Lame de scies sauteuses modèle universelle SABRE® pour bois et metaux*
ESP *Hojas de sierra de calar tipo universale SABRE® para madera y metales*
PT *Lâminas recíprocas SABRE® tipo universal para madeira e metais*

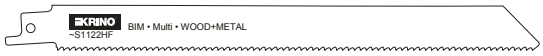
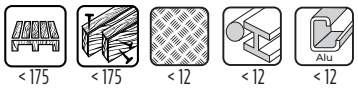
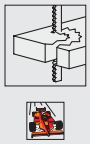
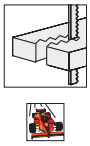
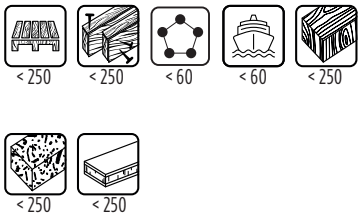
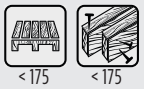
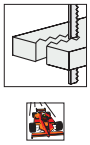


Confezione
Packaging
2 Pcs.



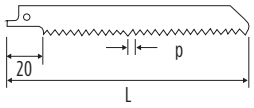
23815

LEGNO E METALLI
Wood and Metals

Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23815**100	≃ S1122HF	**230x2,5** *9x10*	BIM HSS  Fresata *Milled*		
 **23815**110	≃ S711DF	**150x4,3** *6x6*	BIM HSS  Fresata *Milled*		
 **23815**115	≃ S1411DF	**300x4,3** *12x6*	BIM HSS  Fresata *Milled*		
 **23815**130	≃ S1122VFR NO VIBRATIONS	**230x1,8÷2,6** *9x10÷14*	BIM HSS  Fresata *Milled*		
 **23815**150	≃ S511DF Ideale con macchine compatte cordless *Suitable for compact cordless machines*	**100x4,3** *4x6*	BIM HSS  Fresata *Milled*		

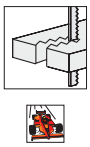
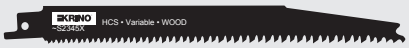
LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER LEGNO

EN *Reciprocating blades SABRE® universal type for wood and plywood*
FR *Lame de scies sauteuses modèle universelle SABRE® pour bois et dérivés*
ESP *Hojas de sierra de calar tipo universale SABRE® para madera y derivados*
PT *Lâminas recíprocas SABRE® tipo universal para madeira e contraplacado*



23800

LEGNO DOLCE
Mild wood

Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23800**100	≃ S1617K	**300x8,5** *12x3*	HCS  Fresata *Milled*		 < 250 < 250
 **23800**105	≃ S2345X	**200x2,5÷4,3** *8x6÷10*	HCS  Fresata *Milled*		 < 150 < 60 < 150
 **23800**110	≃ S644D	**150x4,3** *6x6*	HCS  Fresata *Milled*		 < 100 < 60 < 100
 **23800**115	≃ S1531L	**240x5** *10x5*	HCS  Fresata *Milled*		 < 190 < 190

Confezione
Packaging
2 Pcs.




Codolo universale 1/2"
Universal shank 1/2"


AEG, ATLAS COPCO, BOSCH, DE WALT, ELU, FESTOOL, HITACHI, MAKITA, METABO, FEIN, FLEX, HILTI, MILWAUKEE, PORTER CABLE, RIDGID, ROTHEN BERGER, RYOBI SKIL,...(®)

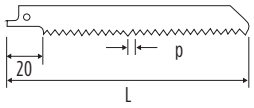
TABELLA DI COMPARAZIONE
Choosing chart

Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈**S1120CF**	23810170
≈**S1122BF**	23810110
≈**S1122HF**	23815100
≈**S1122VFR**	23815130
≈**S1126CHF**	23810150
≈**S1136BEF**	23810180
≈**S123XF**	23810120
≈**S1411DF**	23815115
≈**S1531L**	23800115
≈**S1617K**	23800100
≈**S2041HM**	23820120

Codice Bosch *Bosch code*	Codice Krino *Krino code*
≈**S2243HM**	23820130
≈**S2345X**	23800105
≈**S511DF**	23815150
≈**S522BF**	23810190
≈**S528DF**	23820160
≈**S628DF**	23820100
≈**S644D**	23800110
≈**S711DF**	23815110
≈**S922EF**	23810100
≈**S925VF**	23810160
≈**S936BEF**	23810175

LAME PER SEGHETTI A GATTUCCIO CON ATTACCO UNIVERSALE SABRE® PER LEGNO

EN *Reciprocating blades SABRE® universal type for wood and plywood*
FR *Lame de scies sauteuses modèle universelle SABRE® pour bois et dérivés*
ESP *Hojas de sierra de calar tipo universale SABRE® para madera y derivados*
PT *Lâminas recíprocas SABRE® tipo universal para madeira e contraplacado*



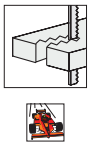
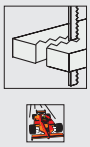
23820

APPLICAZIONI SPECIALI
Special applications

Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23820**100	≃ S628DF	**150x4,3** *6x6*	BIM HSS  Fresata *Milled*		 < 100
 **23820**125	≃ S1543HM	**Carbide 240x12,7** *10x2*	 Con inserti in MD *Carbide tip*		 < 150
 **23820**160	≃ S528DF	Ideale con macchine compatte cordless *Suitable for compact cordless machines* **100x4,3** *4x6*	BIM HSS  Fresata *Milled*		 < 50

Confezione
Packaging
2 Pcs.



Cod.	simile a *similar to*	Lxp mm *inches x tpi*	acciaio *steel*	tipo di taglio finitura *Type of cut-Finish*	impieghi *applications*
 **23820**120	≃ S2041HM	**Carbide 400x8,5** *16x3*	 Con inserti in MD *Carbide tip*		 < 350 < 350 < 150
 **23820**130	≃ S1531L EXTREME	**Carbide 455x12,7** *18x2*	 Con inserti in MD *Carbide tip*		 < 365

Confezione
Packaging
1 Pc.



LAMA A MANO PER IL TAGLIO DI TUTTI I METALLI

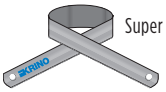
EN *Hack saw blades for metal cutting*
FR *Lames de scies à main pour métaux*
ESP *Hojas de sierra a mano*
PT *Lâminas de serra para corte de metais*

23001

BIMETAL HSS-C08% SUPERFLEX ~UNI 4000




HRC 66÷67
HRC 40÷42


Super Flex



Inox
Stainless


Acciaio
Steel



Alluminio
Aluminum


Metalli
Metals


Confezione
Packaging

cod.	Dimensioni *Sizes*	Z n. denti *T.p.i.*	pcs.	cad/each €
23001101	**300x13x0,65** 12”x1/2x0,025	18	100	consultare listino *see price list*
23001100	**300x13x0,65** 12”x1/2x0,025	24	100	
23001102	**300x13x0,65** 12”x1/2x0,025	32	100	

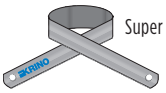
CARATTERISTICHE:
Lama di grandissima qualità con una durezza sui denti di circa 67 gradi Rockwell C, notevolmente superiore ad una lama tradizionale.
Il corpo, più dolce, garantisce una perfetta flessibilità, pur mantenendo una buona rigidità torsionale, per un lavoro preciso e sicuro.
Queste caratteristiche permettono un taglio ineguagliabile per dolcezza, rendimento, precisione e durata negli acciai inox, acciai duri legati, acciai da costruzione, leghe leggere, tutti i metalli, etc.

Features:
High performances, safe and smooth cut in stainless steel, high alloy steel, structural steel, light alloys, metals.

HSS-BIMETAL ~UNI 4000




HRC 64
HRC 38÷40


Super Flex



Inox
Stainless


Acciaio
Steel



Alluminio
Aluminum


Metalli
Metals


Confezione
Packaging

cod.	Dimensioni *Sizes*	Z n. denti *T.p.i.*	pcs.	cad/each €
23001110	**300x13x0,65** 12”x1/2x0,025	18	100	consultare listino *see price list*
23001120	**300x13x0,65** 12”x1/2x0,025	24	100	
23001130	**300x13x0,65** 12”x1/2x0,025	32	100	

CARATTERISTICHE:
Lama superflessibile professionale per il taglio degli acciai duri, dolci, tutti i metalli.
Features:
Shatterproof blades for cutting iron, alloy steel, light alloys, any kind of metal.

HSS ~UNI 4000




HRC 64


SELF ART. 21141
Su richiesta / *On demand*


Acciaio
Steel



Alluminio
Aluminum


Metalli
Metals


Confezione
Packaging

cod.	Dimensioni *Sizes*	Z n. denti *T.p.i.*	pcs.	cad/each €
23001150	**300x13x0,65** 12”x1/2x0,025	18	100	consultare listino *see price list*

CARATTERISTICHE:
Lama professionale HSS a tempra integrale per un taglio preciso ad alto rendimento in tutti gli acciai duri, acciai in genere, leghe leggere, metalli.
Features:
All hard HSS hack saw blades.

HIGH CARBON FLEXIBLE ~UNI 4000




HRC 60



Alluminio
Aluminum


Metalli
Metals


Confezione
Packaging

cod.	Dimensioni *Sizes*	Z n. denti *T.p.i.*	pcs.	cad/each €
23001160	**300x13x0,65** 12”x1/2x0,025	18	100	consultare listino *see price list*

CARATTERISTICHE:
Lama in acciaio da utensile per il taglio occasionale e non professionale di materiali dolci.
Features:
Carbon flexible hack saw blades for occasional usage.

LAMA A MANO RIVESTITA IN GRANI DI CARBURO DI TUNGSTENO PER IL TAGLIO DEI MATERIALI PIÙ DURI ED ABRASIVI

EN *Carbide grit-edge hack saw blades*
FR *Lame de scies au carbure de tungstène*
ESP *Hojas de sierra de metal duro*
PT *Lâminas de serra de metal duro*

23010









SELF ART. 23011
Su richiesta / *On demand*

Confezione
Packaging

cod.	Dimensioni *Sizes*	pcs.	cad/each €
23010060	**300x13x0,65** 12"x1/2x0,025	10	consultare listino *see price list*

CARATTERISTICHE:
Le particelle di carburo di tungsteno sono metallurgicamente e permanentemente legate al corpo in acciaio e permettono il taglio di materiali duri che una normale lama non può neanche scalfire.

Taglio piano e dolce, in entrambe le direzioni in: bulloni, catene, acciai duri trattatati in barre o tubi, ceramica, marmo, granito, gres, fibra di cemento, fibra di vetro, cristallo.

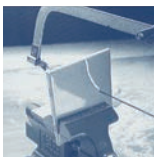
Features:
Carbide grit particles permanently bounded to alloy steel, designed to cut materials that a standard won't even scratch. Straight cuts in hardened steel, such as chain and bolts, as well as ceramic tile, stranded cable, hydraulic hose and glass.

LAME IN FILO TONDO IN CARBURO DI TUNGSTENO PER TAGLI IN QUALSIASI DIREZIONE

EN *Carbide grit-edge rod saws*
FR *Lame-fil de carbure de tungstène*
ESP *Cordones de metal duro*
PT *Serras de veio com ponta de metal duro*

23005







SELF ART. 23006
Su richiesta / *On demand*

Confezione
Packaging

cod.	Dimensioni *Sizes*	pcs.	cad/each €
23005050	**300** 12"	10	consultare listino *see price list*

CARATTERISTICHE:
Le particelle di carburo di tungsteno sono permanentemente legate al corpo di acciaio e permettono un taglio piano o curvo in tutte le direzioni, anche nelle posizioni inaccessibili ad altri utensili.
Taglia in modo dolce e progressivo:

- Acciaio inox e acciai duri trattati, tutti gli acciai in genere.
- Bulloni, catene temperate, cavi di trazione
- Ceramica, marmo, granito, gres, fibra di cemento
- Vetro e cristallo

Sostituisce il tagliabulloni, le mole abrasive ed il taglio all'acetilene per molte operazioni!

Features:
Carbide grit particles permanently bounded to alloy steel, designed to cut materials that a standard won't even scratch. Straight cuts in hardened steel, such as chain and bolts, as well as ceramic tile, stranded cable, hydraulic hose and glass.

LAMA A MANO PER SEGHETTI TIPO "PUK®"

EN *Hack saw blades type "PUK®"*
FR *Lame de scie à main type "PUK®"*
ESP *Hoja de sierra de cinta tipo "PUK®"*
PT *Lâminas de serra de corte do tipo "PUK®"*

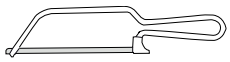
23012



HCS

Confezione
Packaging

cod.	Dimensioni *Sizes*	Z n. denti *T.p.i.*	pcs.	cad/each €
23012100	**150** 6"	24	10	consultare listino *see price list*



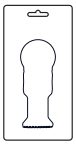
SELF ART. 23012
Su richiesta / *On demand*

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

EN *Accessories for multi-function oscillating tools*
FR *Accessoires pour outils oscillants multifonctions*
ESP *Accesorios para herramientas oscilantes multifunción*
PT *Acessórios para multi-funções ferramentas oscilantes*

23305 ATTACCO STARLOCK®

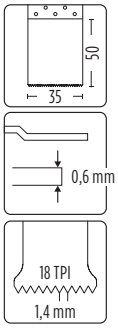
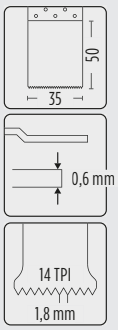
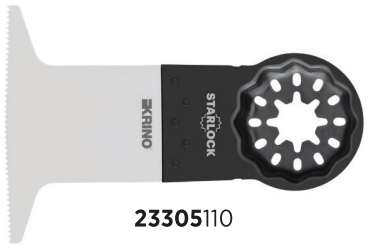
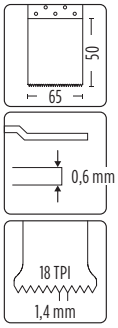
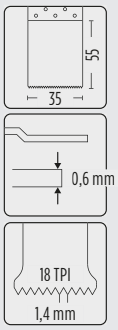
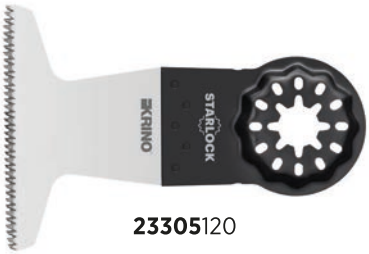
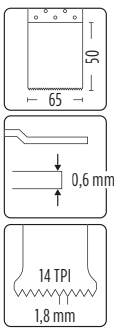
Starlock® tools



Confezione
Packaging
1 Pc.

STARLOCK MADE IN GERMANY

LEGNO
Wood

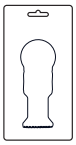
Cod.	Simile a Fein *Similar to Fein*	materiale *material*	dimensioni *dimensions*	caratteristiche *features*	impieghi *applications*
 **23305**100	6 35 02 **133**	HCS		**UNIVERSAL**	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23305**105	6 35 02 **126**	HCS		 **HI SPEED** doppia fila di denti *double thooth rows*  **PRECISION**	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23305**110	6 35 02 **225**	HCS		**CURVED BLADE**	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23305**115 **2330511505** confezione da 5 pcs. *Pack of 5 pcs.*	6 35 02 **227**	HCS		**CURVED BLADE**	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23305**120 **2330512005** confezione da 5 pcs. *Pack of 5 pcs.*	6 35 02 **230**	HCS		 **HI SPEED** doppia fila di denti *double thooth rows*  **PRECISION**	 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Soft wood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

EN *Accessories for multi-function oscillating tools*
FR *Accessoires pour outils oscillants multifonctions*
ESP *Accesorios para herramientas oscilantes multifunción*
PT *Acessórios para multi-funções ferramentas oscilantes*

23310 ATTACCO STARLOCK®

Starlock® tools

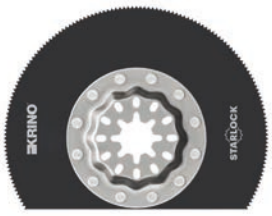
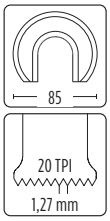
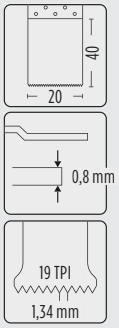
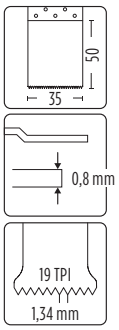
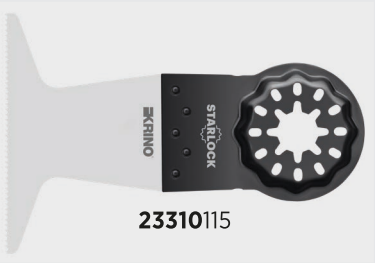
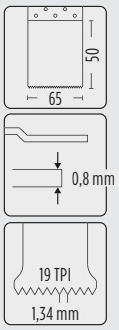
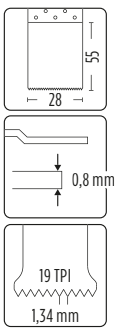


Confezione
Packaging
1 Pc.

STARLOCK MADE IN GERMANY

LEGNO E METALLI

Wood and metals

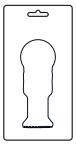
Cod.	Simile a Fein *Similar to Fein*	materiale *material*	dimensioni *dimensions*	caratteristiche *features*	impieghi *applications*
 **23310**100	6 35 02 **106**	HSS		LONG LIFE	Legno con chiodi, legno duro, cartongesso, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). *Wood with nails, hardwood, plasterboard, epoxy plastic, insulating sandwiches (eg door frame cuts, paneled cuts, non-ferrous pipe cuts and small profiles).*
 **23310**105	6 35 02 **183**	BIM		LONG LIFE	Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. *Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*
 **23310**110 **2331011005** confezione da 5 pcs. *Pack of 5 pcs.*	6 35 02 **160**	BIM		LONG LIFE	Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. *Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*
 **23310**115	6 35 02 **228**	BIM		LONG LIFE	Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. *Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*
 **23310**120 **2331012005** confezione da 5 pcs. *Pack of 5 pcs.*	6 35 02 **222**	BIM		LONG LIFE	Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. *Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

EN *Accessories for multi-function oscillating tools*
FR *Accessoires pour outils oscillants multifonctions*
ESP *Accesorios para herramientas oscilantes multifunción*
PT *Acessórios para multi-funções ferramentas oscilantes*

23310 ATTACCO STARLOCK®

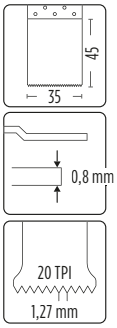
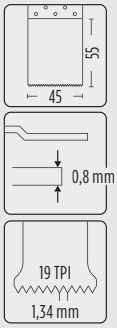
Starlock® tools



Confezione
Packaging
1 Pc.

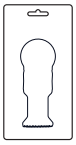
STARLOCK MADE IN GERMANY

LEGNO E METALLI
Wood and metals

Cod.	Simile a Fein *Similar to Fein*	materiale *material*	dimensioni *dimensions*	caratteristiche *features*	impieghi *applications*
 **23310**125	6 35 02 **236**	CARBIDE PRO + TiN		EXTRA LONG LIFE	 Legno con chiodi, metallo con HRC 40÷50, acciaio inox, polimeri rinforzati con fibre. *Wood with nails, metal with HRC 40÷50, stainless steel, polymers reinforced with fibers.*
 **23310**130	6 35 02 **223**	BIM		LONG LIFE	 Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). Parquet, plywood s <20 mm, epoxy plastic. *Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*

23315 ATTACCO STARLOCK®

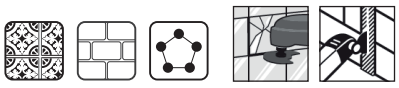
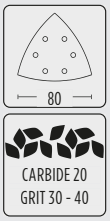
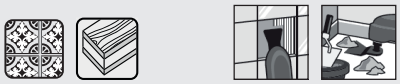
Starlock® tools



Confezione
Packaging
1 Pc.

STARLOCK MADE IN GERMANY

PIETRA E STUCCO
Stone e grout

Cod.	Simile a Fein *Similar to Fein*	materiale *material*	dimensioni *dimensions*	caratteristiche *features*	impieghi *applications*
 **23315**100	6 35 02 **125**	TC		EXTRA LONG LIFE	 Mattoni e cemento, piastrelle, plastica epossidica (es. rimuovere fughe tra piastrelle, tagliare cavità in piastrelle, pannelli di gesso o plastiche rinforzate). *Bricks and cement, tiles, epoxy plastics (eg removing joints between tiles, cutting tile cavities, gypsum boards or reinforced plastics).*
 **23315**115	6 35 02 **001**	TC		LONG LIFE	 Malta, residui di calcestruzzo, legno, materiali abrasivi (es. rimozione di malta o colla per piastrelle, rimozione di residui di colla per moquette). *Mortar, residues of concrete, wood, abrasive materials (eg removal of mortar or tile adhesive, removal of residues of glue for carpet).*

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

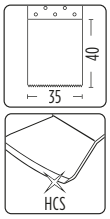
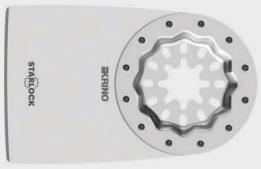
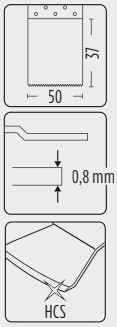
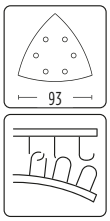
EN *Accessories for multi-function oscillating tools*
FR *Accessoires pour outils oscillants multifonctions*
ESP *Accesorios para herramientas oscilantes multifunción*
PT *Acessórios para multi-funções ferramentas oscilantes*

Confezione
Packaging
1 Pc.

STARLOCK MADE IN GERMANY

COLLE E SILICONI
Adhesives and silicones

23300 ATTACCO STARLOCK®
Starlock® tools

Cod.	Simile a Fein *Similar to Fein*	materiale *material*	dimensioni *dimensions*	caratteristiche *features*	impieghi *applications*
 **23300**100	6 35 02 **251**	MULTILAMA *Multiknife*		EXTRA LONG LIFE	 Moquette, tappeti, carta catramata, prato sintetico, cartone, tutti i materiali teneri e abrasivi flessibili. *Carpet, tar paper, synthetic grass, cardboard, all soft materials and flexible abrasives.*
 **23300**105	6 35 02 **226**	RASCHIETTO *Rigid scaper*			 Moquette, malta, calcestruzzo, colla per piastrelle. *Carpet, mortar, concrete, tile adhesive*
 **23300**110	6 35 02 **129**	PLATORELLO PER CARTE ABRASIVE SANDING *Plate for delta sanding paper*			 Levigatura di superfici piane sui bordi, negli angoli o in settori difficilmente accessibili (es. levigare legno, pittura, vernice, pietra, disossidare metalli, asportare vernici). *Sanding flat surfaces on edges, corners or in sectors that are difficult to access (eg sanding wood, painting, varnish, stone, deoxidising metals, removing varnishes).*

CARTE ABRASIVE PER LEGNO/VERNICI
Abrasive paper for wood/paint




Art. 23529026

20 pcs

CARTE ABRASIVE PER LEGNO/METALLO
Abrasive paper for wood/metal




Art. 23529027

20 pcs

KIT PER PIASTRELLE
Tile set



Art. 23330100

4 pcs
23415099
23315114
23300104
23310104

KIT PER PAVIMENTI E INSTALLAZIONI
Flooring set



Art. 23330101

4 pcs
23310099
23300104
23305099
23305114

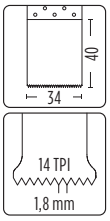
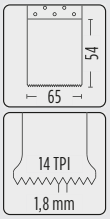
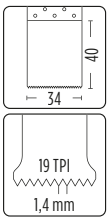
ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

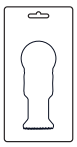
EN *Accessories for multi-function oscillating tools*
FR *Accessoires pour outils oscillants multifonctions*
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PT *Acessórios para multi-funções ferramentas oscilantes*

23505 ATTACCO UNVERSALE QUICK CHANGE

Universal QUICK CHANGE

LEGNO
Wood

Cod.	Rif. Bosch *Bosch ref.*	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23505**105	≈ AIZ32BSPC	HCS		 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Softwood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23505**110	≈ AII65BSPC	HCS		 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Softwood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*
 **23505**115	≈ AIZ32EPC	HCS		 Legno dolce, multistrato, plastica (es. taglio dal centro in legno massivo per montaggio di una griglia di aerazione). *Softwood, plywood, plastic (eg center cut in massive wood for mounting an aeration grid).*



Confezione
Packaging
1 Pc.

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

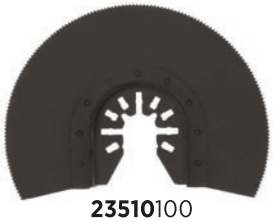
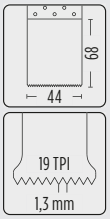
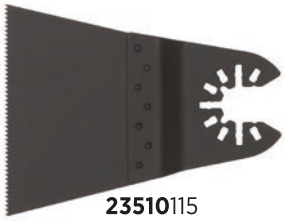
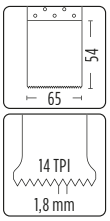
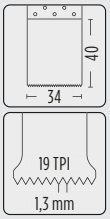
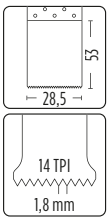
EN *Accessories for multi-function oscillating tools*
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PT *Acessórios para multi-funções ferramentas oscilantes*

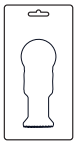
23510 ATTACCO UNVERSALE QUICK CHANGE

Universal QUICK CHANGE

LEGNO, METALLO, PLASTICHE

Wood, metal, plastics

Cod.	Rif. Bosch *Bosch ref.*	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23510**100	≈ ACZ85EB	BIM		Parquet, multistrato s<20 mm, plastica epossidica. Tagli troncati e tagli dal centro, anche per tagli vicino ai bordi, negli angoli e in settori difficilmente accessibili (es. tagli di zoccolini già montati oppure telai delle porte). *Parquet, multilayer s <20 mm, epoxy plastic. Truncated cuts and cuts from the center, also for cuts near the edges, in the corners and in sectors that are difficult to access (eg cuts of assembled skirting boards or door frames).*
 **23510**105	≈ AIZ20AB	BIM		Legno con chiodi, legno duro, cartongesso, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). *Wood with nails, hardwood, plasterboard, epoxy plastics, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).*
 **23510**115	≈ AII65APB	HCS		Legno dolce, plastica. *Soft wood, plastics.*
 **23510**120	≈ AIZ32AB	BIM		Legno con chiodi, legno duro, cartongesso, plastica epossidica, sandwich isolanti (es. tagli di telai di porte, tagli in pannelli rivestiti, tagli di tubi in materiale non ferroso e profili di piccole dimensioni). *Wood with nails, hardwood, plasterboard, epoxy plastics, insulating sandwiches (eg cuts of door frames, cuts in coated panels, pipe cuts in non-ferrous material and small profiles).*
 **23510**125	≈ AIZ32BSPB	BIM		Legno duro, multistrato, plastica. *Hardwood, multilayer, plastic.*



Confezione
Packaging
1 Pc.

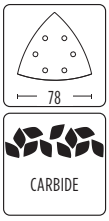
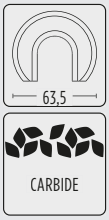
ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

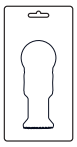
EN *Accessories for multi-function oscillating tools*
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23515 ATTACCO UNVERSALE QUICK CHANGE

Universal QUICK CHANGE

MATERIALI ABRASIVI
Abrasives

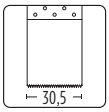
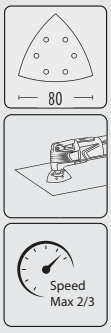
Cod.	Rif. Bosch *Bosch ref.*	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23515**100	≈ ACZ85RT3	TC/HM		 Mattoni e cemento, piastrelle, plastica epossidica (es. rimuovere fughe tra piastrelle, tagliare cavità in piastrelle, pannelli di gesso o plastiche rinforzate). *Bricks and cement, tiles, epoxy plastics (eg to remove joints between tiles, cut tile cavities, gypsum boards or reinforced plastics).*
 **23515**105	≈ AVZ70RT4	TC/HM		 Mattoni e cemento, piastrelle, plastica epossidica (es. rimozione di colla per piastrelle e malta per fughe, raspatura e levigatura di superfici dure). *Bricks and cement, tiles, epoxy plastics (eg tile glue and grout removal, buffing and sanding of hard surfaces).*

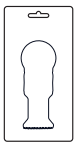

Confezione
Packaging
1 Pc.

23500 ATTACCO UNVERSALE QUICK CHANGE

Universal QUICK CHANGE

MULTIMATERIALE
Multimaterial

Cod.	Rif. Bosch *Bosch ref.*	materiale *material*	dimensioni *dimensions*	impieghi *applications*
 **23500**105	≈ ATZ52SC	HCS RASCHIETTO *Rigid scraper*		 Moquette, malta, calcestruzzo, colla per piastrelle. *Carpet, mortar, concrete, tile adhesive.*
 **23500**110	≈ AVZ93G	PLATORELLO PER CARTE ABRASIVE *Sanding Plate for delta sanding paper*		Levigatura di superfici piane sui bordi, negli angoli o in settori difficilmente accessibili (es. levigare legno, pittura, vernice, pietra, disossidare metalli, asportare vernici). *Smoothing flat surfaces on edges, in corners or in sectors that are difficult to access (eg sanding wood, painting, varnish, stone, deoxidising metals, removing painting).*


Confezione
Packaging
1 Pc.

ACCESSORI PER UTENSILI MULTIFUNZIONE AD OSCILLAZIONE

EN *Accessories for multi-function oscillating tools*
FR *Accessoires pour outils oscillants multifonctions*
ESP *Accesorios para herramientas oscilantes multifunción*
PT *Acessórios para multi-funções ferramentas oscilantes*

23529 ATTACCO UNVERSALE QUICK CHANGE

Universal QUICK CHANGE

CARTE ABRASIVE PER LEGNO/VERNICI

Abrasive paper for wood/paint





Art. 23529020

20 pcs

CARTE ABRASIVE PER LEGNO/METALLO

Abrasive paper for wood/metal





Art. 23529025

20 pcs

ADATTATORE PER MACCHINE DREMEL®

Adapter to fit Dremel® machine



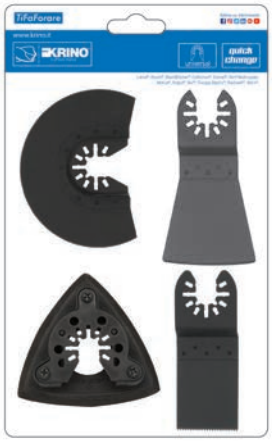
Art. 23529010

ADATTATORE PER MACCHINE BOSCH® (NON STARLOCK®)

Adapter to fit Bosch® (non Starlock®) machine



Art. 23529015



Art. 23530100

4 pcs
23505115
23500105
23510100
23500110



Art. 23530101

7 pcs
23510115
23505115
23510120
23500105 Inox
23515105
23510100 HCS
23500110





UTENSILI PER EDILIZIA

Construction tools
Outils pour bâtiment
Utensilios para construcción
Ferramentas de construção

VISIONE D'INSIEME: PUNTE PER MURO CON CODOLO CILINDRICO

EN *Overview: Masonry drills with Straight shank*
FR *Aperçu: Forets de maçonnerie à tige droite*
ESP *Visión general: broca para hormigon con vástago recto*
PT *Visão geral: brocas para alvenaria com veio reto*

APPLICAZIONE *Application*	DESCRIZIONE *Description*	IMMAGINE *Image*	ATTACCO *Shank*	N° TAGLIENTI *N° of cutting edges*	N° ELICHE *Helix*	TIPOLOGIA DI FORATURA *Type of drilling*
SPECIALI GRES PORCELLANATO E MATERIALI EDILI DURISSIMI *Special for porcelain and very hard construction materials*	GRESMASTER			MULTI	2	
	GRES+			2	2	
MATERIALI EDILI *Construction materials*	EXPLOSION		 3 FLATS	2	2	
	K-MAX4®			4	4	
	SDD			2	2	
	SUPERIOR			2	2	
	STANDARD			2	2	
UNIVERSALI, FORATUTTO *universal, all purpose*	MULTI-K®			2	2	 Metallo, Ceramica *metals, ceramics*
			 HEX 1/4"	2	2	 Metallo, Ceramica *metals, ceramics*
VETRO E CERAMICA *Glass and tile*	PER VETRO E CERAMICA 4 TAGLIENTI *Glass and tile 4 edges*		 HEX 1/4"	4	0	
	PER VETRO E CERAMICA 2 TAGLIENTI *Glass and tile 2 edges*			2	0	

MATTONI *Brick*	CALCESTRUZZO *Concrete*	CALCESTRUZZO ARMATO *Reinforced Concrete*	GRANITO *Granite*	PIETRE NATURALI ED ARTIFICIALI *Natural and artificial stones*	CERAMICA *Ceramics*	GRÈS PORCELLANATO *Porcelain stoneware*	MARMO *Marble*	VETRO *Glass*	METALLO *Metal*	LEGNO *Wood*	PLASTICA *Plastic*	SERIE CORTA *Short serie* DIN 8039	SERIE LUNGA *Long serie* 150 ÷ 250 mm	SERIE LUNGA *Long serie* 300 ÷ 400 mm	SERIE LUNGA *Long serie* 600 mm
				●	●	●	○					COD. **03043**			
												p.477			
○			●	●	●	●	●					COD. **03042**			
												p.479			
●	●	○	●	●			●					COD. **03109**			
												p.481			
●	●	●	○	●			●					COD. **03072**			
												p.482			
●	●		○	●	○		●					COD. **03069**			
												p.483			
●	●			●			●					COD. **03060**	03063	03065	03067
												p.484	p.484	p.485	p.485
●												COD. **03001**	03005	03009 03011	03015
												p.486	p.486	p.486 p.487	p.487
●	○		○	●	●	○	●		●	●	●	COD. **03076**			
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●	○		○	●	●	○	●		●	●	●	COD. **03077**			
												p.489			
					●	○		●				COD. **03141**			
												p.490			
					●	○		●				COD. **03140**			
												p.490			

GRESMASTER



01 LA PRATICITÀ DI UNA PUNTA, LA FORZA DEL METALLO DURO

La punta elicoidale Gresmaster è caratterizzata dalla testa in MD integrale elettrosaldata che, grazie all'affilatura asimmetrica e multi-faccia, garantisce un'elevata efficacia e durata dell'utensile.

02 FORI PERFETTI

Grazie al differente angolo di spoglia di ciascun tagliente, Gresmaster assicura una più eterogenea lavorazione della superficie rifinendo il foro che risulta perfettamente tondo e liscio.

03 FORATURA A SECCO

Gresmaster - a differenza di quanto avviene solitamente nel taglio di materiali duri - ha una maggiore efficacia quando utilizzata a secco. Utilizzando il corretto numero di giri, anche in assenza di refrigerazione, è l'ideale per professionisti che necessitano di utensili pratici e duraturi.

04 FACILE CENTRAGGIO

La foratura risulta semplice grazie al tagliente in MD che incide subito anche le superfici molto dure, evitando lo scivolamento laterale della punta.

05 IDEALE PER TRAPANI PORTATILI

Gresmaster è perfetta per l'utilizzo con trapani avvitatori in qualsiasi condizione e non necessita di particolari accorgimenti. Da utilizzare a sola rotazione (anche a velocità di rotazione ridotte) avendo cura di disattivare la percussione dell'elettroutensile.

EN ***The practicality of a drill bit, the power of carbide***
The GRESMASTER drill bit has an asimmetrical sharpening full MD head who garantees high efficiency and durability of the drill bit.

Perfect holes
Due to the different angle of each cutting edge, Gresmaster provides a more heterogeneous surface processing. The result is a perfectly round and smooth hole.

Dry drilling
Gresmaster - unlike what is usually done when cutting such hard materials - is more effective when used dry. Using the correct RPM, even in the absence of refrigeration, it is the perfect choice for professionals who need practical and durable tools.

Easy centering
Drilling is easy thanks to the MD cutting edge that immediately cuts even the hardest surface, avoiding to slip from on the surface

Ideal for portable drills
Gresmaster is perfect with cordless drills in any condition and does not require any special precautions. It should be used with rotation only (low rotation speeds) being sure to turn off the percussion function of the power tool.

FR ***La praticité d'un foret, la puissance du carbure***
Le foret GRESMASTER est doté d'une tête MD complète à affûtage asimétrique qui garantit l'efficacité et la durabilité du foret.

Des trous parfaits
Grâce à l'angle différent de chaque arête de coupe, Gresmaster permet un traitement de surface plus hétérogène. Le résultat est un trou parfaitement rond et lisse.

Forage à sec
Gresmaster - contrairement à ce qui se fait habituellement pour couper des matériaux aussi durs - est plus efficace lorsqu'il est utilisé à sec. En utilisant le bon RPM, même en l'absence de réfrigération, c'est le choix parfait pour les professionnels qui ont besoin d'outils pratiques et durables.

Centrage facile
Le perçage est facile grâce à l'arête de coupe MD qui coupe immédiatement même les surfaces les plus dures, évitant ainsi de glisser sur la surface.

Idéal pour les perceuses portables
Gresmaster convient parfaitement aux perceuses sans fil dans toutes les conditions et ne nécessite aucune précaution particulière. Il doit être utilisé en rotation uniquement (faible vitesse de rotation) en veillant à désactiver la fonction percussion de l'outil électrique.

SPA ***La practicidad de una broca, la potencia del carburo***
La broca GRESMASTER tiene un cabezal MD completo de afilado asimétrico que garantiza una alta eficiencia y durabilidad de la broca.

Agujeros perfectos
Debido al ángulo diferente de cada filo de corte, Gresmaster proporciona un procesamiento de superficie más heterogéneo. El resultado es un agujero perfectamente redondo y liso.

Taladrado en seco
GRESMASTER - a diferencia de lo habitual al cortar materiales tan duros - es más eficaz cuando se utiliza en seco. Utilizando las RPM adecuadas, incluso en ausencia de refrigeración, es la elección perfecta para los profesionales que necesiten herramientas prácticas y duraderas.

Fácil centrado
Drilling is easy thanks to the MD cutting edge that immediately cuts even the hardest surface, avoiding to slip from on the surface.

Ideal para taladros portátiles
GRESMASTER es perfecto con taladros inalámbricos bajo cualquier condición y no requiere ninguna precaución especial. Debe utilizarse sólo con rotación (bajas velocidades de rotación), asegurándose de desactivar la función de percusión de la herramienta eléctrica.

PT ***A praticidade de uma broca, a potência do metal duro***
A broca GRESMASTER tem uma cabeça MD de afiação assimétrica que garante uma elevada eficiência e durabilidade da broca.

Furos perfeitos
Devido ao ângulo diferente de cada aresta de corte, a Gresmaster proporciona um processamento de superfície mais heterogéneo. O resultado é um buraco perfeitamente redondo e liso.

Perfuração a seco
O Gresmaster - ao contrário do que normalmente se faz quando se cortam materiais tão duros - é mais eficaz quando utilizado a seco. Utilizando as RPM corretas, mesmo na ausência de refrigeração, é a escolha perfeita para os profissionais que necessitam de ferramentas práticas e duradouras.

Centragem fácil
A perfuração é fácil graças à aresta de corte MD que corta imediatamente mesmo a superfície mais dura, evitando o deslizamento na superfície.

Ideal para berbequins portáteis
O Gresmaster é perfeito para os berbequins sem fios em qualquer condição e não requer quaisquer precauções especiais. Deve ser utilizado apenas com rotação (velocidades de rotação baixas), tendo o cuidado de desligar a função de percussão da ferramenta elétrica.

PUNTE SPECIALI PER GRÈS PORCELLANATO

EN *Special drill bit for porcelain stoneware*
FR *Foret spécial pour la porcelaine*
ESP *Broca especial para porcelánico*
PT *Broca especial para porcelana*

GRESMASTER

03043

DIN 8039 ISO 5468

Milled

SPECIALE PER GRÈS PORCELLANATO

Special for porcelain stoneware

MADE IN JAPAN

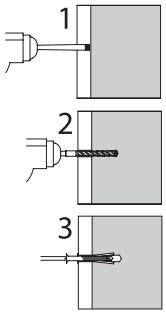
Affilatura Speciale
Special sharpening





Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L mm	pcs.	cod.	cad each €
4	85	50	**5/32**	3-1/2	1	**03043**0400	consultare
5	85	50	**3/16**	3-1/2	1	**03043**0500	listino
6	100	65	**15/64**	4	1	**03043**0600	*see price list*
8	125	75	**5/16**	5	1	**03043**0800	
10	150	90	**3/8**	6	1	**03043**1000	



CONSIGLI DI UTILIZZO
è l'utensile più facile e intuitivo da utilizzare, si utilizza a secco, è autocentrante.

L'unica fondamentale accortezza è utilizzare la punta a bassa velocità, indicativamente a 500 giri/min. (utilizzare la regolazione elettronica della velocità per arrivare a circa metà della velocità in prima marcia di un comune avvitatore, velocità poco più che al minimo per trapani a filo).

La punta va utilizzata esclusivamente a sola rotazione, senza l'utilizzo di percussione e avendo cura di raffreddare o lasciar raffreddare l'utensile tra un foro e l'altro.

Per prolungarne la durata, la punta va utilizzata per forare la sola piastrella (1): quando si entra in contatto con il muro, nel caso si necessiti ad esempio di installare dei tasselli di fissaggio (3), è bene proseguire il foro con una normale punta per calcestruzzo a rotopercussione (2).

Recommendations for use
Is the easiest and most intuitive tool to use, it is used dry, and it is self-centering.

The only fundamental caution is to use the drill at low speed, approximately 500 rpm. (use the electronic speed control to get to about half the speed in first gear of an ordinary screwdriver, speed little more than idle for corded drills).

The drill should be used with rotation only, without the use of percussion and taking care to cool or allow the tool to cool between holes.

To prolong its life, the drill should be used to drill the tile only (1): when it comes into contact with the wall, in case you need to install anchor bolts, for example (3), it is a good idea to continue the hole with a regular rotopercussion concrete drill (2).

Diametro punta ***Drill bit diameter***	4÷6	8÷10
Velocità giri/min. ***RPM speed***	500	400



Art. 030440001

3 pcs
Ø 6 - 8 - 10 mm



300x420x415 mm

Art. 03044505

54 pcs
Ø 4÷10 mm

Composizione
Description

Ø mm	pcs.
4	5
5	5
6	25
8	10
10	5
Set 6-8-10	4

Grès porcellanato
Porcelain stoneware

Pietra
Natural stones

Marmo
Marble

Piastrella standard
Standard tile

GRES+

01 PLACCHETTA IN METALLO DURO CON SPECIALE AFFILATURA

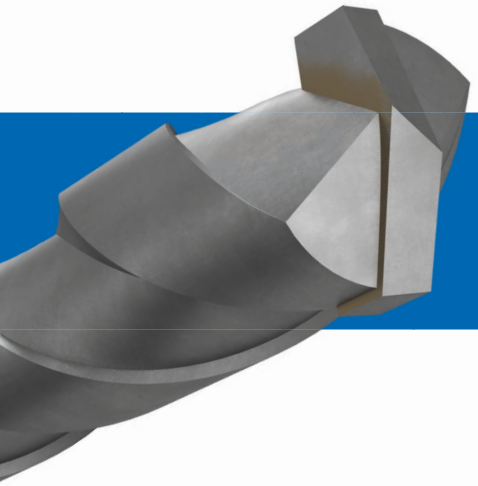
Grazie alla speciale affilatura al diamante Gres+ è in grado di incidere in modo efficace anche i materiali più duri. Da utilizzare solo a rotazione, è ideale su grès porcellanato, ceramica, piastrelle e granito.

02 FACILE CENTRAGGIO

Gres+ garantisce un foro preciso e senza sbavature, incidendo da subito la superficie ed evitando lo scivolamento laterale della punta.

03 OTTIMA DURATA

Gres+ è in grado di forare a secco, ma le migliori performance si ottengono ad umido, assicurando così un adeguato raffreddamento dell'utensile in fase di foratura.



PLACCHETTA IN METALLO DURO CON SPECIALE AFFILATURA AL DIAMANTE

Carbide plate with special diamond sharpening.
Plaque de carbure avec rectification spéciale au diamant.
Placa de metal duro con adorno especial de diamante.
Placa de metal duro com retificação especial de diamante.



EN ***Carbide plate with special sharpening***
Gres+ is able to etch even the hardest material due to its special diamond sharpening. It should be used in rotation only, it is excellent on porcelain stoneware, ceramics, tiles and granite.

Easy centering
Gres+ guarantees a precise and burr-free hole, it immediately etches the surface avoiding to slip on the surface.

Excellent duration
Gres+ can do dry drilling, but the best performance is achieved when wet. This provides an adequate cooling of the tool while drilling.

FR ***Plaque de carbure avec affûtage spécial***
Gres+ est capable de graver même les matériaux les plus durs grâce à son affûtage spécial en diamant. Il doit être utilisé en rotation uniquement, il est excellent sur le grès cérame, Cerâmica, carreaux et le granite.

Centrage facile
Gres+ garantit un trou précis et sans bavure et grave immédiatement la surface, l'empêchant ainsi de glisser.

Excellente durée
Gres+ peut effectuer des forages à sec, mais les meilleures performances sont obtenues lorsqu'il est mouillé. Cela permet un refroidissement adéquat de l'outil pendant le perçage.

ESP ***Placa de metal duro con afilado especial***
GRES+ es capaz de grabar incluso el material más duro gracias a su afilado especial con diamante. Debe utilizarse sólo en rotación, es excelente en gres porcelánico, cerámica, azulejos y granito.

Fácil centrado
GRES+ garantiza un agujero preciso y sin rebabas, graba inmediatamente la superficie evitando resbalar sobre ella.

Excelente duración
GRES+ puede perforar en seco, pero el mejor rendimiento se consigue en mojado. Esto proporciona una refrigeración adecuada de la herramienta durante el taladrado.

PT ***Placa de metal duro com afiação especial***
A Gres+ é capaz de gravar mesmo o material mais duro devido à sua afiação especial com diamante. Deve ser utilizado apenas em rotação, é excelente em grés porcelânico, cerâmica, azulejos e granito.

Centragem fácil
Gres+ garante um furo preciso e sem rebarbas, grava imediatamente a superfície evitando o deslizamento sobre a mesma.

Excelente duração
A Gres+ pode efetuar perfurações a seco, mas o melhor desempenho é obtido quando está molhada. Isto permite um arrefecimento adequado da ferramenta durante a perfuração.

PUNTE SPECIALI PER GRÈS PORCELLANATO

EN *Special drill bit for porcelain stoneware*
FR *Foret spécial pour la porcelaine*
ESP *Broca especial para porcelánico*
PT *Broca especial para porcelana*

03042

DIN 8039 ISO 5468

Milled

SPECIALE PER GRÈS PORCELLANATO

Special for porcelain stoneware

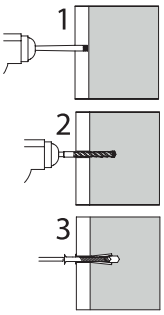






Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L mm	pcs.	cod.	cad each €
4	80	40	**5/32**	3	1	**03042**0400	consultare
5	90	45	**3/16**	3-1/2	1	**03042**0500	listino
6	100	55	**15/64**	4	1	**03042**0600	*see price list*
6,5	105	60	**1/4**	4	1	**03042**0650	
8	120	65	**5/16**	5	1	**03042**0800	
10	120	65	**3/8**	5	1	**03042**1000	
12	160	65	**15/32**	5	1	**03042**1200	



CONSIGLI DI UTILIZZO
La punta va utilizzata esclusivamente a sola rotazione, senza l'utilizzo di percussione.

Si utilizza come una normale punta per muro, è autocentrante e si utilizza sia a secco che a umido. Da utilizzare a bassa velocità, indicativamente a 500 giri/min.

Per prolungarne la durata, la punta va utilizzata per forare la sola piastrella (1): quando si entra in contatto con il muro, nel caso si necessiti ad esempio di installare dei tasselli di fissaggio (3), è bene proseguire il foro con una normale punta per calcestruzzo a rotopercussione (2).

Recommendations for use
The drill bit is to be used by rotation only, without the use of percussion.

It is used as a regular wall bit, is self-centering and can be used both dry and wet. It should be used at low speed, approximately 500 rpm.

To prolong its life, the bit should be used to drill the tile only (1): when it comes into contact with the wall, in case you need, for example, to install anchor plugs (3), it is a good idea to continue the hole with a normal rotopercussion concrete bit (2).

Diametro punta ***Drill bit diameter***	4÷6	8÷10
Velocità giri/min. ***RPM speed***	500	400



Art. 030410001

3 pcs
Ø 6 - 8 - 10 mm



300x420x415 mm

Art. 03041505

105 pcs
Ø 4÷10 mm

Composizione
Description

Ø mm	pcs.
4	10
5	10
6	50
8	20
10	10
Set 6-8-10	5



Grès porcellanato
Porcelain stoneware



Pietra
Natural stones



Marmo
Marble



Piastrella standard
Standard tile



EXPLOSION



01 USO INTENSIVO

La punta Explosion, grazie alla speciale formulazione della placchetta in carburo di tungsteno, garantisce elevate prestazioni e massima durata. Ideale per i professionisti più esigenti che lavorano su calcestruzzo, granito e pietre naturali.

02 50% PIÙ VELOCE

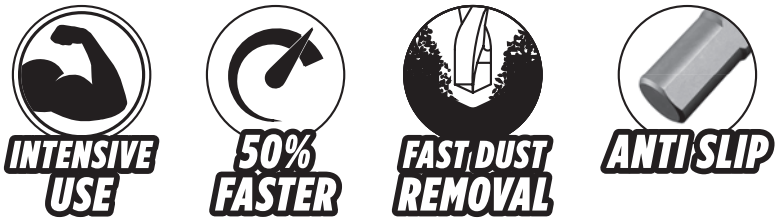
L'affilatura semi-positiva della placchetta assicura una foratura precisa e fino al 50% più veloce rispetto ad una punta muro con affilatura tradizionale.

03 RAPIDA ESTRAZIONE DELLA POLVERE

Grazie all'innovativa geometria dell'elica, progettata nel nostro laboratorio K-LAB, i detriti vengono espulsi con estrema rapidità, minimizzando la frizione, garantendo forature rapide e precise.

03 CODOLO ANTI SLITTAMENTO

I 3 pianetti presenti sul codolo della punta (≥ ø 5 mm) assicurano la massima presa sulle griffe del mandrino evitando lo slittamento anche in condizioni di massimo sforzo.



EN

Intensive use
Explosion drill, thanks to the special formulation of the tungsten carbide plate, ensures high performances and maximum durability. Ideal for the most demanding professionals working on concrete, granite and natural stone.

50% faster
The semi-positive sharpening of the plate provides precise drilling and is up to 50% faster than a masonry drill bit with traditional sharpening.

Fast dast removal
Thanks to the innovative propeller geometry, designed in our K-LAB laboratory, debris is expelled extremely quickly, minimising friction and ensuring fast and precise drilling.

Anti-slip shank
The 3 small flats on the shank of the bit (≥ ø 5 mm) ensure maximum grip on the chuck jaws, preventing from slipping even under maximum stress.

ESP

Uso intensivo
La broca Explosion, gracias a la especial formulación de la placa de carburo de tungsteno, garantiza un alto rendimiento y una máxima durabilidad. Ideal para los profesionales más exigentes que trabajan con hormigón, granito y piedras naturales.

50% más rápido
El afilado positivo de la placa garantiza una perforación precisa de hasta un 50 % más rápida en comparación con una broca para concreto, hormigon con afilado tradicional.

Rápida evacuation del polvo
Gracias a la innovadora geometría de la hélice, diseñada en nuestro laboratorio K-LAB, los residuos se expulsan con extrema rapidez, minimizando la fricción y garantizando perforaciones rápidas y precisas.

Vástago antideslizante
Los 3 biseles presentes en el vástago de la broca (≥ ø 5 mm) garantizan el máximo agarre en las porta accesorio, evitando el deslizamiento incluso en condiciones de esfuerzo máximo.

FR

Utilisation intensive
Le foret Explosion, grâce à la formulation spéciale de la plaquette en carbure de tungstène, garantit des performances élevées et une durée de vie maximale. Idéal pour les professionnels les plus exigeants qui travaillent sur le béton, le granite et les pierres naturelles.

50% plus rapide
L'affûtage semi-positif de la plaquette garantit un perçage précis jusqu'à 50 % plus rapide qu'un foret beton avec affûtage traditionnel.

Extraction rapide de la poussière
Grâce à la géométrie innovante de l'hélice, conçue dans notre laboratoire K-LAB, les débris sont dégagés très rapidement, ce qui minimise la friction et garantit des perçages rapides et précis.

Queue antidérapante
Les 3 petites plaques présentes sur la queue du foret (≥ ø 5 mm) assurent une prise maximale sur les griffes du mandrin, évitant ainsi tout glissement même dans des conditions d'effort maximal.

PT

Uso intensivo
A broca, graças à formulação especial da pastilha de metal duro (carboneto de tungsténio), garante elevado desempenho e máxima durabilidade. Ideal para os profissionais mais exigentes que trabalham em betão, granito e pedra natural.

50% mais rápida
A afiação semi-positiva da pastilha proporciona perfuração precisa e até 50% mais rápida em comparação com uma broca para alvenaria com afiação tradicional.

Remoção rápida de detritos
Graças à inovadora geometria da espiral, desenvolvida no nosso laboratório K-LAB, os resíduos são expulsos com extrema rapidez, minimizando o atrito e garantindo uma perfuração rápida e precisa.

Haste anti-deslizante
As 3 faces planas na haste da broca (≥ Ø 5 mm) asseguram máxima fixação nas garras do mandril, evitando deslizamentos mesmo sob esforço máximo.

PUNTE PER EDILIZIA A ROTOPERCUSSIONE

EN *High performance rotary percussion drill bit for construction*
FR *Foret haute performance à percussion rotative pour batiment*
ESP *Broca para costrucción con roto-percusión de alto rendimiento*
PT *Broca de martelo rotativo de alto rendimento para construção*

EXPLOSION

03109

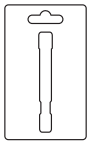
DIN 8039 ISO 5468

Milled

USO INTENSIVO

Intensive use





Confezione
Packaging

Ø mm	L mm	Ø inches	L inches	pcs./ blister	cod.	cad each €
3	70	**1/8**	2-3/4	1	**03109**0300070	consultare listino
4	80	**5/32**	3	1	**03109**0400080	*see price list*
5	90	**3/16**	3-1/2	1	**03109**0500090	
5,5	95	**7/32**	3-3/4	1	**03109**0550095	
6	100	**15/64**	4	1	**03109**0600100	
6	160	**15/64**	6-1/2	1	**03109**0600160	
6,5	105	**1/4**	4	1	**03109**0650105	
6,5	160	**1/4**	6-1/2	1	**03109**0650160	
7	110	**9/32**	4-1/2	1	**03109**0700110	
8	120	**5/16**	5	1	**03109**0800120	
8	200	**5/16**	8	1	**03109**0800200	
9	120	**11/32**	5	1	**03109**0900120	
9,5	120	**3/8**	5	1	**03109**0950120	
10	120	**25/64**	5	1	**03109**1000120	
10	200	**25/64**	8	1	**03109**1000200	
12	160	**15/32**	6-1/2	1	**03109**1200160	
13	200	**1/2**	8	1	**03109**1300200	



Art. 03116125

5 pcs

Composizione
Description

4x80 mm (5/32" x 3")
5x90 mm (3/16" x 3 1/2")
6x100 mm (15/64" x 4")
8x120 mm (5/16" x 5")
10x120 mm (3/8" x 5")

65x145x20 mm

Art. 03116126

5 pcs

Composizione
Description

5/32"x3" (4x80 mm)
3/16"x3 1/2" (5x90 mm)
1/4"x4" (6,5x105 mm)
5/16"x5" (8x120 mm)
3/8"x5" (9,5x120 mm)

Calcestruzzo
Concrete

Muro
Masonry

Pietre
Natural stones

Granito
Granite

Percussione
Rotary percussion

PUNTE ROTOBATTENTI “MAX 4” 4 TAGLIENTI 4 ELICHE AD ALTO RENDIMENTO PER FORARE TUTTI I MATERIALI EDILI

EN *Rotary percussion drill bits “MAX 4” with 4 cutting edges and 4 flutes for cutting concrete and building materials*
FR *Foret rotation percussion “MAX 4” avec 4 tranchantes et 4 spirales pour percer concret e tous le matériaux de bâtiment*
ESP *Broca rotacion, percucion “MAX 4” con 4 cortadores y 4 espirales para trabajar en el concreto y todol los materiales de construcion*
PT *Brocas de percussão rotativas “MAX 4” com 4 arestas de corte e 4 ranhuras para cortar betão e materiais de construção*

EK-MAX4®

03072

DIN 8039 ISO 5468

Milled

4 TAGLIENTI - ALTO RENDIMENTO

4 cutting edges - High performance

HVA ≃ 1650
4 taglienti
4 spirali

4 cutting edges
4 spirals





Confezione
Packaging

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
4	75	40	3,8	**5/32**	3	1	**03072**0400	consultare
5	85	40	4,8	**3/16**	3-1/2	1	**03072**0500	listino
6	100	57	5,4	**15/64**	4	1	**03072**0600	*see price list*
6,5	100	57	5,6	**1/4**	4	1	**03072**0650	
7	100	55	6,3	**9/32**	4	1	**03072**0700	
8	120	70	7	**5/16**	5	1	**03072**0800	
9	120	70	8	**11/32**	5	1	**03072**0900	
10	120	70	8,5	**3/8**	5	1	**03072**1000	
11	150	90	10	**7/16**	6	1	**03072**1100	
12	150	90	10	**15/32**	6	1	**03072**1200	
13	150	90	10	**1/2**	6	1	**03072**1300	
14	150	90	10	**9/16**	6	1	**03072**1400	
15	150	90	10	**19/32**	6	1	**03072**1500	
16	150	90	10	**5/8**	6	1	**03072**1600	



4 TAGLIENTI
Placchetta integrale a 4 taglienti in metallo duro resistente alla forte percussione, brasatura con lega saldante a 1100°C.

4 Cutting edges
One-piece 4 cutting edges carbide tip resisting to percussion. Brazing temperature at 1000°C.



4 ELICHE
Corpo fresato con scanalatura a “L” ad alta evacuazione.

4-flutes
Large milled flute type “L” for a faster dust remove.



+30%PRESTAZIONI
FORO PERFETTAMENTE CIRCOLARE rispetto a una comune punta a 2 taglienti

+30% performances
Circular hole compared to a 2 cutting edges drill

La placchetta in metallo duro monoblocco a 4 taglienti garantisce una grande capacità di taglio e un'ottima precisione di foratura. L'asportazione dei detriti è assicurata dalla combinazione delle 4 eliche e della geometria a “L” dello scarico. Grande rendimento di taglio in tutti i materiali edili, cemento, granito, pietre in genere, mattoni.

One-piece 4 cutting edges carbide tip assures great drilling performances and perfect circular holes. Faster dust removal due to the 4 “L” type flutes.
Drilling in every building material, concrete, granite, stones.

Calcestruzzo
Concrete

Muro
Masonry

Pietre
Natural stones

Calcestruzzo armato
Reinforced concrete





Art. 03073201

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03073202

6 pcs
Ø 4 - 5 - 6
8 - 9 - 10 mm



Art. 03073203

7 pcs
Ø 4 - 5 - 6 - 8
9 - 10 - 12 mm



300x420x415 mm



330x590x380 mm

Art. 03073506

105 pcs
Ø 4÷12 mm

Composizione
Description

Ø mm	pcs.
4	10
5	10
6	50
8	20
10	10
12	5

Art. 03073504

134 pcs
Ø 4÷16 mm

Composizione
Description

Ø mm	pcs.	Ø mm	pcs.
4	7	10	15
5	14	12	10
6	28	13	5
7	7	14	5
8	28	16	5
9	10		

PUNTA "SDD" PER FORATURA RAPIDA SU TUTTI I MATERIALI EDILI

EN *"SDD" drill bit for fast drilling in all construction materials*
FR *Foret "SDD" pour un perçage rapide sur tous les matériaux de construction*
ESP *Broca "SDD" para perforación rápida en todos los materiales de construcción*
PT *Broca "SDD" para perfuração rápida em todos os materiais de construção*

03069 DIN 8039 ISO 5468

PER CALCESTRUZZO - FORATURA RAPIDA
For concrete - Fast drilling







Confezione
Packaging

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
3	60	20	2,8	**1/8**	2-3/8	10	**03069**0600300	consultare
4	75	35	3,8	**5/32**	3	10	**03069**0750400	listino
5	85	45	4,5	**3/16**	3-1/2	10	**03069**0850500	*see price list*
6	100	60	5,5	**15/64**	4	10	**03069**1000600	
6	250	210	5,5	**15/64**	10	1	**03069**2500600	
6	400	360	5,5	**15/64**	16	1	**03069**4000600	
7	100	60	6,4	**9/32**	4	10	**03069**1000700	
8	120	80	7,2	**5/16**	5	10	**03069**1200800	
8	250	210	7,2	**5/16**	10	1	**03069**2500800	
8	400	360	7,2	**5/16**	16	1	**03069**4000800	
9	120	80	8,3	**11/32**	5	10	**03069**1200900	
10	120	80	9,2	**3/8**	5	10	**03069**1201000	
10	400	360	9,2	**3/8**	16	1	**03069**4001000	
10	600	560	9,2	**3/8**	24	1	**03069**6001000	
11	150	110	9,9	**7/16**	6	6	**03069**1501100	
12	150	110	10	**15/32**	6	6	**03069**1501200	
12	250	210	10	**15/32**	10	1	**03069**2501200	
12	400	360	10	**15/32**	16	1	**03069**4001200	
12	600	560	10	**15/32**	24	1	**03069**6001200	
14	150	110	12,7	**9/16**	6	6	**03069**1501400	
14	400	360	12,7	**9/16**	16	1	**03069**4001400	
15	150	110	13	**19/32**	6	6	**03069**1501500	
16	150	110	13	**5/8**	6	6	**03069**1501600	
16	250	210	13	**5/8**	10	1	**03069**2501600	
16	400	360	13	**5/8**	16	1	**03069**4001600	
16	600	560	13	**5/8**	24	1	**03069**6001600	
18	160	120	13	**23/32**	6-1/2	1	**03069**1601800	
20	160	120	13	**3/4**	6-1/2	1	**03069**1602000	



PLACCHETTA CON AFFILATURA SEMI-POSITIVA
foratura rapida su tutti i materiali edili

Semi-positive ground carbide tip
fast drilling in all construction materials



Art. 03068202

4 pcs
Ø 5x85 - 6x100
8x120 - 10x120 mm

Art. 03068204

7 pcs
Ø 3x60 - 4x75 - 5x85
6x100 - 8x120 - 9x120
10x120 mm

Art. 03068205

8 pcs
Ø 3x60 - 4x75 - 5x85
6x100 - 8x120 - 9x120
10x120 - 12X150 mm



Art. 03068505

88 pcs
Ø 3÷12 mm

Composizione
Description

Ø mm	pcs.
3x60	5
4x75	5
5x85	10
6x100	20
8x120	20
10x120	14
12x150	14


Calcestruzzo
Concrete


Muro
Masonry


Pietre
Natural stones


Granito
Granite


Ceramica
Ceramics






PUNTE “SUPERIOR” A ROTOPERCUSSIONE PER EDILIZIA

EN *Construction drill bits “SUPERIOR”*
FR *Forets à béton, qualité “SUPERIOR”*
ESP *Broca “SUPERIOR” para hormigon*
PT *Brocas de construção “SUPERIOR”*

03060 DIN 8039 ISO 5468

PER MURATURA E CALCESTRUZZO
For masonry and concrete







Confezione
Packaging

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
3	70	40	2,8	**1/8**	2-3/4	10	**030600300**	consultare
4	75	40	3,8	**5/32**	3	10	**030600400**	listino
5	85	40	4,5	**3/16**	3-1/2	10	**030600500**	*see price list*
5,5	85	50	4,8	**7/32**	4	10	**030600550**	
6	100	60	5,5	**15/64**	4	10	**030600600**	
6,5	100	60	6	**1/4**	4	10	**030600650**	
7	100	60	6	**9/32**	4	10	**030600700**	
8	120	70	7,5	**5/16**	5	5	**030600800**	
9	120	70	8	**11/32**	5	5	**030600900**	
10	120	70	9	**3/8**	5	5	**030601000**	
11	150	90	10	**7/16**	6	1	**030601100**	
12	150	90	10	**15/32**	6	1	**030601200**	
13	150	90	10	**1/2**	6	1	**030601300**	
14	150	90	10	**9/16**	6	1	**030601400**	
15	150	90	10	**19/32**	6	1	**030601500**	
16	150	90	10	**5/8**	6	1	**030601600**	
18	160	100	13	**23/32**	6-1/2	1	**030601800**	
20	160	100	13	**25/32**	6-1/2	1	**030602000**	



Art. 03070201

4 pcs
Ø 5 - 6 - 8 - 10 mm



Art. 03070202

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03070203

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm

03063 L = 150 - 200 mm / 6″ - 8″

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
5	150	90	4,7	**3/16**	6	1	**030630500**	consultare
6	150	90	5,5	**15/64**	6	1	**030630600**	listino
8	200	150	7,5	**5/16**	8	1	**030630800**	*see price list*
10	200	150	9	**3/8**	8	1	**030631000**	
12	200	150	10	**15/32**	8	1	**030631200**	
14	200	150	10	**9/16**	8	1	**030631400**	
16	200	150	10	**5/8**	8	1	**030631600**	
18	200	150	10	**23/32**	8	1	**030631800**	
20	200	150	13	**25/32**	8	1	**030632000**	

Corpo fresato con scanalatura ad “L” ad alta evacuazione.
Placchetta M.D. resistente alla forte percussione, brasatura con lega saldante a 1100° C.

Per forare a forte percussione il muro, il cemento, il calcestruzzo, marmo, pietre.
Uso intensivo ed alto rendimento.

Brazing temperature at 1100° C. Large milled flute type “L” for a faster dust removal.
For use, with rotary percussion, in masonry, concrete, natural stones.
High performances in intensive uses.


Calcestruzzo
Concrete


Muro
Masonry


Pietre
Natural stones



03065

L = 400 mm / 16"

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
8	400	320	7,5	**5/16**	16	1	**03065**0800	consultare
10	400	320	9,5	**3/8**	16	1	**03065**1000	listino
12	400	320	10	**15/32**	16	1	**03065**1200	*see price list*
14	400	320	10	**9/16**	16	1	**03065**1400	
16	400	320	10	**5/8**	16	1	**03065**1600	
18	400	320	10	**23/32**	16	1	**03065**1800	
20	400	320	13	**25/32**	16	1	**03065**2000	
22	400	320	13	**7/8**	16	1	**03065**2200	
24	400	320	13	**15/16**	16	1	**03065**2400	

03067

L = 600 mm / 24"

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
8	600	500	7,5	**5/16**	24	1	**03067**0800	consultare
10	600	500	9,5	**3/8**	24	1	**03067**1000	listino
12	600	500	10	**15/32**	24	1	**03067**1200	*see price list*
14	600	500	10	**9/16**	24	1	**03067**1400	
16	600	500	10	**5/8**	24	1	**03067**1600	
18	600	500	10	**23/32**	24	1	**03067**1800	
20	600	500	13	**25/32**	24	1	**03067**2000	
22	600	500	13	**7/8**	24	1	**03067**2200	
24	600	500	13	**15/16**	24	1	**03067**2400	



300x420x415 mm

Art. 03070505

105 pcs
Ø 4÷12 mm

Composizione
Description

Ø mm	pcs.
4	10
5	10
6	50
8	20
10	10
12	5



330x590x380 mm

Art. 03070504

141 pcs
Ø 3÷16 mm

Composizione
Description

Ø mm	pcs.
3	7
4	7
5	14
6	28
7	7
8	28
9	10
10	15
12	10
13	5
14	5
15	5

Art. 03070503

142 pcs
Ø 3÷18 mm

Composizione
Description

Ø mm	pcs.
3	9
4	9
5	9
6	27
7	9
8	18
9	6
10	12
12	6
13	6
14	6
16	6
8x400	6
10x400	3
12x400	3
16x400	2
18x400	2

PUNTE CILINDRICHE PER MURO, QUALITÀ STANDARD

EN *Carbide tipped masonry drills*
FR *Forets à béton au carbure de tungstene*
ESP *Brocas para hormigon*
PT *Brocas para alvenaria com ponta de carboneto*

03001 DIN 8039 ISO 5468

PER MURATURA
For masonry







Confezione
Packaging

SELF ART. 03002
Su richiesta / *On demand*



Si consiglia di eseguire un preforo di 100÷150 mm dello stesso diametro.

Use same size pilot drill for 100÷150 mm depth.

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
3	70	40	2,8	**1/8**	2-3/4	10	**030010300**	consultare
3,5	75	40	3,2	**9/64**	3	10	**030010350**	listino
4	75	40	3,2	**5/32**	3	10	**030010400**	*see price list*
4,5	85	40	3,8	**11/64**	3-1/2	10	**030010450**	
5	85	40	3,8	**3/16**	3-1/2	10	**030010500**	
5,5	85	50	4,7	**7/32**	3-1/2	10	**030010550**	
6	100	55	4,7	**15/64**	4	10	**030010600**	
6,5	100	55	5,4	**1/4**	4	10	**030010650**	
7	100	55	5,4	**9/32**	4	10	**030010700**	
7,5	100	70	5,8	**19/64**	4	10	**030010750**	
8	120	70	6	**5/16**	5	10	**030010800**	
8,5	120	70	7,1	**21/64**	5	10	**030010850**	
9	120	70	7,1	**11/32**	5	10	**030010900**	
9,5	120	70	8	**3/8**	5	10	**030010950**	
10	120	70	8	**25/64**	5	10	**030011000**	
11	150	90	10	**7/16**	6	5	**030011100**	
12	150	90	10	**15/32**	6	5	**030011200**	
13	150	90	10	**1/2**	6	5	**030011300**	
14	150	90	10	**9/16**	6	5	**030011400**	
15	150	90	10	**19/32**	6	5	**030011500**	
16	150	90	10	**5/8**	6	5	**030011600**	
18	160	100	10	**23/32**	6-1/2	5	**030011800**	
19	160	100	13	**3/4**	6-1/2	5	**030011900**	
20	160	100	13	**25/32**	6-1/2	5	**030012000**	
22	160	100	13	**7/8**	6-1/2	1	**030012200**	
24	160	100	13	**15/16**	6-1/2	1	**030012400**	
25	160	100	13	**1**	6-1/2	1	**030012500**	
26	160	100	13	**1-1/32**	6-1/2	1	**030012600**	
28	160	100	13	**1-1/8**	6-1/2	1	**030012800**	
30	160	100	13	**1-3/16**	6-1/2	1	**030013000**	
32	160	100	13	**1-1/4**	6-1/2	1	**030013200**	

03005 L = 200 mm / 8"

SELF ART. 03021
Su richiesta / *On demand*

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
6	200	115	4,7	**15/64**	8	5	**030050600**	consultare
8	200	115	6	**5/16**	8	5	**030050800**	listino
9	200	115	7,1	**11/32**	8	5	**030050900**	*see price list*
10	200	115	8	**3/8**	8	5	**030051000**	
12	200	120	10	**15/32**	8	5	**030051200**	
13	200	120	10	**1/2**	8	5	**030051300**	
14	200	120	10	**9/16**	8	5	**030051400**	
16	200	120	10	**5/8**	8	5	**030051600**	
18	200	120	10	**23/32**	8	5	**030051800**	
19	200	120	13	**3/4**	8	5	**030051900**	
20	200	120	13	**25/32**	8	5	**030052000**	

03009 L = 300 mm / 12"

SELF ART. 03024
Su richiesta / *On demand*

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
6	300	180	4,7	**15/64**	12	5	**030090600**	consultare
8	300	180	6	**5/16**	12	5	**030090800**	listino
9	300	180	7,1	**11/32**	12	5	**030090900**	*see price list*
10	300	180	8	**3/8**	12	5	**030091000**	
12	300	180	10	**15/32**	12	5	**030091200**	
13	300	180	10	**1/2**	12	5	**030091300**	
14	300	180	10	**9/16**	12	5	**030091400**	
16	300	180	10	**5/8**	12	5	**030091600**	
18	300	180	10	**23/32**	12	5	**030091800**	
19	300	180	13	**3/4**	12	5	**030091900**	
20	300	180	13	**25/32**	12	5	**030092000**	

Muro
Masonry

SELF ART. 03022
Su richiesta / *On demand*

03011

L = 400 mm / 16"

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
6	400	240	5	**15/64**	16	5	**03011**0600	consultare
8	400	240	7	**5/16**	16	5	**03011**0800	listino
9	400	240	8	**11/32**	16	5	**03011**0900	*see price list*
10	400	240	9	**3/8**	16	5	**03011**1000	
11	400	240	10	**7/16**	16	5	**03011**1100	
12	400	240	10	**15/32**	16	5	**03011**1200	
13	400	240	10	**1/2**	16	5	**03011**1300	
14	400	240	10	**9/16**	16	5	**03011**1400	
15	400	240	10	**19/32**	16	5	**03011**1500	
16	400	240	10	**5/8**	16	5	**03011**1600	
18	400	240	10	**23/32**	16	5	**03011**1800	
19	400	240	13	**3/4**	16	5	**03011**1900	
20	400	240	13	**25/32**	16	5	**03011**2000	
22	400	240	13	**7/8**	16	1	**03011**2200	
24	400	250	13	**15/16**	16	1	**03011**2400	
25	400	250	13	**1**	16	1	**03011**2500	
26	400	250	13	**1/32**	16	1	**03011**2600	
28	400	250	13	**1/8**	16	1	**03011**2800	
30	400	250	13	**3/16**	16	1	**03011**3000	
32	400	250	13	**1/4**	16	1	**03011**3200	

SELF ART. 03023
Su richiesta / *On demand*

03015

L = 600 mm / 24"

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
6	600	370	5	**15/64**	24	5	**030150**600	consultare
8	600	370	7	**5/16**	24	5	**030150**800	listino
9	600	370	8	**11/32**	24	5	**030150**900	*see price list*
10	600	370	9	**3/8**	24	5	**030151**000	
11	600	370	10	**7/16**	24	5	**030151**100	
12	600	370	10	**15/32**	24	5	**030151**200	
13	600	370	10	**1/2**	24	5	**030151**300	
14	600	370	10	**9/16**	24	5	**030151**400	
15	600	370	10	**19/32**	24	5	**030151**500	
16	600	370	10	**5/8**	24	5	**030151**600	
18	600	370	10	**23/32**	24	5	**030151**800	
19	600	370	13	**3/4**	24	5	**030151**900	
20	600	370	13	**25/32**	24	5	**030152**000	
22	600	370	13	**7/8**	24	1	**030152**200	
24	600	370	13	**15/16**	24	1	**030152**400	
25	600	370	13	**1**	24	1	**030152**500	
26	600	370	13	**1/32**	24	1	**030152**600	
28	600	370	13	**1/8**	24	1	**030152**800	
30	600	370	13	**3/16**	24	1	**030153**000	
35	600	370	13	**3/8**	24	1	**030153**500	



Art. 03050101

15 pcs
Ø 3÷10 x 0,5 mm



Art. 03050203

5 pcs
Ø 4 - 5 - 6 - 8 - 10 mm



Art. 03050204

7 pcs
Ø 3 - 4 - 5 - 6
8 - 9 - 10 mm



Art. 03050205

8 pcs
Ø 3 - 4 - 5 - 6 - 8
9 - 10 - 12 mm

PUNTE MULTI MATERIALE AD ALTE PRESTAZIONI

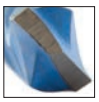
EN *High performance multi material drill bits*
FR *Forets multimatériaux haute performance*
ESP *Brocas multimaterial de alto rendimiento*
PT *Brocas multimaterial de alto desempenho*

03076 DIN 8039 ISO 5468

MULTIMATERIALE
Multi material



HVA ≃ 1650






Confezione
Packaging

Ø mm	L mm	l mm	d mm	Ø inches	L inches	pcs.	cod.	cad each €
3	70	40	2,8	**1/8**	2-3/4	1	**03076**0300070	consultare
4	75	40	3,8	**5/32**	3	1	**03076**0400075	listino
5	85	50	4,5	**3/16**	3-1/2	1	**03076**0500085	*see price list*
5	150	90	4,5	**3/16**	6	1	**03076**0500150	
5,5	85	50	4,5	**7/32**	3-1/2	1	**03076**0550085	
6	100	60	5,5	**15/64**	4	1	**03076**0600100	
6	150	90	5,5	**15/64**	6	1	**03076**0600150	
6	250	200	5,5	**15/64**	10	1	**03076**0600250	
6,5	100	60	5,5	**1/4**	4	1	**03076**0650100	
7	100	60	6,5	**9/32**	4	1	**03076**0700100	
8	120	80	7,2	**5/16**	5	1	**03076**0800120	
8	150	90	7,2	**5/16**	6	1	**03076**0800150	
8	250	200	7,2	**5/16**	10	1	**03076**0800250	
8	400	350	7,2	**5/16**	16	1	**03076**0800400	
9	120	80	8	**11/32**	5	1	**03076**0900120	
10	120	80	9	**3/8**	5	1	**03076**1000120	
10	150	90	9	**3/8**	6	1	**03076**1000150	
10	250	200	9	**3/8**	10	1	**03076**1000250	
11	150	90	10	**7/16**	6	1	**03076**1100150	
12	150	90	10	**15/32**	6	1	**03076**1200150	
12	250	200	10	**15/32**	10	1	**03076**1200250	
12	400	350	10	**15/32**	16	1	**03076**1200400	
14	200	150	12,3	**9/16**	8	1	**03076**1400200	
14	250	200	12,3	**9/16**	10	1	**03076**1400250	

Taglio preciso e senza sbavature a rotazione in metalli, ceramica e in tutti i materiali da edilizia durissimi (sino 8° Mohs) e a rotopercussione in marmo, granito, pietre.

Placchetta affilata con diamante con geometria innovativa. Corpo rettificato con scarico ad "U", in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

Precise cut, rotation only, into hardened steel, metals, ceramic and hard building materials (up to 8° Mohs). Rotary percussion cut into marble, granite, stones. Large milled flute type "U" for an efficient dust removal. Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C.


Pietre naturali e artificiali
Natural and artificial stones


Ceramica
Ceramics


Granito
granite


Piastrelle, mattoni durissimi
Tiles, hard burnt brick


Metalli
Metals


Legno
Wood


Plastica
Plastic





Art. 03078201

4 pcs
Ø 4x75 - 5x85
6x100 - 8x120 mm

Art. 03078202

4 pcs
Ø 5x85 - 6x100
8x120 - 10x120 mm



Art. 03078204

7 pcs
Ø 3x70 - 4x75
5x85 - 6x100
8x120 - 9x120
10x120 mm

Art. 03078208

8 pcs
Ø 3x70 - 4x75
5x85 6x100
8x120 - 9x120
10x120 - 12X150 mm

PUNTE MULTI MATERIALE AD ALTE PRESTAZIONI - ATTACCO HEX 1/4"

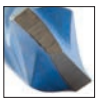
EN *High performance multi material drill bits - 1/4" HEX shank*
FR *Forets multimatériaux haute performance - embout hexagonal 1/4"*
ESP *Brocas multimaterial de alto rendimiento - encastre hexagonal de 1/4"*
PT *Brocas multimaterial de alto desempenho - encaixe hexagonal de 1/4"*

03077 DIN 8039 ISO 5468

MULTIMATERIALE
Multi material

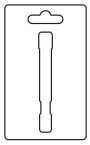


HVA ≃ 1650




1/4" HEX FORM E




Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
3	90	45	**1/8**	3-1/2	1-3/4	10	**03077**0300090	consultare
4	90	45	**5/32**	3-1/2	1-3/4	10	**03077**0400090	listino
5	100	50	**3/16**	4	2	10	**03077**0500100	*see price list*
5	150	90	**3/16**	6	3-1/2	5	**03077**0500150	
5,5	100	60	**7/32**	4	2	3	**03077**0550100	
6	100	60	**15/64**	4	2	10	**03077**0600100	
6	150	90	**15/64**	6	3-1/2	5	**03077**0600150	
6	260	200	**15/64**	10	8	3	**03077**0600250	
6,5	100	50	**1/4**	4	2	5	**03077**0650100	
6,5	150	90	**1/4**	6	3-1/2	3	**03077**0650150	
6,5	260	200	**1/4**	10	8	3	**03077**0650250	
7	100	50	**9/32**	4	2	5	**03077**0700100	
8	120	60	**5/16**	5	2-1/2	5	**03077**0800100	
8	260	200	**5/16**	10	8	3	**03077**0800260	
10	120	60	**3/8**	5	2-1/2	5	**03077**1000120	
10	150	90	**3/8**	6	3-1/2	5	**03077**1000150	
10	260	200	**3/8**	10	8	3	**03077**1000260	
12	150	90	**15/32**	6	3-1/2	3	**03077**1200150	
13	150	90	**1/2**	6	3-1/2	3	**03077**1300150	



Art. 03078020

5 pcs
Ø 4 - 5 - 6
6 - 8 mm

Art. 03078021

5 pcs
Ø 5/32" (4 mm)
3/16" (5 mm)
1/4" (6,5 mm)
1/4" (6,5 mm)
5/16" (8 mm)

Taglio preciso e senza sbavature a rotazione in metalli, ceramica e in tutti i materiali da edilizia durissimi (sino 8° Mohs) e a rotopercussione in marmo, granito, pietre.

Placchetta affilata con diamante con geometria innovativa. Corpo rettificato con scarico ad "U", in acciaio legato HRC 40÷50. Saldobrasatura a 1100° C.

Precise cut, rotation only, into hardened steel, metals, ceramic and hard building materials (up to 8° Mohs). Rotary percussion cut into marble, granite, stones. Large milled flute type "U" for an efficient dust removal. Diamond sharpened. Body in alloy steel with HRC 40÷50. Brazing temperature at 1100° C.


Pietre naturali e artificiali
Natural and artificial stones


Ceramica
Ceramics


Granito
granite


Piastrelle, mattoni durissimi
Tiles, hard burnt brick


Metalli
Metals


Legno
Wood


Plastica
Plastic





Art. 03078150

20 pcs

Composizione
Description

MULTIK
4 (5/32") - 5 (3/16") - 6 (15/64")
6,5 (1/4") - 8 (5/16") - 10 (3/8") mm (inches)

E·PRO
PH1x25, PH2x25, PZ1x25, PZ2x25,
TX20x25, TX25x25, TX30x25,
2x PH2x50, 2x PZ2x50, 2x TX30x50,
PORTA INSERTI

PUNTE PER VETRO E CERAMICA

EN *Glass and ceramic drills*
FR *Forets pour verre et céramique*
ESP *Brocas para vidrio y cerámica*
PT *Brocas para vidro e cerâmica*

03141 DIN 8039 ISO 5468

4 TAGLIENTI - ATTACCO HEX 1/4"

4-cutting-edge - 1/4" HEX shank

HRA 90

1/4" HEX FORM E



Confezione *Packaging*

Ø mm	L mm	Ø inches	L inches	pcs./ blister	pcs.	cod.	cad each €
4	77	**5/32**	3-1/32	1	10	**03141**0400	consultare
5	77	**3/16**	3-1/32	1	10	**03141**0500	listino
6	78	**15/64**	3-5/64	1	10	**03141**0600	*see price list*
6,5	78	**1/4**	3-5/64	1	10	**03141**0650	
8	78	**5/16**	3-5/64	1	5	**03141**0800	
9	80	**23/64**	3-5/32	1	5	**03141**0900	
9,5	80	**3/8**	3-5/32	1	5	**03141**0950	
10	80	**25/64**	3-5/32	1	5	**03141**1000	
12	83	**15/32**	3-9/32	1	5	**03141**1200	
13	83	**1/2**	3-9/32	1	5	**03141**1300	



Art. 031440001

3 pcs
Ø 6 mm (15/64")
6 mm (15/64")
8 mm (5/16")

Art. 031440002

3 pcs
Ø 1/4" (6,5 mm)
1/4" (6,5 mm)
5/16" (8 mm)

Taglio a sola rotazione nel vetro, selezionando la velocità di taglio più bassa possibile e refrigerando con acqua o trementina.

Riaffilare frequentemente nel taglio di vetri duri.

Cut glass using rotation only, selecting the lowest possible cutting speed and cooling with water or turpentine.
Resharpen frequently when cutting hard glass.

Vetro *Glass*

Cristallo *Crystal*

Ceramica *Ceramics*

03140 DIN 8039 ISO 5468

2 TAGLIENTI

2-cutting-edge

HRA 90



Confezione *Packaging*

Ø mm	L mm	d mm	Ø inches	L inches	pcs./ tubo *tubes*	pcs.	cod.	cad each €
3	58	3	**1/8**	2-3/8	1	10	**03140**0300	consultare
4	58	3	**5/32**	2-3/8	1	10	**03140**0400	listino
5	58	4	**3/16**	2-3/8	1	10	**03140**0500	*see price list*
6	58	5	**15/64**	2-3/8	1	10	**03140**0600	
6	58	5	**15/64**	2-3/8	10	1	**03143**0001	
6,5	58	5	**1/4**	2-3/8	1	10	**03140**0650	
7	78	5	**9/32**	3-5/64	1	10	**03140**0700	
8	78	6	**5/16**	3-5/64	1	5	**03140**0800	
8	78	6	**5/16**	3-5/64	10	1	**03143**0002	
9	98	6	**11/32**	3-1/2	1	5	**03140**0900	
10	98	7	**3/8**	3-1/2	1	5	**03140**1000	
12	98	8	**15/32**	3-1/2	1	5	**03140**1200	

Taglio a sola rotazione nel vetro, selezionando la velocità di taglio più bassa possibile e refrigerando con acqua o trementina. Riaffilare frequentemente nel taglio di vetri duri.

Cut glass using rotation only, selecting the lowest possible cutting speed and cooling with water or turpentine.
Resharpen frequently when cutting hard glass.



Art. 03146700

5 pcs
Ø 4mm (5/32")
5mm (3/16")
6mm (15/64")
8mm (5/16")
10mm (3/8")



Art. 03146701

5 pcs
Ø 5/32" (4mm)
3/16" (5mm)
1/4" (6,5mm)
5/16" (8mm)
3/8" (10mm)

Vetro *Glass*

Ceramica *Ceramics*



COD. 03141

VISIONE D'INSIEME: PUNTE PER MURO CON ATTACCO SDS

EN *Overview: Masonry drills with SDS shank*
FR *Aperçu: Forets de maçonnerie avec queue SDS*
ESP *Visión general: broca para hormigon con vástago SDS*
PT *Visão geral: Brocas para alvenaria com veio SDS*

TIPO DI ATTACCO *Shank*	DESCRIZIONE *Description*	IMMAGINE *Image*	N° TAGLIENTI *N° cutting edges*	N° ELICHE *N° helix*	PGM / ANSI
SDS-PLUS	HAMMER SDS PLUS			4 - 2	MADE IN GERMANY
	4x4 Speedmaster			4	MADE IN GERMANY
	SDS FULL CARB			4	-
	EK-8®			4	-
	EK-4			4	
	STANDARD *STANDARD*			2	-
SDS-MAX	HAMMER SDS MAX			4 - 2	MADE IN GERMANY
	V-MAX MM			2	
	V-MAX IN			2	ANSI
SPECIALE GRANDI DIAMETRI DA 45 A 80 mm - *Special for big diameters from 45 to 80 mm*					
SDS-MAX	PER GRANDI DIAMETRI DA 45 A 80 mm *For big diameters from 45 to 80 mm*		2	2	MADE IN GERMANY
SPECIALE PER MINIERA - *Special fo mining*					
SDS-MAX	MINERO	 		2	-
SPECIALI CON ASPIRAZIONE POLVERE - *Special with dust suction system*					
	DUST FREE		4 ≤ 28 mm 2 > 28 mm	0	MADE IN GERMANY
	DUST FREE		4 ≤ 28 mm 2 > 28 mm	0	

CALCESTRUZZO ARMATO *Reinforced Concrete*	CALCESTRUZZO *Concrete*	GRANITO *Granite*	PIETRE NATURALI ED ARTIFICIALI *Natural and artificial stones*	MATTONI *Brick*		
✓	✓	✓	✓	✓	COD.	03169 p.494
✓	✓	✓	✓	✓	COD.	03167 p.495
✓	✓	✓	✓	✓	COD.	03152 p.496
✓	✓	✓	✓	✓	COD.	03156 p.498
	✓	✓	✓	✓	COD.	03162 p.500
	✓	✓	✓	✓	COD.	03155 p.502
✓	✓	✓	✓	✓	COD.	03175 p.506
✓	✓	✓	✓	✓	COD.	03177 p.507
✓	✓	✓	✓	✓	COD.	03178 p.508
	✓		✓	✓	COD.	03171 p.509
			✓		COD.	03185 p.511
			✓		COD.	03186 p.511
✓	✓	✓	✓	✓	COD.	03172 p.512
✓	✓	✓	✓	✓	COD.	03172 p.535

PGM (PRÜFGEMEINSCHAFT MAUERBOHRER):
Le punte con marchiatura PGM sono certificate da un ente indipendente che ne verifica qualità costruttiva e precisione di foratura per l'impiego con tasselli e ancoraggi certificati.

PGM (Prüfgemeinschaft Mauerbohrer):
Drill bits bearing the PGM mark are certified by an independent body that verifies their manufacturing quality and drilling accuracy for use with certified anchors and fixings.

ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE):
Le punte certificate ANSI soddisfano rigorosi standard statunitensi di qualità, precisione e affidabilità per applicazioni di fissaggio professionale..

ANSI (American National Standards Institute):
ANSI-certified drill bits meet rigorous U.S. standards for quality, precision, and reliability in professional fastening applications.

PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Masonry drills with SDS-PLUS shank*
FR *Forets de maçonnerie avec queue SDS-PLUS*
ESP *Broca para hormigon con vástago SDS-PLUS*
PT *Brocas para alvenaria com veio SDS-PLUS*

HAMMER SDS PLUS

03169

TESTA INTEGRALE IN METALLO DURO - 4 TAGLIENTI - 4 ELICHE

Full carbide head - 4 cutting edges - 4 flutes

MADE IN GERMANY

SDS plus



Confezione
Packaging

Ø mm	L mm	l mm	pcs.	cod.	cad each €
3,5	115	50	1	**03169**1150350	consultare
3,5	165	100	1	**03169**1650350	listino
4	115	50	1	**03169**1150400	*see price list*
4	165	100	1	**03169**1650400	
5	115	50	1	**03169**1150500	
5	165	100	1	**03169**1650500	
5	215	150	1	**03169**2150500	
5	265	200	1	**03169**2650500	
5	315	250	1	**03169**3150500	
5	465	400	1	**03169**4650500	
5,5	115	50	1	**03169**1150550	
5,5	165	100	1	**03169**1650550	
5,5	215	150	1	**03169**2150550	
5,5	265	200	1	**03169**2650550	
5,5	315	250	1	**03169**3150550	
5,5	465	400	1	**03169**4650550	
6	115	50	1	**03169**1150600	
6	165	100	1	**03169**1650600	
6	215	150	1	**03169**2150600	
6	265	200	1	**03169**2650600	
6	315	250	1	**03169**3150600	
6	465	400	1	**03169**4650600	
6,5	115	50	1	**03169**1150650	
6,5	165	100	1	**03169**1650650	
6,5	215	150	1	**03169**2150650	
6,5	265	200	1	**03169**2650650	
6,5	315	250	1	**03169**3150650	
6,5	465	400	1	**03169**4650650	
7	115	50	1	**03169**1150700	
7	165	100	1	**03169**1650700	
7	215	150	1	**03169**2150700	
7	265	215	1	**03169**2650700	
8	115	50	1	**03169**1150800	
8	165	100	1	**03169**1650800	
8	215	150	1	**03169**2150800	
8	265	200	1	**03169**2650800	
8	315	250	1	**03169**3150800	
8	365	300	1	**03169**3650800	
8	465	400	1	**03169**4650800	
9	165	100	1	**03169**1650900	
9	215	150	1	**03169**2150900	
10	115	50	1	**03169**1151000	
10	165	100	1	**03169**1651000	
10	215	150	1	**03169**2151000	
10	265	200	1	**03169**2651000	
10	315	250	1	**03169**3151000	
10	365	300	1	**03169**3651000	
10	465	400	1	**03169**4651000	
10	600	550	1	**03169**6001000	
10	1000	950	1	**03169**10001000	

Ø mm	L mm	l mm	pcs.	cod.	cad each €
11	165	100	1	**03169**1651100	consultare
11	215	150	1	**03169**2151100	listino
11	265	200	1	**03169**2651100	*see price list*
12	165	100	1	**03169**1651200	
12	215	150	1	**03169**2151200	
12	265	200	1	**03169**2651200	
12	315	250	1	**03169**3151200	
12	365	300	1	**03169**3651200	
12	465	400	1	**03169**4651200	
12	600	550	1	**03169**6001200	
12	1000	950	1	**03169**10001200	
13	165	100	1	**03169**1651300	
13	215	150	1	**03169**2151300	
13	265	200	1	**03169**2651300	
14	165	100	1	**03169**1651400	
14	215	150	1	**03169**2151400	
14	265	200	1	**03169**2651400	
14	315	250	1	**03169**3151400	
14	365	300	1	**03169**3651400	
14	465	400	1	**03169**4651400	
14	600	550	1	**03169**6001400	
14	1000	950	1	**03169**10001400	
15	165	100	1	**03169**1651500	
15	265	200	1	**03169**2651500	
15	465	400	1	**03169**4651500	
16	215	150	1	**03169**2151600	
16	265	200	1	**03169**2651600	
16	315	250	1	**03169**3151600	
16	465	400	1	**03169**4651600	
16	600	550	1	**03169**6001600	
16	1000	950	1	**03169**10001600	
17	215	150	1	**03169**2151700	
17	315	250	1	**03169**3151700	
18	250	200	1	**03169**2501800	
18	450	400	1	**03169**4501800	
18	600	550	1	**03169**6001800	
18	1000	950	1	**03169**10001800	
20	250	200	1	**03169**2502000	
20	450	400	1	**03169**4502000	
20	600	550	1	**03169**6002000	
20	1000	950	1	**03169**10002000	
22	250	200	1	**03169**2502200	
22	450	400	1	**03169**4502200	
22	600	550	1	**03169**6002200	
22	1000	950	1	**03169**10002200	
24	450	400	1	**03169**4502400	
25	450	400	1	**03169**4502500	
25	600	550	1	**03169**6002500	
25	1000	950	1	**03169**10002500	
28	450	400	1	**03169**4502800	
30	450	400	1	**03169**4503000	



ELICHE PROGRESSIVE 4÷2
Progressive Flutes 4÷2



Saldatura per diffusione elettronica, 3 volte più resistente della saldobrasatura

Electronic diffusion bond, 3 times more resistant than brazing

Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

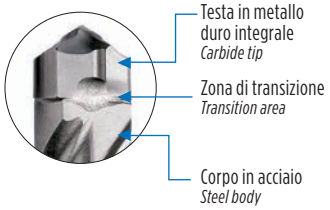
Pietre
Natural stones

Muro
Masonry

TESTA INTEGRALE IN METALLO DURO
Tutti i diametri della gamma **hanno la testa integrale in metallo duro**, massime performance e massima resistenza

NUOVO DESIGN 4÷2 ELICHE
Le 4 eliche assicurano massima velocità nella rimozione della polvere e un ottimo supporto ai 4 taglienti.

Le 2 eliche aumentano la capacità di asportazione grazie al maggior volume disponibile e riducono l'attrito, migliorando l'efficienza dell'utensile.



SOLID CARBIDE HEAD
All diameters *in the range feature a* ***solid carbide head****, ensuring maximum performance and outstanding durability.*

NEW 4-FLUTE / 2-FLUTE DESIGN
The 4 flutes provide maximum dust evacuation speed and optimal support for the four cutting edges.

The 2 flutes increase debris removal capacity thanks to the larger available flute volume and reduce friction, enhancing overall drilling efficiency.

PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Masonry drills with SDS-PLUS shank*
FR *Forets de maçonnerie avec queue SDS-PLUS*
ESP *Broca para hormigon con vástago SDS-PLUS*
PT *Brocas para alvenaria com veio SDS-PLUS*

4x4 Speedmaster®

03167

TESTA INTEGRALE IN METALLO DURO - 4 TAGLIENTI - 4 ELICHE

Full carbide head - 4 cutting edges - 4 flutes

MADE IN GERMANY

SDS plus



Confezione
Packaging

Ø mm	L mm	l mm	pcs.	cod.	cad each €
5	110	50	1	**03167**1100500	consultare
5	160	100	1	**03167**1600500	listino
5,5	110	50	1	**03167**1100550	*see price list*
5,5	160	100	1	**03167**1600550	
6	110	50	1	**03167**1100600	
6	160	100	1	**03167**1600600	
6	210	150	1	**03167**2100600	
6	260	200	1	**03167**2600600	
6	310	250	1	**03167**3100600	
6,5	160	100	1	**03167**1600650	
6,5	210	150	1	**03167**2100650	
6,5	260	200	1	**03167**2600650	
6,5	310	250	1	**03167**3100650	
7	110	50	1	**03167**1100700	
7	160	100	1	**03167**1600700	
8	110	50	1	**03167**1100800	
8	160	100	1	**03167**1600800	
8	210	150	1	**03167**2100800	
8	260	200	1	**03167**2600800	
8	310	250	1	**03167**3100800	
8	460	400	1	**03167**4600800	
9	160	100	1	**03167**1600900	
10	110	50	1	**03167**1101000	
10	160	100	1	**03167**1601000	
10	210	150	1	**03167**2101000	
10	260	200	1	**03167**2601000	
10	310	250	1	**03167**3101000	
10	450	400	1	**03167**4501000	
10	600	550	1	**03167**6001000	
10	1000	950	1	**03167**10001000	
11	160	100	1	**03167**1601100	
11	210	150	1	**03167**2101100	
12	160	100	1	**03167**1601200	
12	210	150	1	**03167**2101200	
12	260	200	1	**03167**2601200	
12	310	250	1	**03167**3101200	
12	450	400	1	**03167**4501200	
12	600	550	1	**03167**6001200	
12	1000	950	1	**03167**10001200	
13	160	100	1	**03167**1601300	

Ø mm	L mm	l mm	pcs.	cod.	cad each €
13	210	150	1	**03167**2101300	consultare
13	260	200	1	**03167**2601300	listino
13	310	250	1	**03167**3101300	*see price list*
14	160	100	1	**03167**1601400	
14	210	150	1	**03167**2101400	
14	260	200	1	**03167**2601400	
14	310	250	1	**03167**3101400	
14	450	400	1	**03167**4501400	
14	600	550	1	**03167**6001400	
14	1000	950	1	**03167**10001400	
15	160	100	1	**03167**1601500	
15	210	150	1	**03167**2101500	
15	260	200	1	**03167**2601500	
15	450	400	1	**03167**4501500	
16	160	100	1	**03167**1601600	
16	210	150	1	**03167**2101600	
16	260	200	1	**03167**2601600	
16	310	250	1	**03167**3101600	
16	450	400	1	**03167**4501600	
16	600	550	1	**03167**6001600	
16	1000	950	1	**03167**10001600	
18	250	200	1	**03167**2501800	
18	450	400	1	**03167**4501800	
20	250	200	1	**03167**2502000	
20	450	400	1	**03167**4502000	
22	250	200	1	**03167**2502200	
22	450	400	1	**03167**4502200	
24	250	200	1	**03167**2502400	
24	450	400	1	**03167**4502400	
25	250	200	1	**03167**2502500	
25	450	400	1	**03167**4502500	
28	250	200	1	**03167**2502800	
28	450	400	1	**03167**4502800	
30	250	200	1	**03167**2503000	
30	450	400	1	**03167**4503000	
32	450	400	1	**03167**4503200	





Ø 5-28 mm
Testa integrale metallo duro
Solid Carbide head



Ø 30-32 mm
4 taglienti in metallo duro
4-cutter carbide head



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

4 TAGLIENTI IN METALLO DURO
Testa a 4 taglienti in metallo duro ad alta resistenza agli urti, saldata per diffusione elettronica (Ø 5–28 mm) o con 4 placchette saldo-brasate a 1100°C (Ø 30–32 mm).

4-CUTTER CARBIDE HEAD
High-impact resistant 4-cutter carbide head, diffusion-bonded (Ø 5–28 mm) or equipped with 4 individually brazed carbide inserts at 1100°C (Ø 30–32 mm).

PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Masonry drills with SDS-PLUS shank*
FR *Forets de maçonnerie avec queue SDS-PLUS*
ESP *Broca para hormigon con vástago SDS-PLUS*
PT *Brocas para alvenaria com veio SDS-PLUS*

SDS FULL CARB

03152

TESTA INTEGRALE IN METALLO DURO - 4 TAGLIENTI - 4 ELICHE

Full carbide head - 4 cutting edges - 4 flutes

SDS PLUS



Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
4	115	50	**5/32**	4	2	1	**03152**1150400	consultare listino
4	165	100	**5/32**	6	4	1	**03152**1650400	*see price list*
5	115	50	**3/16**	4	2	1	**03152**1150500	
5	165	100	**3/16**	6	4	1	**03152**1650500	
5	215	150	**3/16**	8	6	1	**03152**2150500	
5	265	200	**3/16**	10	8	1	**03152**2650500	
5	315	250	**3/16**	12	10	1	**03152**3150500	
5,5	115	50	**7/32**	4	2	1	**03152**1150550	
5,5	165	100	**7/32**	6	4	1	**03152**1650550	
5,5	215	150	**7/32**	8	6	1	**03152**2150550	
5,5	265	200	**7/32**	10	8	1	**03152**2650550	
5,5	315	250	**7/32**	12	10	1	**03152**3150550	
6	115	50	**15/64**	4	2	1	**03152**1150600	
6	165	100	**15/64**	6	4	1	**03152**1650600	
6	215	150	**15/64**	8	6	1	**03152**2150600	
6	265	200	**15/64**	10	8	1	**03152**2650600	
6	315	250	**15/64**	12	10	1	**03152**3150600	
6,5	115	50	**1/4**	4	2	1	**03152**1150650	
6,5	165	100	**1/4**	6	4	1	**03152**1650650	
6,5	215	150	**1/4**	8	6	1	**03152**2150650	
6,5	265	200	**1/4**	10	8	1	**03152**2650650	
6,5	315	250	**1/4**	12	10	1	**03152**3150650	
7	165	100	**9/32**	6	4	1	**03152**1650700	
7	215	150	**9/32**	8	6	1	**03152**2150700	
8	115	50	**5/16**	4	2	1	**03152**1150800	
8	165	100	**5/16**	6	4	1	**03152**1650800	
8	215	150	**5/16**	8	6	1	**03152**2150800	
8	265	200	**5/16**	10	8	1	**03152**2650800	
8	315	250	**5/16**	12	10	1	**03152**3150800	
8	455	400	**5/16**	18	16	1	**03152**4550800	
9	165	100	**11/32**	6	4	1	**03152**1650900	
9	215	150	**11/32**	8	6	1	**03152**2150900	
10	115	50	**3/8**	4	2	1	**03152**1151000	
10	165	100	**3/8**	6	4	1	**03152**1651000	
10	215	150	**3/8**	8	6	1	**03152**2151000	
10	265	200	**3/8**	10	8	1	**03152**2651000	
10	315	250	**3/8**	12	10	1	**03152**3151000	
10	465	400	**3/8**	18	16	1	**03152**4651000	
10	605	550	**3/8**	24	22	1	**03152**6051000	
10	1005	950	**3/8**	40	38	1	**03152**10051000	



Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

TESTA INTEGRALE IN METALLO DURO - 4 TAGLIENTI - 4 ELICHE

Full carbide head - 4 cutting edges - 4 flutes

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
12	165	100	**15/32**	6	4	1	**03152**1651200	consultare listino
12	215	150	**15/32**	8	6	1	**03152**2151200	*see price list*
12	265	200	**15/32**	10	8	1	**03152**2651200	
12	315	250	**15/32**	12	10	1	**03152**3151200	
12	465	400	**15/32**	18	16	1	**03152**4651200	
12	605	550	**15/32**	24	22	1	**03152**6051200	
12	1005	950	**15/32**	40	38	1	**03152**10051200	
13	165	100	**1/2**	6	4	1	**03152**1651300	
13	215	150	**1/2**	8	6	1	**03152**2151300	
13	265	200	**1/2**	10	8	1	**03152**2651300	
13	315	250	**1/2**	12	10	1	**03152**3151300	
13	455	400	**1/2**	18	16	1	**03152**4551300	
14	165	100	**9/16**	6	4	1	**03152**1651400	
14	215	150	**9/16**	8	6	1	**03152**2151400	
14	265	200	**9/16**	10	8	1	**03152**2651400	
14	315	250	**9/16**	12	10	1	**03152**3151400	
14	455	400	**9/16**	18	16	1	**03152**4551400	
14	605	550	**9/16**	24	22	1	**03152**6051400	
14	1005	950	**9/16**	40	38	1	**03152**10051400	
16	215	150	**5/8**	8	6	1	**03152**2151600	
16	265	200	**5/8**	10	8	1	**03152**2651600	
16	315	250	**5/8**	12	10	1	**03152**3151600	
16	455	400	**5/8**	18	16	1	**03152**4551600	
16	605	550	**5/8**	24	22	1	**03152**6051600	
16	1005	950	**5/8**	40	38	1	**03152**10051600	
18	250	200	**23/32**	9	8	1	**03152**2501800	
18	315	250	**23/32**	12	10	1	**03152**3151800	
18	450	400	**23/32**	18	16	1	**03152**4501800	
18	605	550	**23/32**	24	22	1	**03152**6051800	
19	265	200	**3/4**	10	8	1	**03152**2651900	
19	315	250	**3/4**	12	10	1	**03152**3151900	
19	455	400	**3/4**	18	16	1	**03152**4551900	
19	605	550	**3/4**	24	22	1	**03152**6051900	

TESTA INTEGRALE IN METALLO DURO PER TUTTE LE MISURE

Full carbide head for all sizes

MASSIMA STABILITÀ
Grazie alla speciale punta a forma piramidale

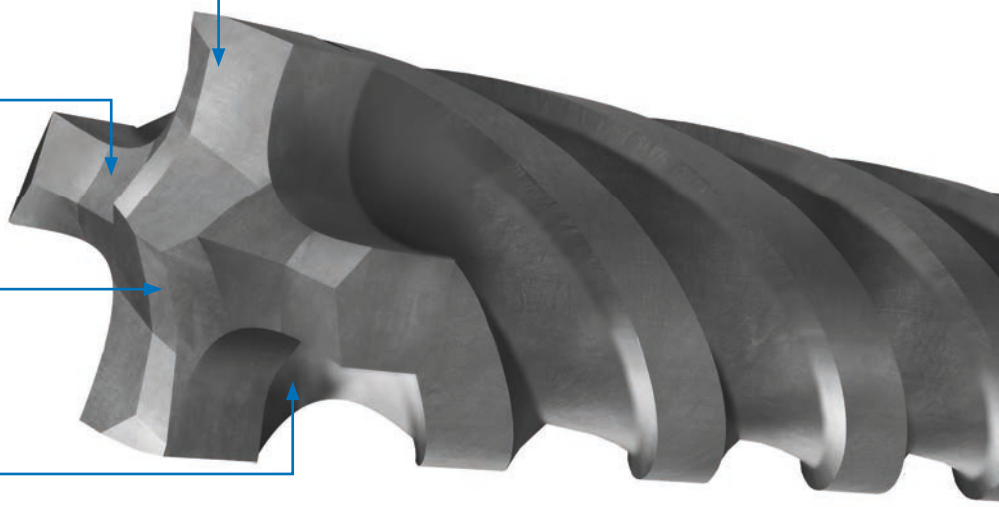
Max stability
thanks to special piramid shape of the tip

4 TAGLIENTI
Per massime prestazioni nei lavori gravosi

4 cutting edges
For max performances on heavy works

SALDATURA ELETTRONICA PER DIFFUSIONE
La saldatura omogenea tra la testa e il corpo della punta permette di resistere a elevate sollecitazioni e calore

Diffusion welding process
The homogeneous weld between the head and body of the tip allows it to withstand to high temperatures and stress



PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Masonry drills with SDS-PLUS shank*
FR *Forets de maçonnerie avec queue SDS-PLUS*
ESP *Broca para hormigon con vástago SDS-PLUS*
PT *Brocas para alvenaria com veio SDS-PLUS*

03156

4 TAGLIENTI - 4 ELICHE

4 cutting edges - 4 flutes

HVA ≃ 1650

SDS PLUS





Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
5	110	50	**3/16**	4	2	1	**03156**1100500	consultare listino
5	160	100	**3/16**	6	4	1	**03156**1600500	*see price list*
5,5	160	100	**7/32**	6	4	1	**03156**1600550	
5,5	260	200	**7/32**	10	8	1	**03156**2600550	
5,5	310	250	**7/32**	12	10	1	**03156**3100550	
6	110	50	**15/64**	4	2	1	**03156**1100600	
6	160	100	**15/64**	6	4	1	**03156**1600600	
6	210	150	**15/64**	8	6	1	**03156**2100600	
6	260	200	**15/64**	10	8	1	**03156**2600600	
6,5	160	100	**1/4**	6	4	1	**03156**1600650	
6,5	210	150	**1/4**	8	6	1	**03156**2100650	
6,5	260	200	**1/4**	10	8	1	**03156**2600650	
7	110	50	**9/32**	4	2	1	**03156**1100700	
7	160	100	**9/32**	6	4	1	**03156**1600700	
8	110	50	**5/16**	4	2	1	**03156**1100800	
8	160	100	**5/16**	6	4	1	**03156**1600800	
8	210	150	**5/16**	8	6	1	**03156**2100800	
8	260	200	**5/16**	10	8	1	**03156**2600800	
8	310	250	**5/16**	12	10	1	**03156**3100800	
8	460	400	**5/16**	18	16	1	**03156**4600800	
9	160	100	**11/32**	6	4	1	**03156**1600900	
9	210	150	**11/32**	8	6	1	**03156**2100900	
9,5	110	50	**3/8**	4	2	1	**03156**1100950	
9,5	160	100	**3/8**	6	4	1	**03156**1600950	
9,5	210	150	**3/8**	8	6	1	**03156**2100950	
9,5	260	200	**3/8**	10	8	1	**03156**2600950	
9,5	310	250	**3/8**	12	10	1	**03156**3100950	
9,5	360	300	**3/8**	14-3/16	11-7/8	1	**03156**3600950	
9,5	460	400	**3/8**	18	16	1	**03156**4600950	
9,5	610	550	**3/8**	24	22	1	**03156**6100950	
10	110	50	**25/64**	4	2	1	**03156**1101000	
10	160	100	**25/64**	6	4	1	**03156**1601000	
10	210	150	**25/64**	8	6	1	**03156**2101000	
10	260	200	**25/64**	10	8	1	**03156**2601000	
10	310	250	**25/64**	12	10	1	**03156**3101000	
10	360	300	**25/64**	14-3/16	11-7/8	1	**03156**3601000	
10	460	400	**25/64**	18	16	1	**03156**4601000	
10	610	550	**25/64**	24	22	1	**03156**6101000	
11	160	100	**7/16**	6	4	1	**03156**1601100	
11	210	150	**7/16**	8	6	1	**03156**2101100	







Sez. AA

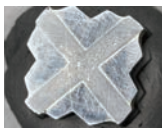


Immagine ottenuta al microscopio sezionando la testa dell'utensile

Image obtained under the microscope by sectioning the head of the tool

Placchetta in metallo duro con 4 taglienti, 4 eliche rapide, corpo in acciaio ad alta resistenza.
La punta a 4 taglienti e 4 spirali taglia sempre il tondino in cemento armato e non si blocca mai.
Grande durata dell'utensile, precisione e circolarità del foro.

One-piece carbide with 4 cutting edges, 4 flutes, steel body with high resistance.
One-piece carbide tip always cuts the steel bar into reinforced concrete and it never stops.
Long life cycle, thoroughness and roundness of the hole.

Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

4 TAGLIENTI - 4 ELICHE

4 cutting edges - 4 flutes

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
11	260	200	**7/16**	10	8	1	**03156**2601100	consultare listino
12	160	100	**15/32**	6	4	1	**03156**1601200	*see price list*
12	210	150	**15/32**	8	6	1	**03156**2101200	
12	260	200	**15/32**	10	8	1	**03156**2601200	
12	310	250	**15/32**	12	10	1	**03156**3101200	
12	460	400	**15/32**	18	16	1	**03156**4601200	
12	600	550	**15/32**	24	22	1	**03156**6001200	
13	160	100	**1/2**	6	4	1	**03156**1601300	
13	210	150	**1/2**	8	6	1	**03156**2101300	
13	260	200	**1/2**	10	8	1	**03156**2601300	
13	460	400	**1/2**	18	16	1	**03156**4601300	
14	160	100	**9/16**	6	4	1	**03156**1601400	
14	210	150	**9/16**	8	6	1	**03156**2101400	
14	260	200	**9/16**	10	8	1	**03156**2601400	
14	310	250	**9/16**	12	10	1	**03156**3101400	
14	460	400	**9/16**	18	16	1	**03156**4601400	
14	600	550	**9/16**	24	22	1	**03156**6001400	
15	160	100	**19/32**	6	4	1	**03156**1601500	
15	260	200	**19/32**	10	8	1	**03156**2601500	
16	160	100	**5/8**	6	4	1	**03156**1601600	
16	210	150	**5/8**	8	6	1	**03156**2101600	
16	260	200	**5/8**	10	8	1	**03156**2601600	
16	310	250	**5/8**	12	10	1	**03156**3101600	
16	460	400	**5/8**	18	16	1	**03156**4601600	
16	600	550	**5/8**	24	22	1	**03156**6001600	
18	210	150	**23/32**	8	6	1	**03156**2101800	
18	260	200	**23/32**	10	8	1	**03156**2601800	
18	310	250	**23/32**	12	10	1	**03156**3101800	
18	460	400	**23/32**	18	16	1	**03156**4601800	
18	600	550	**23/32**	24	22	1	**03156**6001800	
19	200	150	**3/4**	8	6	1	**03156**2001900	
19	310	250	**3/4**	12	10	1	**03156**3101900	
19	460	400	**3/4**	18	16	1	**03156**4601900	
19	600	550	**3/4**	24	22	1	**03156**6001900	
20	200	150	**25/32**	8	6	1	**03156**2002000	
20	310	250	**25/32**	12	10	1	**03156**3102000	
20	460	400	**25/32**	18	16	1	**03156**4602000	
20	600	550	**25/32**	24	22	1	**03156**6002000	
22	250	200	**7/8**	9	8	1	**03156**2502200	
22	460	400	**7/8**	18	16	1	**03156**4602200	
22	600	550	**7/8**	24	22	1	**03156**6002200	
24	260	200	**15/16**	10	8	1	**03156**2602400	
24	460	400	**15/16**	18	16	1	**03156**4602400	
25	260	200	**1**	10	8	1	**03156**2602500	
25	460	400	**1**	18	16	1	**03156**4602500	
26	460	400	**1-1/32**	18	16	1	**03156**4602600	
28	460	400	**1-1/8**	18	16	1	**03156**4602800	
30	460	400	**1-3/16**	18	16	1	**03156**4603000	

PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Masonry drills with SDS-PLUS shank*
FR *Forets de maçonnerie avec queue SDS-PLUS*
ESP *Broca para hormigon con vástago SDS-PLUS*
PT *Brocas para alvenaria com veio SDS-PLUS*

03162

2 TAGLIENTI
2 cutting edges

SDS PLUS



Confezione
Packaging

Ø mm	L mm	l mm	pcs.	cod.	cad each €
4	110	50	1	**03162**1100400	consultare
4	160	100	1	**03162**1600400	listino
5	110	50	1	**03162**1100500	*see price list*
5	160	100	1	**03162**1600500	
5	210	150	1	**03162**2100500	
5	310	250	1	**03162**3100500	
5,5	110	50	1	**03162**1100550	
5,5	160	100	1	**03162**1600550	
5,5	210	150	1	**03162**2100550	
5,5	260	200	1	**03162**2600550	
5,5	310	250	1	**03162**3100550	
5,5	450	400	1	**03162**4500550	
6	110	50	1	**03162**1100600	
6	160	100	1	**03162**1600600	
6	210	150	1	**03162**2100600	
6	260	200	1	**03162**2600600	
6	450	400	1	**03162**4500600	
6,5	110	50	1	**03162**1100650	
6,5	160	100	1	**03162**1600650	
6,5	210	150	1	**03162**2100650	
6,5	260	200	1	**03162**2600650	
6,5	310	250	1	**03162**3100650	
7	160	100	1	**03162**1600700	
7	210	150	1	**03162**2100700	
8	110	50	1	**03162**1100800	
8	160	100	1	**03162**1600800	
8	210	150	1	**03162**2100800	
8	260	200	1	**03162**2600800	
8	310	250	1	**03162**3100800	
8	450	400	1	**03162**4500800	
8	600	550	1	**03162**6000800	
9	160	100	1	**03162**1600900	
9	210	150	1	**03162**2100900	
10	110	50	1	**03162**1101000	
10	160	100	1	**03162**1601000	
10	210	150	1	**03162**2101000	
10	260	200	1	**03162**2601000	
10	310	250	1	**03162**3101000	
10	450	400	1	**03162**4501000	
10	600	550	1	**03162**6001000	
10	1000	950	1	**03162**10001000	
11	160	100	1	**03162**1601100	
11	210	150	1	**03162**2101100	
11	260	200	1	**03162**2601100	
12	160	100	1	**03162**1601200	
12	210	150	1	**03162**2101200	

Ø mm	L mm	l mm	pcs.	cod.	cad each €
12	260	200	1	**03162**2601200	consultare
12	310	250	1	**03162**3101200	listino
12	450	400	1	**03162**4501200	*see price list*
12	600	550	1	**03162**6001200	
12	1000	950	1	**03162**10001200	
13	210	150	1	**03162**2101300	
13	260	200	1	**03162**2601300	
14	160	100	1	**03162**1601400	
14	210	150	1	**03162**2101400	
14	260	200	1	**03162**2601400	
14	310	250	1	**03162**3101400	
14	450	400	1	**03162**4501400	
14	610	550	1	**03162**6101400	
14	1000	950	1	**03162**10001400	
15	160	100	1	**03162**1601500	
15	260	200	1	**03162**2601500	
16	210	150	1	**03162**2101600	
16	260	200	1	**03162**2601600	
16	310	250	1	**03162**3101600	
16	450	400	1	**03162**4501600	
16	600	550	1	**03162**6001600	
16	1000	950	1	**03162**10001600	
18	210	150	1	**03162**2101800	
18	310	250	1	**03162**3101800	
18	450	400	1	**03162**4501800	
18	600	550	1	**03162**6001800	
18	1000	950	1	**03162**10001800	
19	210	150	1	**03162**2101900	
20	210	150	1	**03162**2102000	
20	310	250	1	**03162**3102000	
20	450	400	1	**03162**4502000	
20	600	550	1	**03162**6002000	
20	1000	950	1	**03162**10002000	
22	260	200	1	**03162**2602200	
22	450	400	1	**03162**4502200	
22	600	550	1	**03162**6002200	
22	1000	950	1	**03162**10002200	
24	260	200	1	**03162**2602400	
24	450	400	1	**03162**4502400	
25	260	200	1	**03162**2602500	
25	450	400	1	**03162**4502500	
25	1000	950	1	**03162**10002500	
26	260	200	1	**03162**2602600	
26	450	400	1	**03162**4502600	

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

MASSIMA VELOCITÀ DI FORATURA
La speciale geometria della testa, combinata con il design a 2 eliche, garantisce forature estremamente rapide e una rimozione efficace dei detriti, per prestazioni elevate in ogni applicazione.

MASSIMA DURATA
L'esclusivo processo di saldatura ad alta temperatura delle placchette in metallo duro assicura un'eccezionale resistenza all'usura e una lunga durata operativa, anche nelle condizioni di lavoro più impegnative.

MAXIMUM DRILLING SPEED
The special head geometry, combined with the twin-helix design, ensures extremely fast drilling and effective debris removal, delivering high performance in every application.

MAXIMUM DURABILITY
The exclusive high-temperature welding process used for the carbide inserts ensures exceptional wear resistance and a long service life, even under the most demanding working conditions.



COD. 03162

PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Masonry drills with SDS-PLUS shank*
FR *Forets de maçonnerie avec queue SDS-PLUS*
ESP *Broca para hormigon con vástago SDS-PLUS*
PT *Brocas para alvenaria com veio SDS-PLUS*

03155

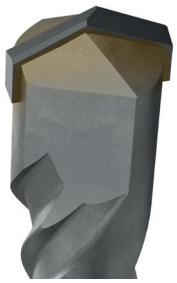
2 TAGLIENTI - 4 ELICHE

2 cutting edges - 4 flutes



Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
4	110	50	**5/32**	4	2	1	**031551**1100400	consultare listino
4	160	100	**5/32**	6	4	1	**031551**1600400	*see price list*
5	110	50	**3/16**	4	2	1	**031551**1100500	
5	160	100	**3/16**	6	4	1	**031551**1600500	
5	210	150	**3/16**	8	6	1	**031552**2100500	
5,5	110	50	**7/32**	4	2	1	**031551**1100550	
5,5	160	100	**7/32**	6	4	1	**031551**1600550	
5,5	210	150	**7/32**	8	6	1	**031552**2100550	
6	110	50	**15/64**	4	2	1	**031551**1100600	
6	160	100	**15/64**	6	4	1	**031551**1600600	
6	210	150	**15/64**	8	6	1	**031552**2100600	
6	260	200	**15/64**	10	8	1	**031552**2600600	
6,5	160	100	**1/4**	6	4	1	**031551**1600650	
6,5	210	150	**1/4**	8	6	1	**031552**2100650	
6,5	260	200	**1/4**	10	8	1	**031552**2600650	
6,5	310	250	**1/4**	12	10	1	**031553**3100650	
7	110	50	**9/32**	4	2	1	**031551**1100700	
7	160	100	**9/32**	6	4	1	**031551**1600700	
8	110	50	**5/16**	4	2	1	**031551**1100800	
8	160	100	**5/16**	6	4	1	**031551**1600800	
8	210	150	**5/16**	8	6	1	**031552**2100800	
8	260	200	**5/16**	10	8	1	**031552**2600800	
8	310	250	**5/16**	12	10	1	**031553**3100800	
8	460	400	**5/16**	18	16	1	**031554**4600800	
8	610	550	**5/16**	24	22	1	**031556**6100800	
9	160	100	**11/32**	6	4	1	**031551**1600900	
9	210	150	**11/32**	8	6	1	**031552**2100900	
9,5	110	50	**3/8**	4	2	1	**031551**1100950	
9,5	160	100	**3/8**	6	4	1	**031551**1600950	
9,5	210	150	**3/8**	8	6	1	**031552**2100950	
9,5	260	200	**3/8**	10	8	1	**031552**2600950	
9,5	310	250	**3/8**	12	10	1	**031553**3100950	
9,5	360	300	**3/8**	14-3/16	11-7/8	1	**031553**3600950	
9,5	460	400	**3/8**	18	16	1	**031554**4600950	
9,5	610	550	**3/8**	24	22	1	**031556**6100950	
10	110	50	**25/64**	4	2	1	**031551**1101000	
10	160	100	**25/64**	6	4	1	**031551**1601000	
10	210	150	**25/64**	8	6	1	**031552**2101000	
10	260	200	**25/64**	10	8	1	**031552**2601000	
10	310	250	**25/64**	12	10	1	**031553**3101000	
10	360	300	**25/64**	14-3/16	11-7/8	1	**031553**3601000	
10	460	400	**25/64**	18	16	1	**031554**4601000	
10	610	550	**25/64**	24	22	1	**031556**6101000	
10	1000	950	**25/64**	40	38	1	**031551**0001000	
11	160	100	**7/16**	6	4	1	**031551**1601100	
11	210	150	**7/16**	8	6	1	**031552**2101100	
11	260	200	**7/16**	10	8	1	**031552**2601100	
12	160	100	**15/32**	6	4	1	**031551**1601200	
12	210	150	**15/32**	8	6	1	**031552**2101200	
12	260	200	**15/32**	10	8	1	**031552**2601200	
12	310	250	**15/32**	12	10	1	**031553**3101200	
12	460	400	**15/32**	18	16	1	**031554**4601200	
12	600	550	**15/32**	24	22	1	**031556**6001200	
12	1000	950	**15/32**	40	38	1	**031551**0001200	
13	160	100	**1/2**	6	4	1	**031551**1601300	
13	210	150	**1/2**	8	6	1	**031552**2101300	



Taglio a rotopercussione, su martelli con attacco SDS-PLUS, nel muro, cemento, calcestruzzo, pietre.

Rotary percussion cut, with SDS plus hammers, in masonry, cement, reinforced concrete, natural and artificial stone.

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

2 TAGLIENTI - 4 ELICHE

2 cutting edges - 4 flutes

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
13	260	200	**1/2**	10	8	1	**03155**2601300	consultare listino
13	460	400	**1/2**	18	16	1	**03155**4601300	*see price list*
14	160	100	**9/16**	6	4	1	**03155**1601400	
14	210	150	**9/16**	8	6	1	**03155**2101400	
14	260	200	**9/16**	10	8	1	**03155**2601400	
14	310	250	**9/16**	12	10	1	**03155**3101400	
14	460	400	**9/16**	18	16	1	**03155**4601400	
14	600	550	**9/16**	24	22	1	**03155**6001400	
14	1000	950	**9/16**	40	38	1	**03155**10001400	
15	160	100	**19/32**	6	4	1	**03155**1601500	
15	260	200	**19/32**	10	8	1	**03155**2601500	
16	160	100	**5/8**	6	4	1	**03155**1601600	
16	210	150	**5/8**	8	6	1	**03155**2101600	
16	260	200	**5/8**	10	8	1	**03155**2601600	
16	310	250	**5/8**	12	10	1	**03155**3101600	
16	460	400	**5/8**	18	16	1	**03155**4601600	
16	600	550	**5/8**	24	22	1	**03155**6001600	
16	1000	950	**5/8**	40	38	1	**03155**10001600	
18	210	150	**23/32**	8	6	1	**03155**2101800	
18	260	200	**23/32**	10	8	1	**03155**2601800	
18	310	250	**23/32**	12	10	1	**03155**3101800	
18	460	400	**23/32**	18	16	1	**03155**4601800	
18	600	550	**23/32**	24	22	1	**03155**6001800	
18	1000	950	**23/32**	40	38	1	**03155**10001800	
19	200	150	**3/4**	8	6	1	**03155**2001900	
19	310	250	**3/4**	12	10	1	**03155**3101900	
19	460	400	**3/4**	18	16	1	**03155**4601900	
19	600	550	**3/4**	24	22	1	**03155**6001900	
20	200	150	**25/32**	8	6	1	**03155**2002000	
20	310	250	**25/32**	12	10	1	**03155**3102000	
20	460	400	**25/32**	18	16	1	**03155**4602000	
20	600	550	**25/32**	24	22	1	**03155**6002000	
20	1000	950	**25/32**	40	38	1	**03155**10002000	
22	250	200	**7/8**	9	8	1	**03155**2502200	
22	460	400	**7/8**	18	16	1	**03155**4602200	
22	600	550	**7/8**	24	22	1	**03155**6002200	
22	1000	950	**7/8**	40	38	1	**03155**10002200	
24	260	200	**15/16**	10	8	1	**03155**2602400	
24	460	400	**15/16**	18	16	1	**03155**4602400	
25	260	200	**1**	10	8	1	**03155**2602500	
25	460	400	**1**	18	16	1	**03155**4602500	
25	1000	950	**1**	40	38	1	**03155**10002500	
26	460	400	**1-1/32**	18	16	1	**03155**4602600	
28	460	400	**1-1/8**	18	16	1	**03155**4602800	
30	460	400	**1-3/16**	18	16	1	**03155**4603000	



Per punte con L ≥ 300 mm si raccomanda un preforo con punte di lunghezza inferiore (200÷150 mm).

For drills with L ≥ 300 mm, pre-drilling with shorter drill bits (200÷150 mm) is recommended.

VISIONE D'INSIEME: ASSORTIMENTI PUNTE PER MURO CON ATTACCO SDS-PLUS

EN *Overview: Masonry drills with SDS-PLUS shank assortments*
FR *Aperçu: Jeux forets de maçonnerie avec queue SDS-PLUS*
ESP *Visión general: Surtido de brocas para hormigon con vástago SDS-PLUS*
PT *Visão geral: Brocas para alvenaria com veio SDS-PLUS sortidas*

			N° PCS.	4		5		7		7	
			COMPOSIZIONE *Composition*	Ø 6 - 115 mm Ø 6 - 8 - 10 x 165 mm		Ø 5 - 6 x 115 mm Ø 8 - 10 - 12 x 165 mm		Ø 5 - 6 - 8 x 110 mm Ø 6 - 8 - 10 - 12 x 160 mm		Ø 5 - 6 - 8 x 115 mm Ø 6 - 8 - 10 - 12 x 165 mm	
N° TAGLIENTI *N° cutting edges*	CODICE FAMIGLIA *Code*	IMMAGINE *Image*									
				cod.	€*	cod.	€*	cod.	€*	cod.	€*
	03169	HAMMER SDS PLUS		03174**0001**		03174**203**				03174**403**	
	03167	4x4 Speedmaster		03168**0001**		03168**203**				03168**402**	
	03152	SDS FULL CARB		03164**0001**		03164**203**				03164**402**	
	03156	K-8		03166**0001**		03166**203**		03166**401**			
	03162	K-4		03161**0001**		03161**203**				03161**301**	
	03155			03165**0001**		03165**203**		03165**401**			

30	
6 - 8 - 10 - 12 x 160 (5) 10x210 (x5) 12x210 (x3) 14x210 (x2)	VEDI DETTAGLIO COMPOSIZIONE *see composition detail*





cod.	€*	cod.	€*
03174460		**03174**503	
03168460		**03168**503	
		03168500	
03164460		**03164**501	
		03164503	
03166460		**03166**503	
03161460		**03161**503	
03165460		**03165**503	

*CONSULTARE LISTINO
see price list



	HAMMER 03169	4x4 Speedmaster 03167	SDS PLUS CARB 03152	EK-8 03156	EK-4 03162	03155
COD ART.	03174503	03168503	03168500	03164501	03164503	03166503	03161503	03165503
Ø	PCS.	PCS.	PCS.	PCS.	PCS.	PCS.	PCS.	PCS.
5x110	3	3	4	5		5	3	3
6x110	8	8	6	10	8	10	8	8
8x110					5			
5x160	3	3		5		5	3	3
6x160	8	8	6	10	8	10	8	8
8x160	8	8	6	10	8	10	8	8
9x160							3	3
10x160	5	5	4	6	8	10	5	5
12x160	5	5	4	5	5	10	5	5
6x210	4	4		5	5	5	4	4
8x210	4	4	4	4	8	5	4	4
10x210	3	3	2	3	5	5	3	3
12x210	3	3	2	3	5	5	3	3
14x210	2	2	2	2		5	2	2
16x210	2	2	2	2		3	2	2
8x260	2	2		2	5	5	2	2
10x260	2	2		2	5	5	2	2
12x260	2	2		2	5	3	2	2
14x260	2	2	2	2		3	2	2
16x260	2	2	2	2		3	2	2
8x315					3			
10x315					3			
Set 6-8-10x165					2			
TOT. PCS.	68	68	46	80	88	107	71	71



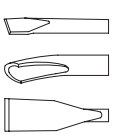
Art. 03165310

13 pcs
Ø 6÷14 mm

Composizione
Description



Ø mm	pcs.
6x160	1
8x160	1
10x160	1
8x210	1
10x210	1
12x210	1
10x260	1
12x260	1
14x260	1



Ø mm	pcs.
L=250	1
L=250	1
L=250	1
L=250	1

PUNTE PER MURO CON ATTACCO SDS-MAX

EN *Masonry drills with SDS-MAX shank*
FR *Forets de maçonnerie avec queue SDS-MAX*
ESP *Broca para hormigon con vástago SDS-MAX*
PT *Brocas para alvenaria com veio SDS-MAX*

HAMMER SDS MAX

03175

TESTA INTEGRALE IN METALLO DURO - 4 TAGLIENTI - 4 ELICHE

Full carbide head - 4 cutting edges - 4 flutes

MADE IN GERMANY

SDS max



Confezione
Packaging



ELICHE PROGRESSIVE 4÷2
Progressive Flutes 4÷2



Saldatura per diffusione elettronica, 3 volte più resistente della saldobrasatura

Electronic diffusion bond, 3 times more resistant than brazing

Ø 12÷32 mm:
Testa integrale MD
Full MD head

Ø 35÷45 mm:
4 taglienti
4 cutting edges

Ø mm	L mm	/ mm	pcs.	cod.	cad each €
12	340	200	1	**03175**3401200	consultare listino
12	540	400	1	**03175**5401200	*see price list*
12	740	600	1	**03175**7401200	
14	340	200	1	**03175**3401400	
14	540	400	1	**03175**5401400	
14	740	600	1	**03175**7401400	
14	940	800	1	**03175**9401400	
16	340	200	1	**03175**3401600	
16	540	400	1	**03175**5401600	
16	740	600	1	**03175**7401600	
16	940	800	1	**03175**9401600	
18	340	200	1	**03175**3401800	
18	540	400	1	**03175**5401800	
18	740	600	1	**03175**7401800	
18	940	800	1	**03175**9401800	
20	320	200	1	**03175**3202000	
20	520	400	1	**03175**5202000	
20	720	600	1	**03175**7202000	
20	920	800	1	**03175**9202000	
22	320	200	1	**03175**3202200	
22	520	400	1	**03175**5202200	
22	720	600	1	**03175**7202200	
22	920	800	1	**03175**9202200	
24	320	200	1	**03175**3202400	
24	520	400	1	**03175**5202400	
25	320	200	1	**03175**3202500	
25	520	400	1	**03175**5202500	
25	720	600	1	**03175**7202500	
25	920	800	1	**03175**9202500	
26	520	400	1	**03175**5202600	
28	320	200	1	**03175**3202800	
28	520	400	1	**03175**5202800	
28	720	600	1	**03175**7202800	
28	920	800	1	**03175**9202800	
30	320	200	1	**03175**3203000	
30	520	400	1	**03175**5203000	
32	320	200	1	**03175**3203200	
32	520	400	1	**03175**5203200	
32	720	600	1	**03175**7203200	
32	920	800	1	**03175**9203200	
***35**	520	400	1	**03175**5203500	
***35**	720	600	1	**03175**7203500	
***35**	920	800	1	**03175**9203500	
***37**	570	450	1	**03175**5703700	
***37**	920	800	1	**03175**9203700	
***38**	520	400	1	**03175**5203800	
***40**	520	400	1	**03175**5204000	
***40**	720	600	1	**03175**7204000	
***40**	920	800	1	**03175**9204000	
***45**	520	400	1	**03175**5204500	

* 4 taglienti / *4 cutting edges*

Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

TESTA INTEGRALE IN METALLO DURO
Tutti i diametri della gamma hanno la testa integrale in metallo duro, massime performance e massima resistenza (mettere "tutti i diametri" in grassetto

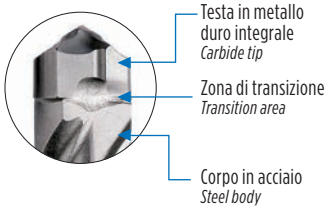
NUOVO DESIGN 4÷2 ELICHE
Le 4 eliche assicurano massima velocità nella rimozione della polvere e un ottimo supporto ai 4 taglienti.

Le 2 eliche aumentano la capacità di asportazione grazie al maggior volume disponibile e riducono l'attrito, migliorando l'efficienza dell'utensile.

SOLID CARBIDE HEAD
All diameters in the range feature a solid carbide head, ensuring maximum performance and outstanding durability.

NEW 4-FLUTE / 2-FLUTE DESIGN
The 4 flutes provide maximum dust evacuation speed and optimal support for the four cutting edges.

The 2 flutes increase debris removal capacity thanks to the larger available flute volume and reduce friction, enhancing overall drilling efficiency.



PUNTE PER MURO CON ATTACCO SDS-MAX

EN *Masonry drills with SDS-MAX shank*
FR *Forets de maçonnerie avec queue SDS-MAX*
ESP *Broca para hormigon con vástago SDS-MAX*
PT *Brocas para alvenaria com veio SDS-MAX*

V-MAX MM

03177

4 TAGLIENTI - 4 ELICHE - mm

4 cutting edges - 4 flutes - mm

SDS MAX



Confezione
Packaging

Ø mm	L mm	l mm	pcs.	cod.	cad each €
12	340	200	1	**03177**3401200	consultare listino
12	540	400	1	**03177**5401200	*see price list*
12	740	600	1	**03177**7401200	
14	340	200	1	**03177**3401400	
14	540	400	1	**03177**5401400	
15	540	400	1	**03177**5401500	
16	340	200	1	**03177**3401600	
16	540	400	1	**03177**5401600	
16	940	800	1	**03177**9401600	
16	1320	1200	1	**03177**13201600	
18	340	200	1	**03177**3401800	
18	540	400	1	**03177**5401800	
18	940	800	1	**03177**9401800	
18	1320	1200	1	**03177**13201800	
20	320	200	1	**03177**3202000	
20	520	400	1	**03177**5202000	
20	920	800	1	**03177**9202000	
20	1320	1200	1	**03177**13202000	
22	320	200	1	**03177**3202200	
22	520	400	1	**03177**5202200	
22	920	800	1	**03177**9202200	
22	1320	1200	1	**03177**13202200	
24	320	200	1	**03177**3202400	
24	520	400	1	**03177**5202400	
25	320	200	1	**03177**3202500	
25	520	400	1	**03177**5202500	
25	920	800	1	**03177**9202500	
25	1320	1200	1	**03177**13202500	
26	520	400	1	**03177**5202600	
28	320	200	1	**03177**3202800	
28	520	400	1	**03177**5202800	
28	920	800	1	**03177**9202800	
28	1320	1200	1	**03177**13202800	
30	320	200	1	**03177**3203000	
30	520	400	1	**03177**5203000	
32	320	200	1	**03177**3203200	
32	520	400	1	**03177**5203200	
32	920	800	1	**03177**9203200	
32	1320	1200	1	**03177**13203200	
35	370	250	1	**03177**3703500	
35	520	400	1	**03177**5203500	
35	920	800	1	**03177**9203500	
38	520	400	1	**03177**5203800	
40	520	400	1	**03177**5204000	
40	920	800	1	**03177**9204000	
40	1320	1200	1	**03177**13204000	
45	520	400	1	**03177**5204500	
50	570	450	1	**03177**5705000	
52	570	450	1	**03177**5705200	



Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

MASSIMA VELOCITÀ DI FORATURA
La speciale geometria della testa, combinata con il design a 2 eliche, garantisce forature estremamente rapide e una rimozione efficace dei detriti, per prestazioni elevate in ogni applicazione.

MASSIMA DURATA
L'esclusivo processo di saldatura sottovuoto ad alta temperatura delle placchette in metallo duro assicura un'eccezionale resistenza all'usura e una lunga durata operativa, anche nelle condizioni di lavoro più impegnative.

MAXIMUM DRILLING SPEED
The special head geometry, combined with the twin-helix design, ensures extremely fast drilling and effective debris removal, delivering high performance in every application.

MAXIMUM DURABILITY
The exclusive high-temperature vacuum welding process used for the carbide inserts ensures exceptional wear resistance and a long service life, even under the most demanding operating conditions.

PUNTE PER MURO CON ATTACCO SDS-MAX

EN *Masonry drills with SDS-MAX shank*
FR *Forets de maçonnerie avec queue SDS-MAX*
ESP *Broca para hormigon con vástago SDS-MAX*
PT *Brocas para alvenaria com veio SDS-MAX*

V-MAX IN

03178

4 TAGLIENTI - 4 ELICHE - POLLICI

4 cutting edges - 4 flutes - pulgadas

SDS MAX





Confezione
Packaging

Ø inches	L inches	l inches	pcs.	cod.	cad each €
3/8	13	8	1	**03178**130308	consultare listino
1/2	13	8	1	**03178**130102	*see price list*
1/2	21	16	1	**03178**210102	
1/2	28	24	1	**03178**280102	
9/16	13	8	1	**03178**130916	
9/16	21	16	1	**03178**210916	
5/8	13	8	1	**03178**130508	
5/8	21	16	1	**03178**210508	
5/8	29	24	1	**03178**290508	
5/8	36	31	1	**03178**360508	
11/16	21	16	1	**03178**211116	
3/4	13	8	1	**03178**130304	
3/4	21	16	1	**03178**210304	
3/4	29	24	1	**03178**290304	
3/4	36	31	1	**03178**360304	
13/16	21	17	1	**03178**211316	
27/32	21	17	1	**03178**212732	
7/8	13	8	1	**03178**130708	
7/8	21	17	1	**03178**210708	
7/8	29	24	1	**03178**290708	
7/8	36	31	1	**03178**360708	
1	13	8	1	**03178**130100	
1	21	17	1	**03178**210100	
1	29	24	1	**03178**290100	
1	36	31	1	**03178**360100	
1-1/8	13	8	1	**03178**13010108	
1-1/8	21	17	1	**03178**21010108	
1-1/8	36	31	1	**03178**36010108	
1-1/4	15	10	1	**03178**15010104	
1-1/4	23	18	1	**03178**23010104	
1-1/4	36	31	1	**03178**36010104	
1-3/8	23	18	1	**03178**23010308	
1-7/16	23	18	1	**03178**23010716	
1-1/2	23	18	1	**03178**23010102	
1-3/4	23	18	1	**03178**23010304	
2	23	18	1	**03178**230200	



Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

MASSIMA VELOCITÀ DI FORATURA
La speciale geometria della testa, combinata con il design a 2 eliche, garantisce forature estremamente rapide e una rimozione efficace dei detriti, per prestazioni elevate in ogni applicazione.

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PUNTE PER MURO CON ATTACCO SDS-MAX

EN *Masonry drills with SDS-MAX shank*
FR *Forets de maçonnerie avec queue SDS-MAX*
ESP *Broca para hormigon con vástago SDS-MAX*
PT *Brocas para alvenaria com veio SDS-MAX*

03171

MADE IN GERMANY

SDS max



Confezione
Packaging



Calcestruzzo
Concrete

Muro
Masonry

Pietre
Natural stones

SPECIALE GRANDI DIAMETRI

Big diameters

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs.	cod.	cad each €
40	550	100	**1-1/2**	21-5/8	4	1	**03171**5504000	consultare listino
45	550	100	**1-3/4**	21-5/8	4	1	**03171**5504500	*see price list*
45	990	100	**1-3/4**	39	4	1	**03171**9904500	
55	550	100	**2-1/8**	21-5/8	4	1	**03171**5505500	
55	990	100	**2-1/8**	39	4	1	**03171**9905500	
65	550	100	**2-1/2**	21-5/8	4	1	**03171**5506500	
65	990	100	**2-1/2**	39	4	1	**03171**9906500	
80	550	100	**3-1/8**	21-5/8	4	1	**03171**5508000	
80	990	100	**3-1/8**	39	4	1	**03171**9908000	

Adatta per la foratura di grandi dimensioni (Ø 45÷80 mm) con martelli SDS-MAX in cemento, muratura, arenaria.
Speciale per forature passanti per il passaggio di cavi e tubature.

Useful for drilling into large diameters (Ø 45÷80 mm) with SDS-MAX hammer tools into concrete, masonry, sandstone.
Special for breakthrough cuts for cables and pipes.

ADATTATORE A CAMBIO RAPIDO SDS-MAX / SDS-PLUS

EN *SDS-MAX / SDS-PLUS adapter*
FR *Adaptateurs pour meches SDS-MAX / SDS-PLUS*
ESP *Adaptatores con salida SDS-MAX / SDS-PLUS*
PT *SDS-MAX / SDS-PLUS adaptador*

03184

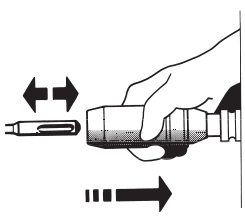
SDS-PLUS





SDS-MAX





L mm	cod.	cad each €
220	**03184**101	consultare listino *see price list*

PUNTE PER MURO CON ATTACCO SDS-MAX - SPECIALE PER MINIERA

EN *Masonry drills with SDS-MAX shank - Special for mining*
FR *Forets de maçonnerie avec queue SDS-MAX - Spécifiques aux mines*
ESP *Broca para hormigon con vástago SDS-MAX - Especiales para la minería*
PT *Brocas para alvenaria com veio SDS-MAX - Especiais para mineração*





TESTA con placchetta in metallo duro a 6 taglienti.

PLACCHETTA in carburo di tungsteno ad alta resistenza.

TECNOLOGIA DI SALDATURA DELLA PLACCHETTA:
- **03185 PIETRA DURA**: saldatura a induzione **sottovuoto**.
- **03186 PIETRA STANDARD**: saldatura a induzione.

ELICHE ad ampio volume per la rapida evacuazione del materiale e un foro sempre pulito.

EN
- ***6-cutter*** *solid carbide tip.*
- *High-strength* ***tungsten carbide tip****.*
- ***Carbide tip brazing technology****:*
  - ***MIN1 Hard Rock****: vacuum induction brazing.*
  - ***MIN2 Standard Rock****: induction brazing.*
- *Wide flutes for rapid debris evacuation and consistently clean holes.*

FR
- *Tête avec plaquette en carbure à* ***6 arêtes de coupe****.*
- ***Plaquette en carbure de tungstène*** *à haute résistance.*
- ***Technologie de brasage de la plaquette :***
  - ***MIN1 Pierre dure*** *: brasage par induction sous vide.*
  - ***MIN2 Pierre standard*** *: brasage par induction.*
- *Goujures larges pour une évacuation rapide des débris et un perçage toujours propre.*

ESP
- *Cabeza con plaquita de carburo de* ***6 filos de corte.***
- ***Plaquita de carburo de tungsteno*** *de alta resistencia.*
- ***Tecnología de soldadura de la plaquita:***
  - ***MIN1 Piedra Dura****: soldadura por inducción al vacío.*
  - ***MIN2 Piedra Estándar****: soldadura por inducción.*
- *Espirales de gran volumen para una rápida evacuación del material y perforaciones siempre limpias.*

PT
- *Cabeça com pastilha de metal duro de* ***6 arestas de corte****.*
- ***Pastilha de carboneto de tungsténio*** *de alta resistência.*
- ***Tecnologia de soldagem da pastilha:***
  - ***MIN1 Rocha Dura****: soldagem por indução a vácuo.*
  - ***MIN2 Rocha Padrão****: soldagem por indução.*
- *Hélices de grande volume para uma rápida evacuação do material e furos sempre limpos.*



PIETRA DURA

IDEALE PER PIETRA DURA E ABRASIVA, ROCCE COMPATTE E ALTAMENTE RESISTENTI.
MASSIMA RESISTENZA ALL'USURA PER PRESTAZIONI ELEVATE E COSTANTI.

EN ***HARD STONE*** *Ideal for hard, abrasive stone and compact, highly resistant rocks. Maximum wear resistance for high and consistent performance.*
FRA ***PIERRE DURE*** *Idéale pour la pierre dure et abrasive, les roches compactes et très résistantes. Résistance maximale à l'usure pour des performances élevées et constantes.*
ESP ***PIEDRA DURA*** *Ideal para piedras duras y abrasivas, así como para rocas compactas y muy resistentes. Máxima resistencia al desgaste para un rendimiento elevado y constante.*
PT ***PEDRA DURA*** *ideal para pedras duras e abrasivas, rochas compactas e altamente resistentes. Máxima resistência ao desgaste para um desempenho elevado e constante.*





SDS max

03175

Riferimento punta
Drill bit reference
P. 506

Ø mm	L mm	l mm	cod.	cad/each €
28	320	200	**03175**3202800	consultare listino
28	520	400	**03175**5202800	*see price list*
28	720	600	**03175**7202800	
28	920	800	**03175**9202800	
32	320	200	**03175**3203200	
32	520	400	**03175**5203200	
32	720	600	**03175**7203200	
32	920	800	**03175**9203200	





SDS MAX

Granito *Granite*
Basalto *Basalt*
Quarzite *Quartzite*
Gneiss *Gneiss*
Diorite *Diorite*
Granodiorite *Granodiorite*
Porfido *Porphyry*
Andesite *Andesite*

03185

Ø mm	L mm	l mm	cod.	Listino
28	540	400	**03185**5402800	consultare listino
28	690	550	**03185**6902800	*see price list*
28	920	800	**03185**9202800	
32	570	400	**03185**5703200	
32	680	580	**03185**6803200	
32	920	800	**03185**9203200	
32	1300	1200	**03185**13003200	
32	1500	1380	**03185**15003200	



PIETRA STANDARD

IDEALE PER PIETRA TENERA E MEDIA
AFFIDABILE E VERSATILE PER APPLICAZIONI GENERALI IN PIETRA.

EN ***STANDARD STONE*** *Ideal for soft and medium-hard stone reliable and versatile for general stone applications..*
FRA ***PIERRE STANDARD*** *Idéale pour les pierres tendres et moyennes. fiable et polyvalente pour les applications générales sur la pierre.*
ESP ***PIEDRA ESTÁNDAR*** *Ideal para piedra blanda y de dureza media. fiable y versátil para aplicaciones generales en piedra.*
PT ***PEDRA PADRÃO*** *Ideal para pedras de dureza baixa e média. confiável e versátil para aplicações gerais em pedra.*





SDS MAX

03177

Riferimento punta
Drill bit reference
P. 507

Ø mm	L mm	l mm	cod.	Listino
28	320	200	**03177**3202800	consultare listino
28	520	400	**03177**5202800	*see price list*
28	920	800	**03177**9202800	
28	1320	1200	**03177**13202800	
32	320	200	**03177**3203200	
32	520	400	**03177**5203200	
32	920	800	**03177**9203200	
32	1320	1200	**03177**13203200	





SDS MAX

Calcare *Limestone*
Arenaria *Sandstone*
Dolomia *Dolomite*
Marna *Marl*
Scisto *Schist*
Ardesia *Slate*

03186

Ø mm	L mm	l mm	cod.	Listino
28	540	400	**03186**5402800	consultare listino
28	690	550	**03186**6902800	*see price list*
28	920	800	**03186**9202800	
32	570	400	**03186**5703200	
32	680	580	**03186**6803200	
32	920	800	**03186**9203200	

PUNTE "DUST FREE" CON SISTEMA DI ASPIRAZIONE DELLA POLVERE

EN *Special drill bits with dust suction system*
FR *Forets avec technologie de dépoussiérage*
ESP *Brocas con tecnologia de eliminacion de polvo*
PT *Brocas especiais com sistema de aspiração de pó*

03172

ATTACCO SDS-PLUS
SDS-PLUS shank

SDS plus

MADE IN GERMANY

Calcestruzzo *Concrete*

Muro *Masonry*

Pietre *Natural stones*





Confezione *Packaging*

Ø mm	L mm	l mm	pcs.	cod.	cad each €
12	330	200	1	**03172**3301200	consultare listino
14	360	240	1	**03172**3601400	*see price list*
16	360	240	1	**03172**3601600	
18	360	240	1	**03172**3601800	



ADATTATORI PER PUNTE "DUST FREE"
"DUST FREE" Connector to the dust aspirator

Art. 03172ADATTSDS



ADATTATORI PER PUNTE "DUST FREE"
"DUST FREE" Connector to the dust aspirator

Art. 03172ADATTMAX

03172

ATTACCO SDS-MAX
SDS-MAX shank

SDS max

MADE IN GERMANY

Calcestruzzo *Concrete*

Muro *Masonry*

Pietre *Natural stones*





Confezione *Packaging*

Ø mm	L mm	l mm	pcs.	cod.	cad each €
16	600	400	1	**03172**6001600	consultare listino
18	600	400	1	**03172**6001800	*see price list*
20	600	400	1	**03172**6002000	
22	600	400	1	**03172**6002200	
24	600	400	1	**03172**6002400	
25	600	400	1	**03172**6002500	
28	600	400	1	**03172**6002800	
28	900	700	1	**03172**9002800	
30	600	400	1	**03172**6003000	
30	900	700	1	**03172**9003000	
32	600	400	1	**03172**6003200	
32	900	700	1	**03172**9003200	
35	600	400	1	**03172**6003500	
35	900	700	1	**03172**9003500	

CARATTERISTICHE

- Ideale per effettuare fori nel cemento armato per i quali sia previsto l'inserimento di ancorante chimico, evita la lunga e laboriosa procedura di pulizia del foro garantendo un risultato ottimale (Avvertenza: per la sistemazione di tasselli, attenersi comunque sempre alle indicazioni del produttore dei tasselli stessi)
- Riduce la dispersione di polveri nell'ambiente di lavoro
- Permette una foratura più veloce ed efficiente grazie all'immediata rimozione del materiale di scarto che nelle punte tradizionali si interpone tra i taglienti e la superficie da forare
- Compatibile con qualsiasi aspiratore reperibile sul mercato (si raccomanda l'utilizzo di aspiratori in classe M per una più efficace riduzione delle polveri nell'ambiente di lavoro)
- La speciale forma della testa a quattro taglienti (per diametri ≤ 28mm) o a 2 taglienti con grandi fori di aspirazione (per diametri ≥ 28mm) evita l'inceppamento della punta anche nei lavori più gravosi di foratura del cemento armato.
- La speciale forma del gambo delle punte con diametro > 28 agevola la centratura del foro e ne migliora la maneggevolezza.

Features

- *Ideal to work in to reinforced concrete for which the insertion of a chemical anchor is foreseen, this technology avoids the long and laborious cleaning procedure of the hole guaranteeing an optimal and faster result. (Warning: for the installation of dowels, always follow the manufacturer's instructions dowels themselves).*
- *It reduces the dispersion of dust in the working environment.*
- *It allows a faster and more efficient drilling due to the immediate removal of the debris which normally interposes between the cutting edges of the drill and the surface to be worked.*
- *Compatible with any vacuum cleaner available on the market (the use of class M vacuum cleaners is recommended for a more effective reduction of dust in the workplace)*
- *The head with 4 cutting edges (2 cutting edges for measures ≤ 28mm) avoids the jamming of the tip even in the most difficult jobs of drilling reinforced concrete.*
- *The special shape of the shank of the drills with a diameter> 28 facilitates the centering of the hole and improves its handling.*



COMPATIBILI CON QUALSIASI ASPIRATORE

la polvere viene incanalata nei fori e raccolta in un aspiratore collegato mediante l'adattatore in dotazione.

Compatible with any vacuum
dust is channeled into the holes and collected in a vacuum cleaner connected via the adapter provided.

PUNTE SDS-PLUS CON ARRESTO DI PROFONDITÀ PER TASSELLI

EN *SDS-PLUS depth stop drill bits for anchors*
FR *Forets SDS-PLUS à butée de profondeur pour chevilles*
ESP *Brocas SDS-PLUS con tope de profundidad para tacos*
PT *Brocas SDS-PLUS com limitador de profundidade para buchas*

03153



Confezione
Packaging

Ø inches	L inches	anello stop / inches	Ø mm	L mm	anello stop / mm	pcs.	cod.	cad each €
3/8	4	1-1/16	13/16	**10**	102	27	21	1	**03153**400380	consultare
1/2	4	13/16	13/16	**13**	102	21	21	1	**03153**400120	listino
1/2	5	1-11/16	13/16	**13**	127	43	21	1	**03153**500120	*see price list*
5/8	5	1-1/16	1-1/8	**16**	127	27	28	1	**03153**500580	
5/8	6	2-1/16	1-1/8	**16**	152	52	28	1	**03153**600580	

ACCESSORI ***accessories***

	L inches	L mm	cod.	cad / each €
Punzone per tasselli per fori 3/8" - 1/2" *Punzone per tasselli per fori 3/8" - 1/2"*	**3**	**75**	**03153**001	consultare listino
Punzone per tasselli per fori 5/8" *Punzone per tasselli per fori 5/8"*	**3-3/8**	**85**	**03153**002	*see price list*



La speciale testa a 4 taglienti con placchetta in metallo duro a croce, unita al collare di arresto integrato, garantisce fori perfettamente calibrati e una profondità di foratura costante e ripetibile.

La punta di centraggio e la geometria aggressiva dei taglienti assicurano un avvio preciso, una foratura rapida e un'elevata durata anche su calcestruzzo armato, rendendo l'utensile ideale per installazioni professionali di tasselli.

The special 4-cutter head with cross-shaped carbide tip, combined with the integrated depth stop collar, ensures perfectly sized holes and constant, repeatable drilling depth.

The centering tip and aggressive cutting geometry provide accurate hole starting, fast drilling and extended service life, even in reinforced concrete, making the drill bit ideal for professional anchor installations.

Calcestruzzo armato
Reinforced concrete

Calcestruzzo
Concrete

Pietre
Natural stones

Muro
Masonry

SCALPELLI DI QUALITÀ PREMIUM PER MARTELLI DEMOLITORI SDS-PLUS

EN *Premium quality chisels for SDS-PLUS hammers*
FR *Burins et pics pour marteaux perforateurs*
ESP *Cincels para martillos*
PT *Cinzéis de qualidade superior para martelos SDS-PLUS*

03221

SDS plus

MADE IN ITALY



Confezione
Packaging

QUALITÀ PREMIUM - AUTOAFFILANTI

Premium quality - self sharpening

Scalpelli a punta ***Pointed chisels***	L mm	Ø mm	cod.	cad each €
	250	14	**03221**02250	consultare listino *see price list*

Scalpelli piatti ***Flat cold chisels***	l mm	L mm	Ø mm	cod.	cad each €
	20	250	14	**03221**06020250	consultare listino *see price list*
	40	250	14	**03221**03040250*	

*Fino esaurimento scorte / *while stocks last*

03220

SDS plus

MADE IN ITALY

ALTA QUALITÀ

High performance

Scalpelli a punta ***Pointed chisels***	L mm	Ø mm	cod.	cad each €
	250	14	**03220**02250	consultare listino *see price list*

Scalpelli piatti ***Flat cold chisels***	l mm	L mm	Ø mm	cod.	cad each €
	20	250	14	**03220**01020250	consultare listino *see price list*

Scalpelli piatti larghi ***Spade chisels***	l mm	L mm	Ø mm	cod.	cad each €
	40	250	14	**03220**03040250	consultare listino *see price list*
 25°	40	260	14	**03220**03040260	



Art. 03281100

3 pcs

Composizione
Description

- 250
- 20x250
- 40x250

Scalpelli a sgorbia ***Grooving chisels***	l mm	L mm	Ø mm	cod.	cad each €
	22	250	14	**03220**04022250	
	22	250	16	**03220**05022250	

SCALPELLI DI QUALITÀ STANDARD PER MARTELLI DEMOLITORI SDS-PLUS

EN *Standard quality chisels for SDS-PLUS hammers*
FR *Burins et pics pour marteaux perforateurs*
ESP *Cincels para martillos*
PT *Cinzéis de qualidade standard para martelos SDS-PLUS*

03222

QUALITÀ STANDARD
Standard quality

SDS PLUS

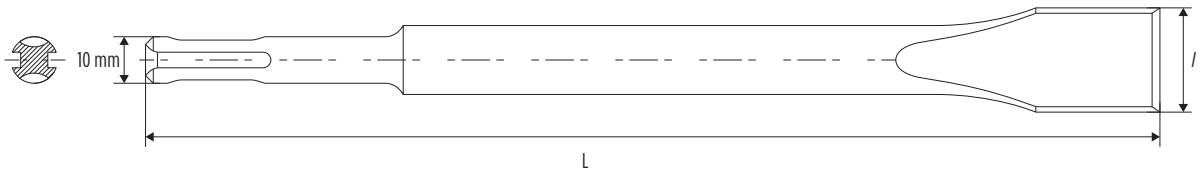
Scalpelli a punta *Pointed chisels*	L mm	Ø mm	cod.	cad each €
	250	14	**03222**02250	consultare listino *see price list*

Scalpelli piatti *Flat cold chisels*	*l* mm	L mm	Ø mm	cod.	cad each €
	20	250	14	**03222**01020250	consultare listino *see price list*

Scalpelli piatti larghi *Spade chisels*	*l* mm	L mm	Ø mm	cod.	cad each €
	40	250	14	**03222**03040250	consultare listino *see price list*
 25°	75	160	14	**03222**0775160	
 25°	40	250	14	**03222**0740250	



Art. 03281120
3 pcs
Composizione
Description
250
20x250
40x250



BATTIPALI

EN *Post driver*
ESP *Impulsor de varilla de tierra*
FR *Enfonce-piquets*
PT *Cravador de estacas*

03223

SDS PLUS





Ø palo *Ø palo* mm	L mm	Ø palo *Ø palo* inches	L inches	pcs.	cod.	cad each €
16	172	**5/8**	6-3/4	1	**03223**16172	consultare
20	172	**3/4**	6-3/4	1	**03223**20172	listino *see price list*

SCALPELLI DI ALTA QUALITÀ PER MARTELLI DEMOLITORI SDS-MAX

EN *High quality chisels for SDS-MAX hammers*
FR *Ciseaux de haute qualité pour les marteaux SDS-MAX*
ESP *Cincels para martillos*
PT *Cinzéis de alta qualidade para martelos SDS-MAX*

03210

ALTA QUALITÀ
High performance

SDS max

MADE IN ITALY

Scalpelli a punta
Pointed chisels



L mm	Ø mm	cod.	cad each €
280	18	**03210**02280	consultare
400	18	**03210**02400	listino
600	18	**03210**02600	*see price list*

Scalpelli piatti
Flat cold chisels



	L mm	Ø mm	cod.	cad each €
27	280	18	**03210**01027280	consultare
27	400	18	**03210**01027400	listino
27	600	18	**03210**01027600	*see price list*

Scalpelli piatti larghi
Spade chisels



	L mm	Ø mm	cod.	cad each €
50	400	18	**03210**03050400	consultare
80	300	18	**03210**03080300	listino
115	350	22	**03210**03115350	*see price list*



10°

50	300	18	**03210**03050300



38	280	18	**03210**05038280



38	280	18	**03210**06038280

Scalpelli a sgorbia
Grooving chisels



L mm	Ø mm	cod.	cad each €
26	300	18	**03210**04026300	consultare listino
32	300	18	**03210**04032300*	*see price list*

*Fino esaurimento scorte / *while stocks last*



35	380	23	**03210**07035380

SCALPELLI DI QUALITÀ STANDARD PER MARTELLI DEMOLITORI SDS-MAX

EN *Standard quality chisels for SDS-MAX hammers*
FR *Ciseaux de qualité standard pour les marteaux SDS-MAX*
ESP *Cincels para martillos*
PT *Cinzéis de qualidade standard para martelos SDS-MAX*

03212

QUALITÀ STANDARD
Standard quality

SDS MAX

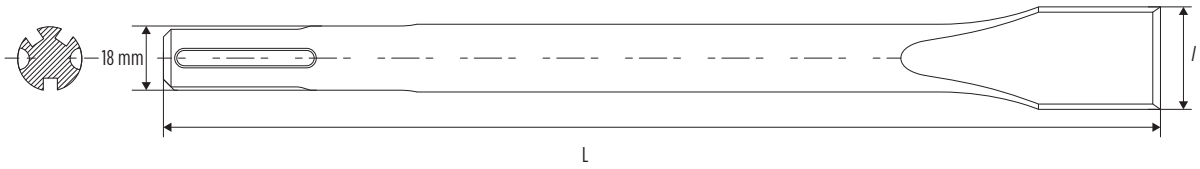
Scalpelli a punta *Pointed chisels*	L mm	Ø mm	cod.	cad each €
	280	18	**03212**02280	consultare listino
	400	18	**03212**02400	*see price list*
	600	18	**03212**02600	

Scalpelli piatti *Flat cold chisels*		L mm	Ø mm	cod.	cad each €
	25	280	18	**03212**01025280	consultare listino
	25	400	18	**03212**01025400	*see price list*
	25	600	18	**03212**01025600	



Art. 03281121
3 pcs
Composizione
Description
- 400
- 25x400
- 50x400

Scalpelli piatti larghi *Spade chisels*		L mm	Ø mm	cod.	cad each €
	50	400	18	**03212**03050400	consultare listino
	75	300	18	**03212**03075300	*see price list*



BATTIPALI

EN *Post driver*
ESP *Impulsor de varilla de tierra*
FR *Enfonce-piquets*
PT *Cravador de estacas*

03213

SDS MAX





Ø palo *Ø palo* mm	L mm	Ø palo *Ø palo* inches	L inches	pcs.	cod.	cad each €
16	250	**5/8**	10	1	**03213**16250	consultare
20	250	**3/4**	10	1	**03213**20250	listino

see price list

CORONE PERFORATRICI PER EDILIZIA CON FILETTO A MOLLA PER MARTELLI PESANTI SDS-MAX

EN *Hammer core bits with taper chucking*
FR *Trépans marteau pour béton avec filet à ressort pour marteaux SDS-MAX*
ESP *Coronas perforadoras para martillo SDS-MAX con rosca e resorte de acoplamiento*
PT *Brocas de martelo com mandril cónico*

21122

ATTACCO FILETTATO CON MOLLA - USO INTENSIVO

With spring thread - Intensive use

SDS MAX





Confezione
Packaging



Ø mm corona *core bit*	L mm	Z n° denti *tips*	pcs.	cod.	cad each €
***40**	100	5	1	**21122**04000	consultare listino *see price list*
50	100	6	1	**21122**05000	
60	100	6	1	**21122**06000	
66	100	7	1	**21122**06600	
***70**	100	8	1	**21122**07000	
80	100	8	1	**21122**08000	
90	100	8	1	**21122**09000	
100	100	10	1	**21122**10000	
110	100	12	1	**21122**11000	
125	100	12	1	**21122**12500	
150	100	14	1	**21122**15000	

*In esaurimento
**Running out*

ASTA PORTA CORONA SDS-MAX CON MOLLA
Shank SDS-MAX with spring



L mm	cod.	cad/each €
250	**21130**300	consultare listino *see price list*
450	**21130**305	
600	**21130**310	

MOLLA DI ACCOPPIAMENTO
Coupling spring



cod.	cad/each €
21130316	consultare listino *see price list*

PUNTA PILOTA
Pilot drill



Ø mm	cod.	cad/each €
12x135	**21130**315	consultare listino *see price list*

ESTRATTORE PER PUNTE PILOTA
Drill drift



Ø x L mm	cod.	cad/each €
9,5x100	**21130**317	consultare listino *see price list*

ESPOSITORE CORONE PERFORATRICI PER EDILIZIA CON FILETTO A MOLLA
Hammer core bits with spring thread set



Art. 21116117

29 pcs
Ø 40÷100 mm
Composizione
Description

	Ø 40-50-60-66 80-90-100 (1x)
	21130300 (3x) 21130305 (3x)
	21130315 (6x)
	21130316 (10x)

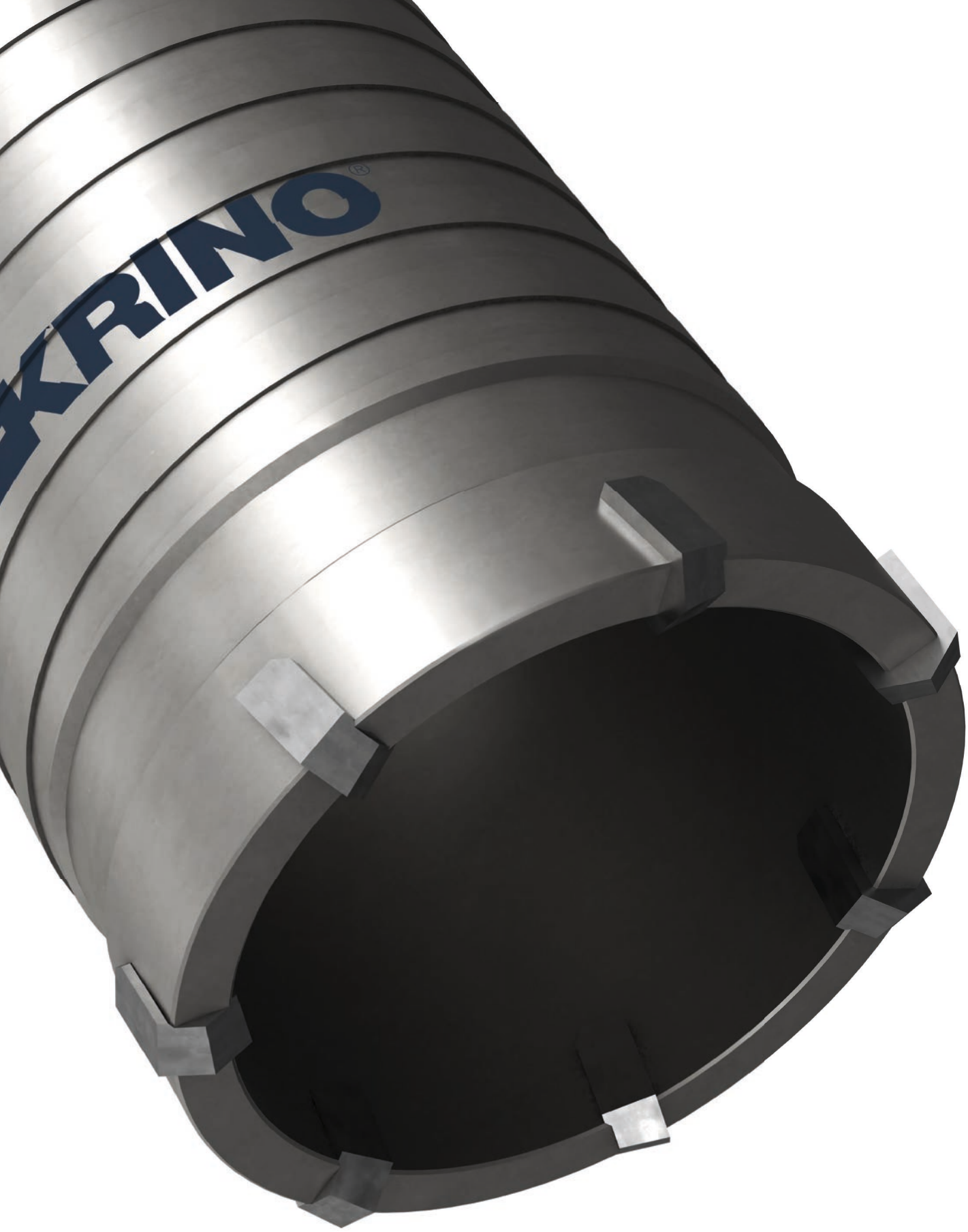
Grandi rendimenti nel calcestruzzo, muro, pietre calcaree.
Uso rotopercussione su trapani pesanti > 45 N
e con potenza > 900W (fino a 1500W)

High performances in masonry- concrete,
sand-lime brick, natural stone.
Hammer drill use > 45 N
and electrical power > 900W

Calcestruzzo
Concrete

Muro
Masonry

Pietre
Natural stones



COD. 21122

FRESE PERFORATRICI A TAZZA “IMPACT” PER EDILIZIA PER MARTELLI LEGGERI

EN *Masonry impact core bits for light hammers*
FR *Trépans pour marteau légér*
ESP *Broca corona para martillo*
PT *Brocas de impacto para alvenaria para martelos ligeiros*

21110

ATTACCO FILETTATO M16
M16 Threaded connection

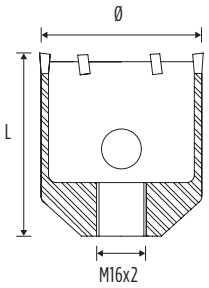
Ø ≤ 50 mm: 600W min
F ≤ 40 Nm
P ≤ 3 Joule





Confezione
Packaging

Ø mm fresa *hole cutter*	L mm	Z n° denti *tips*	pcs.	cod.	cad each €
25	75	4	1	**21110**02500	consultare listino
30	75	4	1	**21110**03000	*see price list*
35	75	4	1	**21110**03500	
40	75	4	1	**21110**04000	
45	75	4	1	**21110**04500	



Foratura a rotopercussione su trapani e piccoli martelli nel calcestruzzo, cemento, pietre.
Massima profondità di foratura 60 mm.

Rotary hammer drilling with drills and small hammers in concrete, cement, and stone.
Maximum drilling depth: 60 mm.

Muro
Masonry

21111

ATTACCO FILETTATO M22
M22 Threaded connection

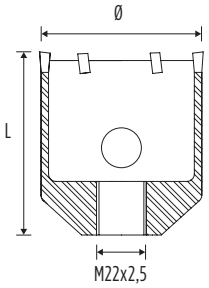
Ø > 50 mm: 800W min
F ≤ 40 Nm
P ≤ 3 Joule





Confezione
Packaging

Ø mm fresa *hole cutter*	L mm	Z n° denti *tips*	pcs.	cod.	cad each €
50	75	6	1	**21111**05000	consultare listino
55	75	6	1	**21111**05500	*see price list*
60	75	6	1	**21111**06000	
65	75	6	1	**21111**06500	
68	75	6	1	**21111**06800	
80	75	8	1	**21111**08000	
90	75	8	1	**21111**09000	
100	75	8	1	**21111**10000	
112	75	8	1	**21111**11200	
125	80	10	1	**21111**12500	
150	80	12	1	**21111**15000	



Foratura a rotopercussione su trapani e piccoli martelli nel calcestruzzo, cemento, pietre.
Massima profondità di foratura 60 mm.

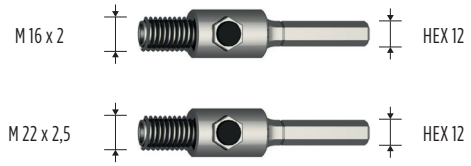
Rotary hammer drilling with drills and small hammers in concrete, cement, and stone.
Maximum drilling depth: 60 mm.

Muro
Masonry

GAMBI PER FRESE PERFORATRICI A TAZZA "IMPACT"

EN *Chucking shanks for "Impact" core bits*
FR *Arbres de montage pour trépans "Impact"*
ESP *Husillos para coronas perforadoras "Impact"*
PT *Veios de mandril para brocas de "impacto"*

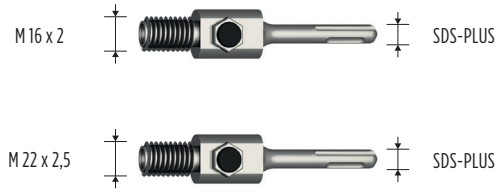
GAMBO ESAGONALE
Hex. shank



cod.	Attacco filettato *Thread attachment*	Lunghezza tot. *Overall length*	cad /each €
21115501	M 16 x 2	100 mm	consultare listino
21115502	M 16 x 2	220 mm	*see price list*
21115503	M 16 x 2	370 mm	
***21115**521	M 22 x 2,5	100 mm	
***21115**522	M 22 x 2,5	220 mm	
***21115**523	M 22 x 2,5	370 mm	

*In esaurimento
**Running out*

GAMBO SDS-PLUS
SDS-PLUS shank



cod.	Attacco filettato *Thread attachment*	Lunghezza tot. *Overall length*	cad /each €
21115504	M 16 x 2	100 mm	consultare listino
21115505	M 16 x 2	220 mm	*see price list*
21115507	M 16 x 2	370 mm	
21115509	M 16 x 2	460 mm	
21115524	M 22 x 2,5	100 mm	
21115525	M 22 x 2,5	220 mm	
21115527	M 22 x 2,5	370 mm	
21115529	M 22 x 2,5	460 mm	

GAMBO SDS MAX*
SDS MAX shank*



cod.	Attacco filettato *Thread attachment*	Lunghezza tot. *Overall length*	cad /each €
21115520	M 22 x 2,5	370 mm	consultare listino *see price list*

* Usare solo per materiali da costruzione leggeri come arenaria, mattoni forati. Non usare per cemento armato, calcestruzzo e pietre.

** Use with light building materials only.*

PUNTE PILOTA
Pilot drill



cod.	ØxL mm	cad/each €
21115506	8 x 120	consultare listino *see price list*

ESPOSITORE CORONE PERFORATRICI PER EDILIZIA
Hammer core bits



Art. 21116112

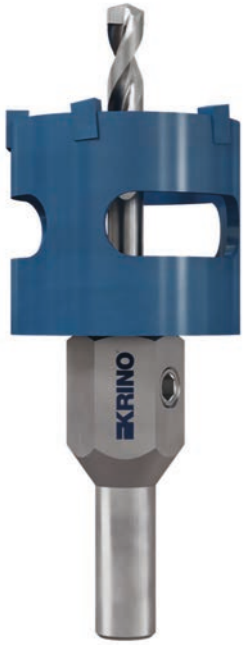
24 pcs
Ø 30 ÷ 100 mm

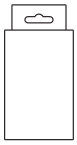
cod.		Attacco filettato *Thread attachment*	
21110	M 16		Ø 30 35 40 pcs. 1 1 1
21111	M 22		Ø 50 65 80 90 100 pcs. 1 1 1 1 1
21115501	(M 16)	 HEX 12	L = 100 mm n° 1 pc.
21115502	(M 16)		L = 220 mm n° 1 pc.
21115521	(M 22)		L = 100 mm n° 1 pc.
21115522	(M 22)		L = 220 mm n° 1 pc.
21115504	(M 16)	 SDS-PLUS	L = 100 mm n° 1 pc.
21115505	(M 16)		L = 220 mm n° 1 pc.
21115524	(M 22)		L = 100 mm n° 1 pc.
21115525	(M 22)		L = 220 mm n° 1 pc.
21115506			Ø = 8 mm n° 8 pcs.

FRESE PERFORATRICI A TAZZA CON TAGLIENTI IN METALLO DURO PER EDILIZIA

EN *Carbide tipped hole cutters for masonry, rotation only*
FR *Scies trepans pour beton à rotation uniquement*
ESP *Coronas para construccion, dientes de metal duro*
PT *Cortadores de buracos com ponta de carboneto, só rotação*

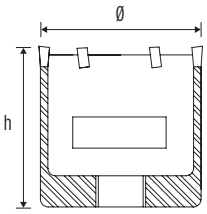
21015 MD



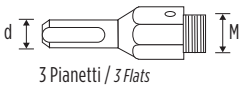


Confezione
Packaging

Ø mm fresa *hole cutter*	h mm altezza tazza *height cup*	Z n° denti *tips*	d mm gambo *shank*	pcs.	cod.	cad each €
16	40	2	10	1	**21015**01600	consultare
22	40	3	10	1	**21015**02200	listino
25	40	3	10	1	**21015**02500	*see price list*
27	40	3	10	1	**21015**02700	
30	40	4	10	1	**21015**03000	
35	40	4	10	1	**21015**03500	
38	40	5	10	1	**21015**03800	
40	40	5	10	1	**21015**04000	
45	40	5	10	1	**21015**04500	
50	40	6	10	1	**21015**05000	
55	40	6	12	1	**21015**05500	
60	40	7	12	1	**21015**06000	
65	40	7	12	1	**21015**06500	
70	40	8	12	1	**21015**07000	
80	40	9	12	1	**21015**08000	



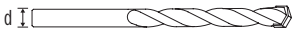
ALBERO
Arbor



3 Pianetti / *3 Flats*

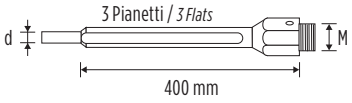
cod.	per frese *fit hole cutters*	d mm	M mm	cad/each €
21020100	Ø 16 ÷ 35	10	12x1,25	consultare
21020101	Ø 38 ÷ 150	12	16x1,5	listino
				see price list

PUNTA PILOTA
Pilot drill



cod.	per frese *fit hole cutters*	d mm	Ø mm	cad/each €
21020110	Ø 16 ÷ 50	5,85	6	consultare
21020111	Ø 55 ÷ 150	7,25	8	listino
				see price list

PROLUNGA 400 mm
Extension 400 mm



cod.	per frese *fit hole cutters*	d mm	M mm	cad/each €
21020120	Ø 16 ÷ 50	12	12x1,25	consultare
21020121	Ø 55 ÷ 150	12	16x1,5	listino
				see price list

Forano a sola rotazione calcestruzzo leggero, muro, piastrelle, ceramica, laminati plastici.
Adatti per fori precisi a pavimento di porte blindate, fori per condotte, scatole di derivazione, etc...
Rotary use in masonry, tiles, light construction materials.

Calcestruzzo *Concrete*
Muro *Masonry*
Ceramica *Ceramics*



Art. 21030110

12 pcs
Ø 22 - 25 - 27 - 30
35 - 38 - 40 - 45
50 - 55 - 60 - 65



SET FRESE A TAZZA PER IMPIANTISTI, IDRAULICI, ETC.
Hole cutters set for journeymen and plumbers.

Art. 21030300

8 pcs
Ø 16 - 22 - 25 - 27
30 - 35 - 40 - 50

Art. 21030301

6 pcs
Ø 16 - 22 - 25 - 27
30 - 35

FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI

EN *Carbide grit hole saws, high quality*
FR *Scies trépans au carbure de tungstene*
ESP *Coronas de carburo de tungsteno*
PT *Serras de trépano com grão de metal duro, alta qualidade*

21105

PER MATERIALI EDILI DURI
For hard building materials

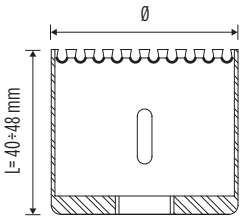
Inserti in carburo di tungsteno
Carbide grit



Confezione
Packaging

Ø mm	Ø inches	d filetto / *thread*	pcs.	cod.	cad each €
16	5/8"	UNF 1/2" x 20	1	**21105**01600	consultare
19	3/4"		1	**21105**01900	listino
20	-		1	**21105**02000	*see price list*
22	7/8"		1	**21105**02200	
25	1"		1	**21105**02500	
29	1-1/8"		1	**21105**02900	
32	1-1/4"	UNF 5/8" x 18	1	**21105**03200	
35	1-3/8"		1	**21105**03500	
38	1-1/2"		1	**21105**03800	
44	1-3/4"		1	**21105**04400	
48	1-7/8"		1	**21105**04800	
51	2"		1	**21105**05100	
54	2-1/8"		1	**21105**05400	
57	2-1/4"		1	**21105**05700	
60	2-3/8"		1	**21105**06000	
64	2-1/2"		1	**21105**06400	
70	2-3/4"		1	**21105**07000	
76	3"		1	**21105**07600	
83	3-1/4"		1	**21105**08300	
86	3-3/8"		1	**21105**08600	
95	3-3/4"		1	**21105**09500	
102	4"		1	**21105**10200	
114	4-1/2"		1	**21105**11400	

SELF ART. 21135
Su richiesta / *On demand*



R ≤ 1200 N/mm²

Piastrelle
Mattoni durissimi
Tiles
Hard burnt brick

Pietre naturali
Marmo
Stones Marble

Ceramica
Ceramics

Fibra di vetro
Laminati plastici
Fiberglass

PER FRESE GAMBI / ALBERI
Fit hole cutters



cod.	Ø mm	cad/each €
210706519	Ø 16 ÷ 29	consultare
210706546	Ø 32 ÷ 114	listino *see price list*

PUNTA PILOTA CON PLACCHETTA IN MD
Pilot drill

6,3 mm 

cod.	Ø mm	cad/each €
21020112	Ø 7x80	consultare listino *see price list*



Art. 21107301

6 pcs.
Art. 21105 Ø 16 - 20 - 22 - 25 - 32 - 35 mm
Art. 210706519 Ø 16÷29
Art. 210706546 Ø 32÷114

FRESA A TAZZA MULTIPLA PER EDILIZIA IN CARBURO DI TUNGSTENO IN GRANI

EN *Multiple sizes carbide grit hole saw*
ESP *Corona perforadora de metal duro de varios diámetros*
FR *Scie cloche à grains de carbure de plusieurs tailles*
PT *Serra de trépano de carboneto de vários tamanhos*

21108



Confezione
Packaging

Ø mm	d mm	pcs.	cod.	cad each €
33-43-53-67-83	10	1	**21108**100	consultare listino *see price list*

h = 60mm

Mattoni
bricks

DIAMOND SERIES

La gamma di utensili diamantati **KRINO** si amplia con nuovi prodotti progettati per accompagnare i professionisti in ogni operazione di taglio e foratura su muri, piastrelle e materiali da costruzione.

Dai piccoli interventi di precisione, come la realizzazione di fori con le frese **KERAMASTER**, fino ai lavori di taglio più impegnativi con i **DISK PLUS**, disponibili in diametri fino a 500 mm, ogni utensile è pensato per garantire prestazioni elevate, durata e precisione costante.

EN

The KRINO range of diamond tools is expanding with new products designed to assist professionals in all cutting and drilling operations on walls, tiles, and building materials.
From small precision jobs, such as drilling holes with KERAMASTER cutters, to more demanding cutting jobs with DISK PLUS, available in diameters up to 500 mm, each tool is designed to guarantee high performance, durability, and steady precision.

FR

La gamme d'outils diamantés KRINO s'enrichit de nouveaux produits conçus pour accompagner les professionnels dans toutes leurs opérations de coupe et de perçage sur les murs, les carreaux et les matériaux de construction.
Des petites interventions de précision, comme la réalisation de trous avec les fraises KERAMASTER, aux travaux de coupe plus exigeants avec les DISK PLUS, disponibles dans des diamètres allant jusqu'à 500 mm, chaque outil est conçu pour garantir des performances élevées, une longue durée de vie et une précision constante.

ESP

La gama de herramientas diamantadas KRINO se amplía con nuevos productos diseñados para acompañar a los profesionales en todas las operaciones de corte y perforación en paredes, baldosas y materiales de construcción.
Desde pequeñas intervenciones de precisión, como la realización de agujeros con las fresas KERAMASTER, hasta los trabajos de corte más exigentes con los DISK PLUS, disponibles en diámetros de hasta 500 mm, cada herramienta está diseñada para garantizar un alto rendimiento, durabilidad y precisión constante.

PT

A gama de ferramentas diamantadas KRINO amplia-se com novos produtos, concebidos para acompanhar os profissionais em todas as operações de corte e perfuração em paredes, azulejos e materiais de construção.
Desde pequenos trabalhos de precisão, como a realização de furos com as coroas diamantadas KERAMASTER, até às operações de corte mais exigentes com os DISK PLUS, disponíveis em diâmetros até 500 mm, cada ferramenta foi desenvolvida para garantir elevado desempenho, durabilidade e precisão constante.

KERAMASTER PLUS KERAMASTER

LINEA *Line*	KERAMASTER PLUS		KERAMASTER
			
FAMIGLIA *Family*	**03119**	**03123**	**03118**
CODOLO *Shank*	M14	1/4" HEX Q.C. (5÷12 mm) HEX (14÷25 mm)	HEX
UTENSILE *Tool*			
WET/DRY USE *Wet/Dry use*			
VELOCITÀ *Speed*	•••••	•••	••
DURATA *Duration*	•••••	•••••	•••
CERA INCLUSA *Wax included*	Sì / *Yes* (6÷18 mm)	Sì / *Yes* (5÷12 mm)	No
APPLICAZIONI *Applications*	Fori medi-grandi / *Medium-large holes* Ø 6÷100 mm	Fori piccoli / *Small holes* Ø 5÷25 mm	Fori piccoli / *Small holes* Ø 5÷14 mm
APPLICAZIONI *Applications*	Grès porcellanato *Porcelain stoneware* ●●●●● Granito *Granite* ●●●●● Piastrelle *Tiles* ●●●●● Marmo *Marble* ●●●●●	Grès porcellanato *Porcelain stoneware* ●●●● Granito *Granite* ●●●● Piastrelle *Tiles* ●●●●● Marmo *Marble* ●●●●●	Grès porcellanato *Porcelain stoneware* ●● Granito *Granite* ● Piastrelle *Tiles* ●●●● Marmo *Marble* ●●●

FRESA A TAZZA A CORONA CONTINUA

EN *Diamond drill bit and core drills with continuous edge*
FR *Forets diamantées et scies trépans avec couronne continue*
ESP *Brocas diamantadas y coronas perforadoras con corona continua*
PT *Brocas de diamante e brocas com coroa com rebordo contínuo*

03119

ATTACCO M14 PER SMERIGLIATRICI ANGOLARI

M14 connection for angle grinders



Confezione
Packaging

Ø mm	Ø inches	attacco *shank*	Lunghezza *lenght* mm (inches)	Altezza diamanti *diamond height* mm (inches)	pcs.	cod.	cad each €
*6	1/4	M14	63 (2-15/32)	10 (3/8)	5	03119**0600**	consultare
*8	5/16	M14	63 (2-15/32)	10 (3/8)	5	03119**0800**	listino
*10	3/8	M14	63 (2-15/32)	10 (3/8)	5	03119**1000**	*see price list*
*12	1/2	M14	63 (2-15/32)	10 (3/8)	5	03119**1200**	
*14	9/16	M14	63 (2-15/32)	10 (3/8)	5	03119**1400**	
*16	5/8	M14	63 (2-15/32)	10 (3/8)	5	03119**1600**	
*18	23/32	M14	63 (2-15/32)	10 (3/8)	5	03119**1800**	
20	3/4	M14	60 (2-3/8)	15 (19/32)	5	03119**2000**	
22	7/8	M14	60 (2-3/8)	15 (19/32)	5	03119**2200**	
25	1	M14	60 (2-3/8)	15 (19/32)	5	03119**2500**	
28	1-1/8	M14	60 (2-3/8)	15 (19/32)	5	03119**2800**	
30	1-3/16	M14	60 (2-3/8)	15 (19/32)	5	03119**3000**	
32	1-1/4	M14	60 (2-3/8)	15 (19/32)	1	03119**3200**	
35	1-3/8	M14	60 (2-3/8)	15 (19/32)	1	03119**3500**	
38	1-1/2	M14	60 (2-3/8)	15 (19/32)	1	03119**3800**	
40	1-9/16	M14	60 (2-3/8)	15 (19/32)	1	03119**4000**	
45	1-3/4	M14	60 (2-3/8)	15 (19/32)	1	03119**4500**	
50	2	M14	60 (2-3/8)	15 (19/32)	1	03119**5000**	
55	2-3/16	M14	60 (2-3/8)	15 (19/32)	1	03119**5500**	
60	2-3/8	M14	60 (2-3/8)	15 (19/32)	1	03119**6000**	
65	2-1/2	M14	60 (2-3/8)	15 (19/32)	1	03119**6500**	
68	2-11/16	M14	60 (2-3/8)	15 (19/32)	1	03119**6800**	
70	2-3/4	M14	60 (2-3/8)	15 (19/32)	1	03119**7000**	
80	3-5/32	M14	60 (2-3/8)	15 (19/32)	1	03119**8000**	
90	3-1/2	M14	60 (2-3/8)	15 (19/32)	1	03119**9000**	
100	4	M14	60 (2-3/8)	15 (19/32)	1	03119**10000**	

M14 **ATTACCO M14**
speciale per smerigliatrici angolari
M14 shank
M14 shank to fit angular grinding machine

* Con cera refrigerante vegetale all'interno
** With Internal cooling system*

Massima profondità di foratura 10 mm.
Massima velocità di rotazione 13.200 rpm.
Maximum drilling depth 10 mm.
Maximum rotational speed 13.200 rpm.



Art. 03120142

4+1 pcs
Ø 6+6+8+10 mm
+ ADATTATORE GRATIS *adapter*
(1/4"+1/4"+5/16"+3/8")

240x125x55 mm



Art. 03120311

5 pcs
Ø 6 - 8 - 10
12 - 14 mm



Art. 03120310

6 pcs
Ø 22 - 35 - 40
45 - 50 - 68 mm

Grès porcellanato *Porcelain stoneware*	●●●●●
Granito *Granite*	●●●●●
Piastrelle *Tiles*	●●●●●
Marmo *Marble*	●●●●●

PUNTA DIAMANTATA A CORONA CONTINUA PER IL TAGLIO A SECCO E UMIDO

EN *Diamond drill bit with continuous edge for dry and wet cutting*
FR *Forets diamantées avec couronne continue pour percer à sec et à l'eau*
ESP *Brocas diamantadas con corona continua para taladrar en seco y en húmedo*
PT *Broca de diamante com rebordo contínuo para corte a seco e a húmido*

03123

ATTACCO HEX 1/4 PER TRAPANI E AVVITATORI AD IMPULSI

1/4 Hex shank for drills and impact drivers

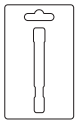
* Con cera refrigerante vegetale all'interno
** With Internal cooling system*

Altezza diamanti 10 mm (3/8")
diamond height 10 mm (3/8")

Massima velocità di rotazione 2.600 rpm.
Maximum rotational speed 2.600 rpm.

UNIVERSAL FIT





Confezione
Packaging

Ø mm	Ø inches	codolo *shank* mm (inches)	Lunghezza *lenght* mm (inches)	pcs.	cod.	cad each €
*5	3/16	1/4 QC	68 (2-11/16)	5	**03123**0500	consultare
*6	1/4	1/4 QC	68 (2-11/16)	5	**03123**0600	listino
*8	5/16	1/4 QC	80 (3-5/32)	5	**03123**0800	*see price list*
*10	3/8	1/4 QC	80 (3-5/32)	5	**03123**1000	
*12	1/2	1/4 QC	80 (3-5/32)	5	**03123**1200	
*14	9/16	HEX 8,3 (5/16)	80 (3-5/32)	5	**03123**1400	
*16	5/8	HEX 8,3 (5/16)	80 (3-5/32)	5	**03123**1600	
*18	23/32	HEX 8,3 (5/16)	80 (3-5/32)	5	**03123**1800	
20	3/4	HEX 8,3 (5/16)	80 (3-5/32)	5	**03123**2000	
22	7/8	HEX 8,3 (5/16)	80 (3-5/32)	5	**03123**2200	
25	1	HEX 8,3 (5/16)	80 (3-5/32)	5	**03123**2500	



Art. 03120145

4 pcs
Ø 6+6+8+10 mm
(1/4"+1/4"+5/16"+3/8")

205x100x45 mm

Grès porcellanato *Porcelain stoneware*	●●●●
Granito *Granite*	●●●●
Piastrelle *Tiles*	●●●●●
Marmo *Marble*	●●●●●

PUNTA DIAMANTATA A CORONA CONTINUA PER IL TAGLIO A UMIDO

EN *Diamond drill bit with continuous edge for wet cutting*
FR *Forets diamantées avec couronne continue pour percer à l'eau*
ESP *Brocas diamantadas con corona continua para taladrar en húmedo*
PT *Broca de diamante com rebordo contínuo para corte a húmido*

KERAMASTER

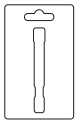
03118

ATTACCO ESAGONALE PER TRAPANI

Hexagonal shank for drills

Massima velocità di rotazione 2.600 rpm.
Maximum rotational speed 2.600 rpm.





Confezione
Packaging

Ø mm	Ø inches	codolo *shank* mm (inches)	Lunghezza *lenght* mm (inches)	pcs.	cod.	cad each €
5	**3/16**	HEX 9,5	56 (2-13/64)	5	**03118**0500	consultare
6	**1/4**	HEX 9,5	56 (2-13/64)	5	**03118**0600	listino
7	**9/32**	HEX 9,5	56 (2-13/64)	5	**03118**0700	*see price list*
8	**5/16**	HEX 9,5	56 (2-13/64)	5	**03118**0800	
10	**3/8**	HEX 9,5	56 (2-13/64)	5	**03118**1000	
12	**1/2**	HEX 9,5	56 (2-13/64)	5	**03118**1200	
14	**9/16**	HEX 9,5	56 (2-13/64)	5	**03118**1400	



Art. 03120140

3 pcs
Ø 6+8+10 mm
(1/4"+5/16"+3/8")

Grès porcellanato *Porcelain stoneware* ● ●
Granito *Granite* ●
Piastrelle *Tiles* ● ● ● ●
Marmo *Marble* ● ● ●

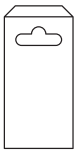
ALLARGAFORI E SVASATORI

EN *Reamers and countersinks*
FR *Alésoirs et ébavureurs*
ESP *Avellanadores*
PT *Alargadores e escareadores*

03124

M14

ATTACCO M14
speciale per smerigliatrici angolari
M14 shank
M14 shank to fit angular grinding machine



Confezione
Packaging

Massima velocità di rotazione
13.200 rpm.
Maximum rotational speed
13.200 rpm.



Ø mm	Ø inches	codolo *shank*	descrizione *description*	Lunghezza *lenght* mm (inches)	pcs.	cod.	cad each €
10-25	**3/8 ÷ 1**	M14	Allargafori *Hole reamer*	65 mm (2-9/16)	1	**03124**0001	consultare listino *see price list*



Ø mm	Ø inches	codolo *shank*	descrizione *description*	Lunghezza *lenght* mm (inches)	pcs.	cod.	cad each €
2-38	**3/32 ÷ 1-1/2**	M14	Fresa conica 60° *Tapered cutter 60°*	40 mm (1-9/16)	1	**03124**0002	consultare listino
20-48	**3/4 ÷ 1-7/8**	M14	Fresa conica 60° *Tapered cutter 60°*	35 mm (1-3/8)	1	**03124**0003	*see price list*



Ø mm	Ø inches	codolo *shank*	descrizione *description*	Lunghezza *lenght* mm (inches)	pcs.	cod.	cad each €
10	**3/8**	M14	Fresa cilindrica *Cylindrical cutter*	72 mm (2-27/32)	1	**03124**0010	consultare listino
20	**3/4**	M14	Fresa cilindrica *Cylindrical cutter*	72 mm (2-27/32)	1	**03124**0020	*see price list*

Grès porcellanato
Porcelain stoneware

Marmo
Marble

Piastrelle
Tiles

ACCESSORI
EN *Accessories*
FR *accessoires*
ESP *Accesorios*
PT *Acessórios*

03121





PASTA LUBRIFICANTE PER FORI 30 ml
Cooling paste for holes 30 ml

Art. 03121006



ADATTATORE CODOLO HEX - M14M
Adapter HEX - M14M shank

Art. 03121010



ADATTATORE SDS-PLUS - M14M
Adapter SDS - PLUS - M14M

Art. 03121011



ADATTATORE 5/8-11F - M14M
Adapter 5/8-11F - M14M

Art. 03121012

PUNTA PILOTA CON PLACCHETTA IN MD
Pilot drill

Art. 21020113 Ø6x75 mm



DIMA A VENTOSA 7 FORI:
Suction cup template 7 holes:

Art. 03121001

Ø 4-5-6-7-8-10-12 mm



DIMA A VENTOSA REGOLABILE
Adjustable suction cup template

Art. 03121002

Ø 5÷80 mm



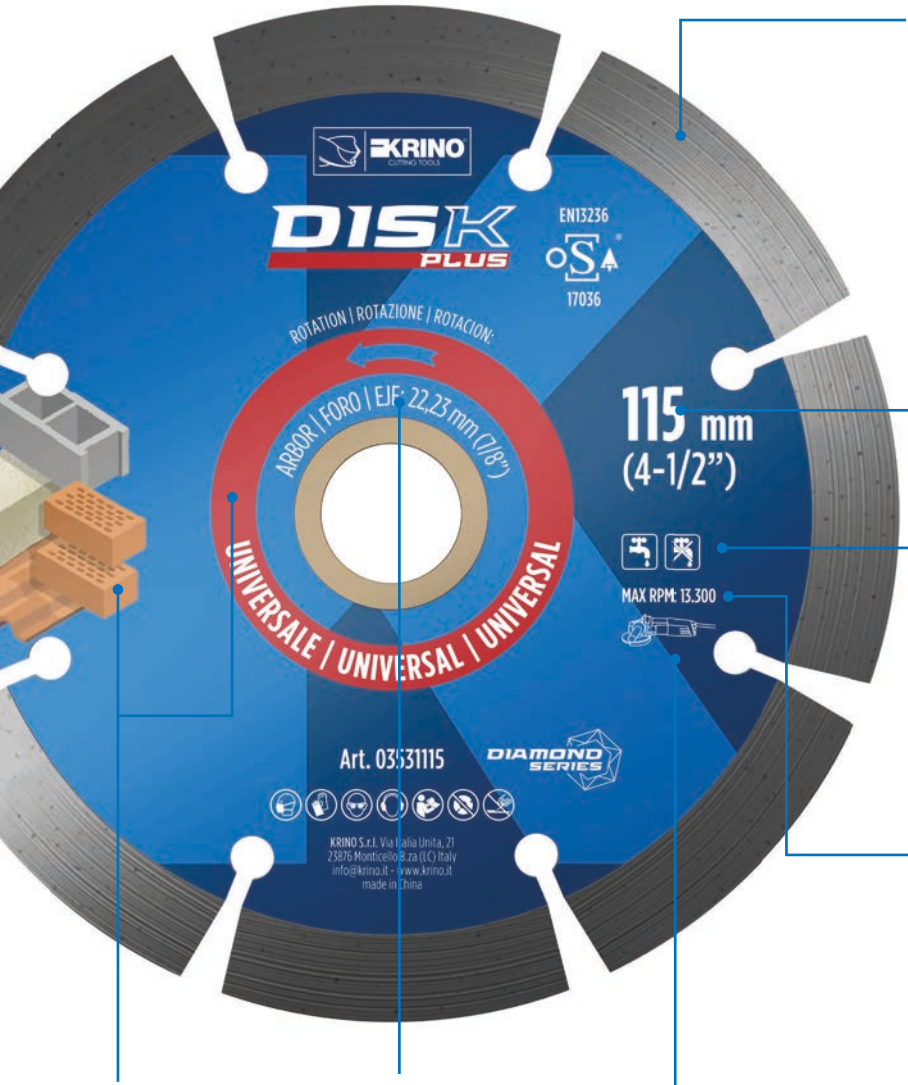
BOTTIGLIA PER REFRIGERAZIONE 1 L
Refrigeration bottle 1 l
Art. 03121005

DISK PLUS

PER UN UTILIZZO INTENSIVO, PER GARANTIRE IL MASSIMO DELLE PRESTAZIONI.
For intensive use, to ensure maximum performance.

DISK

USO STANDARD, PER UN OTTIMO BILANCIAMENTO TRA PERFORMANCE E PREZZO.
Standard use, for an excellent balancing between performance and price.



CORONA *Crown*

Dalla tipologia di corona dipende la velocità di taglio e la finitura del disco: una corona segmentata produrrà un taglio più veloce ma con una finitura più grezza mentre una lama liscia avrà una finitura ottimale ma una velocità di taglio minore.

The type of crown determines the cutting speed and finish of the disc: a segmented crown will produce a faster cut but with a rougher finish, while a smooth blade will have an optimal finish but a slower cutting speed.



LISCIA ***smooth*** | **SEGMENTATA** ***segmented*** | **TURBO** ***turbo***

DIAMETRO DELLA LAMA
Blade diameter

WET USE

DRY USE

VELOCITÀ DI ROTAZIONE (MAX RPM)
Rotation speed (MAX RPM)

Indicazione della velocità massima permessa durante l'uso. Una velocità maggiore può essere pericolosa in quanto il disco potrebbe rompersi e ferire l'operatore.

Indication of the maximum speed permitted during use. Higher speeds may be dangerous as the disc could break and injure the operator.

ANELLO COLORATO *Colored ring*

L'anello colorato e i materiali indicati come icone sono un aiuto rapido per riconoscere l'applicazione più adatta per il disco.

The colored ring and the materials indicated as icons are a quick aid to recognizing the most suitable application for the blade.

UNIVERSALE ***universal***

CERAMICA ***ceramic***

ASFALTO ***asphalt***

CALCESTRUZZO ARMATO ***reinforced concrete***

GRES PORCELLANATO ***porcelain gres***

PIETRA DURA ***hard stone***

FORO CENTRALE *Central hole*

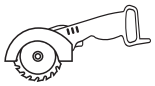
Il foro deve corrispondere con quanto previsto dalla macchina di utilizzo. Nel caso non fosse compatibile controllare gli anelli di riduzione inclusi.

The hole must correspond to the specifications of the machine in use. If it is not compatible, check the reduction rings included.

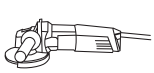
LE MACCHINE DI UTILIZZO
Machines for use

Suggerimento della macchina con cui usare il disco. Controlla sempre foro, diametro e velocità massima per sapere se il disco è compatibile con la tua macchina.

Recommendation of the machine with which to use the disc. Always check the hole, diameter, and maximum speed to verify if the disc is compatible with your machine.



MINI SMERIGLIATRICE ANGOLARE
SMALL ANGULAR GRINDER



SMERIGLIATRICE ANGOLARE
ANGULAR GRINDER



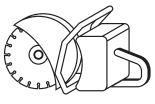
SCANALATORE
SLOTTER



TAGLIA ASFALTO
ASPHALT CUTTER



TAGLIAPIASTRELLE
TILE CUTTER



MOTOTRONCATRICE
CONCRETE SAW

LA SICUREZZA NON È UN OPTIONAL
SAFETY IS NOT AN OPTION

I dischi diamantati KRINO rispettano la norma EN 13236. Ogni disco è il risultato di test rigorosi, verifiche documentate e processi costantemente monitorati.

MARCHIO OSA : GARANZIA INTERNAZIONALE DI SICUREZZA

L'Organization for the Safety of Abrasives (oSa) certifica i produttori che rispettano criteri severi in termini di sicurezza, tracciabilità e qualità.
Solo chi supera audit periodici e controlli approfonditi può utilizzare il marchio oSa.

KRINO diamond cutting blades comply with EN 13236. Each blade is the result of rigorous testing, documented checks, and constantly monitored processes.

OSA MARK: INTERNATIONAL SAFETY GUARANTEE

The Organization for the Safety of Abrasives (oSa) certifies manufacturers who comply with strict criteria in terms of safety, traceability, and quality.
Only those who pass periodic audits and thorough checks can use the oSa mark.

COSA GARANTISCE IL MARCHIO OSA
What does the oSa mark ensure?

- Scurezza certificata: conformità verificata agli standard EN per abrasivi e superabrasivi
- Controllo continuo: monitoraggio costante dei processi produttivi
- Audit periodici: ispezioni regolari presso i produttori con sistemi qualità certificati
- Tracciabilità totale: ogni disco è identificabile e conforme ai requisiti oSa

- *Certified safety: verified compliance with EN standards for abrasives and superabrasives*
- *Continuous control: constant monitoring of production processes*
- *Periodic audits: regular inspections at manufacturers with certified quality systems*
- *Total traceability: each disc is identifiable and complies with oSa requirements*

DISTRIBUZIONE OMOGENEA DEL DIAMANTE, PRESTAZIONI COSTANTI NEL TEMPO
Consistent diamond distribution, constant performance over time

La Matrix Technology assicura una distribuzione omogenea dei diamanti nei segmenti, garantendo densità costante e prestazioni stabili per tutta la vita del disco. L'usura uniforme espone continuamente nuovo materiale attivo, migliorando capacità di taglio, dissipazione del calore e durata complessiva.

Matrix Technology ensures consistent distribution of diamonds in the segments, guaranteeing constant density and stable performance throughout the life of the blade. Uniform wear continuously exposes new active material, improving cutting capacity, heat dissipation, and overall durability.

MENO RUMORE, PIÙ COMFORT, PIÙ SICUREZZA
Less noise, more comfort, more safety

I dischi NO NOISE integrano un'anima fonoassorbente che riduce vibrazioni e rumore durante il taglio. Il risultato è maggiore stabilità del disco, taglio più preciso e un comfort superiore per l'operatore, con minore affaticamento e lavoro più continuo.

NO NOISE blades feature a sound-absorbing core that reduces vibrations and noise during cutting. The result is greater blade stability, sharper cutting, and superior comfort for the operator, with less fatigue and more continuous work.

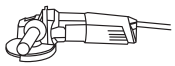
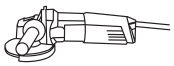
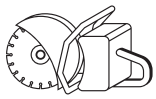
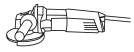
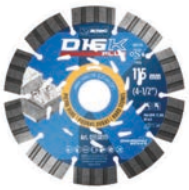
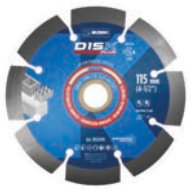
LASER WELDING
Laser welding

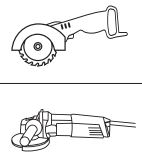
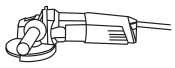
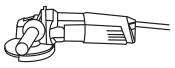
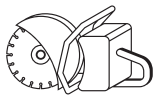
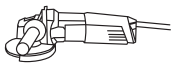
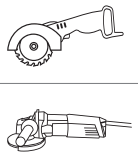
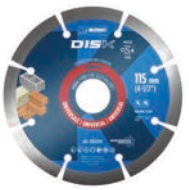
Questi dischi impiegano segmenti saldati a laser direttamente sul corpo disco, una tecnologia che assicura un'unione estremamente resistente. Questo processo offre massima sicurezza, stabilità anche in condizioni di taglio gravose.

These blades use laser-welded segments directly onto the disc body, a technology that ensures an extremely strong bond. This process offers maximum safety and stability even under heavy cutting conditions.

VISIONE D'INSIEME: DISCHI DIAMANTATI

EN *Overview: Diamond cutting blade*
FR *Aperçu: Disques diamantés*
ESP *Visión general: Discos diamantados*
PT *Visão geral: Discos diamantados*

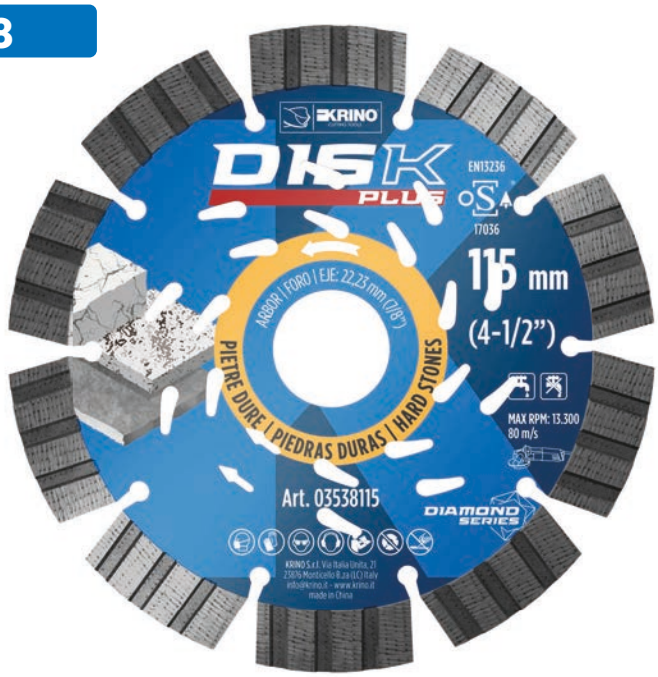
LINEA *Line*	DISK PLUS				
COLORE ANELLO *Ring color*					
MATERIALI *Materials*	**PIETRE DURE** *Hard stones*	**CALCESTRUZZO ARMATO** *Reinforced concrete*	**CALCESTRUZZO ARMATO** *Reinforced concrete*	**ASFALTO** *Asphalt*	**UNIVERSALE** *Universal*
APPLICAZIONI *Applications*	Pietre dure *Hard stones* Granito *Granite* Calcestruzzo armato *Reinforced concrete* Marmo *Marble*	Calcestruzzo armato *Reinforced concrete* Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks*	Calcestruzzo armato *Reinforced concrete* Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks*	Asfalto *Asphalt* Gesso / Intonaco *Plaster* Fibra di vetro *Fiberglass*	Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks* Tegole *Roof tiles*
GAMMA *Range*	115÷230 mm (4-1/2"÷9")	115÷230 mm (4-1/2"÷9")	300÷500 mm (12"÷20")	350÷500 mm (14"÷20")	115÷230 mm (4-1/2"÷9")
MACCHINA D'UTILIZZO *Suitable machine*					 
UTILIZZO UMIDO/A SECCO *Wet/Dry use*					
CARATTERISTICHE *Features*	MATRIX TECHNOLOGY | LASER WELD	LASER WELD	NO NOISE VIBRATION REDUCTION | LASER WELD	LASER WELD	
DISCO *Disk*					
CODICE FAMIGLIA *Family code*	**03538**	**03533**	**03535**	**03534**	**03531**
	p.534	**p.534**	**p.535**	**p.535**	**p.536**
PIETRA DURA *Hard stone*	●●●●●	●●●	●●		
GRES PORCELLANATO *Porcelain gres*					
PIASTRELLE *Standard tiles*					
CERAMICA *Ceramic tiles*					
GRANITO *Granite*	●●●●	●●●	●●●		●●
ASFALTO *Asphalt*				●●●●●	
GESSO, INTONACO *Plaster*				●●●●	
FIBRA DI VETRO *Glass fiber*				●●●●	
CALCESTRUZZO (ARMATO) *Concrete (reinforced)*	●●●●●	●●●●	●●●●		●●
CALCESTRUZZO *Concrete*	●●●●●	●●●●●	●●●●●	●●●	●●●●
MARMO *Marble*	●●●●●	●●●●	●●●●	●●●	●●●
MATTONI *Bricks*	●●●●	●●●	●●●		●●
TEGOLE *Roof tiles*	●●	●●	●●		●●

DISK PLUS			DISK			
UNIVERSALE *Universal*	**GRÈS PORCELLANATO** *Porcelain stoneware*	**CERAMICA** *Ceramic*	**UNIVERSALE** *Universal*	**UNIVERSALE** *Universal*	**UNIVERSALE** *Universal*	**CERAMICA** *Ceramic*
Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks* Tegole *Roof tiles*	Grès porcellanato *Porcelain stoneware* Piastrelle ceramica *Tiles* Granito *Granite*	Grès porcellanato *Porcelain stoneware* Piastrelle ceramica *Tiles* Granito *Granite*	Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks* Tegole *Roof tiles*	Calcestruzzo armato *Reinforced concrete* Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks*	Calcestruzzo *Concrete* Marmo *Marble* Mattoni *Bricks* Tegole *Roof tiles*	Grès porcellanato *Porcelain stoneware* Piastrelle ceramica *Tiles* Granito *Granite*
76÷230 mm (3"÷9")	115÷230 mm (4-1/2"÷9")	180÷250 mm (7"÷10")	115÷230 mm (4-1/2"÷9")	300÷500 mm (12"÷20")	115÷230 mm (4-1/2"÷9")	76÷230 mm (3"÷9")
						
				LASER WELD		
						
03530	**03537**	**03536**	**03522**	**03523**	**03521**	**03520**
p.536	**p.537**	**p.537**	**p.538**	**p.538**	**p.539**	**p.539**
				●		
	●●●●●	●●●●				●●
●●	●●●●●	●●●●●			●	●●●
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				●●		
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●●●	●●		●●	●●	●●●	

DISCHI DIAMANTATI DISK PLUS

EN *Diamond cutting blade DISK PLUS*
FR *Disques diamantés DISK PLUS*
ESP *Discos diamantados DISK PLUS*
PT *Discos diamantados DISK PLUS*

03538



Confezione
Packaging

PIETRE DURE
Hard stones

Pietre dure *Hard stones* ●●●●●
Granito *Granite* ●●●●
Calcestruzzo armato *Reinforced concrete* ●●●●●
Marmo *Marble* ●●●●●

MATRIX TECHNOLOGY | LASER WELD

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	2,2	12	13.300 (80 m/s)	1	**03538**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	2,2	12	12.250 (80 m/s)	1	**03538**125	listino
230	**9**	22,23	7/8	15,88 (5/8)	2,8	12	6.650 (80 m/s)	1	**03538**230	*see price list*

03533



Confezione
Packaging

CALCESTRUZZO ARMATO
Reinforced concrete

Calcestruzzo armato *Reinforced concrete* ●●●●
Calcestruzzo *Concrete* ●●●●●
Marmo *Marble* ●●●●
Mattoni *Bricks* ●●●

LASER WELD

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	2,2	10	13.300 (80 m/s)	1	**03533**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	2,2	10	12.250 (80 m/s)	1	**03533**125	listino
180	**7**	22,23	7/8	15,88 (5/8)	2,4	10	8.500 (80 m/s)	1	**03533**180	*see price list*
230	**9**	22,23	7/8	15,88 (5/8)	2,6	10	6.650 (80 m/s)	1	**03533**230	

DISCHI DIAMANTATI DISK PLUS

EN *Diamond cutting blade DISK PLUS*
FR *Disques diamantés DISK PLUS*
ESP *Discos diamantados DISK PLUS*
PT *Discos diamantados DISK PLUS*

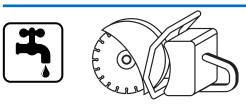
03535



Confezione
Packaging

CALCESTRUZZO ARMATO
Reinforced concrete

Calcestruzzo armato *Reinforced concrete*	●●●●
Calcestruzzo *Concrete*	●●●●●
Marmo *Marble*	●●●●
Mattoni *Bricks*	●●●



NO NOISE VIBRATION REDUCTION | LASER WELD

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
300	**12**	30	1-3/16	25,4 (1) / 20	3	10	5.100 (80 m/s)	1	**03535**300	consultare
350	**14**	30	1-3/16	25,4 (1)	3,2	10	4.400 (80 m/s)	1	**03535**350	listino
400	**16**	30	1-3/16	25,4 (1)	3,4	10	3.850 (80 m/s)	1	**03535**400	*see price list*
450	**18**	30	1-3/16	25,4 (1)	3,6	10	3.400 (80 m/s)	1	**03535**450	
500	**20**	30	1-3/16	25,4 (1)	3,8	10	3.100 (80 m/s)	1	**03535**500	

03534



Confezione
Packaging

ASFALTO
Asphalt

Asfalto *Asphalt*	●●●●●
Gesso / Intonaco *Plaster*	●●●●
Fibra di vetro *Glass fiber*	●●●●



LASER WELD

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
350	**14**	30	1-3/16	25,4 (1) / 20	3,2	10	4.400 (80 m/s)	1	**03534**350	consultare
400	**16**	30	1-3/16	25,4 (1)	3,4	10	3.850 (80 m/s)	1	**03534**400	listino
450	**18**	30	1-3/16	25,4 (1)	3,6	10	3.400 (80 m/s)	1	**03534**450	*see price list*
500	**20**	30	1-3/16	25,4 (1)	3,8	10	3.100 (80 m/s)	1	**03534**500	

DISCHI DIAMANTATI DISK PLUS

EN *Diamond cutting blade DISK PLUS*
FR *Disques diamantés DISK PLUS*
ESP *Discos diamantados DISK PLUS*
PT *Discos diamantados DISK PLUS*

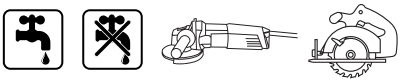
03531



Confezione
Packaging

UNIVERSALE
Universal

Calcestruzzo ●●●●
Concrete
Marmo ●●●
Marble
Mattoni ●●
Bricks
Tegole ●●
Roof tiles



Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	1,8	10	13.300 (80 m/s)	1	**03531**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	2	10	12.250 (80 m/s)	1	**03531**125	listino
150	**6**	22,23	7/8	15,88 (5/8)	2	10	10.200 (80 m/s)	1	**03531**150	*see price list*
180	**7**	22,23	7/8	15,88 (5/8)	2,2	10	8.500 (80 m/s)	1	**03531**180	
230	**9**	22,23	7/8	15,88 (5/8)	2,4	10	6.650 (80 m/s)	1	**03531**230	

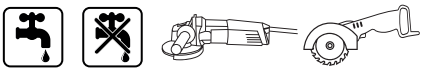
03530



Confezione
Packaging

UNIVERSALE
Universal

Calcestruzzo ●●
Concrete
Marmo ●●
Marble
Mattoni ●●●
Bricks
Tegole ●●●●
Roof tiles



Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
76	**3**	10	3/8	-	1,2	7	20.114 (80 m/s)	1	**03530**076	consultare
115	**4-1/2**	22,23	7/8	15,88 (5/8)	2,2	10	13.300 (80 m/s)	1	**03530**115	listino
125	**5**	22,23	7/8	15,88 (5/8)	2,4	10	12.250 (80 m/s)	1	**03530**125	*see price list*
180	**7**	22,23	7/8	15,88 (5/8)	2,6	10	8.500 (80 m/s)	1	**03530**180	
230	**9**	22,23	7/8	15,88 (5/8)	2,6	10	6.650 (80 m/s)	1	**03530**230	

DISCHI DIAMANTATI DISK PLUS

EN *Diamond cutting blade DISK PLUS*
FR *Disques diamantés DISK PLUS*
ESP *Discos diamantados DISK PLUS*
PT *Discos diamantados DISK PLUS*

03537



Confezione
Packaging

GRÈS PORCELLANATO
Porcelain stoneware

Grès porcellanato *Porcelain stoneware*	●●●●●
Piastrelle *Standard tiles*	●●●●●
Ceramica *Ceramic tiles*	●●●●●
Granito *Granite*	●●●●

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	1,4	10	13.300 (80 m/s)	1	**03537**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	1,4	10	12.250 (80 m/s)	1	**03537**125	listino
230	**9**	22,23	7/8	15,88 (5/8)	2	10	6.650 (80 m/s)	1	**03537**230	*see price list*

03536



Confezione
Packaging

CERAMICA
Ceramic

Grès porcellanato *Porcelain stoneware*	●●●●
Piastrelle *Standard tiles*	●●●●●
Ceramica *Ceramic tiles*	●●●●●
Granito *Granite*	●●●

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
180	**7**	25,4	1	22,23 (7/8) / 15,88 (5/8)	2,2	10	8.500 (80 m/s)	1	**03536**180	consultare
200	**8**	25,4	1	22,23 (7/8) / 15,88 (5/8)	2,4	10	7.650 (80 m/s)	1	**03536**200	listino
230	**9**	25,4	1	22,23 (7/8) / 15,88 (5/8)	2,6	10	6.650 (80 m/s)	1	**03536**230	*see price list*
250	**10**	25,4	1	22,23 (7/8) / 15,88 (5/8)	2,6	10	6.150 (80 m/s)	1	**03536**250	

DISCHI DIAMANTATI DISK

EN *Diamond cutting blade DISK*
FR *Disques diamantés DISK*
ESP *Discos diamantados DISK*
PT *Discos diamantados DISK*

03522



Confezione
Packaging

UNIVERSALE
Universal

Calcestruzzo ● ● ●
Concrete

Marmo ● ●
Marble

Mattoni ● ●
Bricks

Tegole ● ●
Roof tiles

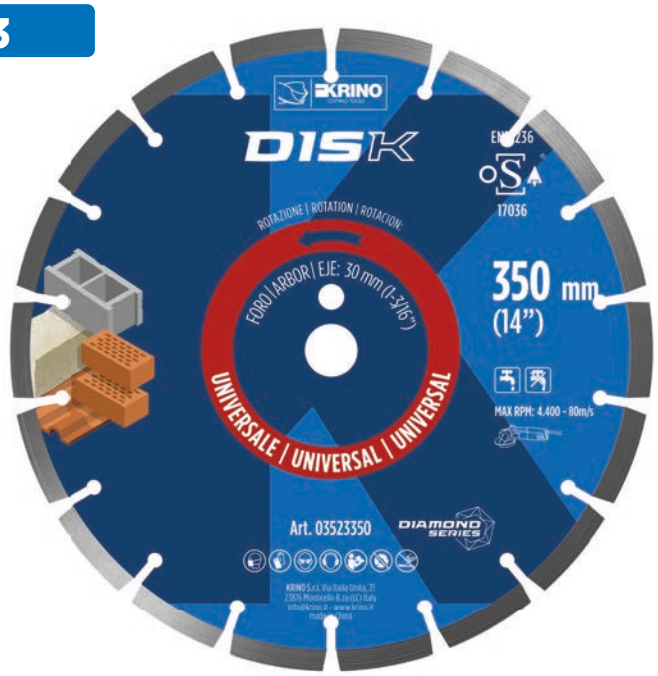


Art. 03525115

3 pcs
Ø 115 mm (4-1/2")
03520115
03521115
03522115

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	2	7	13.300 (80 m/s)	1	**03522**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	2	7	12.250 (80 m/s)	1	**03522**125	listino
180	**7**	22,23	7/8	15,88 (5/8)	2,4	7	8.500 (80 m/s)	1	**03522**180	*see price list*
230	**9**	22,23	7/8	15,88 (5/8)	2,5	7	6.650 (80 m/s)	1	**03522**230	

03523



Confezione
Packaging

UNIVERSALE
Universal

Calcestruzzo armato ● ●
Reinforced concrete

Calcestruzzo ● ● ●
Concrete

Marmo ● ●
Marble

Mattoni ● ●
Bricks

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
300	**12**	30	1-3/16	25,4 (1) / 20	2,8	7	5100 (80m/s)	1	**03523**300	consultare
350	**14**	30	1-3/16	25,4 (1)	3,2	8	4400 (80m/s)	1	**03523**350	listino
400	**16**	30	1-3/16	25,4 (1)	3,2	10	3850 (80m/s)	1	**03523**400	*see price list*
450	**18**	30	1-3/16	25,4 (1)	3,2	10	3400 (80m/s)	1	**03523**450	
500	**20**	30	1-3/16	25,4 (1)	3,8	10	3100 (80m/s)	1	**03523**500	

DISCHI DIAMANTATI DISK

EN *Diamond cutting blade DISK*
FR *Disques diamantés DISK*
ESP *Discos diamantados DISK*
PT *Discos diamantados DISK*

03521



Confezione
Packaging

UNIVERSALE
Universal

Calcestruzzo ●●
Concrete
Marmo ●●
Marble
Mattoni ●●
Bricks
Tegole ●●●
Roof tiles





Art. 03525115

3 pcs
Ø 115 mm (4-1/2")
03520115
03521115
03522115

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	2 mm	7	13300 (80 m/s)	1	**03521**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	2,4 mm	7	12250 (80 m/s)	1	**03521**125	listino
180	**7**	25,4	1	22,23 (7/8) / 15,88 (5/8)	3 mm	7	8500 (80 m/s)	1	**03521**180	*see price list*
230	**9**	22,23	7/8	15,88 (5/8)	3,2 mm	7	6650 (80 m/s)	1	**03521**230	

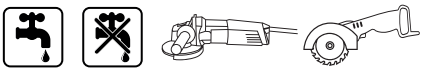
03520



Confezione
Packaging

CERAMICA
Ceramic

Grès porcellanato ●●●●
Porcelain stoneware
Piastrelle ●●●●●
Standard tiles
Ceramica ●●●●●
Ceramic tiles
Granito ●●●
Granite





Art. 03525115

3 pcs
Ø 115 mm (4-1/2")
03520115
03521115
03522115

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
76	**3**	10	3/8	-	1,4 mm	7	20.114 (80 m/s)	1	**03520**076	consultare
115	**4-1/2**	22,23	7/8	15,88 (5/8)	1,8 mm	7	13.300 (80 m/s)	1	**03520**115	listino
125	**5**	22,23	7/8	15,88 (5/8)	2 mm	7	12.250 (80 m/s)	1	**03520**125	*see price list*
180	**7**	25,4	1	22,23 (7/8) / 15,88 (5/8)	2,2 mm	7	8.500 (80 m/s)	1	**03520**180	
230	**9**	22,23	7/8	15,88 (5/8)	2,5 mm	7	6.650 (80 m/s)	1	**03520**230	

DISCHI DIAMANTATI DISK VAC

EN *Diamond cutting blade DISK VAC*
FR *Disques diamantés DISK VAC*
ESP *Discos diamantados DISK VAC*
PT *Discos diamantados DISK VAC*

DISCHI DIAMANTATI CON TECNOLOGIA VACUUM:
Diamanti brasati sottovuoto direttamente sul supporto metallico, per massima esposizione del diamante, elevata resistenza e prestazioni costanti

VACUUM BRAZED DIAMOND BLADES:
Diamonds vacuum-brazed directly onto the steel core for maximum diamond exposure, high bond strength, and consistent performance.

03550



Confezione
Packaging

MULTIMATERIALE
Multimaterial

Materiali da costruzione
Building materials

Plastica
Plastic

Legno
Wood

Piastrelle
Tiles

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
76	**3**	10	3/8	15,88 (5/8)	2,5	3	21.000 (80 m/s)	20	**03550**076	consultare
115	**4-1/2**	22,23	7/8	15,88 (5/8)	2,7	4	13.000 (80 m/s)	10	**03550**115	listino
125	**5**	22,23	7/8	15,88 (5/8)	2,7	4	12.200 (80 m/s)	10	**03550**125	*see price list*
180	**7**	22,23	7/8	15,88 (5/8)	3	4	6.400 (80 m/s)	10	**03550**180	
230	**9**	22,23	7/8	15,88 (5/8)	3,2	4	4.400 (80 m/s)	5	**03550**230	

03551



Confezione
Packaging

METALLI
Metals

Metalli
Metals

Acciaio
Steel

Inox
Stainless

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	1,8	3	13.300 (80 m/s)	10	**03551**115	consultare
125	**5**	22,23	7/8	15,88 (5/8)	1,8	3	12.200 (80 m/s)	10	**03551**125	listino
180	**7**	22,23	7/8	15,88 (5/8)	2	3	6.400 (80 m/s)	10	**03551**180	*see price list*
230	**9**	22,23	7/8	15,88 (5/8)	2,4	4	4.400 (80 m/s)	5	**03551**230	

DISCHI DIAMANTATI DISK VAC

EN *Diamond cutting blade DISK VAC*
FR *Disques diamantés DISK VAC*
ESP *Discos diamantados DISK VAC*
PT *Discos diamantados DISK VAC*

DISCHI DIAMANTATI CON TECNOLOGIA VACUUM:
Diamanti brasati sottovuoto direttamente sul supporto metallico, per massima esposizione del diamante, elevata resistenza e prestazioni costanti

VACUUM BRAZED DIAMOND BLADES:
Diamonds vacuum-brazed directly onto the steel core for maximum diamond exposure, high bond strength, and consistent performance.

03552



CERAMICA
Ceramic

Piastrelle/ceramica
Tiles

Grès porcellanato
Porcelain stoneware

Granito
Granite

Confezione
Packaging

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
76	**3"**	10	3/8	15,88 (5/8)	1,8	10	21.000 (80 m/s)	20	**03552**076	consultare
115	**4-1/2**	22,23	7/8	15,88 (5/8)	1,8	15	13.000 (80 m/s)	10	**03552**115	listino
125	**5**	22,23	7/8	15,88 (5/8)	1,8	15	12.200 (80 m/s)	10	**03552**125	*see price list*

03553



VETRO
Glass

Vetro
Glass

Piastrelle/ceramica
Tiles

Confezione
Packaging

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	anelli di riduzione *reduction rings* mm (inches)	spessore *thickness* mm (inches)	altezza segmento *segment height* mm	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	15,88 (5/8)	1,6	15	12.800 (80 m/s)	10	**03553**115	consultare listino *see price list*

MOLE DIAMANTATE

EN *Diamond grinding wheels*
FR *Meules diamantées*
ESP *Vasos Diamantados*
PT *Molas diamantadas*

03611 CYCLON



Confezione
Packaging

CALCESTRUZZO E PIETRE
Concrete and stone

Calcestruzzo
Concrete

Calcestruzzo armato
Reinforced concrete

Pietre naturali
Natural stones

DUST REMOVAL

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	13.300 (80 m/s)	1	**03611**115	consultare
125	**5**	22,23	7/8	12.250 (80 m/s)	1	**03611**125	listino

see price list

03612 TURBO



Confezione
Packaging

CALCESTRUZZO E MATERIALI EDILI
Concrete and building materials

Materiali da costruzione
Building materials

Calcestruzzo
Concrete

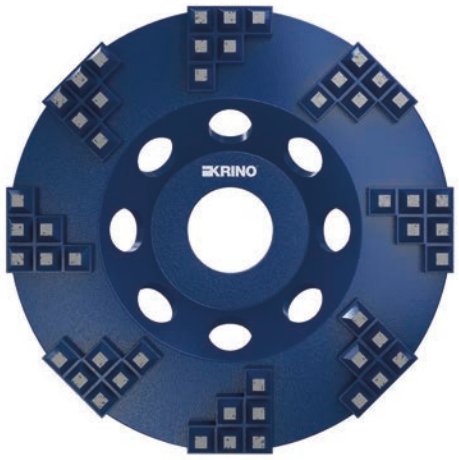
Granito
Granite

Materiali abrasivi
Abrasive materials

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	13.300 (80 m/s)	1	**03612**115	consultare
125	**5**	22,23	7/8	12.250 (80 m/s)	1	**03612**125	listino

see price list

03610 SPECIAL



Confezione
Packaging

COLLE E RESINE
Adhesives and resins

Adesivi
Adhesives

Colle
Glues

Intonaci
Plasters

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	13.300 (80 m/s)	1	**03610**115	consultare
125	**5**	22,23	7/8	12.250 (80 m/s)	1	**03610**125	listino

see price list

MOLE DIAMANTATE

EN *Diamond grinding wheels*
FR *Meules diamantées*
ESP *Vasos Diamantados*
PT *Molas diamantadas*

03613 UNIVERSAL



Confezione
Packaging

CALCESTRUZZO E MATERIALI EDILI - USO INTENSIVO

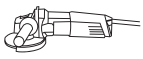
Concrete and building materials - Intensive use

Materiali da costruzione
Building materials

Calcestruzzo
Concrete

Granito
Granite

Materiali abrasivi
Abrasive materials



INTENSIVE USE

Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	13.300 (80 m/s)	1	**03613**115	consultare
125	**5**	22,23	7/8	12.250 (80 m/s)	1	**03613**125	listino

see price list

03623 UNIVERSAL



Confezione
Packaging

CALCESTRUZZO E MATERIALI EDILI

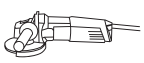
Concrete and building materials

Materiali da costruzione
Building materials

Calcestruzzo
Concrete

Granito
Granite

Materiali abrasivi
Abrasive materials



Ø mm	Ø inches	foro *hole* mm	foro *hole* inches	velocità max *max speed* RPM	pcs.	cod.	cad each €
115	**4-1/2**	22,23	7/8	13.300 (80m/s)	1	**03623**115	consultare
125	**5**	22,23	7/8	12.500 (80m/s)	1	**03623**125	listino
180	**7**	22,23	7/8	8.500 (80m/s)	1	**03623**180	*see price list*





UTENSILI PER LEGNO

Woodworking tools

Outils à bois

Utensilios para madera

Carpintaria ferramentas

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI, ALTA QUALITÀ HSS

EN *HSS wood working drills*
FR *Forets à bois HSS*
ESP *Broca HSS para madera*
PT *Brocas hss para trabalhar madeira*

05200 | **HSS** | **~DIN 7487**

HSS - PER LEGNO DURO
HSS - for hard wood

HSS
HRC ≡ 63





Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø *inches*	D *inches*	L *inches*	pcs.	cod.	cad / each €
3	3	33	61	**1/8**	1/8	2-3/8	1	**05200**0300	consultare
4	4	43	75	**5/32**	5/32	3	1	**05200**0400	listino
5	5	52	86	**3/16**	3/16	3-1/2	1	**05200**0500	*see price list*
6	6	57	93	**1/4**	1/4	3-5/8	1	**05200**0600	
7	7	69	109	**9/32**	9/32	4-5/16	1	**05200**0700	
8	8	75	117	**5/16**	5/16	4-5/8	1	**05200**0800	
9	9	81	125	**11/32**	11/32	4-15/16	1	**05200**0900	
10	10	87	133	**3/8**	3/8	5-1/4	1	**05200**1000	
11	10	94	142	**7/16**	3/8	5-5/8	1	**05200**1100	
12	10	101	151	**15/32**	3/8	6	1	**05200**1200	
13	10	101	151	**1/2**	3/8	6	1	**05200**1300	
14	10	108	160	**9/16**	3/8	6-3/8	1	**05200**1400	
15	10	114	169	**19/32**	3/8	6-3/4	1	**05200**1500	
16	10	120	178	**5/8**	3/8	7	1	**05200**1600	

SELF ART. 05201
Su richiesta / *On demand*



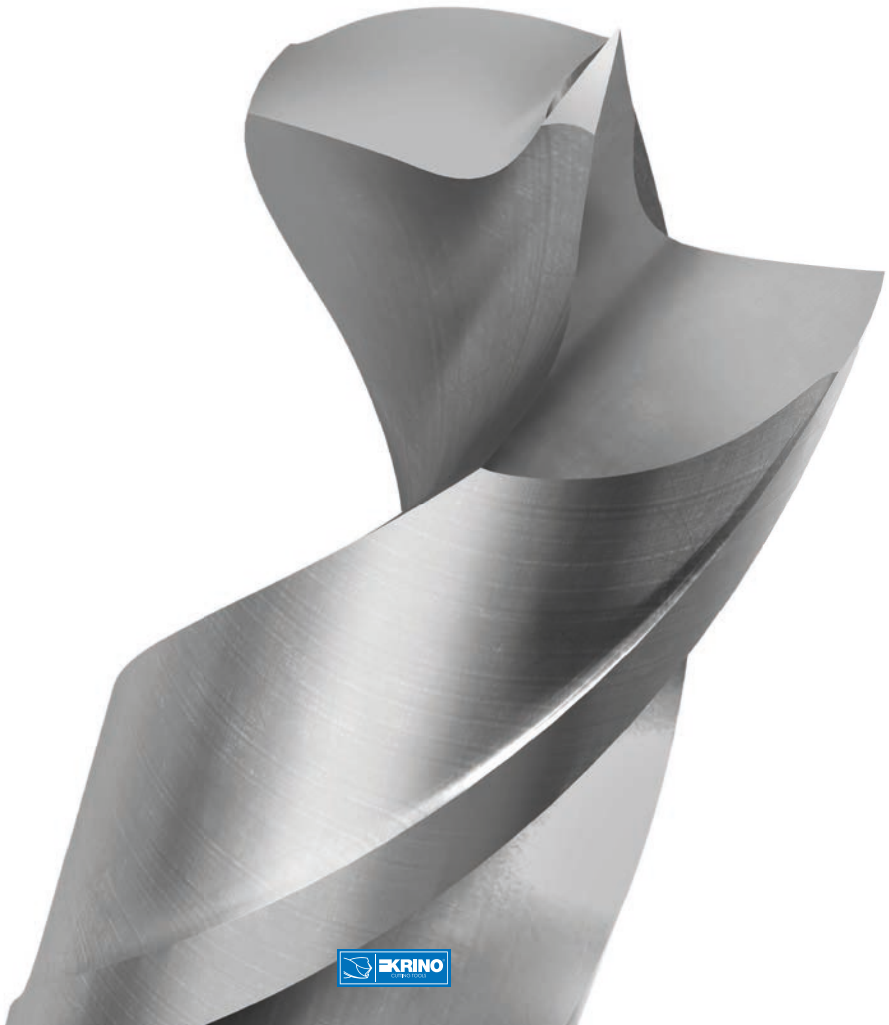
Art. 05010206

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 05010207

8 pcs
Ø 3 - 4 - 5 - 6
7 - 8 - 9 - 10 mm



Legno duro
Hard wood

Multistrato
Multilayer

Truciolato
Chipboard

Compositi fibrorinforzati (GFRP/CFRP)

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI CON ATTACCO HEX 1/4”

EN *Wood working drills, 1/4" Q.C. shank*
FR *Forets à bois avec 1/4" Q.C. queue*
ESP *Broca para madera con vastago 1/4" Q.C.*
PT *Brocas para trabalhar madeira, veio 1/4" Q.C.*

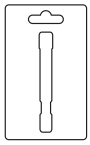
05008 **HSS**

HSS - PER LEGNO DURO
HSS for hard wood

HRC ≅ 50

1/4" HEX FORM E





Confezione
Packaging

Ø mm	L mm	l mm	Ø inches	L inches	l inches	pcs./ blister	pcs.	cod.	cad / each €
3	78	33	**1/8**	3-1/16	1-5/16	2	10	**05008**0300	consultare
4	92	43	**5/32**	3-5/8	1-11/16	2	10	**05008**0400	listino
5	103	52	**3/16**	4-1/16	2-1/16	1	10	**05008**0500	*see price list*
6	110	57	**15/64**	4-5/16	2-1/4	1	10	**05008**0600	
6,5	118	63	**1/4**	4-5/8	2-1/2	1	10	**05008**0650	
7	109	69	**9/32**	4-9/32	2-3/4	1	5	**05008**0700	
8	117	75	**5/16**	4-5/8	3	1	5	**05008**0800	
9	125	81	**11/32**	4-15/16	3-1/8	1	5	**05008**0900	
9,5	125	81	**3/8**	4-15/16	3-1/8	1	5	**05008**0950	
10	133	87	**25/64**	5-1/4	3-7/16	1	5	**05008**1000	
11	142	94	**7/16**	5-9/16	3-11/16	1	5	**05008**1100	
12	151	101	**15/32**	5-15/16	4	1	5	**05008**1200	
13	151	101	**1/2**	5-15/16	4	1	5	**05008**1300	



Art. 05010010

9 pcs

Composizione
Description

3 (1/8”) - 4 (5/32”) - 5 (3/16”) - 6 (15/64”)
6,5 (1/4”) - 7 (9/32”) - 8 (5/16”)
9 (11/32”) - 10 (3/8”) mm (inches)



Art. 05010020

5 pcs
Ø 4-5-6-8-10 mm



Art. 05010021

5 pcs
Ø 1/8”, 3/16”, 1/4”
5/16”, 3/8”

Legno duro
Hard wood

Multistrato
Multilayer

Truciolato
Chipboard

Universal Fit

PUNTE ELICOIDALI PER LEGNO A 4 TAGLIENTI CON ATTACCO HEX 1/4”

EN *HEX 1/4” shank drill bits for wood with 4 cutting edges*
FR *Forets hélicoïdaux pour bois avec 4 tranchants avec connexion hex 1/4”*
ESP *Brocas helicoidales para madera con 4 filos de corte con conexión hex 1/4”*
PT *Brocas hexagonais com veio de 1/4" para madeira com 4 arestas de corte*

05054 **C.V.**

ALTO RENDIMENTO - MASSIMA VELOCITÀ

High performance - max speed



1/4" HEX
FORM E





Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad / each €
10	1/4 QC	65	165	**25/64**	6-1/2	1	**05054**1000	consultare listino
12	1/4 QC	65	165	**15/32**	6-1/2	1	**05054**1200	*see price list*
14	1/4 QC	65	165	**9/16**	6-1/2	1	**05054**1400	
16	1/4 QC	65	165	**5/8**	6-1/2	1	**05054**1600	
18	1/4 QC	65	165	**23/32**	6-1/2	1	**05054**1800	
20	1/4 QC	65	165	**3/4**	6-1/2	1	**05054**2000	
22	1/4 QC	65	165	**7/8**	6-1/2	1	**05054**2200	
24	1/4 QC	65	165	**15/16**	6-1/2	1	**05054**2400	
25	1/4 QC	65	165	**1**	6-1/2	1	**05054**2500	
26	1/4 QC	65	165	**1-1/32**	6-1/2	1	**05054**2600	
28	1/4 QC	65	165	**1-1/8**	6-1/2	1	**05054**2800	
30	1/4 QC	65	165	**1-3/16**	6-1/2	1	**05054**3000	
32	1/4 QC	65	165	**1-1/4**	6-1/2	1	**05054**3200	



Art. 05055300

6 pcs
Ø 16 - 18 - 20
22 - 25 - 32 mm



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

PUNTE ELICOIDALI PER LEGNO CON PUNTA GUIDA A CENTRARE ED ELICHE AD ALTO SCARICO DEI TRUCIOLI

EN *HSS wood working drills*
FR *Forets à bois superprofessionnel*
ESP *Brocas para madera de alta calidad*
PT *Brocas hss para trabalhar madeira*

05210 C.V.

ALTE PRESTAZIONI - L=245 mm (10")

High performances - L=245 mm (10")

C.V.
HRC ≈ 55



Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø inches	D inches	L inches	pcs.	cod.	cad / each €
6	6	160	245	**1/4**	1/4	10	1	**05210**0600	consultare
8	8	160	245	**5/16**	5/16	10	1	**05210**0800	listino
10	10	160	245	**3/8**	3/8	10	1	**05210**1000	*see price list*
12	10	160	245	**15/32**	3/8	10	1	**05210**1200	
14	10	160	245	**9/16**	3/8	10	1	**05210**1400	
16	10	160	245	**5/8**	3/8	10	1	**05210**1600	
18	10	160	245	**23/32**	3/8	10	1	**05210**1800	
20	10	160	245	**25/32**	3/8	10	1	**05210**2000	
22	13	160	245	**7/8**	1/2	10	1	**05210**2200	
24	13	160	245	**15/16**	1/2	10	1	**05210**2400	

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

05212 HSS ~DIN 7487

ALTE PRESTAZIONI - L=400 mm (16")

High performances - L=400 mm (16")

C.V.
HRC ≈ 55



Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø inches	D inches	L inches	pcs.	cod.	cad / each €
6	6	160	400	**1/4**	1/4	16	1	**05212**0600	consultare
8	8	160	400	**5/16**	5/16	16	1	**05212**0800	listino
10	10	160	400	**3/8**	3/8	16	1	**05212**1000	*see price list*
12	10	250	400	**15/32**	3/8	16	1	**05212**1200	
14	10	250	400	**9/16**	3/8	16	1	**05212**1400	
16	10	250	400	**5/8**	3/8	16	1	**05212**1600	
18	10	250	400	**23/32**	3/8	16	1	**05212**1800	
20	10	250	400	**25/32**	3/8	16	1	**05212**2000	
22	13	250	400	**7/8**	1/2	16	1	**05212**2200	
24	13	250	400	**15/16**	1/2	16	1	**05212**2400	

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE

EN *Wood working drills, brad point*
FR *Forets à bois*
ESP *Broca para madera*
PT *Berbequins para trabalhar madeira, ponta de broca*

05001 C.V. ~DIN 7487

SERIE CORTA
Short serie

HRC ≅ 50



Confezione
Packaging

SELF ART. 05002
Su richiesta / *On demand*

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

Ø mm	D mm	l mm	L mm	Ø inches	D inches	L inches	pcs.	cod.	cad / each €
3	3	33	61	**1/8**	1/8	2-3/8	10	**05001**0300	consultare
4	4	43	75	**5/32**	5/32	3	10	**05001**0400	listino
5	5	52	86	**3/16**	3/16	3-1/2	10	**05001**0500	*see price list*
6	6	57	93	**15/64**	15/64	3-5/8	10	**05001**0600	
6,5	6,5	63	101	**1/4**	1/4	4	10	**05001**0650	
7	7	69	109	**9/32**	9/32	4-5/16	10	**05001**0700	
8	8	75	117	**5/16**	5/16	4-5/8	10	**05001**0800	
9	9	81	125	**11/32**	11/32	4-15/16	10	**05001**0900	
9,5	9,5	81	125	**3/8**	3/8	4-15/16	10	**05001**0950	
10	10	87	133	**25/64**	25/64	5-1/4	10	**05001**1000	
11	10	94	142	**7/16**	25/64	5-5/8	5	**05001**1100	
12	10	101	151	**15/32**	25/64	6	5	**05001**1200	
13	10	101	151	**1/2**	25/64	6	5	**05001**1300	
14	10	108	160	**9/16**	25/64	6-3/8	5	**05001**1400	
15	10	114	169	**19/32**	25/64	6-3/4	5	**05001**1500	
16	10	120	178	**5/8**	25/64	7	5	**05001**1600	
18	10	130	191	**23/32**	25/64	7-5/8	5	**05001**1800	
20	10	140	205	**3/4**	25/64	8-1/8	5	**05001**2000	
22	10	140	210	**7/8**	25/64	8-1/4	1	**05001**2200	
24	10	140	215	**15/16**	25/64	8-1/2	1	**05001**2400	
26	10	140	215	**1-1/32**	25/64	8-1/2	1	**05001**2600	
28	10	140	220	**1-1/8**	25/64	9	1	**05001**2800	
30	12	140	220	**1-3/16**	15/32	9	1	**05001**3000	



Art. 05010201

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Art. 05010202

8 pcs
Ø 3 - 4 - 5 - 6
7 - 8 - 9 - 10 mm

05020 C.V.

SERIE LUNGA L=245 mm (10")
Long serie L=245 mm (10")

HRC ≅ 50



Confezione
Packaging

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

Ø mm	D mm	l mm	L mm	Ø inches	D inches	L inches	pcs.	cod.	cad / each €
6	6	160	245	**1/4**	1/4	10	1	**05020**0600	consultare
7	7	160	245	**9/32**	9/32	10	1	**05020**0700	listino
8	8	160	245	**5/16**	5/16	10	1	**05020**0800	*see price list*
9	9	160	245	**11/32**	11/32	10	1	**05020**0900	
10	10	160	245	**3/8**	3/8	10	1	**05020**1000	
11	10	160	245	**7/16**	3/8	10	1	**05020**1100	
12	10	160	245	**15/32**	3/8	10	1	**05020**1200	
13	10	160	245	**1/2**	3/8	10	1	**05020**1300	
14	10	160	245	**9/16**	3/8	10	1	**05020**1400	
15	10	160	245	**19/32**	3/8	10	1	**05020**1500	
16	10	160	245	**5/8**	3/8	10	1	**05020**1600	
18	10	160	245	**23/32**	3/8	10	1	**05020**1800	
20	10	160	245	**25/32**	3/8	10	1	**05020**2000	
22	13	160	245	**7/8**	1/2	10	1	**05020**2200	
24	13	160	245	**15/16**	1/2	10	1	**05020**2400	

PUNTE ELICOIDALI PER LEGNO A 2 TAGLIENTI CON PUNTA GUIDA A CENTRARE

EN *Wood working drills, brad point*
FR *Forets à bois*
ESP *Broca para madera*
PT *Berbequins para trabalhar madeira, ponta de broca*

05025 | **c.v.**

SERIE LUNGA L=400 mm (16")

Long serie L=400 mm (16")

HRC ≅ 50



Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø *inches*	D *inches*	L *inches*	pcs.	cod.	cad / each €
6	6	230	400	**1/4**	1/4	16	1	**05025**0600	consultare
8	8	230	400	**5/16**	5/16	16	1	**05025**0800	listino
10	10	230	400	**3/8**	3/8	16	1	**05025**1000	*see price list*
12	10	230	400	**15/32**	3/8	16	1	**05025**1200	
13	10	230	400	**1/2**	3/8	16	1	**05025**1300	
14	10	230	400	**9/16**	3/8	16	1	**05025**1400	
15	10	230	400	**19/32**	3/8	16	1	**05025**1500	
16	10	230	400	**5/8**	3/8	16	1	**05025**1600	
18	10	230	400	**23/32**	3/8	16	1	**05025**1800	
20	10	230	400	**3/4**	3/8	16	1	**05025**2000	
22	13	230	400	**7/8**	1/2	16	1	**05025**2200	
24	13	230	400	**15/16**	1/2	16	1	**05025**2400	
26	13	230	400	**1-1/32**	1/2	16	1	**05025**2600	
28	13	230	400	**1-1/8**	1/2	16	1	**05025**2800	
30	13	230	400	**1-3/16**	1/2	16	1	**05025**3000	



330x590x380 mm

Art. 05010503

137 pcs
Ø 3÷16 mm

Composizione
Description

05001

Ø mm	pcs.
3	10
4	10
5	10
6	10
7	10
8	10
9	10
10	10
12	5
14	5
16	3

05020

Ø mm	pcs.
6x245	5
8x245	5
10x245	5
12x245	5
14x245	3

05025

Ø mm	pcs.
6x400	5
8x400	5
10x400	5
12x400	3
14x400	3

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

PUNTE PER LEGNO PROFESSIONALI A SPIRALE SINGOLA TIPO LEWIS, GAMBO ESAGONALE

EN *Hexagonal shank auger bits, Lewis type, for professional use*
FR *Mèche à bois à spirale unique pour percage professionnel*
ESP *Broca para madera tipo LeWis para cortes professionales*
PT *Brocas de veio hexagonal, tipo lewis, para uso profissional*

HRC ≅ 50

Confezione
Packaging



TIPO LEWIS - PER TRAVI IN LEGNO

Lewis type - For wooden beams

05035 C.V.

L = 155 mm (6")
/ = 90 mm (3-1/2")

Ø mm	D mm	Ø inches	D inches	pcs.	cod.	cad each €
6	6	1/4	1/4	1	05035**0600**	consultare
8	8	5/16	5/16	1	05035**0800**	listino
10	10	3/8	3/8	1	05035**1000**	*see*
12	10	15/32	3/8	1	05035**1200**	*price list*
14	10	9/16	3/8	1	05035**1400**	
16	10	5/8	3/8	1	05035**1600**	
18	13	23/32	1/2	1	05035**1800**	
20	13	25/32	1/2	1	05035**2000**	
22	13	7/8	1/2	1	05035**2200**	
24	13	15/16	1/2	1	05035**2400**	

05036 C.V.

L = 235 mm (9-1/4")
/ = 160 mm (6-5/16")

Ø mm	D mm	Ø inches	D inches	pcs.	cod.	cad each €
6	6	1/4	1/4	1	05036**0600**	consultare
8	8	5/16	5/16	1	05036**0800**	listino
10	10	3/8	3/8	1	05036**1000**	*see*
12	10	15/32	3/8	1	05036**1200**	*price list*
14	10	9/16	3/8	1	05036**1400**	
16	10	5/8	3/8	1	05036**1600**	
18	13	23/32	1/2	1	05036**1800**	
20	13	25/32	1/2	1	05036**2000**	
22	13	7/8	1/2	1	05036**2200**	
24	13	15/16	1/2	1	05036**2400**	

05040 C.V.

L = 300 mm (12")
/ = 220 mm (8-11/16")

Ø mm	D mm	Ø inches	D inches	pcs.	cod.	cad each €
6	6	1/4	1/4	1	05040**0600**	consultare
8	8	5/16	5/16	1	05040**0800**	listino
9	9	11/32	11/32	1	05040**0900**	*see*
10	10	3/8	3/8	1	05040**1000**	*price list*
11	10	7/16	3/8	1	05040**1100**	
12	10	15/32	3/8	1	05040**1200**	
13	10	1/2	3/8	1	05040**1300**	
14	10	9/16	3/8	1	05040**1400**	
15	10	19/32	3/8	1	05040**1500**	
16	10	5/8	3/8	1	05040**1600**	
18	13	23/32	1/2	1	05040**1800**	
20	13	25/32	1/2	1	05040**2000**	
22	13	7/8	1/2	1	05040**2200**	
24	13	15/16	1/2	1	05040**2400**	
25	13	1	1/2	1	05040**2500**	
26	13	1-1/32	1/2	1	05040**2600**	
28	13	1-1/8	1/2	1	05040**2800**	
30	13	1-3/16	1/2	1	05040**3000**	
32	13	1-1/4	1/2	1	05040**3200**	

Art. 05240300

7 pcs
L = 300 mm
Ø 8 - 10 - 12 - 14
16 - 18 - 20 mm

Cassetta in legno o in metallo
Metal or wooden case



05042 C.V.

L = 460 mm (18-1/8")
/ = 360 mm (14-1/8")

Ø mm	D mm	Ø inches	D inches	pcs.	cod.	cad each €
6	6	1/4	1/4	1	05042**0600**	consultare
8	8	5/16	5/16	1	05042**0800**	listino
10	10	3/8	3/8	1	05042**1000**	*see*
12	10	15/32	3/8	1	05042**1200**	*price list*
13	10	1/2	3/8	1	05042**1300**	
14	10	9/16	3/8	1	05042**1400**	
16	10	5/8	3/8	1	05042**1600**	
18	13	23/32	1/2	1	05042**1800**	
20	13	25/32	1/2	1	05042**2000**	
22	13	7/8	1/2	1	05042**2200**	
24	13	15/16	1/2	1	05042**2400**	
25	13	1	1/2	1	05042**2500**	
26	13	1-1/32	1/2	1	05042**2600**	
28	13	1-1/8	1/2	1	05042**2800**	
30	13	1-3/16	1/2	1	05042**3000**	
32	13	1-1/4	1/2	1	05042**3200**	
35	13	1-3/8	1/2	1	05042**3500**	
40	13	1-37/64	1/2	1	05042**4000**	

Art. 05240301

6 pcs
L = 460 mm
Ø 10 - 12 - 14
16 - 18 - 20 mm



Cassetta in legno o in metallo
Metal or wooden case

05044 C.V.

L = 600 mm (24")
/ = 400 mm (15-3/4")

Ø mm	D mm	Ø inches	D inches	pcs.	cod.	cad each €
8	8	1/4	1/4	1	05044**0800**	consultare
10	10	3/8	3/8	1	05044**1000**	listino
12	10	15/32	3/8	1	05044**1200**	*see*
13	10	1/2	3/8	1	05044**1300**	*price list*
14	10	9/16	3/8	1	05044**1400**	
16	10	5/8	3/8	1	05044**1600**	
18	13	23/32	1/2	1	05044**1800**	
20	13	25/32	1/2	1	05044**2000**	
22	13	7/8	1/2	1	05044**2200**	
24	13	15/16	1/2	1	05044**2400**	
25	13	1	1/2	1	05044**2500**	
26	13	1-1/32	1/2	1	05044**2600**	
28	13	1-1/8	1/2	1	05044**2800**	
30	13	1-3/16	1/2	1	05044**3000**	
32	13	1-1/4	1/2	1	05044**3200**	

Legno
Wood

Legno lamellare
Laminated wood

Truciolato
Chipboard

PUNTE PER LEGNO PROFESSIONALI A SPIRALE SINGOLA TIPO LEWIS, GAMBO SDS-PLUS

EN *SDS-PLUS shank auger bits, Lewis type, for professional use*
FR *Mèche à bois à spirale unique avec queue SDS-PLUS*
ESP *Broca para madera tipo Lewis con vastago SDS-PLUS*
PT *Brocas de veio SDS-PLUS, tipo lewis, para uso profissional*

HRC ≅ 50

SDS PLUS

Confezione
Packaging



TIPO LEWIS - PER TRAVI IN LEGNO

Lewis type - For wooden beams

05037 C.V. — SDS-PLUS L = 235 mm (9-1/4")

Ø mm	l mm	L mm	Ø inches	L inches	pcs.	cod.	cad each €
8	160	235	**1/4**	9-1/4	1	**05037**0800	consultare
10	160	235	**3/8**	9-1/4	1	**05037**1000	listino
12	160	235	**15/32**	9-1/4	1	**05037**1200	*see*
14	160	235	**9/16**	9-1/4	1	**05037**1400	*price list*
16	160	235	**5/8**	9-1/4	1	**05037**1600	
18	160	235	**23/32**	9-1/4	1	**05037**1800	
20	160	235	**25/32**	9-1/4	1	**05037**2000	
22	160	235	**7/8**	9-1/4	1	**05037**2200	
24	160	235	**15/16**	9-1/4	1	**05037**2400	



Cassetta in metallo
Metal case

Art. 05240307

7 pcs
SDS-PLUS
L = 235 mm
Ø 8 - 10 - 12 - 14
16 - 18 - 20 mm

05038 C.V. — SDS-PLUS L = 460 mm (18-1/8")

Ø mm	l mm	L mm	Ø inches	L inches	pcs.	cod.	cad each €
8	360	460	**1/4**	18-1/8	1	**05038**0800	consultare
10	360	460	**3/8**	18-1/8	1	**05038**1000	listino
12	360	460	**15/32**	18-1/8	1	**05038**1200	*see*
14	360	460	**9/16**	18-1/8	1	**05038**1400	*price list*
16	360	460	**5/8**	18-1/8	1	**05038**1600	
18	360	460	**23/32**	18-1/8	1	**05038**1800	
20	360	460	**25/32**	18-1/8	1	**05038**2000	
22	360	460	**7/8**	18-1/8	1	**05038**2200	
24	360	460	**15/16**	18-1/8	1	**05038**2400	



Cassetta in metallo
Metal case

Art. 05240308

6 pcs
SDS-PLUS
L = 460 mm
Ø 10 - 12 - 14
16 - 18 - 20 mm

PUNTE ELICOIDALI PER LEGNO, SERIE LUNGA, SPECIALI PER CASSEFORMI

EN *Wood working drills for plankings*
FR *Forets pour coffrages*
ESP *Broca para madera*
PT *Brocas para trabalhar madeira para tábuas*

05030 | **C.V.**

SPECIALE PER CASSEFORMI - L=400 mm (16")

Special for plankings - L=400 mm (16")



HRC ≅ 50







Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø *inches*	D *inches*	L *inches*	pcs.	cod.	cad / each €
6	5	100	400	**1/4**	3/16	16	1	**05030**0600	consultare
8	7	100	400	**5/16**	9/32	16	1	**05030**0800	listino
10	9	100	400	**3/8**	11/32	16	1	**05030**1000	*see price list*
12	10	100	400	**15/32**	3/8	16	1	**05030**1200	
14	10	100	400	**9/16**	3/8	16	1	**05030**1400	
16	10	100	400	**5/8**	3/8	16	1	**05030**1600	
18	13	100	400	**23/32**	1/2	16	1	**05030**1800	
20	13	100	400	**25/32**	1/2	16	1	**05030**2000	
22	13	100	400	**7/8**	1/2	16	1	**05030**2200	
24	13	100	400	**15/16**	1/2	16	1	**05030**2400	
26	13	100	400	**1-1/32**	1/2	16	1	**05030**2600	
28	13	100	400	**1-1/8**	1/2	16	1	**05030**2800	
30	13	100	400	**1-3/16**	1/2	16	1	**05030**3000	



Legno
Wood



Multistrato
Multilayer



Ferro
Iron

PUNTE ELICOIDALI PER LEGNO, SERIE LUNGA, SPECIALI PER CASSEFORMI

EN *Wood working drills for plankings*
FR *Forets pour coffrages*
ESP *Broca para madera*
PT *Brocas para trabalhar madeira para tábuas*

05033 | **C.V.**

SPECIALE PER CASSEFORMI - L=600 mm (24")

Special for plankings - L=600 mm (24")

90°
HRC ≅ 50



Confezione
Packaging

Ø mm	D mm	l mm	L mm	Ø inches	D inches	L inches	pcs.	cod.	cad / each €
6	5	100	600	**1/4**	3/16	24	1	**05033**0600	consultare
8	7	100	600	**5/16**	9/32	24	1	**05033**0800	listino
10	9	100	600	**3/8**	11/32	24	1	**05033**1000	*see price list*
12	10	100	600	**15/32**	3/8	24	1	**05033**1200	
14	10	100	600	**9/16**	3/8	24	1	**05033**1400	
16	10	100	600	**5/8**	3/8	24	1	**05033**1600	
18	13	100	600	**23/32**	1/2	24	1	**05033**1800	
20	13	100	600	**25/32**	1/2	24	1	**05033**2000	
22	13	100	600	**7/8**	1/2	24	1	**05033**2200	
24	13	100	600	**15/16**	1/2	24	1	**05033**2400	
26	13	100	600	**1-1/32**	1/2	24	1	**05033**2600	
28	13	100	600	**1-1/8**	1/2	24	1	**05033**2800	
30	13	100	600	**1-3/16**	1/2	24	1	**05033**3000	



Legno
Wood

Multistrato
Multilayer

Ferro
Iron

MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE

EN *Hexagonal shank wood spade bits*
FR *Mèche à bois plate*
ESP *Broca plana para madera*
PT *Brocas plana para madeira com veio hexagonal*

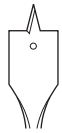
05056

05057

C.V.

SERIE CORTA - L=150 mm (6")

Short serie - L=150 mm (6")

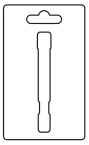


HRC = 48÷50



1/4" HEX
FORM E





Confezione
Packaging

METRIC SERIE - mm

Ø mm	D	L mm	pcs.	cod.	cad / each €
6	1/4 QC	150	5	**050560**600	consultare listino
8	1/4 QC	150	5	**050560**800	*see price list*
10	1/4 QC	150	5	**050561**000	
11	1/4 QC	150	5	**050561**100	
12	1/4 QC	150	5	**050561**200	
13	1/4 QC	150	5	**050561**300	
14	1/4 QC	150	5	**050561**400	
16	1/4 QC	150	5	**050561**600	
18	1/4 QC	150	5	**050561**800	
19	1/4 QC	150	5	**050561**900	
20	1/4 QC	150	5	**050562**000	
22	1/4 QC	150	5	**050562**200	
24	1/4 QC	150	5	**050562**400	
25	1/4 QC	150	5	**050562**500	
26	1/4 QC	150	5	**050562**600	
28	1/4 QC	150	5	**050562**800	
30	1/4 QC	150	5	**050563**000	
32	1/4 QC	150	5	**050563**200	
35	1/4 QC	150	5	**050563**500	
38	1/4 QC	150	5	**050563**800	
40	1/4 QC	150	5	**050564**000	

IMPERIAL SERIE - INCHES

Ø *inches*	D	L *inches*	pcs.	cod.	cad / each €
1/4	1/4 QC	6	5	**0505726**	consultare listino
5/16	1/4 QC	6	5	**0505730**	*see price list*
3/8	1/4 QC	6	5	**0505734**	
7/16	1/4 QC	6	5	**0505738**	
1/2	1/4 QC	6	5	**0505742**	
9/16	1/4 QC	6	5	**0505746**	
5/8	1/4 QC	6	5	**0505750**	
11/16	1/4 QC	6	5	**0505754**	
3/4	1/4 QC	6	5	**0505758**	
13/16	1/4 QC	6	5	**0505760**	
7/8	1/4 QC	6	5	**0505764**	
1	1/4 QC	6	5	**0505771**	
1-1/8	1/4 QC	6	5	**0505777**	
1-1/4	1/4 QC	6	5	**0505784**	
1-3/8	1/4 QC	6	5	**0505791**	
1-1/2	1/4 QC	6	5	**0505798**	



Art. 05055110

6 pcs
10÷25 mm
metric set
Ø10 - 12 - 16
18 - 20 - 25 mm



Art. 05055116

7 pcs
3/8"÷1-1/8"
imperial set
Ø3/8" - 1/2" - 5/8"
3/4" - 7/8" - 1" - 1-1/8"



Art. 05055115

5 pcs
3/8"÷1"
imperial set
Ø3/8" - 1/2" - 5/8"
3/4" - 1"

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

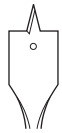
MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE

EN *Hexagonal shank wood spade bits*
FR *Mèche à bois plate*
ESP *Broca plana para madera*
PT *Brocas plana para madeira com veio hexagonal*

05045 C.V.

SERIE CORTA - L=150 mm (6")

Short serie - L=150 mm (6")



HRC = 48÷50



1/4" HEX
FORM E





Confezione
Packaging

Ø mm	D mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad / each €
6	1/4 QC	150	**1/4**	6	5	**050450600**	consultare
8	1/4 QC	150	**5/16**	6	5	**050450800**	listino
9	1/4 QC	150	**11/32**	6	5	**050450900**	*see price list*
10	1/4 QC	150	**3/8**	6	5	**050451000**	
11	1/4 QC	150	**7/16**	6	5	**050451100**	
12	1/4 QC	150	**15/32**	6	5	**050451200**	
13	1/4 QC	150	**1/2**	6	5	**050451300**	
14	1/4 QC	150	**9/16**	6	5	**050451400**	
15	1/4 QC	150	**19/32**	6	5	**050451500**	
16	1/4 QC	150	**5/8**	6	5	**050451600**	
18	1/4 QC	150	**23/32**	6	5	**050451800**	
19	1/4 QC	150	**3/4**	6	5	**050451900**	
20	1/4 QC	150	**25/32**	6	5	**050452000**	
22	1/4 QC	150	**7/8**	6	5	**050452200**	
24	1/4 QC	150	**15/16**	6	5	**050452400**	
25	1/4 QC	150	**1**	6	5	**050452500**	
26	1/4 QC	160	**1-1/32**	6-3/8	5	**050452600**	
28	1/4 QC	160	**1-1/8**	6-3/8	5	**050452800**	
30	1/4 QC	160	**1-3/16**	6-3/8	5	**050453000**	
32	1/4 QC	160	**1-1/4**	6-3/8	5	**050453200**	
34	1/4 QC	160	**1-11/32**	6-3/8	5	**050453400**	
35	1/4 QC	160	**1-3/8**	6-3/8	5	**050453500**	
36	1/4 QC	160	**1-27/64**	6-3/8	5	**050453600**	
38	1/4 QC	160	**1-1/2**	6-3/8	5	**050453800**	
40	1/4 QC	160	**1-37/64**	6-3/8	5	**050454000**	



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

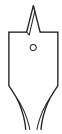
In esaurimento
**Running out*



05048 C.V.

SERIE LUNGA - L=400 mm (16")

Long serie - L=400 mm (16")



HRC = 48÷50



1/4" HEX
FORM E





Confezione
Packaging

Ø mm	D mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad / each €
6	4,5 HEX	400	**1/4**	16	5	**050480600**	consultare
8	1/4 QC	400	**5/16**	16	5	**050480800**	listino
10	1/4 QC	400	**3/8**	16	5	**050481000**	*see price list*
12	1/4 QC	400	**15/32**	16	5	**050481200**	
14	1/4 QC	400	**9/16**	16	5	**050481400**	
16	1/4 QC	400	**5/8**	16	5	**050481600**	
18	1/4 QC	400	**23/32**	16	5	**050481800**	
20	1/4 QC	400	**25/32**	16	5	**050482000**	
22	1/4 QC	400	**7/8**	16	5	**050482200**	
24	1/4 QC	400	**15/16**	16	5	**050482400**	
25	1/4 QC	400	**1**	16	5	**050482500**	
***26**	1/4 QC	400	**1-1/32**	16	5	**050482600**	
***28**	1/4 QC	400	**1-1/8**	16	5	**050482800**	
***30**	1/4 QC	400	**1-3/16**	16	5	**050483000**	
***32**	1/4 QC	400	**1-1/4**	16	5	**050483200**	
***34**	1/4 QC	400	**1-11/32**	16	5	**050483400**	
***35**	1/4 QC	400	**1-3/8**	16	5	**050483500**	
***36**	1/4 QC	400	**1-27/64**	16	5	**050483600**	
***38**	1/4 QC	400	**1-1/2**	16	5	**050483800**	
***40**	1/4 QC	400	**1-37/64**	16	5	**050484000**	



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

*In esaurimento
**Running out*



PROLUNGA PER MECCHIE

EN *Spade bit extension*
FR *Rallonge de tarière de pelle*
ESP *Extension para broca plana*
PT *Extensão da broca plana*

05046

L= 300 mm (12")

L= 300 mm (12")





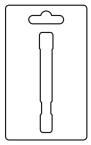
Confezione
Packaging

Ø mm	D	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad / each €
13	1/4 QC	300	**1/2**	12	1	**05046**	consultare listino *see price list*

L= 150 mm (6")

L= 150 mm (6")





Confezione
Packaging

D in/out	L mm	L *inches*	pcs.	cod.	cad / each €
1/4 QC	150	6	1	**05046**150	consultare listino *see price list*

MECCHIE PIATTE PER LEGNO, CODOLO ESAGONALE

EN *Hexagonal shank wood spade bits*
ESP *Broca plana para madera*
FR *Mèche à bois plate*
PT *Brocas para madeira com veio hexagonal*

05050

C.V.

DIAMETRO REGOLABILE

Adjustable diameter





Confezione
Packaging

Ø min -max mm	D mm	Ø min -max *inches*	D *inches*	pcs.	cod.	cad / each €
14,5 ÷ 45	10	**37/64 ÷ 1-25/32**	3/8	1	**05050**01	consultare listino
22 ÷ 75	10	**7/8 ÷ 2-15/16**	3/8	1	**05050**02	*see price list*

RICAMBIO
Spare parts



Ø min -max mm	Ø min -max *inches*	pcs.	cod.	cad / each €
14,5 ÷ 45 (2pcs)	**37/64 ÷ 1-25/32**	1	**05050**11	consultare listino
22 ÷ 75 (2pcs)	**7/8 ÷ 2-15/16**	1	**05050**12	*see price list*



Legno
Wood



Multistrato
Multilayer



Truciolato
Chipboard

FRESE TIPO FORSTNER A DUE TAGLIENTI CON PUNTA DA CENTRO ED INCISORI PER FORI NEL LEGNO

EN *Wood center bits, Forstner type*
FR *Mèche à bois plate*
ESP *Broca Forstner*
PT *Brocas plana para madeira com veio hexagonal*

05065 — HM — ~ DIN 7483

Carbide

PER LEGNO DURO - USO INTENSIVO

For hard wood - intensive use



Metallo duro
Carbide





Confezione
Packaging

Legno duro e derivati
Hard wood

Ø mm	D mm	L mm	Ø inches	L inches	pcs.	cod.	cad / each €
15	8	90	19/32	3-1/2	1	050651500	consultare
20	8	90	3/4	3-1/2	1	050652000	listino
25	8	90	1	3-1/2	1	050652500	*see price list*
26	8	90	1-1/32	3-1/2	1	050652600	
30	8	90	1-3/16	3-1/2	1	050653000	
35	10	90	1-3/8	3-1/2	1	050653500	

05067 — C.V. — ~ DIN 7483

ALTO RENDIMENTO

High performance



HRC ≃ 55





Confezione
Packaging

Legno dolce e derivati
Mild wood



Art. 05100605

5 pcs
Ø15 - 20 - 25
30 - 35 mm

Ø mm	D mm	L mm	Ø inches	L inches	pcs.	cod.	cad / each €
15	8	90	19/32	3-1/2	1	050671500	consultare
18	8	90	23/32	3-1/2	1	050671800	listino
20	8	90	3/4	3-1/2	1	050672000	*see price list*
22	8	90	7/8	3-1/2	1	050672200	
24	8	90	15/16	3-1/2	1	050672400	
25	8	90	1	3-1/2	1	050672500	
26	8	90	1-1/32	3-1/2	1	050672600	
28	8	90	1-1/8	3-1/2	1	050672800	
30	8	90	1-3/16	3-1/2	1	050673000	
35	10	90	1-3/8	3-1/2	1	050673500	
40	10	90	1-9/16	3-1/2	1	050674000	
45	10	90	1-3/4	3-1/2	1	050674500	
48	10	90	1-7/8	3-1/2	1	050674800	
50	10	90	2	3-1/2	1	050675000	

05063 — C.V. — ~ DIN 7483



HRC ≃ 48÷50





Confezione
Packaging

Legno dolce e derivati
Mild wood



Art. 05100600

5 pcs
Ø15 - 20 - 25
30 - 35 mm

Ø mm	D mm	L mm	Ø inches	L inches	pcs.	cod.	cad / each €
10	8	90	3/8	3-1/2	1	050631000	consultare
12	8	90	15/32	3-1/2	1	050631200	listino
14	8	90	9/16	3-1/2	1	050631400	*see price list*
15	8	90	19/32	3-1/2	1	050631500	
16	8	90	1-3/16	3-1/2	1	050631600	
17	8	90	1-3/8	3-1/2	1	050631700	
18	8	90	23/32	3-1/2	1	050631800	
20	8	90	3/4	3-1/2	1	050632000	
22	8	90	7/8	3-1/2	1	050632200	
24	8	90	15/16	3-1/2	1	050632400	
25	8	90	1	3-1/2	1	050632500	
26	8	90	1-1/32	3-1/2	1	050632600	
28	8	90	1-1/8	3-1/2	1	050632800	
30	8	90	1-3/16	3-1/2	1	050633000	
32	10	90	1-1/4	3-1/2	1	050633200	
34	10	90	1-5/16	3-1/2	1	050633400	
35	10	90	1-3/8	3-1/2	1	050633500	
36	10	90	1-7/16	3-1/2	1	050633600	
38	10	90	1-1/2	3-1/2	1	050633800	
40	10	100	1-9/16	4	1	050634000	
45	10	100	1-3/4	4	1	050634500	
50	10	100	2	4	1	050635000	

FRESE PER CERNIERE INVISIBILI

EN *Wood center bits*
FR *Mèche pour charnière invisible*
ESP *Barrena para madera*
PT *Bits de centro de madeira*

PER CERNIERE INVISIBILI
For invisible hinges



Confezione
Packaging

05058 **C.V.**

Ø mm	D mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad each €
26	8	55	**1-1/32**	2-1/4	1	**05058**2600	consultare
30	8	55	**1-3/16**	2-1/4	1	**05058**3000	listino
35	10	60	**1-3/8**	2-1/2	1	**05058**3500	*see price list*

05060 **HM** *Carbide edges*

Ø mm	D mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad each €
26	8	55	**1-1/32**	2-1/4	1	**05060**2600	consultare
30	8	55	**1-3/16**	2-1/4	1	**05060**3000	listino
35	10	60	**1-3/8**	2-1/2	1	**05060**3500	*see price list*

FRESE PER TASSELLI

EN *Tenon dowel plug cutters*
ESP *Fresas para cuñas*
FR *Fraises pour goujons*
PT *Fresas para buchas de espiga*

05077 **C.V.** **DIN 7489**

PER TASSELLI
Tenon dowel plug cutters



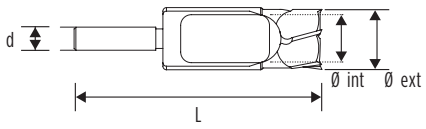
Confezione
Packaging

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

Ø int mm	Ø est mm	n. taglienti *cutting edges*	d mm	L mm	Ø int *inches*	L *inches*	pcs.	cod.	cad / each €
8	19	4	13	140	**5/16**	5-1/2	1	**05077**0800	consultare listino
10	21	4	13	140	**3/8**	5-1/2	1	**05077**1000	*see price list*
12	24	4	13	140	**15/32**	5-1/2	1	**05077**1200	
15	26,5	4	13	140	**19/32**	5-1/2	1	**05077**1500	
16	27,5	4	13	140	**5/8**	5-1/2	1	**05077**1600	
20	32	4	13	140	**3/4**	5-1/2	1	**05077**2000	
22	34	4	13	140	**7/8**	5-1/2	1	**05077**2200	
25	37	5	13	140	**1**	5-1/2	1	**05077**2500	
26	38	5	13	140	**1-1/32**	5-1/2	1	**05077**2600	
30	42	5	13	140	**1-3/16**	5-1/2	1	**05077**3000	
35	47	6	16	160	**1-3/8**	6-3/8	1	**05077**3500	
40	52	6	16	160	**1-37/64**	6-3/8	1	**05077**4000	



TRIVELLINO PROFESSIONALE PER LEGNO

EN *Two flute gimlet*
ESP *Broca de dos flautas*
FR *Vrille professionnel*
PT *Gimlet de duas ranhuras*

05076



Ø mm	L mm	Ø *inches*	pcs.	cod.	cad / each €
2	110	**5/64**	1	**05076**0200	consultare listino
3	115	**1/8**	1	**05076**0300	*see price list*
4	135	**5/32**	1	**05076**0400	
5	140	**3/16**	1	**05076**0500	
6	160	**1/4**	1	**05076**0600	
7	170	**9/32**	1	**05076**0700	

SVASATORE 90° PER LEGNO

EN *Wood center bits*
FR *Fraise à ébavurer pour bois*
ESP *Avellanadores para madera*
PT *Bits de centro de madeira*

05440 | **C.V.**

90°

90°

Z=5



Confezione
Packaging

SELF ART. 05442
Su richiesta / *On demand*

Legno
Wood

Multistrato
Multilayer

Truciolato
Chipboard

Ø mm	D mm	L mm	Ø *inches*	D mm	L *inches*	pcs.	cod.	cad / each €
8	6	50	**5/16**	1/4	1-31/32	1	**05440**500800	consultare
10	8	50	**3/8**	5/16	1-31/32	1	**05440**501000	listino
12	8	50	**15/32**	5/16	1-31/32	1	**05440**501200	*see price list*
16	8	50	**5/8**	5/16	1-31/32	1	**05440**501600	
19	8	50	**3/4**	5/16	1-31/32	1	**05440**501900	

FRESA A 90° PER LEGNO

EN *90° milling cutters*
ESP *Fresas de avellanar para madera*

FR *Fraise a 90° pour bois*
PT *Fresas de 90°*

05070 | **C.V.**



Confezione
Packaging

Ø mm	D mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad / each €
3	16	25	**1/8**	1	1	**05070**0300	consultare
4	16	25	**5/32**	1	1	**05070**0400	listino
5	16	25	**3/16**	1	1	**05070**0500	*see price list*
6	16	25	**1/4**	1	1	**05070**0600	
7	16	25	**9/32**	1	1	**05070**0700	
8	20	25	**5/16**	1	1	**05070**0800	
9	20	25	**11/32**	1	1	**05070**0900	
10	20	25	**3/8**	1	1	**05070**1000	
11	20	25	**7/16**	1	1	**05070**1100	
12	20	25	**15/32**	1	1	**05070**1200	

FRESA A 90° + PUNTA PER LEGNO

EN *90° milling cutters + drill bit for wood*
ESP *Fresas de avellanar + broca para madera*

FR *Fraise a 90° + foret pour bois*
PT *Fresas de 90° + broca para madeira*

05072 | **C.V.**



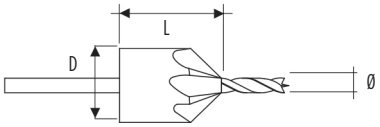
Art. 05010205

5 pcs
Ø 4 - 5 - 6
8 - 10 mm



Confezione
Packaging

Ø mm	D mm	L mm	Ø *inches*	L *inches*	pcs.	cod.	cad / each €
3	16	25	**1/8**	1	1	**05072**0300	consultare
4	16	25	**5/32**	1	1	**05072**0400	listino
5	16	25	**3/16**	1	1	**05072**0500	*see price list*
6	16	25	**1/4**	1	1	**05072**0600	
7	16	25	**9/32**	1	1	**05072**0700	
8	20	25	**5/16**	1	1	**05072**0800	
10	20	25	**3/8**	1	1	**05072**1000	
12	20	25	**15/32**	1	1	**05072**1200	

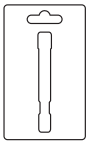


SEGHE A TAZZA PER LEGNO CON LAME INTERCAMBIABILI IN ACCIAIO W.S.

EN *Tool steel hole - saw kit for wood*
FR *Scies trépans pour bois en acier outil*
ESP *Coronas perforadoras para madera*
PT *Kit de serra copo em aço para madeira*

05080 **C.V.**





Confezione
Packaging

Composizione ***Size***	H mm	 pcs.	cod.	cad / each €
7 pcs Ø 26 - 32 - 38 - 45 - 50 - 56 - 63	25	1	**05080**100	consultare listino
7 pcs Ø 26 - 32 - 38 - 45 - 50 - 56 - 63	50	1	**05080**101	*see price list*
5 pcs Ø 60 - 67 - 74 - 83 - 95	40	1	**05080**102	


Legno
Wood


Multistrato
Multilayer


Truciolato
Chipboard

KIT PER LEGNO E CARTONGESSO

Tool steel hole - saw kit for wood



Art. 05079600

Ø 40÷200 mm

Composizione ***Description***	 pcs.
Sega regolabile a compasso con punta a centrare, due incisori e attacco hex per uso su trapani con mandrino a cremagliera. *Adjustable compass saw with centering tip, two engravers and hex attachment to fit drill chuck with key.*	1
 Ø 4 - 5 - 6 - 8 - 10 mm Ø 4 - 5 - 6 - 8 - 10 mm	
Campana protettiva antipolvere trasparente Ø 280 mm *Transparent dustproof protective bell Ø 280 mm*	1
Matita *Pencil*	1
Flessometro *Measuring tape*	1

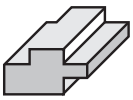
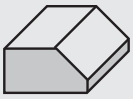
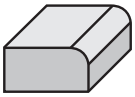
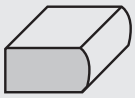
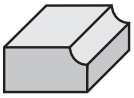
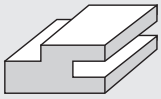
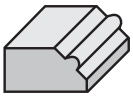
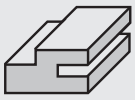
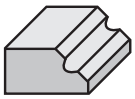

Cartongesso
Plaster board

FRESE A PROFILO IN ACCIAIO DA UTENSILE PER TRAPANI E FRESATRICI

EN *Tool bits for power drills*
FR *Fraises profilées en acier pour perceuses et fraiseuses*
ESP *Fresas para madera*
PT *Fresas de perfil em aço para brocas e fresadoras*

05400 **C.V.**

90°

			Ø mm	D mm	pcs.	cod.	cad / each €
	Frese per incastri *Tongue cutter*		**30**	8	1	**05400**110	consultare listino *see price list*
	Fresa conica 45° *45° Chamfering bit*		**35**	8	1	**05400**180	
	Frese a raggio convesso *Round cutter*		**35**	8	1	**05400**190	
	Frese per profili tondi *Rounding off cutter*		**25**	8	1	**05400**130	
	Frese a raggio concavo *Round cutter*		**35**	8	1	**05400**200	
	Frese per scanalature *Flute cutter*		**35**	8	1	**05400**140	
	Frese a raggio convesso esterno *Beading cutter*		**35**	8	1	**05400**210	
	Frese per intagli *Slotting cutter*		**35 S.2,5** **35 S.1,5**	8	1	**05400**150 **05400**160	
	Frese a raggio concavo *Beading cut*		**35**	8	1	**05400**220	

 Legno
Wood

 Multistrato
Multilayer

 Truciolato
Chipboard


KRINO



ACCESSORI

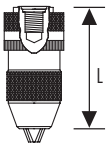
ACCESSORIES
ACCESSORIES
ACCESORIOS
ACESSÓRIOS

MANDRINI AUTOSERRANTI PER ELETTROUTENSILI

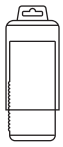
EN *Keyless drill chucks for portable power drills*
FR *Mandrins auto-serrant avec système de verrouillage pour perceuses portatives à percussion*
ESP *Portabroca sin llave con sistema de seguridad para taladros portatiles a percusión*
PT *Mandris de perfuração sem chave para berbequins elétricos portáteis*

28031

CON GHIERA DI BLOCCAGGIO
With ring lock system





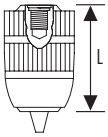


Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2803140	1÷13	1/2x20 UNF	100	1	consultare listino *see price list*

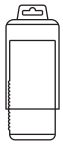
28051

USO INTENSIVO
Heavy duty



Camicia metallica
Metal sleeve





Confezione
Packaging

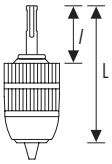


Griffe in metallo duro
Carbide jaws

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2805140	1,5÷13	1/2x20 UNF	65	1	consultare listino *see price list*

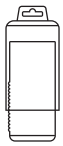
28007

USO INTENSIVO
Heavy duty



Camicia metallica
Metal sleeve





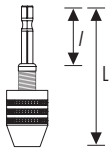
Confezione
Packaging



Griffe in metallo duro
Carbide jaws

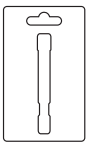
cod.	capacità mm *sizes mm*	Attacco *mount*	l mm	L mm	pcs.	cad/each €
2800730	1,5÷13	SDS PLUS	50	115	1	consultare listino *see price list*

28060



Camicia metallica
Metal sleeve



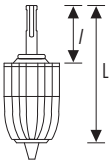


Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	l mm	L mm	pcs.	cad/each €
2806010	0,5÷6,5	1/4" Q.C.	35	75	1	consultare listino *see price list*

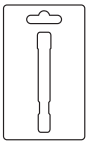
28009

DIN 6349



Camicia metallica
Metal sleeve





Confezione
Packaging



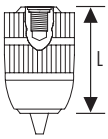
Display da banco incluso Acquistando 5 pcs
Table display included by purchasing 5 pcs

cod.	capacità mm *sizes mm*	Attacco *mount*	l mm	L mm	pcs.	cad/each €
2800930	1,5÷13	SDS	52	115	1	consultare listino *see price list*

MANDRINI AUTOSERRANTI PER ELETTROUTENSILI

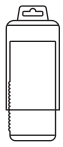
EN *Keyless drill chucks for portable power drills*
FR *Mandrins auto-serrant avec système de verrouillage pour perceuses portatives à percussion*
ESP *Portabroca sin llave con sistema de seguridad para taladros portatiles a percusión*
PT *Mandris de perfuração sem chave para berbequins elétricos portáteis*

28053



Camicia metallica
Metal sleeve



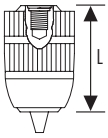

Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2805330	1,5÷13	3/8x24 UNF	75	1	consultare listino
2805340	1,5÷13	1/2x20 UNF	75	1	*see price list*

28055

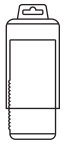
USO INTENSIVO - SPECIFICO PER ELETTROUTENSILI CON COPPIA FINO A 150 Nm

Heavy-duty use - Designed for power tools with torque up to 150 Nm



Camicia metallica
Metal sleeve

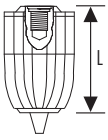



Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2805550	1,5÷13	9/16x18 UNF	66	1	consultare listino *see price list*

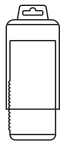

Griffe con speciale trattamento superficiale antiusura
Wear-resistant surface-treated jaws

28054



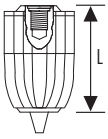
Camicia plastica
Plastic sleeve




Confezione
Packaging

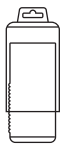
cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2805430	1,5 ÷ 13	3/8x24 UNF	75	1	consultare listino
2805440	1,5 ÷ 13	1/2x20 UNF	75	1	*see price list*

28058



Camicia plastica
Plastic sleeve




Confezione
Packaging

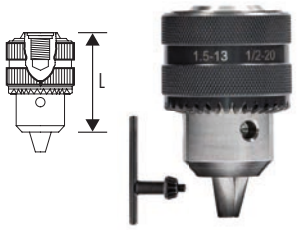
cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2805810	0,5÷10	3/8x24 UNF	61	1	consultare listino
2805820	0,5÷10	1/2x20 UNF	61	1	*see price list*
2805830	2÷13	3/8x24 UNF	72	1	
2805840	2÷13	1/2x20 UNF	72	1	

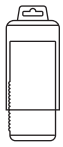
MANDRINI A CREMAGLIERA PER ELETTROUTENSILI PORTATILI E PER MACCHINE UTENSILI, COMPLETI DI CHIAVE, DIN 6349

EN *Keyed Drill Chucks for Portable Power Tools and Machine Tools, Complete with Chuck Key*
FR *Mandrins à clé pour électroportatifs et machines-outils, livrés avec clé*
ESP *Portabrocas con llave para herramientas eléctricas portátiles y máquinas-herramienta*
PT *Mandris com chave para ferramentas elétricas portáteis e máquinas-ferramenta, com chave inclusa*

28004

USO INTENSIVO
Heavy duty



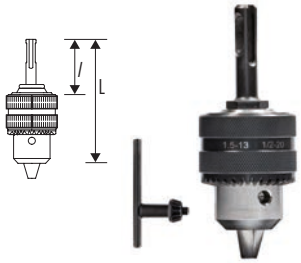


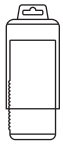
Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	chiave *key*	pcs.	cad/each €
2800440	2-13	1/2x20 UNF	57	S2	1	consultare listino *see price list*

28007

USO INTENSIVO
Heavy duty

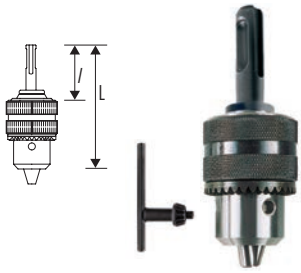


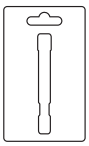


Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	*l* mm	L mm	chiave *key*	pcs.	cad/each €
2800710	2-13	SDS-PLUS	50	107	S2	1	consultare listino *see price list*

28009



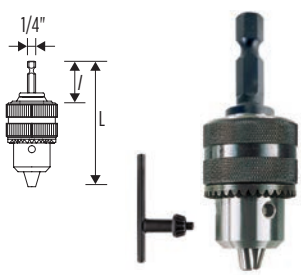


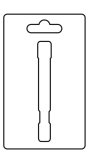
Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	*l* mm	L mm	chiave *key*	pcs.	cad/each €
2800910	1,5-13	SDS	52	107	S2	1	consultare listino *see price list*



Display da banco incluso Acquistando 5 pcs
Table display included by purchasing 5 pcs





Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	*l* mm	L mm	chiave *key*	pcs.	cad/each €
2800920	1-10	1/4" HEX FORM E	28	84	S1	1	consultare listino *see price list*



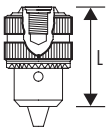
Display da banco incluso Acquistando 5 pcs
Table display included by purchasing 5 pcs

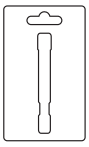
MANDRINI A CREMAGLIERA PER ELETTROUTENSILI PORTATILI E PER MACCHINE UTENSILI, COMPLETI DI CHIAVE, DIN 6349

EN *Keyed Drill Chucks for Portable Power Tools and Machine Tools, Complete with Chuck Key*
FR *Mandrins à clé pour électroportatifs et machines-outils, livrés avec clé*
ESP *Portabrocas con llave para herramientas eléctricas portátiles y máquinas-herramienta*
PT *Mandris com chave para ferramentas elétricas portáteis e máquinas-ferramenta, com chave inclusa*

28001







Confezione
Packaging

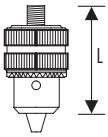
cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	chiave *key*	pcs.	cad/each €
2800110	1÷10	3/8x24 UNF	62	S 1	1	consultare listino
2800120	1÷10	1/2x20 UNF	62	S 1	1	*see price list*
2800130	1,5÷13	3/8x24 UNF	78	S 2	1	
2800140	1,5÷13	1/2x20 UNF	78	S 2	1	
2800160	3÷16	1/2x20 UNF	87	S 3	1	
2800150	3÷16	5/8x16 UNF	87	S 3	1	

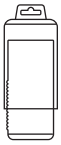


Display da banco incluso Acquistando 5 pcs
Table display included by purchasing 5 pcs

28002





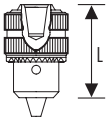


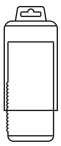
Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	chiave *key*	pcs.	cad/each €
2800210	1-10	3/8x24 UNF-M	74	S 1	1	consultare listino
2800230	1.5-13	3/8x24 UNF-M	89	S 2	1	*see price list*
2800250	3-16	3/8x24 UNF-M	99	S 3	1	

28003







Confezione
Packaging

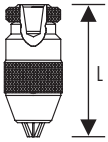
cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	chiave *key*	pcs.	cad/each €
2800310	1-10	B 12	62	S 1	1	consultare listino
2800320	1,5-13	B 16	78	S 2	1	*see price list*
2800325	3-16	B 16	87	S 3	1	
2800330	3-16	B 18	87	S 3	1	

MANDRINI AUTO-SERRANTI DI PRECISIONE PER TRAPANI A COLONNA E MACCHINE UTENSILI

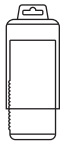
EN *Industrial quality keyless drill chucks*
FR *Mandrins auto-serrant pour perceuses industrielle*
ESP *Portabroca autoajustable para taladro, calidad industrial*
PT *Mandris de perfuração sem chave de qualidade industrial*

28035

USO INTENSIVO - MASSIMA PRECISIONE
Heavy duty - max precision







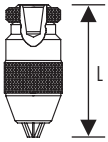
Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2803540	1-16	B16	95	1	consultare listino *see price list*

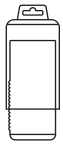
Concentricità: ≤ 0,15 mm
Concentricity: ≤ 0,15 mm

28034

MASSIMA PRECISIONE
Max precision







Confezione
Packaging

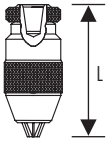
cod.	capacità mm *sizes mm*	Attacco *mount*	fori per serraggio *holes for tightening*	L mm	pcs.	cad/each €
2803430	1÷13	B 16	si/*yes*	90	1	consultare listino
2803440	1÷16	B 16	si/*yes*	103	1	*see price list*
2803450	1÷16	B 18	no	105	1	
2803460	5÷20	B 22	no	124	1	

Concentricità: ≤ 0,12 mm
Concentricity: ≤ 0,12 mm

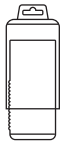
MANDRINI AUTO-SERRANTI DI PRECISIONE PER TRAPANI A COLONNA E MACCHINE UTENSILI

EN *Industrial quality keyless drill chucks*
FR *Mandrins auto-serrant pour perceuses industrielle*
ESP *Portabroca autoajustable para taladro, calidad industrial*
PT *Mandris de perfuração sem chave de qualidade industrial*

28032





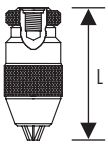


Confezione
Packaging

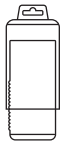
cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2803211	1÷10	B 12	93	1	consultare listino
2803230	1÷13	B 16	102	1	*see price list*
2803231	1÷13	B 18	108	1	
2803240	1÷16	B 16	108	1	
2803250	1÷16	B 18	108	1	

Concentricità: ≤ 0,16 mm
Concentricity: ≤ 0,16 mm

28030







Confezione
Packaging

cod.	capacità mm *sizes mm*	Attacco *mount*	L mm	pcs.	cad/each €
2803010	1÷10	3/8x24 UNF	86	1	consultare listino
2803020	1÷10	1/2x20 UNF	86	1	*see price list*
2803030	1÷13	3/8x24 UNF	102	1	
2803040	1÷13	1/2x20 UNF	102	1	
2803050	1÷16	1/2x20 UNF	102	1	
2803060	1÷16	5/8X16 UNF	102	1	

Concentricità: ≤ 0,25 mm
Concentricity: ≤ 0,25 mm

RACCORDI DI ADATTAMENTO PER MANDRINI

EN *Mandrel adapter SDS PLUS-1/2 UNF*
FR *Adaptateur pour mandrin SDS PLUS-1/2 UNF*
ESP *Adaptadores de portabrocas SDS PLUS-1/2 UNF*
PT *Adaptador de mandril SDS PLUS-1/2 UNF*

28186

28015

attacco *mount*		cod.	pcs.	cad/each €
SDS - PLUS	1/2 x 20 UNF	**28186**100	5	consultare listino *see price list*
1/4 Q.C.	1/2 x 20 UNF	**28186**201	5	
	M6	**28186**101	5	
1/4 Q.C.	3/8 x 24 UNF	**28186**200	1	
1/2 x 20 UNF	3/8 x 24 UNF	**28186**204	1	
1/2 x 20 UNF	3/8 x 24 UNF	**28186**203	1	
3/8 x 24 UNF	3/8 x 24 UNF	**28186**205	1	
WELDON	1/2" UNF	**28015**004	1	
WELDON	B16	**28015**005	1	

ADATTATORE A CAMBIO RAPIDO SDS-MAX / SDS-PLUS

EN *SDS-MAX / SDS-PLUS adapter*
ESP *Adaptatores con salida SDS-MAX / SDS-PLUS*
FR *Adaptateurs pour meches SDS-MAX / SDS-PLUS*
PT *SDS-MAX / SDS-PLUS adaptador*

03184

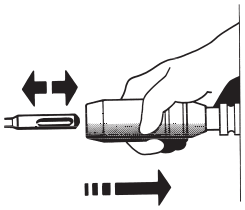
SDS-PLUS







SDS-MAX



L mm	cod.	cad each €
220	**03184**101	consultare listino *see price list*

CHIAVI PER MANDRINI A CREMAGLIERA

EN *Chucks keys*
ESP *Llaves de mandriles*
FR *Clés de serrage*
PT *Chaves de mandril*

28010



cod.	tipo / *sizes* DIN	pcs.	cad/each €
2801009	S1	1	consultare listino
2801010	S2	1	*see price list*
2801020	S3	1	

ATTACCHI CONICI MORSE PER MANDRINI, TEMPRATI E RETTIFICATI

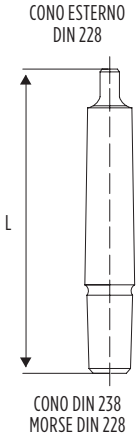
EN *Taper drill chuck arbors*
FR *Cône de montage pour mandrins*
ESP *Mango conico para portabrocas*
PT *Cone de montagem para mandris*

28160

ATTACCO CONICO PER MANDRINI CON INNESTO CONICO DIN 238

Taper arbor for drill chucks with DIN 238 taper mounting





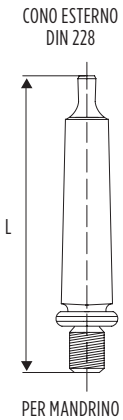
cono morse *morse taper* DIN 228	attacco conico mandrino *drill chuck taper* DIN 238	L mm	pcs.	cod.	cad/each €
1	B10	86	1	**28160**0110	consultare listino
1	B12	89	1	**28160**0112	*see price list*
1	B16	99	1	**28160**0116	
1	B18	99	1	**28160**0118	
2	B10	105	1	**28160**0210	
2	B12	105	1	**28160**0212	
2	B16	112	1	**28160**0216	
2	B18	119	1	**28160**0218	
2	B22	130	1	**28160**0222	
3	B12	127	1	**28160**0312	
3	B16	134	1	**28160**0316	
3	B18	140	1	**28160**0318	
3	B22	147	1	**28160**0322	
3	B24	157	1	**28160**0324	
4	B16	157	1	**28160**0416	
4	B18	164	1	**28160**0418	
4	B22	176	1	**28160**0422	
4	B24	186	1	**28160**0424	
5	B16	198	1	**28160**0516	
5	B18	198	1	**28160**0518	
5	B22	207	1	**28160**0522	
5	B24	217	1	**28160**0524	

28165

ATTACCO CONICO PER MANDRINI CON INNESTO FILETTATO UNF

Taper arbor for drill chucks with UNF thread mounting



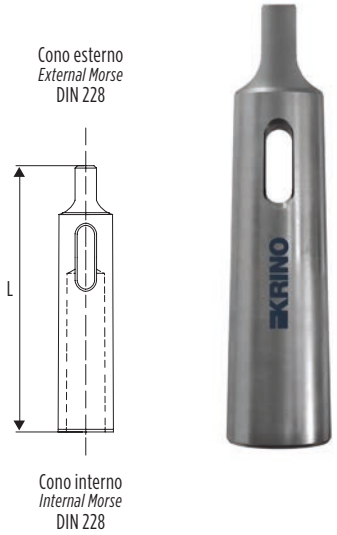


cono morse *morse taper* DIN 228	attacco mandrino *drill chuck taper*	L mm	pcs.	cod.	cad/each €
2	3/8x24 UNF	95	1	**28165**023/8	consultare listino
2	1/2x20 UNF	110	1	**28165**021/2	*see price list*
2	5/8x16 UNF	135	1	**28165**025/8	
3	3/8x24 UNF	115	1	**28165**033/8	
3	1/2x20 UNF	125	1	**28165**031/2	
3	5/8x16 UNF	150	1	**28165**035/8	

BUSSOLE DI RIDUZIONE PER CONI MORSE, TEMPRATE E RETTIFICATE INTERNAMENTE ED ESTERNAMENTE

EN *Hardened and ground morse taper sleeve*
FR *Douilles de reduction trempé et rectifié pour cône morse*
ESP *Cono de reducción tratado y rectificado*
PT *Casquilho cónico morse temperado e retificado*

28150 DIN 2185

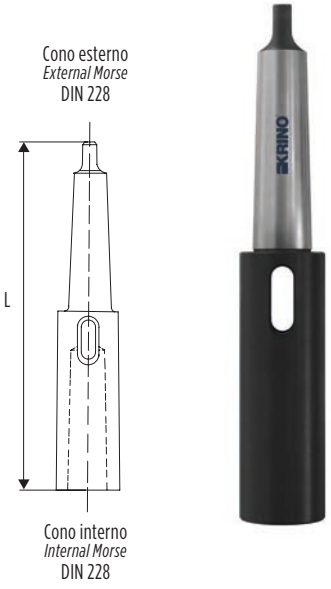


cono morse *morse taper* DIN 228 esterno *external*	interno *internal*	L mm	cod.	cad/each €
1	0	80	**28150**0100	consultare listino
2	1	92	**28150**0201	*see price list*
3	1	99	**28150**0301	
3	2	112	**28150**0302	
4	1	124	**28150**0401	
4	2	124	**28150**0402	
4	3	140	**28150**0403	
5	1	156	**28150**0501	
5	2	156	**28150**0502	
5	3	156	**28150**0503	
5	4	171	**28150**0504	
6	4	219	**28150**0604	
6	5	219	**28150**0605	

PROLUNGHE PER UTENSILI CONO MORSE, TEMPRATE E RETTIFICATE INTERNAMENTE ED ESTERNAMENTE

EN *Morse taper sleeve extension, hardened and ground internally and externally*
FR *Douilles de reductions rallongué, trempé et rectifié*
ESP *Cono de reducción prolongado, tratado y rectificado*
PT *Extensão da manga cónica morse, endurecida e retificada interna e externamente*

28154 DIN 2187



cono morse *morse taper* DIN 228 esterno *external*	interno *internal*	L mm	cod.	cad/each €
1	1	145	**28154**0101	consultare listino
1	2	160	**28154**0102	*see price list*
2	1	160	**28154**0201	
2	2	175	**28154**0202	
2	3	196	**28154**0203	
3	1	175	**28154**0301	
3	2	194	**28154**0302	
3	3	215	**28154**0303	
3	4	240	**28154**0304	
4	1	200	**28154**0401	
4	2	215	**28154**0402	
4	3	240	**28154**0403	
4	4	265	**28154**0404	
4	5	300	**28154**0405	
5	1	232	**28154**0501	
5	2	247	**28154**0502	
5	3	268	**28154**0503	
5	4	300	**28154**0504	
5	5	335	**28154**0505	
6	1	294	**28154**0601	
6	2	309	**28154**0602	
6	3	330	**28154**0603	
6	4	355	**28154**0604	
6	5	390	**28154**0605	

ESTRATTORI PER UTENSILI CON CONO MORSE DIN 228 IN ACCIAIO TRATTATO

EN *Ejector drifts*
FR *Chass-cône*
ESP *Extractores para utensilios cono morse*
PT *Desvios do ejetor*

28158 DIN 317

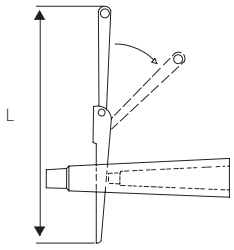


cono morse *morse taper*	L mm	cod.	cad/each €
1-2	140	**28158**0102	consultare listino
3	190	**28158**0300	*see price list*
4	225	**28158**0400	
5-6	265	**28158**0506	

28158 DIN 318 SEMIAUTOMATICO



cono morse *morse taper*	L mm	cod.	cad/each €
1-2-3	320	**28158**A0103	consultare listino
4-5-6	380	**28158**A0406	*see price list*



OLIO DA TAGLIO
EN *Cutting oil*
FR *Huile de coupe*
ESP *Aceite de corte*
PT *Óleo de corte*

MATECUT

PRESTAZIONI ELEVATE, ZERO OLIO MINERALE, MASSIMO RISPETTO PER L'AMBIENTE E PER CHI LAVORA

Dall'esperienza nella lavorazione dei metalli di KRINO GROUP è nata una nuova gamma interamente ideata, formulata e prodotta in Italia, pensata per garantire prestazioni professionali riducendo allo stesso tempo l'impatto ambientale. Grazie all'utilizzo di basi estere non minerali (NO IPA, NO SVHC), questi oli sintetici offrono maggiore pulizia, minori emissioni di fumi e condizioni di lavoro più sicure.

EN

HIGH PERFORMANCE, ZERO MINERAL OIL, MAXIMUM RESPECT FOR THE ENVIRONMENT AND FOR WORKERS
Drawing on the KRINO GROUP's expertise in metalworking, a new line has been developed—entirely conceived, formulated, and produced in Italy—designed to deliver professional-grade performance while reducing environmental impact. Thanks to the use of non-mineral ester bases (NO IPA, NO SVHC), these synthetic oils offer cleaner operation, lower fume emissions, and safer working conditions.

FR

HAUTE PERFORMANCE, SANS HUILE MINÉRALE, RESPECT MAXIMAL DE L'ENVIRONNEMENT ET DES TRAVAILLEURS
S'appuyant sur l'expertise du GROUPE KRINO dans le domaine de l'usinage des métaux, une nouvelle gamme a été développée — entièrement conçue, formulée et produite en Italie — afin d'offrir des performances de niveau professionnel tout en réduisant l'impact environnemental. Grâce à l'utilisation de bases d'esters non minéraux (SANS IPA, SANS SVHC), ces huiles synthétiques garantissent un fonctionnement plus propre, une réduction des émissions de fumées et des conditions de travail plus sûres.

ESP

ALTO RENDIMIENTO, SIN ACEITES MINERALES, MÁXIMO RESPETO POR EL MEDIO AMBIENTE Y POR LOS TRABAJADORES
Aprovechando la experiencia del GRUPO KRINO en el sector metalúrgico, se ha desarrollado una nueva línea —concebida, formulada y producida íntegramente en Italia— diseñada para ofrecer un rendimiento de nivel profesional al tiempo que se reduce el impacto medioambiental. Gracias al uso de bases de ésteres no minerales (SIN IPA, SIN SVHC), estos aceites sintéticos ofrecen un funcionamiento más limpio, menores emisiones de humos y condiciones de trabajo más seguras.

PT

ALTO DESEMPENHO, SEM ÓLEO MINERAL, MÁXIMO RESPEITO AO MEIO AMBIENTE E AOS TRABALHADORES
Com base na experiência do GRUPO KRINO na área de usinagem de metais, foi desenvolvida uma nova linha — inteiramente concebida, formulada e produzida na Itália — projetada para oferecer desempenho de nível profissional e, ao mesmo tempo, reduzir o impacto ambiental. Graças ao uso de bases de ésteres não minerais (SEM IPA, SEM SVHC), esses óleos sintéticos oferecem uma operação mais limpa, menores emissões de vapores e condições de trabalho mais seguras.

MATECUT PURE

ITA **APPLICAZIONE PRINCIPALE *MAIN USE***
EN Foratura, maschiatura, filettatura e operazioni manuali
Drilling, tapping, threading, and manual operations

MATERIALI *MATERIALS*
Ampio range di materiali lavorabili tra cui acciai, inox, alluminio, leghe varie
A wide range of materials that can be machined, including steel, stainless steel, aluminum, and various alloys

DILUIZIONE *DILUTION*
Nessuna, si usa puro
None; use it undiluted

CARATTERISTICHE *FEATURES*
Aspetto: liquido trasparente
Appearance: clear liquid

Ottimo potere lubrificante grazie alla polarità del formulato;
Excellent lubricating properties *due to the polarity of the formulation;*

Ottime proprietà di autoestinguenza che, unite a **valori elevati di punto di infiammabilità e di fumo**, contribuiscono alla riduzione del rischio di innesco durante i processi produttivi
Excellent self-extinguishing properties *which, combined with* ***high flash point and smoke values****, help reduce the risk of ignition during production processes*

Grande stabilità all'ossidazione e resistenza alle alte temperature;
High oxidation stability *and resistance to high temperatures;*

Elevato indice di viscosità: elevata costanza del potere lubrificante in funzione della temperatura;
High viscosity index*: high degree of consistency in lubricating performance across a range of temperatures;*

Compatibile con oli lubrificanti di origine minerale: facilita l'integrazione nei sistemi esistenti.
Compatible with mineral-based lubricating oils: *making it easy to integrate into existing systems.*

MATECUT MIX

ITA **APPLICAZIONE PRINCIPALE *MAIN USE***
EN Lavorazioni continue su macchine CNC e torni, segatrici, ecc...
Continuous machining on CNC machines, lathes, sawing machines, etc...

MATERIALI *MATERIALS*
Ampio range di materiali lavorabili tra cui acciai, inox, alluminio, leghe varie
A wide range of materials that can be machined, including steel, stainless steel, aluminum, and various alloys

DILUIZIONE *DILUTION*
Necessaria (5 - 8 % a seconda delle lavorazioni)
Ad esempio: Asportazione truciolo generica ghisa-acciaio 6-8% - Rettifica ghisa-acciaio 5-6%
Required (5–8%, depending on the machining operation).
For example: General machining of cast iron and steel: 6–8% - Grinding of cast iron and steel: 5–6%

CARATTERISTICHE *FEATURES*
Aspetto: emulsione lattescente finemente dispersa
Appearance: a finely dispersed milky emulsion

Elevata stabilità dell'emulsione, lunga durata del bagno e ridotto impiego di additivi correttivi (biocidi, antischiuma, alcalinizzanti).
high emulsion stability, long bath life, and reduced use of corrective additives (biocides, defoamers, alkalizers).

Bassa tendenza alla schiuma: utilizzabile con acque di preparazione **da 5 a 40 °F**, mantiene un comportamento antischiuma anche ad alte pressioni di esercizio, prevenendo la formazione di saponi e morchie in macchina.
Low foaming tendency*: suitable for use with feedwater temperatures ranging* ***from 5 to 40 °F****; maintains its anti-foaming properties even at high operating pressures, preventing the formation of soap and sludge in the machine.*

Elevate prestazioni lubro-refrigeranti, garantisce ottime capacità di taglio e finiture superficiali di alto livello, preservando al contempo l'azione detergente per la pulizia di pezzi, attrezzature e macchina utensile.
With its ***high-performance lubricating and cooling properties****, it ensures excellent cutting performance and high-quality surface finishes, while maintaining its cleaning action to keep workpieces, equipment, and machine tools clean.*

ESP ***APLICACIÓN PRINCIPAL MAIN USE***
FR *Taladrado, roscado, roscado interior y operaciones manuales*
Perçage, taraudage, filetage et opérations manuelles

MATERIALI MATERIALS
Amplia gama de materiales mecanizables, incluidos aceros, acero inoxidable, aluminio y diversas aleaciones
Large gamme de matériaux usinables, notamment les aciers, les aciers inoxydables, l'aluminium et divers alliages

DILUCIÓN DILUTION
Ninguna, se utiliza puro
Aucune ; utiliser pur

CARACTERÍSTICAS FEATURES
Aspecto: líquido transparente
Aspect : liquide transparent

Excelente poder lubricante *gracias a la polaridad de la formulación;*
Excellentes propriétés lubrifiantes *grâce à la polarité de la formulation ;*

Excelentes propiedades autoextinguibles *que, junto con* ***elevados puntos de inflamación y de humo****, contribuyen a reducir el riesgo de ignición durante los procesos productivos*
Excellentes propriétés auto-extinguibles *qui, associées à un point d'éclair* ***élevé et à une faible émission de fumées****, contribuent à réduire le risque d'inflammation pendant les processus de production*

Gran estabilidad *a la oxidación y resistencia a altas temperaturas;*
Grande stabilité *à l'oxydation et résistance aux hautes températures ;*

Alto índice de viscosidad*: gran constancia del poder lubricante en función de la temperatura;*
Indice de viscosité élevé *: excellente constance des performances de lubrification selon la température ;*

Compatible con aceites lubricantes de origen mineral*: facilita la integración en los sistemas existentes.*
Compatible avec les huiles lubrifiantes d'origine minérale *: facilite l'intégration dans les systèmes existants.*

ESP ***APLICACIÓN PRINCIPAL UTILISATION PRINCIPALE***
FR *Mecanizado continuo en máquinas CNC, tornos, sierras, etc.*
Usinage continu sur machines CNC, tours, scies, etc.

MATERIALES MATÉRIAUX
Amplia gama de materiales mecanizables, incluidos aceros, acero inoxidable, aluminio y diversas aleaciones
Large gamme de matériaux usinables, notamment les aciers, l'acier inoxydable, l'aluminium et divers alliages

DILUCIÓN DILUTION
Necesaria (5 - 8 % según el tipo de mecanizado)
Por ejemplo: mecanizado general de fundición y acero 6-8 % - Rectificado de fundición y acero 5-6 %
Nécessaire (5 à 8 %, selon l'opération d'usinage).
Par exemple : usinage général de la fonte et de l'acier 6 à 8 % - Rectification de la fonte et de l'acier 5 à 6 %

CARACTERÍSTICAS CARACTÉRISTIQUES
Aspecto: emulsión lechosa finamente dispersa
Aspect : émulsion laiteuse finement dispersée

Alta estabilidad de la emulsión, menor uso de aditivos correctores (biocidas, antiespumantes, alcalinizantes).
Grande stabilité de l'émulsion, utilisation réduite d'additifs correctifs (biocides, antimousses, agents alcalinisants).

Baja tendencia a la formación de espuma*: utilizable con aguas de preparación de* ***5 a 40 °F****, mantiene un comportamiento antiespumante incluso a altas presiones de trabajo, evitando la formación de jabones y lodos en la máquina.*
Faible tendance au moussage *: convient à une utilisation avec une eau de préparation* ***de 5 à 40 °F*** *; conserve ses propriétés antimousse même à des pressions de service élevées, empêchant la formation de savons et de boues dans la machine.*

Altas prestaciones lubricantes y refrigerantes*, garantiza excelentes capacidades de corte y acabados superficiales de alta calidad, preservando al mismo tiempo la acción detergente para la limpieza de piezas, equipos y máquinas-herramientas.*
Grâce à ses ***hautes performances lubrifiantes et réfrigérantes****, il garantit d'excellentes capacités de coupe et des finitions de surface de haute qualité, tout en conservant son action détergente pour le nettoyage des pièces.*

OLIO DA TAGLIO
EN *Cutting oil*
FR *Huile de coupe*
ESP *Aceite de corte*
PT *Óleo de corte*

MATECUT

20620

OLIO INTERO DA TAGLIO
Neat cutting oil

MATECUT PURE



Art. 20620005
5 L
Cartone/*box* 4 pcs



Art. 20620001
1 L
Cartone/*box* 24 pcs

20621

OLIO EMULSIONABILE
Water-miscible cutting fluid

MATECUT MIX



Art. 20621005
5 L
Cartone/*box* 4 pcs

20630

ACCESSORI
Accessories



Art. 20630005
200 ml
oliatore
con ugello flessibile

ZERO OLIO MINERALE
Non essendo derivati dal petrolio, i nuovi oli MATECUT riducono l'impatto ambientale senza rinunciare alla qualità delle lavorazioni.
Esenti da: olio minerale, cloro, acido borico e biocidi donatori di formaldeide. No IPA e no SVHC.

ZERO MINERAL OIL
Since they are not petroleum-based, the new MATECUT oils reduce environmental impact without compromising machining quality.
Free of: mineral oil, chlorine, boric acid, and ormaldehyde-releasing biocides. No IPA and no SVHC.

SIN ACEITE MINERAL
Al no estar elaborados a base de petróleo, los nuevos aceites MATECUT reducen el impacto medioambiental sin comprometer la calidad del mecanizado. No contienen: aceite mineral, cloro, ácido bórico ni biocidas que liberan formaldehído. Sin IPA ni SVHC.

ZÉRO HUILE MINÉRALE
Comme elles ne sont pas à base de pétrole, les nouvelles huiles MATECUT réduisent l'impact environnemental sans compromettre la qualité de l'usinage. Sans : huile minérale, chlore, acide borique et biocides libérant du formaldéhyde. Sans IPA et sans SVHC.

BASI ESTERE BIODEGRADABILI
Più facili da smaltire e decisamente meno dannose per l'ambiente.

BIODEGRADABLE ESTER BASES
Easier to dispose of and significantly less harmful to the environment.

BASES DE ÉSTERES BIODEGRADABLES
Más fáciles de eliminar y significativamente menos nocivos para el medio ambiente.

BASES ESTER BIODÉGRADABLES
Plus faciles à éliminer et nettement moins nocives pour l'environnement.

PIÙ PULITI DURANTE L'USO
Meno fumi, odori e residui oleosi: ambiente più salubre per i lavoratori.

CLEANER DURING USE
Less fumes, odors, and oily residues: a healthier work environment for employees.

MÁS LIMPIO DURANTE SU USO
Menos humos, olores y residuos aceitosos: un entorno de trabajo más saludable para los empleados.

UTILISATION PLUS PROPRE
Moins de fumées, d'odeurs et de résidus huileux: un environnement de travail plus sain pour les employés.

FORMULAZIONE PIÙ SICURA
Riduzione delle sostanze nocive, minore irritazione per la pelle.

SAFER FORMULA
Fewer harmful substances, less skin irritation.

FÓRMULA MÁS SEGURA
Menos sustancias nocivas, menos irritación cutánea.

FORMULE PLUS SÛRE
Moins de substances nocives, moins d'irritations cutanées.


KRINO
CUTTING TOOLS
KRINO
CUTTING TOOLS
DISK
MATECUT

SISTEMI ESPOSITIVI

Display systems
Systèmes d'affichage
Sistemas de exposición
Sistemas de visualização


KRINO
CUTTING TOOLS
KRINO
CUTTING TOOLS
KRINO
CUTTING TOOLS
STEP+
MATECUT
DISK

TRASFORMIAMO IL TUO PUNTO VENDITA

Dalla progettazione all'allestimento, Krino ti offre sistemi espositivi studiati per valorizzare i prodotti, ottimizzare gli spazi e migliorare l'esperienza d'acquisto.

EN ***TRANSFORM YOUR STORE.***
From planning to installation, Krino provides display solutions designed to showcase your products, optimize retail space and enhance the shopping experience.

FRA ***TRANSFORMEZ VOTRE POINT DE VENTE.***
De la conception à l'installation, Krino vous propose des solutions d'exposition conçues pour valoriser vos produits, optimiser vos espaces et améliorer l'expérience d'achat.

ESP ***TRANSFORMAMOS TU PUNTO DE VENTA.***
Desde el diseño hasta la instalación, Krino ofrece soluciones de exposición diseñadas para destacar los productos, optimizar el espacio de venta y mejorar la experiencia de compra.

PT ***TRANSFORMAMOS O SEU PONTO DE VENDA.***
Desde o projeto até à instalação, a Krino oferece soluções de exposição concebidas para valorizar os produtos, otimizar o espaço de venda e melhorar a experiência de compra.





Parla con il tuo agente Krino
e scopri tutte le soluzioni disponibili.

EN *Talk to your Krino sales representative and discover the display solution that's right for your store.*

FRA *Contactez votre représentant Krino et découvrez la solution d'exposition la mieux adaptée à votre magasin.*

ESP *Contacta con tu agente de Krino y descubre la solución de exposición más adecuada para tu ferretería.*

PT *Fale com o seu representante Krino e descubra a solução de exposição ideal para a sua loja.*

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

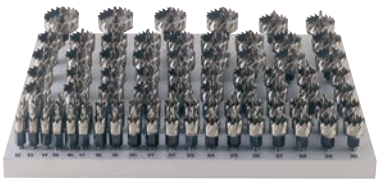
EN *Cutting tools display*
FR *Display outils coupant*
ESP *Expositor utensilios de corte*
PT *Expositor de ferramentas de corte*



60x44x190 cm

La vetrina è in omaggio per ordini di 6 ripiani di utensili a scelta

The display is free of charge in case of an order with 6 shelves with tools at your choice



Composizione
Description

Art. 01195861
82 pcs HSS - G

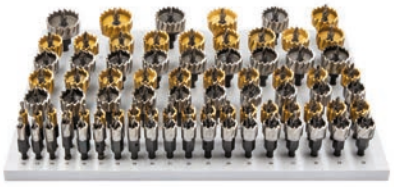

21001 — Ø 12÷50 + 55 - 60 (2x)

Art. 01195871
41 pcs HSS - G


21001 — Ø 12÷50 + 55 - 60 (1x)

Art. 01195869
41 pcs HSS+TiN


21300 — Ø 12÷50 + 55 - 60 (1x)



Composizione
Description

Art. 01195862
82 pcs HSS - G
HSS+TiN


21001 — Ø 12÷50 + 55 - 60 (2x)


21300 — Ø 12÷50 + 55 - 60 (1x)



Composizione
Description

Art. 01195860
82 pcs


01180 — Gr. 1 - 2 - 3 - 4 - 5 - 7 - 8 1 pcs.


01183 — Gr. 2 - 3 - 4 - 5 - 6 - 9 - 24 1 pcs.


01185 — Ø 4.3 - 5.3 - 6.3 - 7.3 - 8.3 9.4 - 10.4 - 12.4 - 15 - 16.5 20.5 - 25 - 28 - 31 1 pcs.


0117601 — 5 pcs.


01200 — Gr. 1 - 2 - 3 - 4 1 pcs.


01230 — Gr. 2 - 3 - 4 - 5 - 6 - 9 - 24 1 pcs.


01188 — Gr. 1 - 2 - 3 - 4 1 pcs.

011750600 — 5 pcs.



Composizione
Description

Art. 01195859
53 pcs


01180 — Gr. 1 - 2 - 3 - 4 (2 pcs.) Gr. 5 - 7 - 8 (1 pcs.)


01183 — Gr. 2 - 3 - 4 - 5 - 6 - 9 - 24 2 pcs.


01185 — Ø 4.3 - 5.3 - 6.3 - 7.3 - 8.3 9.4 - 10.4 - 12.4 - 15 - 16.5 20.5 - 25 - 28 - 31 1 pcs.


0117601 — 5 pcs.


01188 — Gr. 1 - 2 - 3 - 4 1 pcs.

011750600 — 5 pcs.

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

EN *Cutting tools display*
FR *Display outils coupant*
ESP *Expositor utensilios de corte*
PT *Expositor de ferramentas de corte*



Composizione
Description

Art. 01195865
72 pcs HSS M3/1



21060

Ø 16 - 17 - 19 - 20 - 21 - 22 - 24 - 25
27 - 29 - 30 - 32 - 33 - 35 - 37 - 38
40 - 41 - 44 - 46 - 48 - 51 - 54
(2x)

Ø 57 - 60 - 64 - 70 - 76 - 79 - 83
89 - 92 - 102
(1x)



210705519 8 pcs.



210705546 8 pcs.



Composizione
Description

Art. 01195879
72 pcs M42 CO 8%



21090

Ø 16 - 17 - 19 - 20 - 21 - 22 - 24 - 25
27 - 29 - 30 - 32 - 33 - 35 - 37 - 38
40 - 41 - 44 - 46 - 48 - 51 - 54
(2x)

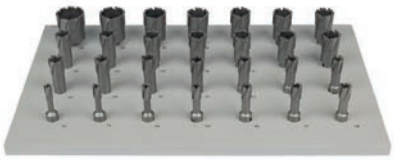
Ø 57 - 60 - 64 - 70 - 76 - 79 - 83
89 - 92 - 102
(1x)



2107055198
8 pcs.



210705546B
8 pcs.



Composizione
Description

Art. 01195802
28 pcs TCT



Ø12÷50 x1

21215
Weldon



Composizione
Description

Art. 01195880
28 pcs HSS



21200
Weldon

Ø12÷35x1
+38 - 40 - 45 - 50



Composizione
Description

Art. 01195864
32 pcs T.C.T.



21040

Ø15÷40x1+42 - 45 - 48
50 - 55 - 60



Composizione
Description

Art. 01195866
32 pcs



21015

Ø 16 - 22 - 25 - 27 - 38 - 40
45 - 50 - 55 - 60 - 65 - 70 - 80 (2x)
Ø 30 - 35 (3X)



Composizione
Description

Art. 26008501
50 pcs HSS Z2+Z3

26001 - 26003

Ø6 - 8 - 10
12 - 15
(5x)



Composizione
Description

Art. 26030502
45 pcs HM4



26020

Ø 6 - 8 - 10
12 - 16
(9x)

Art. 26030504
45 pcs HM4+TiALN



26034

Ø 6 - 8 - 10
12 - 16
(9x)



Art. 21116112
24 pcs

Composizione
Description



21110
21111

Ø 30 - 35 - 40
50 - 65 - 80
90 - 100



HEX 12
4 pcs.



SDS
4 pcs.

8 pcs

Art. 21116117
29 pcs

Composizione
Description



21122

Ø 40 - 50 - 60
66 - 80 - 90
100



21130316
10 pcs.



21130315
6 pcs.

21130300
3 pcs.

21130305
3 pcs.

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

EN *Cutting tools display*
FR *Display outils coupant*
ESP *Expositor utensilios de corte*
PT *Expositor de ferramentas de corte*



44x31x52 cm

La vetrina è in omaggio per ordini di 2 ripiani di utensili a scelta

The display is free of charge in case of an order with 2 shelves with tools at your choice



Composizione
Description

Art. 01195760
45 pcs


01180 — Gr. 1 - 2 - 3 - 4 - 5 - 7 - 8 — 1 pcs.


01183 — Gr. 2 - 4 - 5 - 6 - 9 - 24 — 1 pcs.


01185 — Ø 5.3 - 6.3 - 8.3 - 10.4 - 12.4 - 15 - 16.5 - 20.5 - 25 - 28 — 1 pcs.


0117601 — 5 pcs.


01200 — Gr. 1 - 2 - 3 - 4 — 1 pcs.


01230 — Gr. 2 - 4 - 6 - 9 - 24 — 1 pcs.


01188 — Gr. 1 - 2 - 3 - 4 — 1 pcs.

011750600 — 5 pcs.



Composizione
Description

Art. 01195761
59 pcs HSS-G


21001 — HSS-G Ø15÷37x2 + 38÷50x1



Composizione
Description

Art. 01195786
38 pcs HSS+TiN


21300 — Ø15÷50+55-60x1

VETRINE PER L'ESPOSIZIONE DI UTENSILI DA TAGLIO

EN *Cutting tools display*
FR *Display outils coupant*
ESP *Expositor utensilios de corte*
PT *Expositor de ferramentas de corte*



Composizione
Description

Art. 01195764
38 pcs HSS-G+TiALN



21325

Ø15÷50x1 + 55-60



Composizione
Description

Art. 01195762
38 pcs T.C.T.



21040

Ø15÷50x1+55-60



Composizione
Description

Art. 01195700
23 pcs TCT



21215
Weldon

Ø12÷40



Composizione
Description

Art. 01195778
23 pcs HSS



21200
Weldon

Ø12÷30x1 + 32-35-38-40



Composizione
Description

Art. 01195773
47 pcs HSS M3/1



21060

Ø 16 - 19 - 20 - 21 - 22 - 24 - 25 - 27 - 29 - 30 (2x)
Ø 32 - 35 - 37 - 38 - 40 - 41 - 44 48 - 51 - 54 - 57 - 60 - 64 - 70 - 76 (1x)



6 pcs.
210705519



6 pcs.
210705546



Composizione
Description

Art. 01195780
47 pcs M42 CO 8%



21090

Ø 16 - 19 - 20 - 21 - 22 - 24 - 25 27 - 29 - 30 (2x)
Ø 32 - 35 - 37 - 38 - 40 - 41 - 44 48 - 51 - 54 - 57 - 60 - 64 - 70 - 76 (1x)



6 pcs
210705519B



6 pcs
210705546B



Art. 01195774
31 pcs

Composizione
Description



21110
21111

Ø 25 - 30 - 35 - 40 (2x)
50 - 65 (2x)
80 - 90 - 100 (1x)



21115501
2 pcs.



21115521
2 pcs.



21115504
2 pcs.



21115524
2 pcs.

21115506
8 pcs.

TABELLE TECNICHE

Technical tables

Tableaux techniques

Prospectos tecnico

Quadros técnicos

SCELTA DELLA PUNTA PER METALLO E DEI PARAMETRI DI TAGLIO DA USARE IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Chart for metal drills selection and relative cutting speeds in accordance with the materials to work*
FR *Tableau de sélection des forets métalliques et des vitesses de coupe relatives en fonction des matériaux à travailler*
ESP *Tabla de selección de brocas para metal y velocidades de corte relativas en función de los materiales a trabajar*
PT *Tabela para selecção de brocas para metal e velocidades de corte relativas de acordo com os materiais de trabalho*



MATERIALE DA LAVORARE *Work-piece material*	QUALITÀ PUNTA *Drill quality*	VELOCITÀ PERIFERICA *Peripherical speed* (Mt/min.)	DIAMETRO PUNTA *Drill size (mm)*						REFRIGERANTE *Cooland*
			2	5	8	12	16	25	
			AVANZAMENTO *Feed (mm)*						
ACCIAIO NON LEGATO DA COSTRUZIONE *Common steel* **R<600N/MM2**	HSS HSS-CO	20÷25 25÷30	0.05	0.12	0.20	0.25	0.30	0.40	
ACCIAIO DA COSTRUZIONE BASSO LEGATO *Low alloy steel* **R<700÷900N/MM2**	HSS HSS-CO	10÷12 15÷18	0.03	0.07	**0.10**	0.16	0.20	0.25	
ACCIAIO LEGATO AL NI CR *Ni Cr Steel* **R<1100÷1300N/MM2**	HSS HSS-CO	6÷8 8÷10	0.02	0.05	0.08	0.12	0.14	0.18	
ACCIAIO INOX MARTENSITICO E AUSTENITICO *Stainless steel* **ACCIAIO REFRATTARIO ACCIAIO RESISTENTE ALLA CORROSIONE** *Heat resistant steel, corrosion resistant steel*	HSS-CO 5% HSS-CO 8%	6÷8 8÷10	0.02	0.05	0.08	0.12	0.14	0.18	
ACCIAIO ALTO LEGATO CON TENORE DI MANGANESE >10% *High manganese content steel*	HSS-CO 8%	3÷5	0.02	0.05	0.08	0.12	0.14	0.18	
SUPERLEGHE *Nimonic*	HSS-CO 5% HSS-CO 8%	3÷8	0.02	0.05	0.08	0.12	0.14	0.18	
TITANIO *Titanium alloys*	HSS-CO 5% HSS-CO 8%	3÷6	0.02	0.05	0.08	0.12	0.14	0.18	
NICHEL *Monel*	HSS-CO	10÷12	0.02	0.05	0.08	0.12	0.14	0.18	
GHISA GRIGIA 200 HB *Cast Iron*	HSS HSS-CO	15÷20 20÷25	0.02	0.12	0.20	0.25	0.30	0.40	
GHISA GRIGIA 350 HB *Cast Iron*	HSS HSS-CO	5÷10 20÷25	0.03	0.07	0.10	0.16	0.20	0.25	
BRONZO DOLCE *Soft bronze*	HSS HSS-CO	20÷35	0.05	0.08	0.14	0.20	0.25	0.30	
BRONZO DURO *Tough bronze*	HSS HSS-CO	15÷30	0.05	0.08	0.14	0.20	0.25	0.30	
OTTONE DOLCE *Soft brass*	HSS HSS-CO	60÷80	0.08	0.18	0.25	0.30	0.35	0.40	
OTTONE TENACE *Tough brass*	HSS HSS-CO	30÷50	0.05	0.15	0.20	0.25	0.35	0.40	
RAME PURO *Copper*	HSS	30÷60	0.05	0.14	0.18	0.22	0.30	0.40	
RAME ELETTROLITICO *Electrolite copper*	HSS	20÷35	0.05	0.14	0.18	0.22	0.30	0.40	
ALLUMINIO *Aluminium*	HSS	40÷80	0.05	0.14	0.18	0.22	0.30	0.40	
LEGHE ALLUMINIO *Aluminium alloys*	HSS	30÷60	0.05	0.14	0.18	0.22	0.30	0.40	
SILUMIN *Leghe Al-Si Silumin*	HSS	30÷50	0.05	0.08	0.14	0.20	0.25	0.30	
LEGHE AL MANGANESE *Manganese alloys*	HSS	60÷90	0.08	0.18	0.25	0.30	0.35	0.40	
ZINCO E LE SUE LEGHE *Zinc alloys*	HSS	30÷50	0.05	0.14	0.18	0.20	0.25	0.30	
RESINE TERMOPLASTICHE (DOLCI) *Soft plastic*	HSS	20÷40	0.05	0.08	0.14	0.20	0.25	0.30	
RESINE TERMOPLASTICHE (DURE) *Hard plastic*	HSS	10÷20	0.05	0.08	0.14	0.20	0.25	0.30	
PLEXIGLASS	HSS	15÷20	0.05	0.08	0.14	0.20	0.25	0.30	
GOMMA DURA *Hard rubber*	HSS	15÷35	0.08	0.18	0.25	0.30	0.35	0.40	
GRAFITE *Graphite*	HSS	3÷6	A mano *By hand*						

Acqua emulsionata con olio *Oil+water*
A secco *Dry*
Olio da taglio *Cutting oil*
Acqua *Water*

Nota: Le punte elicoidali cilindriche rettificate garantiscono la realizzazione di fori di tolleranza H10÷H12
EN *Fully ground twist drills made holes with H10÷H12 tolerance*
FRA *Les forets hélicoïdaux entièrement rectifiés réalisent des trous avec une tolérance H10÷H12*
ESP *Las brocas helicoidales totalmente rectificadas realizan agujeros con tolerancia H10÷H12*
PT *As brocas helicoidais totalmente retificadas fazem furos com tolerância H10÷H12*

CONVERSIONE DELLA VELOCITÀ PERIFERICA DI TAGLIO DA M/MIN IN GIRI/MIN IN FUNZIONE DEL DIAMETRO DELLA PUNTA

EN *Cutting speed chart into revolution per minute (RPM), according to the twist drill diameter*
FR *Tableau de vitesse de coupe en tours par minute (RPM), en fonction du diamètre du foret hélicoïdal*
ESP *Tabla de velocidad de corte en revoluciones por minuto (RPM), según el diámetro de la broca espiral*
PT *Gráfico da velocidade de corte em rotações por minuto (RPM), de acordo com Broca Diâmetro*

DIAMETRO PUNTA *Drill size*		VELOCITÀ DI TAGLIO *Cutting speed Vt* (Mt./min)													
		3	4	5	6	8	10	12	15	18	20	25	30	35	40
mm	POLLICI *inch*	VELOCITÀ DI TAGLIO *Cutting speed* (RPM)													
2	5/64	480	640	800	960	1270	1590	1910	2390	2870	3180	3980	4780	5570	6370
3	1/8	320	420	530	640	850	1060	1270	1590	1910	2120	2650	3180	3720	4250
4	5/32	240	320	400	480	640	800	960	1190	1430	1590	1990	2390	2790	3180
5	13/64	190	250	320	380	510	640	760	960	1150	1270	1590	1910	2230	2550
6	15/64	160	210	270	320	420	530	640	800	960	1060	1330	1590	1860	2120
8	5/16	120	160	200	240	320	400	**480**	600	720	800	1000	1190	1390	1590
10	25/64	95	130	160	190	250	320	380	480	570	640	800	960	1110	1270
12	15/32	80	110	130	160	210	270	320	400	480	530	660	800	930	1060
14	35/64	70	90	110	140	180	230	270	340	410	450	570	680	800	910
16	5/8	60	80	100	120	160	200	240	300	360	400	500	600	700	800
18	23/32	55	70	90	110	140	180	210	270	320	350	440	530	620	710
20	25/32	50	65	80	100	130	160	190	240	290	320	400	480	560	640
22	7/8	45	60	70	85	120	140	170	220	260	290	360	430	510	580
24	15/16	40	55	65	80	110	130	160	200	240	270	330	400	460	530
27	1" 1/16	35	45	60	70	95	120	140	180	210	240	290	350	410	470
30	1" 1/8	30	40	55	65	85	110	130	160	190	210	270	320	370	420
32	1" 1/4	30	40	50	60	80	100	120	150	180	200	250	300	350	400
34	1" 3/8	30	35	45	55	75	95	110	140	170	190	230	280	330	370
36	1" 7/16	25	35	45	55	70	90	110	130	160	180	220	270	310	350
38	1" 1/2	25	35	40	50	65	85	100	130	150	170	210	250	290	340
40	1" 9/16	25	30	40	50	65	80	100	120	140	160	200	240	280	320
42	1" 5/8	25	30	40	45	60	75	90	110	140	150	190	230	270	300
44	1" 3/4	20	30	35	45	60	70	85	110	130	140	180	220	250	290
46	1" 13/16	20	30	35	40	55	70	85	100	120	140	170	210	240	280
48	1" 7/8	20	25	35	40	55	65	80	100	120	130	170	200	230	270
50	2"	20	25	30	40	50	65	75	100	110	130	160	190	220	250

$$\text{N° GIRI/MIN (R.P.M.)} = \frac{\text{VT (MT/MIN) X 1000}}{\text{3,14 X Ø (mm)}}$$

Formula di conversione della velocità periferica di taglio da mt/min in n.giri/min in funzione del diametro dell'utensile
EN *Cutting tip speed conversion formula, from Meter Per Min. to RPM, in accordance with the tool size*
FRA *Formule de conversion de la vitesse de la pointe de coupe, du mètre par minute au nombre de tours par minute, en fonction de la taille de l'outil*
ESP *Fórmula de conversión de la velocidad de la punta de corte, de Metros Por Min. a RPM, en función del tamaño de la herramienta*
PT *Fórmula de conversão da velocidade da ponta de corte, de metro por minuto para RPM, de acordo com o tamanho da ferramenta*

ESEMPIO DI UTILIZZO DELLE TABELLE:

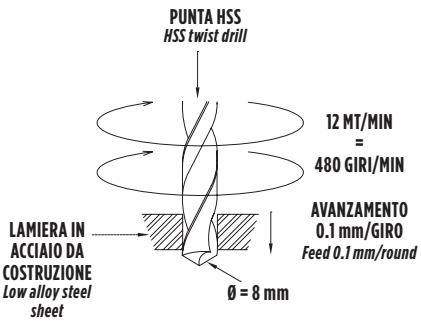
Se si vuole praticare un foro del diametro di 8 mm con una punta HSS, in una lamiera in acciaio comune e si desidera conoscere i parametri di taglio adeguati alla foratura, si dovrà consultare la tabella n. 1 nella quale è indicato che una punta HSS da mm 8 avrà un avanzamento consigliato di 0,1 mm/giro ed una velocità di taglio di 10÷12 mt/min. Per la conversione della velocità da mt/min in giri/min, si consulterà la tabella n.2; incrociando la riga riferita al diametro 8 mm con la colonna che contiene la velocità 12 mt/min si troverà il valore di 480 giri/min. Il foro quindi andrà eseguito con una velocità di 480 giri/min e con un avanzamento di 0,1 mm/giro. Una buona lubrorefrigerazione infine garantirà un ottimo risultato di foratura.

EN Charts use example: *If you want to make a hole of 8 mm with an HSS bit into a metal sheet and you wish to know the correct cutting parameters, have a look on the chart n.1 where you can see that an HSS bit has a suggested feed of 0,1 mm/revolution and a cutting speed of 10÷12 mt/minute. For the speed conversion mt/min and rpm, please look at the chart n. 2; crossing the line containing the size 8 mm and the column of speed 10÷12 mt/min, you will find the value of 480 rpm .So that the drill should be made with a speed of 480 rpm with 0,1 mm/revolution feed. An appropriate lubricating finally guarantee the best cutting results.*

FRA Les graphiques utilisent des exemples: *Si vous voulez percer un trou de 8 mm dans une tôle avec un foret HSS et que vous voulez connaître les paramètres de coupe corrects, reportez-vous au tableau n° 1 où vous verrez qu'un foret HSS a une avance conseillée de 0,1 mm/tour et une vitesse de coupe de 10÷12 mt/minute. Pour convertir la vitesse en mt/min en tr/min, voir le tableau 2 ; en croisant la ligne contenant la dimension 8 mm et la colonne de la vitesse 10÷12 mt/min, on obtient une valeur de 480 tr/min, donc le foret doit être utilisé à une vitesse de 480 tr/min avec une avance de 0,1 mm/tour. Une bonne lubrification garantit enfin les meilleurs résultats de coupe.*

ESP Los gráficos usan un ejemplo: *Si desea realizar un agujero de 8 mm con una broca HSS en una chapa y desea conocer los parámetros de corte correctos, eche un vistazo a la tabla n° 1, donde puede ver que una broca HSS tiene un avance sugerido de 0,1 mm/revolución y una velocidad de corte de 10÷12 mt/minuto. Para la conversión de velocidad mt/min y rpm, consulte el gráfico n° 2; cruzando la línea que contiene el tamaño 8 mm y la columna de velocidad 10÷12 mt/min, se encuentra el valor de 480 rpm .De manera que el taladro debe realizarse con una velocidad de 480 rpm con 0,1 mm/revolución de avance. Finalmente, una lubricación adecuada garantiza los mejores resultados de corte.*

PT Os gráficos utilizam exemplos: *Se pretende fazer um furo de 8 mm com uma broca HSS numa chapa metálica e deseja conhecer os parâmetros de corte corretos, consulte o gráfico n.° 1 onde pode ver que uma broca HSS tem um avanço sugerido de 0,1 mm/revolução e uma velocidade de corte de 10÷12 mt/minuto. Para a conversão da velocidade mt/min e rpm, consultar a tabela n. 2; cruzando a linha que contém a dimensão 8 mm e a coluna da velocidade 10÷12 mt/min, encontra-se o valor de 480 rpm, pelo que a broca deve ser efetuada a uma velocidade de 480 rpm com um avanço de 0,1 mm/revolução. Uma lubrificação adequada garante finalmente os melhores resultados de corte.*



PARAMETRI DI TAGLIO PER PUNTE IN METALLO DURO O CON PLACCHETTE IN METALLO DURO PER IL TAGLIO DEI METALLI

EN *Recommended cutting parameter chart for tungsten carbide drill bits and carbide tipped twist drills on metals cuttings*
FR *Tableau des paramètres de coupe pour les forets en carbure de tungstène et les forets hélicoïdaux sur les débris métalliques*
ESP *Tabla de parámetros de corte recomendados para brocas de carburo de tungsteno y brocas helicoidales de metal duro en cortes de metales*
PT *Recommended cutting parameter chart for tungsten carbide Broca bits and carbide tipped twist Brocas on metals cuttings*

METALLO DURO
H.M.

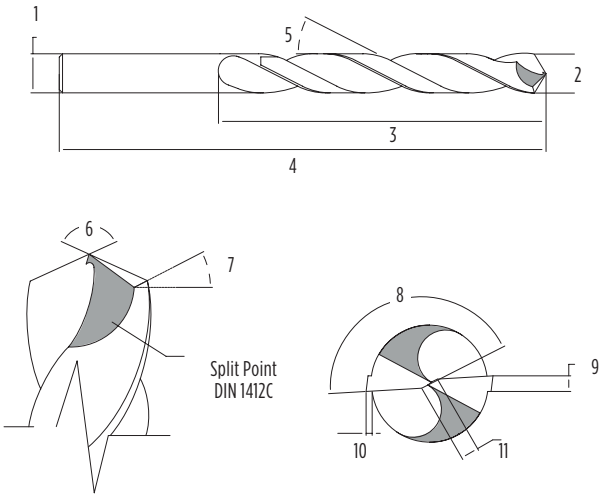


MATERIALE DA LAVORARE *Work-piece material*	RESISTENZA A TRAZIONE/ DUREZZA TENSILE *strenght/hardness*	VELOCITÀ DI TAGLIO *Cutting speed* MT/MIN.	DIAMETRO PUNTA *Drill size (mm)*						REFRIGERANTE *Cooland*
			2	2,5	4	5	8	10	
			AVANZAMENTO *Feed (mm)*						
ACCIAIO BASSO LEGATO ***Low alloy steel***	Fino *Up to* 700 N/mm2	80-100	0,025	0,0315	0,05	0,05	0,08	0,1	
ACCIAIO LEGATO E ALTO LEGATO ***High alloy steel***	Fino *Up to* 900 N/mm2 Oltre *Beyond* 900 N/mm2	70-90 60-70	0,02 0,0125	0,025 0,016	0,04 0,025	0,05 0,025	0,063 0,04	0,08 0,05	
ACCIAIO PER UTENSILI ***Tool steel***	Fino *Up to* 1000 N/mm2 Oltre *Beyond* 1000 N/mm2	50-60 20-40	0,0125 0,01	0,016 0,0125	0,025 0,02	0,025 0,025	0,04 0,0315	0,05 0,04	
ACCIAIO TEMPRATO ***Tempered steel***	Fino *Up to* to 60 HRC	10-30	0,0063	0,008	0,0125	0,0125	0,02	0,025	
ACCIAIO PER MOLLE ***Spring steel***		20-50	0,01	0,0125	0,02	0,025	0,0315	0,04	
ACCIAIO AUSTENITICO CR-NI, INOX, RESISTENTE AGLI ACIDI E AL CALORE ***Austenitic stainless steel, acid resistant steel, heat resistant steel***		20-40	0,008	0,01	0,016	0,02	0,025	0,0315	
ACCIAIO FERRITICO, INOX, RESISTENTE AL CALORE ***Ferritic steel, stainless steel, heat resistant steel***		40-60	0,0125	0,016	0,025	0,025	0,04	0,05	
ACCIAIO DURO AL MN ***Hard Mn steel***		20-40	0,0063	0,008	0,0125	0,0125	0,02	0,025	
ACCIAIO FUSO ***Cast steel***	Fino *Up to* 500 N/mm2 Oltre *Beyond* 500 N/mm2	60-80 30-60	0,025 0,016	0,0315 0,02	0,05 0,0315	0,05 0,0315	0,08 0,05	0,1 0,08	
ACCIAIO FUSO LEGATO / GHISA IN CONGHIGLIA ***Alloy cast steel / Chilled iron***	Fino *Up to* 350 HB Oltre *Beyond* 350 HB	40-60 20-40	0,0125 0,0063	0,016 0,008	0,025 0,0125	0,025 0,0125	0,04 0,02	0,05 0,025	
GHISA GRIGIA ***Grey cast iron***	Fino *Up to* GG 40	70-100	0,025	0,0315	0,05	0,05	0,08	0,1	
GHISA SFEROIDALE / GHISA MALLEABILE ***Spheroidal cast iron / Malleable cast iron***	Fino *Up to* GGG 60 Fino *Up to* GTW/GTS 55	50-80	0,02	0,025	0,04	0,05	0,063	0,08	
RAME ***Copper***		80-110	0,02	0,025	0,04	0,05	0,063	0,08	
BRONZO ***Bronze***	Duro *Hard* Tenero *Soft*	60-80 100-120	0,016 0,025	0,02 0,0315	0,0315 0,05	0,0315 0,05	0,05 0,08	0,063 0,1	
LEGHE DI ALLUMINIO FINO A 11% SI ***Aluminium alloy up to 11% Si***		100-140	0,0135	0,04	0,063	0,063	0,1	0,125	
LEGHE DI ALLUMINIO OLTRE 11% SI ***Aluminium alloy beyond 11% Si***		60-100	0,02	0,025	0,04	0,05	0,063	0,08	
OTTONE, ZN, BRONZO PER GETTI ***Brass, Zn, Cast bronze***		80-110	0,02	0,025	0,04	0,05	0,063	0,08	
TITANIO E LE SUE LEGHE ***Titanium alloy***		20-40	0,01	0,0125	0,02	0,025	0,0315	0,04	
LEGHE DI MAGNESIO ***Magnesium alloy***		100-150	0,0315	0,04	0,063	0,063	0,1	0,125	
MATERIE PLASTICHE DURE ***Hard plastics***		60-100	0,0315	0,04	0,063	0,063	0,1	0,125	
MATERIE PLASTICHE TENERE, LAMINATI, TERMOPLASTICI ***Soft plastics, thermoplastics, laminates***		80-150	0,04	0,05	0,08	0,1	0,125	0,16	
RESINE EPOSSIDICHE RINFORZATE ***Reinforced epoxy resins***		60-100	0,0315	0,04	0,063	0,063	0,1	0,125	

Nota: Le punte elicoidali cilindriche rettificate garantiscono la realizzazione di fori di tolleranza H10÷H12
EN *Fully ground twist drills made holes with H10÷H12 tolerance*
FRA *Les forets hélicoïdaux entièrement rectifiés réalisent des trous avec une tolérance H10÷H12*
ESP *Las brocas helicoidales totalmente rectificadas realizan agujeros con tolerancia H10÷H12*
PT *As brocas helicoidais totalmente retificadas fazem furos com tolerância H10÷H12*

NOMENCLATURA PER PUNTE ELICOIDALI CILINDRICHE

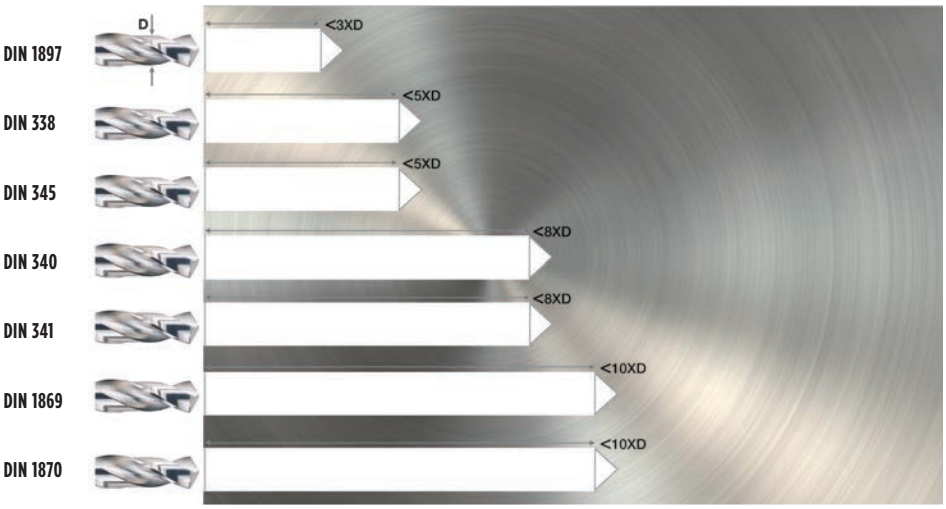
EN *Twist drill nomenclature*
FR *Nomenclature des forets hélicoïdaux*
ESP *Nomenclatura de las brocas helicoidales*
PT *Nomenclatura das brocas helicoidais*



1	(D)	**CODOLO** ***Shank***
2	(Ø)	**DIAMETRO** ***Diameter***
3	(L)	**ELICA** ***Flute***
4	(L)	**LUNGHEZZA TOTALE** ***Overall length***
5	(A)	**ANGOLO DELL'ELICA** ***Helix angle***
6		**ANGOLO DEI TAGLIENTI** ***Point angle***
7		**ANGOLO DI SPOGLIA LIP** ***Clearance angle***
8		**ANGOLO DEL TAGLIENTE CENTRALE** ***Chisel edge angle***
9		**FASE** ***Land***
10		**PROFONDITÀ DELLO SCARICO** ***Depth of body clearance***
11		**NOCCIOLO WEB** ***thickness***

PROFONDITÀ DI FORATURA INDICATIVE PER PUNTE ELICOIDALI

EN *Cutting depth according to twist drill standard*
FRA *Profondeur de coupe selon la norme des forets hélicoïdaux*
ESP *Profundidad de corte según la norma de brocas helicoidales*
PT *Profundidade de corte de acordo com a norma de broca helicoidal*



RELAZIONE TEORICA TRA LA VELOCITÀ DI TAGLIO E LA VITA UTILE DELL'UTENSILE

EN *Theoretical link between the cutting speed and the tool life cycle*
FRA *Lien théorique entre la vitesse de coupe et le cycle de vie de l'outil*
ESP *Relación teórica entre la velocidad de corte y el ciclo de vida de la herramienta*
PT *Relação teórica entre a velocidade de corte e o ciclo de vida da ferramenta*

LEGGE DI TAYLOR

$$VT \times T^n = C$$

VT è la velocità di taglio espressa in m/min

T è la vita utile dell'utensile espressa in min

C (m/min) e **n** sono costanti che dipendono dalla tipologia di utensile. In particolare, per utensili HSS C=60 m/min e n=0.15, per utensili in metallo duro C=300 m/min e n=0.3

Una punta HSS di diametro 8 mm ha un ciclo di vita teorico di: 2500 h se usata a 400 giri/min - 25 h se usata a 800 giri/min.

EN Vt *is the cutting speed in m/min*
T *is the tool life cycle in min / C=60 m/min, n=0,15 for HSS cutting tools, C=300 m/min, n=0,3 for hard metal cutting tools.*
C *(m/min) and* ***n*** *are constant values depending on the tool type. HSS twist drill Ø 8 mm has a theorical tool life cycle of 2500h at 400rpm, 25h at 800rpm*

FRA Vt *est la vitesse de coupe en m/min*
T *est le cycle de vie de l'outil en min / C=60 m/min, n=0,15 pour les outils de coupe HSS, C=300 m/min, n=0,3 pour les outils de coupe en métal dur.*
C *(m/min) et* ***n*** *sont des valeurs constantes qui dépendent du type d'outil.*
Le foret hélicoïdal HSS de Ø 8 mm a une durée de vie théorique de 2500h à 400rpm, 25h à 800rpm.

ESP Vt *es la velocidad de corte en m/min*
T *es el ciclo de vida de la herramienta en min / C=60 m/min, n=0,15 para herramientas de corte de HSS, C=300 m/min, n=0,3 para herramientas de corte de metal duro.* ***C*** *(m/min) y* ***n*** *son valores constantes en función del tipo de herramienta.*
La broca espiral HSS Ø 8 mm tiene una vida útil teórica de 2500h a 400rpm, 25h a 800rpm

PT Vt *é a velocidade de corte em m/min*
T *é o ciclo de vida da ferramenta em min / C=60 m/min, n=0,15 para ferramentas de corte HSS, C=300 m/min, n=0,3 para ferramentas de corte de metal hard.* ***C*** *(m/min) e* ***n*** *são valores constantes que dependem do tipo de ferramenta.*
A broca helicoidal HSS Ø 8 mm tem um ciclo de vida teórico da ferramenta de 2500h a 400rpm, 25h a 800rpm

VELOCITÀ DI TAGLIO PER FRESE A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les fraises et les outils d'ébavurage en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para avellanadoras y desbarbadoras en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendados para ferramentas de rebarbação e escareamento em função dos materiais a trabalhar*

FRESE A SVASARE
Deburring tools





MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO *Cutting speed* MT/MIN	REFRIGERANTE *Cooland*
ACCIAIO NON LEGATO *Carbon steel*	20	
ACCIAIO LEGATO FINO A 700 N/MM2 *Alloy steel up to 700 N/mm2*	15	
ACCIAIO LEGATO FINO A 1000 N/MM2 *Alloy steel up to 1000 N/mm2*	10	
GHISA FINO A 250 N/MM2 *Cast iron up to 250 N/mm2*	10	
GHISA OLTRE 250 N/MM2 *Cast iron beyond 250 N/mm2*	8	
OTTONE FRAGILE *Fragile brass*	40	
OTTONE PLASTICO *Tough brass*	20	
LEGHE DI ALLUMINIO FINO A 11% SÌ *Aluminium alloys up to 11% Si*	20	
MATERIALE TERMOPLASTICO *Thermoplastics*	15	
MATERIALE TERMOINDURENTE *Thermosetting plastics*	10	

PARAMETRI DI TAGLIO PER UTENSILI CONICI IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for conical drill bits in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les forets coniques en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para brocas cónicas en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendados para brocas cónicas em função dos materiais a trabalhar*

UTENSILI CONICI
Conical drill bits



MATERIALE DA LAVORARE *Work-piece material*	PROFONDITÀ DI FORATURA *Cutting depth* mm	GRANDEZZA *Size* 1	2	3	4	5	6	7	8	REFRIGERANTE *Cooland*
		3÷14	6÷20	16÷30,5	26÷40	36÷50	40÷61	3÷31	3÷22,5	
		GIRI/MIN - *RPM*								
ACCIAIO INOX E ALTO LEGATO *Stainless steel high alloy steel*	1	750	500	280	200	150	130	400	500	
ACCIAIO BASSO LEGATO *Low alloy steel*	2	1100	740	420	300	220	190	580	740	
GHISA FINO A 250 N/MM² *Cast iron up to 250 N/mm²*	3	560	360	200	150	110	100	300	360	
GHISA OLTRE 250 N/MM² *Cast iron beyond 250 N/mm²*	3	380	240	140	100	80	60	200	240	
OTTONE FRAGILE *Fragile brass*	3	2200	1500	830	600	440	400	1100	1500	
OTTONE TENACE *Tough brass*	3	1300	860	480	340	260	220	680	860	
LEGHE LEGGERE *Light alloys*	5	1100	740	420	300	220	190	580	740	
PLASTICA *Plastics*	5	1300	860	480	340	260	220	680	860	

PARAMETRI DI TAGLIO PER UTENSILI A GRADINO IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for step drills in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les forets étagés en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para las brocas escalonadas en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendados para as brocas escalonadas de acordo com os materiais a trabalhar*

UTENSILI A GRADINO
Step drill bits



MATERIALE DA LAVORARE *Work-piece material*	PROFONDITÀ DI FORATURA *Cutting depth* mm	GRANDEZZA *Size* 1	2	3	4	5	6	7	8	9	10	11	21	22	23	24	REFRIGERANTE *Cooland*
		4÷12	4÷12	12÷20	4÷20	20÷30	4÷30	30÷40	40÷50	6÷36	6÷58	4÷39	6,3÷26,75	6÷30,5	6÷37	6÷38	
		GIRI/MIN - *RPM*															
ACCIAIO INOX E ALTO LEGATO *Stainless steel high alloy steel*	3÷4	800	800	400	530	250	380	180	140	300	200	300	400	350	300	300	
ACCIAIO BASSO LEGATO *Low alloy steel*	3÷4	1200	1200	600	800	380	560	280	200	450	300	450	600	530	450	450	
GHISA FINO A 250 N/MM2 *Cast iron up to 250 N/mm2*	3÷4	600	600	300	400	190	280	140	100	230	150	230	300	260	230	230	
GHISA OLTRE 250 N/MM2 *Cast iron beyond 250 N/mm2*	3÷4	400	400	200	260	130	190	90	70	150	100	150	200	180	150	150	
OTTONE FRAGILE *Fragile brass*	3÷4	2400	2400	1200	1600	760	1100	550	420	900	600	900	1200	1000	900	900	
OTTONE TENACE *Tough brass*	3÷4	1400	1400	700	920	450	650	320	240	530	350	530	700	620	530	530	
LEGHE LEGGERE *Light alloys*	3÷4	1200	1200	600	800	380	560	280	200	450	300	450	600	530	450	450	
PLASTICA *Plastics*	3÷4	1400	1400	700	920	450	650	320	240	530	350	530	700	620	530	530	

VELOCITÀ DI TAGLIO PER FRESE A INCASSARE, SVASARE E SBAVARE IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for countersinks and deburring tools in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les fraises et les outils d'ébavurage en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para avellanadoras y desbarbadoras en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendados para ferramentas de rebarbação e escareamento em função dos materiais a trabalhar*

FRESE A TAZZA
Hole cutters



MATERIALE DA LAVORARE *Work-piece material*	Ø FRESA *Hole cutter* mm												REFRIGERANTE *Cooland*
	12÷17	18÷24	25÷32	33÷38	39÷44	46÷51	52÷57	58÷64	65÷70	71÷80	81÷90	91÷100	
	N. GIRI/MIN - *RPM*												
ACCIAIO BASSO LEGATO *Low alloy steel*	550	380	300	240	200	170	150	130	120	110	100	90	
ACCIAIO INOX E ALTO LEGATO *Stainless steel high alloy steel*	230	160	130	100	80	70	60	60	50	50	40	40	
GHISA *Cast iron*	280	190	150	120	100	90	80	70	60	60	50	40	
LEGHE LEGGERE *Light alloys*	870	590	470	370	310	270	240	210	190	170	150	140	
ALLUMINIO *Aluminium*	870	590	470	370	310	270	240	210	190	170	150	140	
PLASTICA *Plastics*	660	450	350	280	240	210	180	160	150	130	120	100	

VELOCITÀ DI TAGLIO PER FRESE A CAROTARE IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for core bits in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les trépans en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para las brocas en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendada para as fresas TCT de acordo com os materiais a trabalhar*

FRESE A CAROTARE IN HSS
HSS Core drills



MATERIALE DA LAVORARE *Work-piece material*	Ø FRESA *Hole cutter* mm							REFRIGERANTE *Cooland*
	12÷15	16÷20	21÷25	26÷30	31÷35	36÷45	50÷60	
	N. GIRI/MIN - *RPM*							
ACCIAIO BASSO LEGATO *Low alloy steel*	660	480	370	310	260	200	160	
ACCIAIO INOX E ALTO LEGATO *Stainless steel high alloy steel*	290	210	170	140	120	90	70	
GHISA *Cast iron*	340	250	190	160	140	110	80	
LEGHE LEGGERE *Light alloys*	1030	740	580	480	410	320	240	

VELOCITÀ DI TAGLIO PER FRESE A CAROTARE CON DENTI IN METALLO DURO

EN *Recommended cutting parameter chart for core bits in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les trépans en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para las brocas en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendados para serras de trépano bimetálicas em função dos materiais a trabalhar*

FRESE A CAROTARE TCT
TCT Core drills



MATERIALE DA LAVORARE *Work-piece material*	Ø FRESA *Hole cutter* mm							REFRIGERANTE *Cooland*
	12÷15	16÷20	21÷25	26÷30	31÷35	36÷45	50÷60	
	N. GIRI/MIN - *RPM*							
ACCIAIO BASSO LEGATO *Low alloy steel*	1220	880	690	570	480	380	290	
ACCIAIO INOX E ALTO LEGATO *Stainless steel high alloy steel*	860	620	480	400	340	270	200	
GHISA *Cast iron*	980	710	550	450	390	300	230	
LEGHE LEGGERE *Light alloys*	1470	1060	380	680	580	450	350	

VELOCITÀ DI TAGLIO PER FRESE A TAZZA TCT IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for TCT hole cutters in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les scies cloches TCT en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para cortadores de agujeros TCT en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendada para as fresas TCT de acordo com os materiais a trabalhar*

FRESE A TAZZA TCT
TCT Hole cutters



MATERIALE DA LAVORARE *Work-piece material*	SPESSORE DI FORATURA *Cutting depth* mm	Ø FRESE TCT TCT *hole cutter* mm						REFRIGERANTE *Cooland*
		15÷20	21÷25	26÷30	31÷40	41÷50	51÷70	
		N. GIRI/MIN - *RPM*						
ACCIAIO BASSO LEGATO *Low alloy steel*	4	710	550	450	360	280	210	
ACCIAIO INOX E ALTO LEGATO *Stainless steel high alloy steel*	2	530	420	340	270	210	160	
GHISA *Cast iron*	4	620	480	400	320	250	190	
OTTONE *Brass*	4	800	620	510	410	320	240	
ALLUMINIO *Aluminium*	4	880	690	570	450	350	270	
PLASTICA *Plastics*	4	740	580	480	380	300	220	

VELOCITÀ DI TAGLIO PER SEGHE A TAZZA IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Recommended cutting parameter chart for bimetal hole saws in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les scies cloches bimétalliques en fonction des matériaux à travailler*
ESP *Tabla de parámetros de corte recomendados para las sierras de corona bimetálicas en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendados para serras de trépano bimetálicas em função dos materiais a trabalhar*

SEGHE A TAZZA
Bimetal hole saws



MATERIALE DA LAVORARE *Work-piece material*	Ø SEGA *Hole saw* mm																	REFRIGERANTE *Cooland*
	14÷17	19÷24	25÷32	33÷38	40÷44	46÷51	52÷57	59÷64	65÷70	73÷79	83÷89	92÷98	102÷108	111÷121	127÷140	146÷152	160÷210	
	N. GIRI/MIN - *RPM*																	
FERRO/ACCIAIO DOLCE *Low alloy steel*	530	360	280	230	190	170	140	130	120	110	90	80	80	70	60	50	40	
ACCIAI TRATTATI *Stainless steel* **ACCIAI INOX** *High alloy steel*	210	140	110	90	80	70	60	50	50	40	40	30	30	30	20	20	20	
GHISA *Cast iron*	250	170	140	110	90	180	70	60	60	50	40	40	40	30	30	30	20	
OTTONE *Brass*	740	510	400	320	270	230	200	180	170	150	130	120	110	100	80	70	60	
ALLUMINIO E LEGHE LEGGERE *Aluminium Light alloys*	850	580	450	360	300	270	230	210	190	170	150	130	120	110	100	80	70	
LEGNO *Wood*	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	80	
PLASTICA *Plastics*	640	430	340	270	230	200	170	150	140	130	110	100	90	80	70	60	50	
CARTONGESSO *Gypsum board*	960	650	510	410	340	300	260	230	210	190	170	150	140	120	110	100	80	

VELOCITÀ DI TAGLIO IN FUNZIONE DEL DIAMETRO DELLA FRESA ROTATIVA IN HSS

EN *Recommended cutting parameter chart for HSS rotary files*
FR *Tableau des paramètres de coupe recommandés pour les limes rotatives HSS*
ESP *Tabla de parámetros de corte recomendados para limas rotativas HSS*
PT *Tabela de parâmetros de corte recomendados para limas rotativas HSS*

FRESE ROTATIVE HSS
HSS rotary files



Z2: Vt 220 ÷ 250 m/min
Z3: Vt 80 ÷ 220 m/min

DIAMETRO FRESA ***Rotary burr diameter*** **mm**	**VELOCITÀ DI TAGLIO *Cutting speed* MT/MIN**							
	80	**100**	**150**	**200**	**220**	**230**	**240**	**250**
	N. GIRI/MIN - *RPM*							
6	4250	5310	7960	10620	11680	12210	12740	13270
8	3180	3980	5970	7960	8760	9160	9550	9950
10	2550	3180	4780	6370	7010	7320	7640	7960
12	2120	2650	3980	5310	5840	6100	6370	6630
15	1700	2120	3180	4250	4670	4880	5100	5310

VELOCITÀ DI TAGLIO IN FUNZIONE DEL DIAMETRO DELLA FRESA ROTATIVA IN METALLO DURO

EN *Recommended cutting parameter chart for carbide rotary files*
FR *Tableau des paramètres de coupe recommandés pour les limes rotatives en carbure*
ESP *Tabla de parámetros de corte recomendados para limas rotativas de carburo*
PT *Tabela de parâmetros de corte recomendados para limas rotativas de metal hard*

FRESE ROTATIVE HM
Bimetal hole saws



Tutti i tipi di taglio
All cut types
(HM1,HM3 PLUS,
HM3, HM4):
Vt 300 ÷ 400 m/min

DIAMETRO FRESA ***Rotary burr diameter*** **mm**	**VELOCITÀ DI TAGLIO *Cutting speed* MT/MIN**					
	300	**320**	**340**	**360**	**380**	**400**
	N. GIRI/MIN - *RPM*					
6	15930	16980	18050	19100	20170	21230
8	11950	12740	13535	14330	15130	15920
10	9550	10190	10830	11465	12100	12740
12	7960	8490	9020	9560	10085	10620
16	5970	6370	6770	7160	7570	7960

PARAMETRI DI TAGLIO DELLA SEGA CIRCOLARE IN HSS

EN *Recommended cutting parameter chart for HSS band saw blades*
FR *Tableau des paramètres de coupe recommandés pour les lames de scie à ruban HSS*
ESP *Tabla de parámetros de corte recomendados para hojas de sierra de cinta HSS*
PT *Tabela de parâmetros de corte recomendados para lâminas de serra de fita HSS*

SEGHE CIRCOLARI HSS

HSS circular blades



MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ AVANZAMENTO *Feed rate* MM/MIN	VELOCITÀ PERIFERICA DI TAGLIO *Cutting speed* MT/MIN	REFRIGERANTE *Cooland*
ACCIAIO CON R<500 N/MM² *Steel with R<500 N/mm²*	15÷25	70÷100	
ACCIAIO CON R<800 N/MM² *Steel with R<800 N/mm²*	10÷15	25÷35	
ACCIAIO CON R<1000 N/MM² *Steel with R<1000 N/mm²*	5÷10	30÷40	
ACCIAIO CON R<1400 N/MM² *Steel with R<1400 N/mm²*	5÷7	15÷25	
ACCIAIO INOX *Stainless steel*	5÷7	25÷35	
GHISA *Cast iron*	10÷15	50÷70	
ALLUMINIO *Aluminium*	20÷40	70÷150	
OTTONE E BRONZO *Brass and bronze*	20÷40	70÷150	
RAME *Copper*	20÷40	70÷150	
PLASTICA *Plastics*	20÷50	100÷200	

PARAMETRI DI TAGLIO DELLA SEGA CIRCOLARE IN METALLO DURO

EN *Recommended cutting parameter chart for carbide band saw blades*
FR *Tableau des paramètres de coupe recommandés pour les lames de scie à ruban au carbure*
ESP *Tabla de parámetros de corte recomendados para hojas de sierra de cinta de carburo*
PT *Tabela de parâmetros de corte recomendados para lâminas de serra de fita de metal hard*

SEGHE CIRCOLARI TCT

TCT circular blades



mm (inches) / RPM MAX.	100 (4”)	110 (4”)	125 (5”)	130 (5”)	140 (5 1/2”)	150 (5 7/8”)	165 (6 1/2”)	184 (7 1/4”)	190 (7 1/2”)
LEGNO *wood*	15000	13000	12000	10000	10000	10000	9000	8500	8000
ALLUMINIO *Aluminium*	13000	11000	10000	10000	9500	9000	8000	7500	7000
METALLO *Metal*	6500	6000	5500	5000	5000	4500	4000	3500	3500

mm (inches) / RPM MAX.	205 (8”)	216 (8 1/2”)	235 (9 1/4”)	254 (10”)	260 (10 1/4”)	305 (12”)	315 (12 1/2”)	355 (14”)	405 (16”)
LEGNO *wood*	7500	7000	6500	6000	6000	5000	4500	4000	3500
ALLUMINIO *Aluminium*	6500	6000	6000	5500	5000	4200	4200	3800	3200
METALLO *Metal*	3000	3000	3000	2500	2500	2000	2000	2000	1500

Verificare sempre il n° di giri massimo riportato sulla lama e sul manuale della macchina.
EN *Always check the maximum RPM indicated on the blade and in the machine's manual.*
FRA *Vérifiez toujours la vitesse de rotation maximale indiquée sur la lame et dans le manuel d'utilisation de la machine.*
ESP *Comprueba siempre el número máximo de revoluciones indicado en la hoja y en el manual de la máquina.*
PT *Verifique sempre a rotação máxima indicada na lâmina e no manual da máquina.*

SCELTA DELLA LAMA E DEI SUOI PARAMETRI DI TAGLIO IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Chart for blades selection and relative cutting speed in accordance with the materials to work*
FR *Tableau de sélection des lames et de la vitesse de coupe relative en fonction des matériaux à travailler*
ESP *Tabla de selección de cuchillas y velocidad de corte relativa en función de los materiales a trabajar*
PT *Tabela para seleção das lâminas e velocidade de corte relativa em função dos materiais a trabalhar*



Consigli
Tips







A = Trucioli sottili e/o spezzettati indicano una pressione di taglio insufficiente
Thin or powdery chips: increase feed pressure
B = Trucioli spessi, compressi e con una colorazione bluastra segnalano un eccessivo carico di lavoro
Heavy thick blue chips: reduce feed rate
C = Trucioli sottili e morbidamente arricciati rilevano un corretto utilizzo dei parametri di taglio
Loosely curled chips: correct feed speed

MATERIALE DA LAVORARE *Work-piece material*	VALORI DIN	M-42 ART. 25016	M-42 ART. 25010	M-42 ART. 25011	ASP ART. 25018	VELOCITÀ DI TAGLIO *Cutting speed* MT/MIN	REFRIGERANTE COOLAND
ACCIAI DA COSTRUZIONE *Structurall steels*	St 37 / St 44 St 50 / St 60	■	■	■		80-100 50-70	1:20
ACCIAI DA CEMENTAZIONE *Case-Hardening steels*	C 10 / C 15 14 NiCr14 21 NiCRMo 2 16 MnCr 5	■	■	■		80-100 40-55 50-60 50-60	1:15
ACCIAI AUTOMATICI *Free-Machining steels*	9 S20	■	■	■		80-100	1:15
ACCIAI DA BONIFICA *Heat treating steels*	C 35 / C 40 / C 45 40 Mn 4 36 NiCr 6 2 34 CrNiMo 42 CrMo 4		■	■	■	60-70 60-70 50-65 50-65 50-65	1:10
ACCIAI PER CUSCINETTI A SFERA *Ball bearing tool steels*	100 Cr 6 100 CrMn 6		■	■	■	35-50	1:10
ACCIAI PER MOLLE *Spring steels*	60 Si 7 50 Cr V4		■	■	■	45-60	1:10
ACCIAI PER UTENSILI PER LAVORAZIONI A FREDDO *Cold-working tool steels*	125 Cr 1 X 210 Cr 12 X 155 CrVMo 12 1 100 MnCrW 4 90 MnCrV 8		■	■	■	40-50 20-30 20-30 40-50 30-35	1:30 1:30 1:30 1:30 1:30
ACCIAI PER UTENSILI PER LAVORAZIONI A CALDO *Hot-working tool steels*	40 CrMnMo 7 X 40 CrMoV 5 1 56 NiCrMoV 7 40 CrMnNiMo 8 6 4		■	■	■	20-25 18-22 25-30 20-25	1:20 1:20 1:20 1:20
ACCIAI RAPIDI *High speed steels*	S 6-5-2-5 S 6-5-2 S 3-3-2 S 18-0-1 S 18-1-2-10			■	■	35-45	1:10
ACCIAI PER VALVOLE *Valve steels*	W 45 CrSi 9 3 X 45 CrNiW 18 9			■	■	30-40	1:10
ACCIAI PER ALTE TEMPERATURE *Heat resistant steels*	X 20 CrMoV 12 1 X 5 NiCrTi 26 15			■	■	15-25	1:8
ACCIAI RESISTENTI AL CALORE HEAT RESISTANT STEELS	X 10 CrSi 6 X 10 CrAl 18 X 15 CrNiSi 25 30		■		■	15-25	1:8
ACCIAI INOSSIDABILI *Stainless steels*	X 5 CrNi 18 9 X 10 CrNiMoTi 1810	■	■	■	■	30-40	1:8
ACCIAI LEGATI *Alloyed steels*	1000-1500 N/mm²			■	■	25-35	1:10
LEGHE SPECIALI A BASE DI NICHEL *Nichel-Base Alloys*	Nimonic Nimonic Hastelloy Hastelloy Incoloy Inconel				■	10-20 10-20 10-20 10-20 10-25 10-25	1:6
PLASTICHE *Plastics*	Teflon PVC		■	■		100-400	1:50 A secco *Dry*
BRONZO *Bronze*	CuSn 6 G-CuSn 8				■	80-150	1:30
BRONZO ALLUMINIO *Bronze-Aluminium*	CuAl 8 CuAl 8 Fe G-CuAl 10 Fe				■	50-70 35-50 35-50	1:30
ALLUMINIO *Aluminium*	Al-99,5		■	■		80-800	1:30
GHISA *Cast irons*	G-AlSiCu 4 GG - 15 GG - 30 GTW - 40 GTS - 65 GGG - 50		■	■		50-70	A secco *Dry*
FUSIONI D'ACCIAIO *Casting iron*	GS - 38 GS - 60		■	■		40-60	1:30
OTTONE *Brass*	CuZn10 CuZn408b 2		■	■		100-600	1:30
RAME *Copper*	Cu 99,0 Cu Be 2		■	■		100-400	1:10
TITANIO *Titanium*	Ti 1		■	■	■	10-20	1:10

SCELTA DELLE VELOCITÀ DI TAGLIO DEI MASCHI A MACCHINA, IN FUNZIONE DEL MATERIALE DA FILETTARE

EN *Chart for machine taps selection and relative cutting speed in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les lames de scie à ruban HSS*
ESP *Tabla de selección de machos de máquina y velocidad de corte relativa en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendada para lâminas de serra de fita HSS*

MASCHI A MACCHINA
Machine taps

MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ PERIFERICA DI TAGLIO *Cutting speed* (MT/SEC.)	REFRIGERANTE *Cooland*
ACCIAIO BASSO LEGATO *Low alloy steel*	10÷20	
ACCIAI REFRATTARI, ACCIAI PER UTENSILI *Heat resistant steel, Tool steel*	4÷8	
ACCIAI R>1200 N/MM2 *Steel R>1200N/mm2*	2÷5	
ACCIAIO INOX *Stainless steeL*	5÷10	
LEGHE SPECIALI *Nimonic, Hastelloy*	2÷4	
GHISA SFEROIDALE *Spheroidal cast iron*	6÷20	
GHISA MALLEABILE *Malleable cast iron*	6÷12	
OTTONE TRUCIOLO CORTO *Brass short chipping*	20÷30	
OTTONE TRUCIOLO LUNGO, LEGHE DI RAME, LEGHE DI ZINCO *Brass long chipping, Cu alloy, Zn alloy*	10÷15	
BRONZO *Bronze*	6÷15	
ALLUMINIO TRUCIOLO CORTO *Alu Short chipping*	15÷30	
ALLUMINIO TRUCIOLO LUNGO, LEGHE DI MAGNESIO *Alu long-chipping, Mg alloy*	10÷20	
TITANIO *Titanium*	3÷4	
PLASTICA E MATERIALI TERMOPLASTICI *Thermoplastics*	5÷15	
MATERIALI TERMOINDURENTI *Thermosetting materials*	5÷10	

Note: Valido per i fori ciechi e passanti. Utilizzare per spessori <1,5 Ø dell'utensile
EN *Notes: Suited for blind and through holes.To be used with thickness < 1,5 Ø of the tool*
ESP *Notas: Adecuado para agujeros ciegos y pasantes. Para utilizar con espesor < 1,5 Ø de la herramienta*
FRA *Remarques: Adapté aux trous borgnes et débouchants. A utiliser avec une épaisseur < 1,5 Ø de l'outil*
PT *Notas: Adequado para furos cegos e de passagem. Para ser utilizado com uma espessura < 1,5 Ø da ferramenta*

SCELTA DEI MASCHI A MACCHINA CON ANELLI COLORATI IN FUNZIONE DEL MATERIALE DA FILETTARE

EN *Chart for colored rings machine taps selection and relative cutting speed in accordance with the materials to work*
FR *Tableau des paramètres de coupe recommandés pour les lames de scie à ruban en carbure*
ESP *Tabla de selección de machos de roscar para máquinas de anillos de colores en función de los materiales a trabajar*
PT *Tabela de parâmetros de corte recomendada para lâminas de serra de fita de metal duro*

MASCHI A MACCHINA
Machine taps



MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO *Cutting speed* (M/MIN.)	REFRIGERANTE *Cooland*	ART. 10500	ART. 10504	ART. 10508	ART. 10510	ART. 10511	ART. 10513
ACCIAIO BASSO LEGATO *Low alloy steel*	10÷20			■				
ACCIAI REFRATTARI, ACCIAI PER UTENSILI *Heat resistant steel, Tool steel*	4÷8		■	■		■		
ACCIAI R>1200 N/MM² *Steel R>1200N/mm²*	2÷5					■		
ACCIAIO INOX *Stainless steel*	5÷10		■	■				
LEGHE SPECIALI *Nimonic, Hastelloy*	2÷4							
GHISA SFEROIDALE *Spheroidal cast iron*	6÷20		■		■			
GHISA MALLEABILE *Malleable cast iron*	6÷12				■			
OTTONE TRUCIOLO CORTO *Brass short chipping*	20÷30				■			
OTTONE TRUCIOLO LUNGO, LEGHE DI RAME, LEGHE DI ZINCO *Brass long chipping, Cu alloy, Zn alloy*	10÷15			■				
BRONZO *Bronze*	6÷15			■	■			
ALLUMINIO TRUCIOLO CORTO *Alu Short chipping*	15÷30		■		■			
ALLUMINIO TRUCIOLO LUNGO, LEGHE DI MAGNESIO *Alu long-chipping, Mg alloy*	10÷20			■			■	
TITANIO *Titanium*	3÷4		■	■				
PLASTICA E MATERIALI TERMOPLASTICI *Thermoplastics*	5÷15				■	■		
MATERIALI TERMOINDURENTI *Thermosetting materials*	5÷10				■			

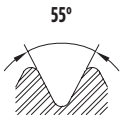
Note: Valido per i fori ciechi e passanti. Utilizzare per spessori <1,5 Ø dell'utensile
EN *Notes: Suited for blind and through holes.To be used with thickness < 1,5 Ø of the tool*
ESP *Notas: Adecuado para agujeros ciegos y pasantes. Para utilizar con espesor < 1,5 Ø de la herramienta*
FRA *Remarques: Adapté aux trous borgnes et débouchants. A utiliser avec une épaisseur < 1,5 Ø de l'outil*
PT *Notas: Adequado para furos cegos e de passagem. Para ser utilizado com uma espessura < 1,5 Ø da ferramenta*

TABELLA DI CONVERSIONE DELLE FILETTATURE A POLLICE IN MISURE METRICHE

EN *Conversion chart from metric to inch threads*
FR *Tableau de conversion des filetages métriques en filetages en pouces*
ESP *Tabla de conversión de roscas de sistema métrico a pulgadas*
PT *Tabela de conversão de roscas métricas para roscas em polegadas*

METRICO
Metric-Inches

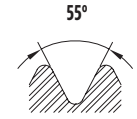
BSW



BSPP-BSW-BSF

pollici inches	mm	pollici inches	mm	pollici inches	mm	pollici inches	mm
1/16-60	1,59	7/16-14	11,11	1.3/8-6	34,92	3”-3,5	76,20
3/32-48	2,38	1/2-12	12,70	1.1/2-6	38,10	3.1/4-3 1/4	82,55
1/8-40	3,17	9/16-12	14,28	1.5/8-5	41,28	3.1/2-3 1/4	88,90
5/32-32	3,96	5/8-11	15,87	1.3/4-5	44,45	3.3/4-3	95,24
3/16-24	4,76	3/4-10	19,05	1.7/8-4,5	47,63	4”-3	101,60
7/32-24	5,55	7/8-9	22,22	2”-4,5	50,80	4.1/2-2 7/8	114,30
1/4-20	6,35	1”-8	25,40	2.1/4-4	57,15	5”-2 3/4	127,00
5/16-18	7,93	1.1/8-7	28,57	2.1/2-4	63,50	5.1/2-2 5/8	139,70
3/8-16	9,52	1.1/4-7	31,75	2.3/4-3,5	69,85	6” 2,5	152,40

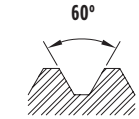
BSPP-BSPT



BSPT
1:16

pollici *inches*	mm	DIST. DI MISURA *Dist. of the measure*	pollici *inches*	mm	DIST. DI MISURA PER *Dist. of the measure*	pollici *inches*	mm	DIST. DI MISURA *Dist. of the measure*
1/8-28	9,72	10,10	1”-11	33,24	26,00	2.1/4-11	65,71	36,10
1/4-19	13,15	15,00	1.1/8-11	37,89	-	2.1/2-11	75,18	37,10
3/8-19	16,66	15,40	1.1/4-11	41,91	28,30	2.3/4-11	81,53	-
1/2-14	20,95	20,50	1.3/8-11	44,32	-	3”-11	87,88	40,20
5/8-14	22,90	20,10	1.1/2-11	47,80	28,30	4”-11	113,03	-
3/4-14	26,44	21,80	1.3/4-11	53,74	30,30	5”-11	138,43	-
7/8-14	30,20	24,45	2”-11	59,61	32,70			

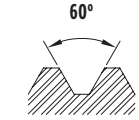
NPT



NPT-NPTF
1:16

pollici *inches*	mm	DIST. DI MISURA *Dist. of the measure*	pollici *inches*	mm	DIST. DI MISURA PER *Dist. of the measure*	pollici *inches*	mm	DIST. DI MISURA *Dist. of the measure*
1/16-27	7,77	9,85	5/8-14	22,71	20,05	1.3/4-11,5	56,04	27,75
1/8-27	10,12	9,85	3/4-14	26,40	21,35	2”-11,5	59,91	32,15
1/4-18	13,46	14,65	1”-11,5	33,05	25,45	2.1/2-8	72,51	36,30
3/8-18	16,90	15,05	1.1/4-11,5	41,80	27,45	3”-8	88,42	39,40
1/2-14	21,06	20,05	1.1/2-11,5	47,87	27,45			

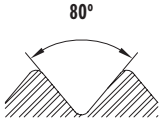
UNC-UNF



UNC-UNF

pollici *inches*	UNC	UNF	mm	pollici *inches*	UNC	UNF	mm	pollici *inches*	UNC	UNF	mm
n.1	64	72	1,85	n.12	24	28	5,48	5/8	11	18	15,87
n.2	56	64	2,18	3/16	24	32	4,76	3/4	10	16	19,05
n.3	48	56	2,51	1/4	20	28	6,35	7/8	9	14	22,22
n.4	40	48	2,84	5/16	18	24	7,93	1”	8	14	25,40
n.5	40	44	3,17	3/8	16	24	9,52	1.1/8	7	12	28,40
n.6	32	40	3,50	7/16	14	20	11,11	1.1/4	7	12	31,75
n.8	32	36	4,16	1/2	13	20	12,70	1.3/8	6	12	34,92
n.10	24	32	4,82	9/16	12	18	14,28	1.1/2	6	12	38,10

PG



PG

N°	FIL. PER POLLICE *Threads per inch*	mm	N°	FIL. PER POLLICE *Threads per inch*	mm	N°	FIL. PER POLLICE *Threads per inch*	mm
PG 7	20	12,50	PG 16	18	22,50	PG 42	16	54,00
PG 9	18	15,20	PG 21	16	28,30	PG 48	16	59,30
PG 11	18	18,60	PG 29	16	37,00			
PG 13,5	18	20,40	PG 36	16	47,00			

TABELLA RELATIVA AI PREFORI DI MASCHIATURA

EN *Tapping drill sizes chart*
FR *Tableau des tailles de forets à tarauder*
ESP *Tabla de tamaños de brocas para roscar*
PT *Tabela de tamanhos de brocas para roscagem*

MASCHI PER ASPORTAZIONE

Cutting taps

M

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 1 x 0,25	0,75	M 2,3 x 0,4	1,9	M 7 x 1	6	M 20 x 2,5	17,5	M 45 x 4,5	40,5
M 1,1 x 0,25	0,85	M 2,5 x 0,45	2,05	M 8 x 1,25	6,8	M 22 x 2,5	19,5	M 48 x 5	43
M 1,2 x 0,25	0,95	M 2,6 x 0,45	2,1	M 9 x 1,25	7,8	M 24 x 3	21	M 52 x 5	47
M 1,4 x 0,3	1,1	M 3 x 0,5	2,5	M 10 x 1,5	8,5	M 27 x 3	24	M 3 x 0,6	2,4
M 1,6 x 0,35	1,25	M 3,5 x 0,6	2,9	M 11 x 1,5	9,5	M 30 x 3,5	26,5	M 3,5 x 0,75	2,75
M 1,7 x 0,35	1,3	M 4 x 0,7	3,3	M 12 x 1,75	10,2	M 33 x 3,5	29,5	M 4 x 0,75	3,25
M 1,8 x 0,35	1,45	M 4,5 x 0,75	3,7	M 14 x 2	12	M 36 x 4	32	M 5 x 0,9	4,1
M 2 x 0,4	1,6	M 5 x 0,8	4,2	M 16 x 2	14	M 39 x 4	35		
M 2,2 x 0,45	1,75	M 6 x 1	5	M 18 x 2,5	15,5	M 42 x 4,5	37,5		

MF

MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm
M 3 x 0,35	2,65	M 12 x 1	11	M 20 x 1,5	18,5	M 30 x 1,5	28,5	M 42 x 2	40
M 3,5 x 0,35	3,15	M 12 x 1,25	10,8	M 20 x 2	18	M 30 x 2	28	M 42 x 3	39
M 4 x 0,35	3,65	M 12 x 1,5	10,5	M 22 x 1	21	M 32 x 1,5	30,5	M 45 x 1,5	43,5
M 4 x 0,5	3,5	M 13 x 1	12	M 22 x 1,5	20,5	M 33 x 1,5	31,5	M 45 x 2	43
M 5 x 0,5	4,5	M 13 x 1,5	11,5	M 22 x 2	20	M 33 x 2	31	M 45 x 3	42
M 6 x 0,5	5,5	M 13 x 1,75	11,2	M 24 x 1	23	M 34 x 1,5	32,5	M 48 x 1,5	46,5
M 6 x 0,75	5,2	M 14 x 1	13	M 24 x 1,5	22,5	M 35 x 1,5	33,5	M 48 x 2	46
M 7 x 0,75	6,2	M 14 x 1,25	12,8	M 24 x 2	22	M 36 x 1,5	34,5	M 48 x 3	45
M 8 x 0,5	7,5	M 14 x 1,5	12,5	M 25 x 1	24	M 36 x 2	34	M 50 x 1,5	48,5
M 8 x 0,75	7,2	M 15 x 1	14	M 25 x 1,5	23,5	M 36 x 3	33	M 50 x 2	48
M 8 x 1	7	M 15 x 1,5	13,5	M 26 x 1	25	M 38 x 1,5	36,5	M 50 x 3	47
M 9 x 1	8	M 15 x 2	13	M 26 x 1,5	24,5	M 39 x 1,5	37,5	M 52 x 1,5	50,5
M 10 x 0,5	9,5	M 16 x 1	15	M 27 x 1	26	M 39 x 2	37	M 52 x 2	50
M 10 x 0,75	9,2	M 16 x 1,5	14,5	M 27 x 1,5	25,5	M 39 x 3	36	M 52 x 3	49
M 10 x 1	9	M 18 x 1	17	M 27 x 2	25	M 40 x 1,5	38,5		
M 10 x 1,25	8,8	M 18 x 1,5	16,5	M 28 x 1,5	26,5	M 40 x 2	38		
M 11 x 1	10	M 18 x 2	16	M 28 x 2	26	M 40 x 3	37		
M 12 x 0,75	10,2	M 20 x 1	19	M 30 x 1	29	M 42 x 1,5	40,5		

BSW

BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm
W 3/32	1,8	W 7/32	4,4	W 7/16	9,3	W 3/4	16,5	W 1.1/4	27,75
W 1/8	2,6	W 1/4	5,1	W 1/2	10,5	W 7/8	19,25	W 1.3/8	30,2
W 5/32	3,1	W 5/16	6,5	W 9/16	12	W 1”	22	W 1.1/2	33,5
W 3/16	3,6	W 3/8	7,9	W 5/8	13,5	W 1.1/8	24,75	W 1.3/4	38,5
								W 2”	44,5

BSF

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
BSF 1/4	5,2	BSF 3/8	8,1	BSF 1/2	11	BSF 3/4	16,5	BSF 1”	22,5
BSF 5/16	6,6	BSF 7/16	9,5	BSF 5/8	14	BSF 7/8	19,5		

TABELLA RELATIVA AI PREFORI DI MASCHIATURA

EN *Tapping drill sizes chart*
FR *Tableau des tailles de forets à tarauder*
ESP *Tabla de tamaños de brocas para roscar*
PT *Tabela de tamanhos de brocas para roscagem*

MASCHI
Taps

UNC

UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm
No. 1-64	1,5	No. 10-24	3,9	9/16 - 12	12,2	1.3/8 - 6	30,75	3” - 4	70
No. 2-56	1,8	No. 12-24	4,5	5/8 - 11	13,5	1.1/2 - 6	34	3.1/4 - 4	76,2
No. 3-48	2,1	1/4 - 20	5,2	3/4 - 10	16,5	1.3/4 - 5	39,5	3.1/2 - 4	82,6
No. 4-40	2,3	5/16 - 18	6,6	7/8 - 9	19,5	2” -4,5	51,5		
No. 5-40	2,6	3/8 - 16	8	1” - 8	22,25	2.1/4 - 4,5	51,5		
No. 6-32	2,85	7/16 - 14	9,4	1.1/8 - 7	25	2.1/2 - 4	51,5		
No. 8-32	3,5	1/2 - 13	10,8	1.1/4 - 7	28,25	2.3/4 - 4	63,5		

UNF

UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm
No. 0-80	1,3	No. 5-44	2,7	1/4-20	5,15	9/16-18	12,9	1.1/8-12	26,5
No. 1-72	1,6	No. 6-40	3	5/16-24	6,9	5/8-18	14,5	1.1/4-12	29,5
No. 2-64	1,9	No. 8-36	3,5	3/8-24	8,5	3/4-16	17,5	1.3/8-12	32,5
No. 3-56	2,1	No. 10-32	4,1	7/16-20	9,9	7/8-14	20,25	1.1/2-12	36
No. 4-48	2,4	No. 12-28	4,7	1/2-20	11,5	1”-12	23,25		

BSPP

BSPP	Ø mm	BSPP	Ø mm	BSPP	Ø mm	BSPP	Ø mm	BSPP	Ø mm
G 1/8	8,8	G 5/8	21	G 1.1/8	35,3	G 1.3/4	51,3	G 2.3/4	78,9
G 1/4	11,8	G 3/4	24,5	G 1.1/4	39,3	G 2”	57	G 3”	85,3
G 3/8	15,25	G 7/8	28,25	G 1.3/8	41,7	G 2.1/4	63,1		
G 1/2	19	G 1”	30,75	G 1.1/2	45,2	G 2.1/2	72,6		

BSPT

BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm	BSPT	Ø mm
1/8-28	8,20	1/2-14	18,00	7/8-14	27,50	1.1/2-11	44,00	3”-11	84,00
1/4-19	11,00	5/8-14	20,25	1”-11	29,50	2”-11	56,00		
3/8-19	14,50	3/4-14	23,50	1.1/4-11	38,50	2.1/2-11	71,00		

NPT

NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm
1/16-27	6,25	3/8-18	14,5	1”-11,5	29	2”-11,5	56
1/8-27	8,5	1/2-14	18	1.1/4-11,5	38	2.1/2-8	67
1/4-18	11,2	3/4-14	23	1.1/2-11,5	44	3”-8	83

PG

PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm
PG 7	11,4	PG 11	17,25	PG 16	21,25	PG 29	35,5	PG 42	52,5
PG 9	14	PG 13,5	19	PG 21	26,9	PG 36	45,5	PG 48	58

TABELLA RELATIVA AI PREFORI DI MASCHIATURA PER MASCHI A RULLARE

EN *Drill size cutting taps chart for forming tap*
FR *Tableau des tailles de perçage des tarauds à refouler*
ESP *Tabla de tamaños de brocas de corte para marchos de en*
PT *Tabela de tamanhos de brocas para machos de corte para a conformação de machos*

MASCHI A RULLARE
Forming taps

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 3 x 0,35	2,80	M 5 x 0,5	4,80	M 8 x 1	7,50	M 10 x 1,25	9,40	M 12 x 1,5	11,25
M 4 x 0,5	3,80	M 6 x 0,75	5,60	M 10 x 1	9,50	M 12 x 1,25	11,50	M 14 x 1,5	13,25

TABELLA PER FILETTATURA ESTERNA

EN *External thread chart*
FR *Tableau des filetages extérieurs*
ESP *Tabla de roscas exteriores*
PT *Tabela de roscas externas*

FILIERE
Dies

M

M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm	M	Ø mm
M 1 x 0,25	0,97	M 2,5 x 0,45	2,43	M 5 x 0,9	4,89	M 18 x 2,5	17,79	M 45 x 4,5	41,69
M 1,1 x 0,25	1,07	M 2,6 x 0,45	2,53	M 6 x 1	5,88	M 20 x 2,5	19,79	M 48 x 5	47,66
M 1,2 x 0,25	1,17	M 3 x 0,5	2,92	M 7 x 1	6,88	M 22 x 2,5	21,79	M 52 x 5	51,66
M 1,4 x 0,3	1,36	M 3 x 0,6	2,91	M 8 x 1,25	7,87	M 24 x 3	23,77		
M 1,6 x 0,35	1,54	M 3,5 x 0,6	3,41	M 9 x 1,25	8,87	M 27 x 3	26,77		
M 1,7 x 0,35	1,64	M 3,5 x 0,75	3,41	M 10 x 1,5	9,85	M 30 x 3,5	29,73		
M 1,8 x 0,35	1,74	M 4 x 0,7	3,91	M 11 x 1,5	10,85	M 33 x 3,5	32,73		
M 2 x 0,4	1,93	M 4 x 0,75	3,91	M 12 x 1,75	11,83	M 36 x 4	35,70		
M 2,2 x 0,45	2,13	M 4,5 x 0,75	4,41	M 14 x 2	13,82	M 39 x 4	38,70		
M 2,3 x 0,4	2,23	M 5 x 0,8	4,90	M 16 x 2	15,82	M 42 x 4,5	41,69		

MF

MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm	MF	Ø mm
M 3 x 0,35	2,94	M 12 x 1	11,88	M 20 x 1,5	19,85	M 30 x 1,5	29,85	M 42 x 2	41,82
M 3,5 x 0,35	3,44	M 12 x 1,25	11,86	M 20 x 2	19,82	M 30 x 2	29,82	M 42 x 3	41,76
M 4 x 0,35	3,94	M 12 x 1,5	11,85	M 22 x 1	21,88	M 32 x 1,5	31,85	M 45 x 1,5	44,85
M 4 x 0,5	3,93	M 13 x 1	12,88	M 22 x 1,5	21,85	M 33 x 1,5	32,85	M 45 x 2	44,82
M 5 x 0,5	4,93	M 13 x 1,5	12,85	M 22 x 2	21,82	M 33 x 2	32,82	M 45 x 3	44,76
M 6 x 0,5	5,93	M 13 x 1,75	12,83	M 24 x 1	23,88	M 34 x 1,5	33,85	M 48 x 1,5	47,85
M 6 x 0,75	5,90	M 14 x 1	13,88	M 24 x 1,5	23,85	M 35 x 1,5	34,85	M 48 x 2	47,82
M 7 x 0,75	6,90	M 14 x 1,25	13,86	M 24 x 2	23,82	M 36 x 1,5	35,85	M 48 x 3	47,46
M 8 x 0,5	7,93	M 14 x 1,5	13,85	M 25 x 1	24,88	M 36 x 2	35,82	M 50 x 1,5	49,85
M 8 x 0,75	7,90	M 15 x 1	14,88	M 25 x 1,5	24,85	M 36 x 3	35,76	M 50 x 2	49,82
M 8 x 1	7,83	M 15 x 1,5	14,85	M 26 x 1	25,88	M 38 x 1,5	37,85	M 50 x 3	49,76
M 9 x 1	8,88	M 15 x 2	14,82	M 26 x 1,5	25,85	M 39 x 1,5	38,85	M 52 x 1,5	51,85
M 10 x 0,5	9,93	M 16 x 1	15,88	M 27 x 1	26,88	M 39 x 2	38,82	M 52 x 2	51,82
M 10 x 0,75	9,90	M 16 x 1,5	15,85	M 27 x 1,5	26,85	M 39 x 3	38,76	M 52 x 3	51,76
M 10 x 1	9,88	M 18 x 1	17,88	M 27 x 2	26,82	M 40 x 1,5	39,85		
M 10 x 1,25	9,86	M 18 x 1,5	17,85	M 28 x 1,5	27,85	M 40 x 2	39,82		
M 11 x 1	10,88	M 18 x 2	17,82	M 28 x 2	27,82	M 40 x 3	39,76		
M 12 x 0,75	11,90	M 20 x 1	19,88	M 30 x 1	29,88	M 42 x 1,5	41,85		

BSW

BSW	Ø mm	BSW	Ø mm	BSW	Ø mm	BSW	Ø mm
W 1/4	6,16	W 7/16	10,89	W 5/8	15,62	W 1”	25,08
W 5/16	7,76	W 1/2	12,43	W 3/4	18,76	W 1.1/8	28,21
W 3/8	9,30	W 9/16	13,92	W 7/8	21,89		

BSF

BSF	Ø mm	BSF	Ø mm	BSF	Ø mm	BSF	Ø mm
BSF 3/16	4,67	BSF 3/8	9,39	BSF 9/16	14,12	BSF 7/8	22,02
BSF 1/4	6,25	BSF 7/16	10,97	BSF 5/8	15,71	BSF 1”	25,17
BSF 5/16	7,82	BSF 1/2	12,54	BSF 3/4	18,85		

UNC

UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm	UNC	Ø mm
No. 1-64	1,79	No. 8-32	4,07	7/16-14	10,95	1”-8	25,16	2”-4.5	50,45
No. 2-56	2,12	No. 10-24	4,71	1/2-13	12,52	1.1/8-7	28,31	2.1/4-4.5	56,80
No. 3-48	2,44	No. 12-24	5,37	9/16-12	14,10	1.1/4-7	31,49	2.1/2-4	63,10
No. 4-40	2,76	1/4-20	6,22	5/8-11	15,68	1.3/8-6	34,63	2.3/4-4	69,45
No. 5-40	3,09	5/16-18	7,80	3/4-10	18,84	1.1/2-6	37,81	3”-4	75,80
No. 6-32	3,41	3/8-16	9,37	7/8-9	22	1.3/4-5	44,12		

TABELLA PER FILETTATURA ESTERNA

EN *External thread chart*
FR *Tableau des filetages extérieurs*
ESP *Tabla de roscas exteriores*
PT *Tabela de roscas externas*

UNF

UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm	UNF	Ø mm
No. 0-80	1,47	No. 5-44	3,10	1/4-28	6,24	9/16-18	14,14	1.1/8-12	28,38
No. 1-72	1,79	No. 6-40	3,42	5/16-24	7,82	5/8-18	15,73	1.1/4-12	31,56
No. 2-64	2,12	No. 8-36	4,08	3/8-24	9,41	3/4-16	18,89	1.3/8-12	34,73
No. 3-56	2,44	No. 10-32	4,73	7/16-20	10,98	7/8-14	22,05	1.1/2-12	37,91
No. 4-48	2,77	No. 12-28	5,38	1/2-20	12,56	1”-12	25,21		

BSPP

BSPP	Ø mm	BSPP	Ø mm	BSPP	Ø mm	BSPP	Ø mm	BSPP	Ø mm
G 1/8	9,62	G 1/2	20,81	G 7/8	30,06	G 1.1/4	41,73	G 1.3/4	53,56
G 1/4	13,03	G 5/8	22,77	G 1”	33,07	G 1.3/8	44,14	G 2”	59,43
G 3/8	16,53	G 3/4	26,30	G 1.1/8	37,71	G 1.1/2	47,62		

NPT

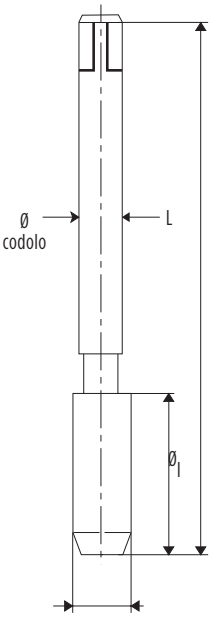
NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm	NPT	Ø mm
1/16	8,17	1/4	14,10	1/2	21,85	1”	34,16	1.1/2	48,87
1/8	10,55	3/8	17,52	3/4	27,16	1.1/4	42,74	2”	60,95

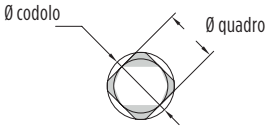
PG

PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm	PG	Ø mm
PG 7	12,4	PG 11	18,5	PG 16	22,4	PG 29	36,85	PG 42	53,85
PG 9	15,1	PG 13,5	20,3	PG 21	28,15	PG 36	46,85	PG 48	59,15

DIMENSIONI TIPICHE DI CODOLO E QUADRO DEI MASCHI, IN FUNZIONE DELLA NORMA DI PRODUZIONE

EN *Dimension of shank and square depending on the applicable standard*
FR *Dimension de la tige et du carré selon la norme applicable*
ESP *Dimensión del vástago y del cuadrado en función de la norma aplicable*
PT *Dimensão do veio e do esquadro em função da norma aplicável*





Ø CODOLO *Shank*	Ø QUADRO *Square*	DIN 352	DIN 371	DIN 376	DIN 374	ISO 529
2,5	2,1	M1÷1,8	M1÷1,8	M3,5	M3,5	M1÷2
2,8	2,1	M2÷2,5	M2÷2,5	M4	M4	M2,2÷2,5
3,2	2,4					M3
3,5	2,7	M3	M3	M5	M5	M3,5
4	3	M3,5	M3,5			M4
4,5	3,4	M4	M4	M6	M5,5÷6	M4,5
6	4,9	M5÷8	M5÷6	M8	M8	M6
7	5,5	M10		M10	M9÷10	
8	6,2		M8			M8
9	7	M12		M12	M12	
10	8		M10			M10
11	9	M14		M14	M14	
12	9	M16		M16	M16	
14	11	M18		M18	M18	
16	12	M20		M20	M20	M22
18	14,5	M22÷24		M22÷24	M22÷24	
20	16	M27		M27	M27÷28	M27÷M30
22	18	M30		M30	M30	
25	20	M33		M33	M33	
28	22	M36		M36	M36	
32	24	M39÷42		M39÷42	M39÷42	M50
36	29	M45÷48		M45÷48	M45÷48	
40	32	M52		M52		

DIAMETRO DELLA PUNTA IN FUNZIONE DELLE DIMENSIONI DEL FILETTO DA RIPRISTINARE

EN *Drill diameter according to thread dimension to be restored*
FR *Diamètre du foret en fonction de la dimension du filetage à restaurer*
ESP *Diámetro del taladro según la dimensión de la rosca a restaurar*
PT *Diâmetro da broca de acordo com a dimensão da rosca a restaurar*

DIN 8140 - ISO 2/6H

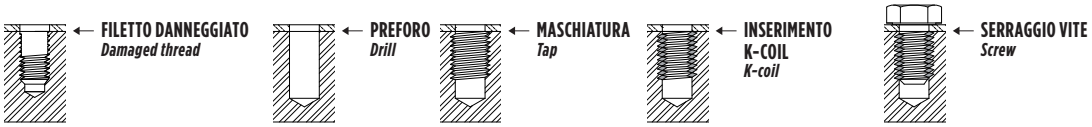


K-COIL

ACCIAIO INOX AUSTENITICO 18/8
Austenitic stainless steel 18/8

10606 - M/MF

	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm
M	2 x 0,4	2,10	10 x 1,25	10,30	18 x 2,5	18,60	27 x 3	27,75
	2,2 x 0,45	2,30	10 x 1	10,30	18 x 2	18,50	27 x 2	27,50
	2,5 x 0,45	2,60	11 x 1,5	11,40	18 x 1,5	18,50	27 x 1,5	27,50
	3 x 0,5	3,20	12 x 1,75	12,40	20 x 2,5	20,60	28 x 1,5	28,50
	3,5 x 0,6	3,70	12 x 1,5	12,40	20 x 2	20,50	30 x 3,5	31,00
	4 x 0,7	4,20	12 x 1,25	12,30	20 x 1,5	20,50	30 x 2	30,50
	5 x 0,8	5,20	12 x 1	12,30	22 x 2,5	22,60	30 x 1,5	30,50
	6 x 1	6,30	14 x 2	14,50	22 x 2	22,50	33 x 3,5	34,00
	7 x 1	7,30	14 x 1,5	14,40	22 x 1,5	22,50	33 x 2	33,50
	8 x 1,25	8,30	14 x 1,25	14,40	24 x 3	24,75	36 x 4	37,00
	8 x 1	8,30	14 x 1	14,30	24 x 2	24,50	36 x 3	37,00
	9 x 1,25	9,30	16 x 2	16,50	24 x 1,5	24,50	36 x 2	36,50
	10 x 1,5	10,40	16 x 1,5	16,40	26 x 1,5	26,50	36 x 1,5	36,50



10607 - UNC

	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm
N	8 x 32	4,40	5/16 x 18	8,30	9/16 x 12	14,80	1" x 8	26,25
	10 x 24	5,10	3/8 x 16	9,90	5/8 x 11	16,50	1.1/8 x 7	29,50
	12 x 24	5,70	7/16 x 14	11,60	3/4 x 10	19,75	1.1/4 x 7	33,00
UNC	1/4 x 20	6,70	1/2 x 13	13,00	7/8 x 9	23,00	1.1/2 x 6	39,50

10608 - UNF

	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm
N	8 x 36	4,40	3/8 x 24	9,80	5/8 x 18	16,25	1.1/8 x 12	29,00
	10 x 32	5,10	7/16 x 20	11,50	3/4 x 16	19,50	1.1/4 x 12	32,50
	1/4 x 28	6,60	1/2 x 20	13,00	7/8 x 14	22,75	1.1/2 x 12	38,50
UNF	5/16 x 24	8,20	9/16 x 18	14,80	1" x 12	26,00		

10609 - BSW

FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm
1/8 x 40	3,40	5/16 x 18	8,30	1/2 x 12	13,00	3/4 x 10	20,00
3/16 x 24	5,10	3/8 x 16	9,90	9/16 x 12	14,80	7/8 x 9	23,00
1/4 x 20	6,70	7/16 x 14	11,60	5/8 x 11	16,70	1" x 8	26,50

10610 - BSF

FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm
3/16 x 32	5,00	3/8 x 20	9,90	9/16 x 16	14,80	7/8 x 11	22,70
1/4 x 26	6,60	7/16 x 18	11,60	5/8 x 14	16,40	1" x 10	26,50
5/16 x 22	8,30	1/2 x 16	13,00	3/4 x 12	19,50		

10604 - BSPP

	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm	FILETTO *Thread*	Ø mm
G	1/8 x 28	10,00	3/8 x 19	17,10	5/8 x 14	23,40	7/8 x 14	30,60
	1/4 x 19	13,60	1/2 x 14	21,50	3/4 x 14	27,00	1" x 11	33,70

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI METRICI

EN *Metric wire-thread insert dimensions*
FR *Dimensions métriques des filets rapportés*
ESP *Dimensiones métricas de los insertos roscados*
PT *Dimensões métricas do inserto roscado*

METRIC



1.5 D

	Ø PUNTA PER PREFORO *Ø Drill size* mm	Ø COIL NON INSTALLATO MIN *Ø Coil free min* mm	Ø COIL NON INSTALLATO MAX *Ø Coil free max* mm	PROFONDITÀ DI FORATURA MIN *Drilling depth* mm	PROFONDITÀ DI FILETTATURA MIN *Threading depth* mm	LUNGHEZZA NOMINALE COIL INSTALLATO *Coil lenght inside its site* mm
2x0,4	2,1	2,49	2,70	4,80	4,40	3,00
2,2x0,45	2,3	2,76	3,00	5,33	4,88	3,30
2,5x0,45	2,6	3,05	3,70	5,78	5,33	3,75
3x0,5	3,2	3,61	4,35	6,75	6,25	4,50
3,5x0,6	3,7	4,24	4,95	7,95	7,35	5,25
4x0,7	4,2	4,86	5,60	9,15	8,45	6,00
5x0,8	5,2	5,98	6,80	11,10	10,30	7,50
6x1	6,3	7,23	7,95	13,50	12,50	9,00
7x1	7,3	8,22	9,20	15,00	14,00	10,50
8x1,25	8,3	9,53	10,35	17,63	16,38	12,00
8x1	8,3	9,39	10,25	16,50	15,50	12,00
9x1,25	9,4	10,52	11,16	19,13	17,88	13,50
10x1,5	10,4	11,83	12,50	21,75	20,25	15,00
10x1,25	10,3	11,74	12,65	20,63	19,38	15,00
10x1	10,3	11,41	12,50	19,50	18,50	15,00
11x1,5	11,4	12,82	13,59	23,25	21,75	16,50
12x1,75	12,5	14,13	15,00	25,88	24,13	18,00
12x1,5	12,4	14,09	15,20	24,75	23,25	18,00
12x1,25	12,3	13,76	15,00	23,63	22,38	18,00
12x1	12,3	13,43	14,49	22,50	21,50	18,00
14x2	14,5	16,43	17,35	30,00	28,00	21,00
14x1,5	14,4	16,11	17,25	27,75	26,25	21,00
14x1,25	14,3	15,78	17,03	26,63	25,38	21,00
14x1	14,3	15,45	16,68	25,50	24,50	21,00
16x2	16,5	18,41	19,60	33,00	31,00	24,00
16x1,5	16,5	18,13	19,60	30,75	29,25	24,00
18x2,5	18,8	21,04	22,00	38,25	35,75	27,00
18x2	18,5	20,80	21,85	36,00	34,00	27,00
18x1,5	18,5	20,15	21,75	33,75	32,25	27,00
20x2,5	20,8	23,02	24,40	41,25	38,75	30,00
20x2	20,5	22,82	24,05	39,00	37,00	30,00
20x1,5	20,5	22,17	24,00	36,75	35,25	30,00
22x2,5	22,8	25,00	26,90	44,25	41,75	33,00
22x2	22,5	24,84	26,50	42,00	40,00	33,00
22x1,5	22,5	24,19	26,45	39,75	38,25	33,00
24x3	25,0	27,62	29,00	49,50	46,50	36,00
24x2	24,5	26,86	29,10	45,00	43,00	36,00
24x1,5	24,5	26,21	28,28	42,75	41,25	36,00
26x1,5	26,5	28,23	30,46	45,75	44,25	39,00
27x3	28,0	30,59	32,40	54,00	51,00	40,50
27x2	27,5	29,89	32,30	49,50	47,50	40,50
30x3,5	31,0	34,20	35,81	60,75	57,25	45,00
30x2	30,5	32,92	35,70	54,00	52,00	45,00
33x3,5	34,0	37,17	38,80	65,25	61,75	49,50
33x2	33,5	35,95	39,20	58,50	56,50	49,50
36x4	37,0	40,78	42,67	72,00	68,00	54,00
36x3	37,0	40,30	42,70	67,50	64,50	54,00

NUMERO DI SPIRE DEGLI INSERTI FILETTATI METRICI IN FUNZIONE DELLA LUNGHEZZA DELL'INSERTO

EN *Number of turns of the coil depending on the insert length*
FR *Nombre de tours de la bobine en fonction de la longueur de l'insert*
ESP *Número de vueltas de la bobina en función de la longitud del inserto*
PT *Número de voltas da bobina em função do comprimento da inserção*

	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*	N. SPIRE MAX *N. max*
	1 D		1,5 D		2 D		2,5 D		3 D	
2x0,4	3,3	3,0	5,7	5,2	8,1	7,4	10,5	9,6	13,0	11,8
2,2x0,45	3,2	2,9	5,5	5,0	7,9	7,1	10,3	9,3	12,6	11,2
2,5x0,45	3,8	3,1	6,5	5,2	9,2	7,4	11,9	9,5	14,6	11,9
3x0,5	4,3	3,4	7,2	5,8	10,1	8,2	13,1	10,5	16,0	12,2
3,5x0,6	4,1	3,4	7,0	5,8	9,8	8,2	12,6	10,5	15,5	12,2
4x0,7	4,0	3,4	6,8	5,7	9,6	8,1	12,3	10,5	15,1	12,2
5x0,8	4,5	3,9	7,6	6,5	10,6	9,2	13,7	11,8	16,7	14,6
6x1	4,3	3,8	7,2	6,4	10,1	9,1	13,1	11,7	16,0	14,5
7x1	5,3	4,6	8,7	7,7	12,1	10,7	15,6	13,7	19,0	16,8
8x1,25	4,7	4,2	7,8	7,1	10,9	9,9	14,1	12,8	17,2	15,9
8x1	6,1	5,6	10,0	9,1	13,8	12,5	17,7	16,0	21,5	19,5
9x1,25	5,5	5,1	9,0	8,4	12,5	11,7	16,1	15,0	19,6	18,3
9x1	7,1	6,5	11,5	10,5	15,8	14,5	20,2	18,5	24,5	22,5
10x1,5	4,9	4,6	8,2	7,7	11,5	10,8	14,7	13,8	18,0	16,9
10x1,25	6,1	5,6	10,0	9,2	13,8	12,7	17,7	16,3	21,5	19,8
10x1	8,1	7,3	12,9	11,7	17,8	16,1	22,6	20,5	27,5	24,9
11x1,5	5,6	5,2	9,2	8,6	12,8	12,0	16,4	15,4	20,0	18,7
11x1,25	6,9	6,4	11,2	10,3	15,4	14,2	19,7	18,1	23,9	22,0
11x1	9,1	8,4	14,4	13,3	19,8	18,2	25,1	23,1	30,4	28,0
12x1,75	5,1	4,8	8,5	7,9	11,9	11,1	15,2	14,2	18,6	17,3
12x1,5	6,1	5,6	10,0	9,2	13,8	12,7	17,7	16,2	21,5	19,8
12x1,25	7,7	7,0	12,4	11,2	17,0	15,5	21,6	19,7	26,3	23,9
12x1	10,1	9,3	15,9	14,7	21,7	20,0	27,6	25,4	33,4	30,8
13x1,75	5,7	5,3	9,4	8,7	13,0	12,2	16,7	15,6	20,3	19,0
13x1,5	6,8	6,2	11,0	10,1	15,2	13,9	19,3	17,8	23,5	21,6
13x1,25	8,5	7,8	13,5	12,5	18,6	17,1	23,6	21,7	28,7	26,4
14x2	5,3	5,0	8,7	8,2	12,1	11,4	15,6	14,6	19,0	17,9
14x1,5	7,5	6,9	12,0	11,1	16,5	15,3	21,0	19,4	25,5	23,6
14x1,25	9,3	8,6	14,7	13,6	20,2	18,6	25,6	23,6	31,0	28,6
14x1	12,1	11,1	18,9	17,4	25,7	23,7	32,5	30,0	39,3	36,2
15x2	5,8	5,4	9,5	8,8	13,1	12,3	16,8	15,7	20,5	19,2
15x1,25	8,1	7,5	12,9	11,9	17,8	16,4	22,6	20,8	27,5	25,3
16x2	6,3	5,9	10,2	9,5	14,2	13,2	18,1	16,9	22,0	20,5
16x1,5	8,8	8,0	13,9	12,8	19,1	17,5	24,3	22,3	29,4	27,0
18x2,5	5,5	5,2	9,0	8,6	12,5	11,9	16,1	15,3	19,6	18,6
18x2	7,1	6,7	11,5	10,9	15,8	15,0	20,2	19,1	24,5	23,2
18x1,5	10,1	9,3	15,9	14,6	21,7	20,0	27,6	25,4	33,4	30,7
20x2,5	6,3	5,9	10,2	9,6	14,2	13,3	18,1	16,9	22,0	20,6
20x2	8,1	7,7	12,9	12,2	17,8	16,8	22,6	21,4	27,5	25,9
20x1,5	11,4	10,5	17,9	16,4	24,4	22,4	30,9	28,3	37,4	34,3
22x2,5	7,1	6,5	11,4	10,5	15,8	14,5	20,1	18,5	24,5	22,5
22x2	9,1	8,5	14,4	13,4	19,8	18,4	25,1	23,4	30,4	28,4
22x1,5	12,7	11,6	19,9	18,1	27,0	24,6	34,2	31,1	41,3	37,6
24x3	6,3	5,9	10,2	9,7	14,2	13,4	18,1	17,1	22,0	20,9
24x2	10,1	9,2	15,9	14,6	21,7	19,9	27,6	25,3	33,4	30,6
24x1,5	14,0	12,9	21,8	20,1	29,7	27,3	37,5	34,5	45,3	41,7
26x1,5	15,4	14,2	23,8	22,0	32,3	29,8	40,8	37,6	49,2	45,4
27x3	7,3	6,8	11,7	11,0	16,2	15,2	20,6	19,3	25,1	23,5
27x2	11,6	10,6	18,1	16,7	24,7	22,7	31,3	28,8	37,9	34,8
30x3,5	6,9	6,5	11,1	10,5	15,3	14,5	19,5	18,6	23,8	22,6
30x3	8,1	7,6	12,9	12,2	17,8	16,8	22,6	21,3	27,5	25,9
30x2	13,0	12,0	20,4	18,7	27,7	25,4	35,0	32,1	42,3	38,8
33x3,5	7,7	7,4	12,4	11,8	17,0	16,2	21,7	20,7	26,4	25,1
33x3	9,1	8,5	14,4	13,5	19,8	18,5	25,1	23,6	30,4	28,6
33x2	14,5	13,3	22,6	20,6	30,6	28,0	38,7	35,3	46,8	42,7
36x4	7,3	6,9	11,7	11,2	16,2	15,4	20,6	19,6	25,1	23,8
36x3	10,1	9,5	15,9	14,9	21,7	20,4	27,6	25,9	33,4	31,4
39x4	8,0	7,7	12,9	12,2	17,7	16,8	22,5	21,4	27,3	26,0
42x4,5	7,6	7,3	12,2	11,8	16,8	16,2	21,5	20,7	26,1	25,1
42x3	12,1	11,4	18,9	17,8	25,7	24,2	32,5	30,6	39,3	37,1

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI UNC

EN *UNC wire-thread insert dimensions*
FR *Dimensions de l'insert fileté UNC*
ESP *Dimensiones del inserto roscado UNC*
PT *Dimensões do inserto roscado UNC*

UNC



	Ø PUNTA PER PREFORO *Ø Drill size* mm	Ø COIL NON INSTALLATO MIN *Ø Coil free min* mm	Ø COIL NON INSTALLATO MAX *Ø Coil free max* mm	PROFONDITÀ DI FORATURA MIN *Drilling depth* mm	PROFONDITÀ DI FILETTATURA MIN *Threading depth* mm	LUNGHEZZA NOMINALE COIL INSTALLATO *Coil lenght inside its site* mm	N. SPIRE DEL COIL MIN *N coil min*	N. SPIRE DEL COIL MAX *N coil max*
NO. 8 x 32	4,4	5,08	5,59	9,83	9,02	6,25	5,50	6,10
NO.10 x 24	5,1	6,10	6,60	11,99	10,92	7,24	4,60	5,00
NO.12 x 24	5,7	6,86	7,11	12,98	11,94	8,23	5,60	6,00
1/4 x 20	6,7	7,87	8,38	15,24	13,97	9,53	5,30	5,70
5/16 x 18	8,3	9,65	10,16	18,24	16,84	11,91	6,30	6,70
3/8 x 16	9,9	11,43	11,94	21,44	19,84	14,27	6,80	7,20
7/16 x 14	11,6	13,21	13,97	24,82	23,01	16,66	7,00	7,40
1/2 x 13	13,0	14,99	15,75	27,84	25,88	19,05	7,50	8,00
9/16 x 12	15,0	16,76	17,53	30,96	28,83	21,44	7,90	8,40
5/8 x 11	16,5	18,80	19,56	34,21	31,90	23,80	8,10	8,50
3/4 x 10	19,8	22,10	23,11	40,01	37,47	28,58	9,00	9,50
7/8 x 9	23,0	25,65	26,67	46,02	43,21	33,32	9,60	10,00
1' x 8	26,2	29,21	30,48	52,37	49,20	38,10	9,80	10,20
1.1/8 x 7	29,5	33,02	34,54	59,18	55,55	42,85	9,60	10,10
1.1/4 x 7	32,5	36,07	37,59	63,96	60,33	47,63	10,90	11,40
1.1/2 x 6	39,5	43,18	44,96	76,20	71,96	57,15	11,20	11,70

DIMENSIONI TIPICHE DI CODOLO E QUADRO DEI MASCHI, IN FUNZIONE DELLA NORMA DI PRODUZIONE

EN *Dimension of shank and square depending on the applicable standard*
FR *Dimension de la tige et du carré selon la norme applicable*
ESP *Dimensión del vástago y del cuadrado en función de la norma aplicable*
PT *Dimensão do veio e do esquadro em função da norma aplicável*

UNF



	Ø PUNTA PER PREFORO *Ø Drill size* mm	Ø COIL NON INSTALLATO MIN *Ø Coil free min* mm	Ø COIL NON INSTALLATO MAX *Ø Coil free max* mm	PROFONDITÀ DI FORATURA MIN *Drilling depth* mm	PROFONDITÀ DI FILETTATURA MIN *Threading depth* mm	LUNGHEZZA NOMINALE COIL INSTALLATO *Coil lenght inside its site* mm	N. SPIRE DEL COIL MIN *N coil min*	N. SPIRE DEL COIL MAX *N coil max*
NO. 8 x 36	4,4	5,08	5,59	9,42	8,71	6,25	6,1	6,9
NO.10 x 32	5,1	5,84	6,60	10,82	10,01	7,24	6,4	7,2
1/4 x 28	6,6	7,62	8,38	13,61	12,70	9,53	7,7	8,5
5/16 x 24	8,2	9,40	10,16	16,66	15,60	11,91	8,5	9,2
3/8 x 24	9,8	10,92	11,94	19,05	17,98	14,27	10,5	11,4
7/16 x 20	11,5	12,95	13,97	22,38	21,11	16,66	10,2	11,1
1/2 x 20	13,0	14,48	15,75	24,77	23,50	19,05	11,9	12,9
9/16 x 18	14,7	16,26	17,53	27,76	26,37	21,44	12,2	13,3
5/8 x 18	16,3	17,78	19,30	30,15	28,75	23,80	13,8	14,9
3/4 x 16	19,5	21,34	22,86	35,71	34,14	28,58	14,7	15,9
7/8 x 14	22,5	24,89	26,67	41,50	39,67	33,32	15,1	16,3
1' x 12	26,0	28,45	30,48	47,63	45,52	38,10	14,8	16
1.1/8 x 12	29,5	31,75	33,78	52,37	50,27	42,85	16,9	18,2
1.1/4 x 12	32,5	34,80	37,34	57,15	55,04	47,63	19	20,4
1.1/2 x 12	38,5	41,15	44,45	66,68	64,57	57,15	23,1	24,9
1.1/2 x 6	39,5	43,18	44,96	76,20	71,96	57,15	11,20	11,70

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSW

EN *BSW wire-thread insert dimensions*
FR *Dimensions de l'insert fileté BSW*
ESP *Dimensiones del inserto roscado BSW*
PT *Dimensões do inserto roscado BSW*

BSW



	Ø PUNTA PER PREFORO *Ø Drill size* mm	Ø COIL NON INSTALLATO MIN *Ø Coil free min* mm	Ø COIL NON INSTALLATO MAX *Ø Coil free max* mm	PROFONDITÀ DI FORATURA MIN *Drilling depth* mm	PROFONDITÀ DI FILETTATURA MIN *Threading depth* mm	LUNGHEZZA NOMINALE COIL INSTALLATO *Coil lenght inside its site* mm	N. SPIRE DEL COIL MIN *N coil min*	N. SPIRE DEL COIL MAX *N coil max*
1/8 x 40	3,4	3,81	4,32	7,62	6,99	4,75	5,1	5,8
3/16 x 24	5,0	5,84	6,60	11,91	10,85	7,14	4,6	5,1
1/4 x 20	6,7	7,87	8,38	15,24	13,97	9,53	5,4	5,9
5/16 x 18	8,3	9,40	10,16	18,24	16,84	11,91	6,4	6,9
3/8 x 16	10,0	11,18	11,94	21,44	19,84	14,27	6,9	7,4
7/16 x 14	11,6	13,21	13,97	24,82	23,01	16,66	7,1	7,6
1/2 x 12	13,0	14,99	16,00	28,58	26,47	19,05	7,0	7,4
9/16 x 12	14,8	16,51	17,53	30,96	28,83	21,44	8,0	8,6
5/8 x 11	16,7	18,29	19,56	34,21	31,90	23,80	8,2	8,7
3/4 x 10	20,0	21,84	22,86	40,01	37,47	28,58	9,2	9,7
7/8 x 9	23,2	25,15	26,67	46,02	43,21	33,32	9,7	10,2
1" x 8	26,5	28,70	30,48	52,37	49,20	38,10	9,9	10,4

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSF

EN *BSF wire-thread insert dimensions*
FR *Dimensions de l'insert fileté BSF*
ESP *Dimensiones del inserto roscado BSF*
PT *Dimensões do inserto roscado BSF*

BSF



	Ø PUNTA PER PREFORO *Ø Drill size* mm	Ø COIL NON INSTALLATO MIN *Ø Coil free min* mm	Ø COIL NON INSTALLATO MAX *Ø Coil free max* mm	PROFONDITÀ DI FORATURA MIN *Drilling depth* mm	PROFONDITÀ DI FILETTATURA MIN *Threading depth* mm	LUNGHEZZA NOMINALE COIL INSTALLATO *Coil lenght inside its site* mm	N. SPIRE DEL COIL MIN *N coil min*	N. SPIRE DEL COIL MAX *N coil max*
3/16 x 32	5,0	5,84	6,35	10,72	9,91	7,14	6,5	7,2
1/4 x 26	6,6	7,62	8,38	13,92	12,95	9,53	7,1	7,9
5/16 x 22	8,3	9,40	10,16	17,09	15,95	11,91	7,7	8,5
3/8 x 20	9,8	11,18	12,19	19,99	18,72	14,27	8,6	9,4
7/16 x 18	11,6	12,95	14,22	23,01	21,62	16,66	9,1	10,0
1/2 x 16	13,2	14,73	16,00	26,19	24,61	19,05	9,3	10,2
9/16 x 16	14,8	16,26	17,78	28,58	26,97	21,44	10,6	11,7
5/8 x 14	16,3	18,29	19,56	31,98	30,15	23,80	10,4	11,3
3/4 x 12	19,5	21,84	23,37	38,10	35,99	28,58	10,8	11,7
7/8 x 11	22,8	25,15	27,18	43,74	41,43	33,32	11,6	12,6
1" x 10	26,2	28,70	30,99	49,53	46,99	38,10	12,1	13,2

DIMENSIONI CARATTERISTICHE DEGLI INSERTI FILETTATI BSPP

EN *BSPP wire-thread specific insert dimensions*
FR *Dimensions de la plaquette spécifique au filetage BSPP*
ESP *Dimensiones específicas del inserto roscado BSPP*
PT *Dimensões específicas do inserto de rosca de arame BSPP*

BSPP



	Ø PUNTA PER PREFORO *Ø Drill size* mm	Ø COIL NON INSTALLATO MIN *Ø Coil free min* mm	Ø COIL NON INSTALLATO MAX *Ø Coil free max* mm	PROFONDITÀ DI FORATURA MIN *Drilling depth* mm	PROFONDITÀ DI FILETTATURA MIN *Threading depth* mm	LUNGHEZZA NOMINALE COIL INSTALLATO *Coil lenght inside its site* mm	N. SPIRE DEL COIL MIN *N coil min*	N. SPIRE DEL COIL MAX *N coil max*
1/8 x 28	10,0	10,92	11,94	8,84	7,92	4,75	3,2	3,6
1/4 x 19	13,6	14,99	16,26	15,54	14,20	9,53	5	5,4
3/8 x 19	17,1	18,54	20,07	20,29	18,97	14,27	8,2	8,9
1/2 x 14	21,5	23,37	25,15	27,20	25,40	19,05	8,1	8,8
5/8 x 14	23,4	25,40	27,43	31,95	30,15	23,80	10,4	11,3
3/4 x 14	27,0	28,96	31,24	36,73	34,93	28,58	12,9	13,9
7/8 x 14	30,5	32,77	35,31	41,50	39,67	33,32	15,3	16,5
1" x 11	33,7	36,32	39,12	48,49	46,18	38,10	13,6	14,7

VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER ALESATORI IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Cutting speed chart in m/min for reamers according to the work-piece material*
FR *Tableau des vitesses de coupe en m/min pour les alésoirs en fonction du matériau de la pièce à usiner*
ESP *Tabla de velocidades de corte en m/min para escariadores según el material de la pieza*
PT *Velocidade de corte chart in m/min para alargadores de acordo com o material da peça*

ALESATORI
Reamers



MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO *Cutting speed (m/min)*
ACCIAIO CON R<550 MPA *Steel with R<550 MPa*	10÷15
ACCIAIO CON 550<R<850 MPA *Steel with 550<R<850 MPa*	12÷15
ACCIAIO 850<R<1200 MPA *Steel with 850<R<1200 MPa*	7÷10
ACCIAIO INOX AUSTENITICO *Austenitic stainless steel*	6÷8
ACCIAIO INOX FERRITICO O MARTENSITICO *Ferrtici and martensitic stailess steel*	5÷6
ACCIAIO INOX DUPLEX O ALTO LEGATO *Duplex and high alloy stainless steel*	4÷5
GHISA NODULARE *Nodular cast iron*	9÷11
GHISA LAMELLARE *Lamellar cast iron*	13÷15
RAME E SUE LEGHE A TRUCIOLO LUNGO *Copper and long chip alloys*	16÷20
RAME E SUE LEGHE A TRUCIOLO CORTO *Copper and short chip alloys*	20÷24
PLASTICA *Plastics*	11÷13
POLIMERI TERMOINDURENTI *Thermosetting polymers*	7÷10

Utilizzare valori di avanzamento più elevati rispetto alle operazioni di foratura, perché in alesatura si asporta un minor volume di materiale. Inoltre si utilizzano velocità di taglio inferiori per evitare il surriscaldamento dell'utensile e del pezzo in lavorazione.

EN *Use higher feed rates than drilling operations, because a smaller volume of material is removed in reaming. Furthermore, lower cutting speeds are used to prevent overheating of the tool and the work-piece material.)*

FRA *Utilisez des vitesses d'avance plus élevées que pour les opérations de perçage, car l'alésage permet d'enlever moins de matière. En outre, des vitesses de coupe plus faibles sont utilisées pour éviter la surchauffe de l'outil et du matériau de la pièce.*

ESP *Utilizar velocidades de avance más elevadas que en las operaciones de taladrado, ya que en el escariado se elimina un menor volumen de material. Además, se utilizan velocidades de corte más bajas para evitar el sobrecalentamiento de la herramienta y del material de la pieza).*

PT *Utilizar taxas de avanço mais elevadas do que nas operações de perfuração, uma vez que é removido um menor volume de material no alargamento. Além disso, são utilizadas velocidades de corte mais baixas para evitar o sobreaquecimento da ferramenta e do material da peça de trabalho).*

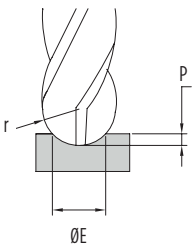
VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER FRESE FRONTALI IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Cutting speed chart in m/min for end mills according to the work-piece material*
FR *Tableau des vitesses de coupe en m/min pour les fraises en bout en fonction du matériau de la pièce à usiner*
ESP *Tabla de velocidades de corte en m/min para fresas en función del material de la pieza*
PT *Tabela de velocidades de corte em m/min para fresas de topo de acordo com o material da peça*

FRESE FRONTALI
End mills



MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO CUTTING SPEED (M/MIN) HSS-CO	VELOCITÀ DI TAGLIO CUTTING SPEED (M/MIN) HSS-CO+TIALN	VELOCITÀ DI TAGLIO CUTTING SPEED (M/MIN) HM
ACCIAIO CON R<550 MPA *Steel with R<550 MPa*	15÷25	25÷40	40÷80
ACCIAIO CON 550<R<850 MPA *Steel with 550<R<850 MPa*	10÷15	15÷30	30÷45
ACCIAIO 850<R<1200 MPA *Steel with 850<R<1200 MPa*	12÷20	20÷25	25÷30
ACCIAIO INOX AUSTENITICO *Austenitic stainless steel*	12÷15	15÷20	20÷25
ACCIAIO INOX FERRITICO O MARTENSITICO *Ferrtici and martensitic stailess steel*	8÷12	12÷20	20÷22
ACCIAIO INOX DUPLEX O ALTO LEGATO *Duplex and high alloy stainless steel*	5÷8	8÷10	10÷12
GHISA NODULARE *Nodular cast iron*	20÷30	30÷40	40÷50
GHISA LAMELLARE *Lamellar cast iron*	15÷20	20÷30	30÷60
RAME E SUE LEGHE A TRUCIOLO LUNGO *Copper and long chip alloys*	50÷100	100÷110	110÷220
RAME E SUE LEGHE A TRUCIOLO CORTO *Copper and short chip alloys*	50÷100	100÷170	170÷300
PLASTICA *Plastics*	50÷100	100÷170	170÷300
POLIMERI TERMOINDURENTI *Thermosetting polymers*	20÷30	30÷45	45÷60



$$\text{N° GIRI/MIN (R.P.M.)} = \frac{\text{VT (MT/MIN) X 1000}}{\text{3,14 X Ø (mm)}}$$

Nel caso di frese frontali raggiate usare ØE al posto di Ø

$ØE = 2\sqrt{P(2r-P)}$

EN *When using ball nose end mills please insert ØE instead of Ø*
FRA *Lors de l'utilisation de fraises à bouts sphériques, veuillez insérer ØE au lieu de Ø*
ESP *Cuando utilice fresas de punta esférica, introduzca ØE en lugar de Ø*
PT *Ao utilizar fresas de topo de ponta esférica, inserir ØE em vez de Ø*

TASSO DI RIMOZIONE DEL MATERIALE T
EN *Material removing rate T*
ESP *Velocidad de retirada de material T*
FRA *Taux d'enlèvement de matière T*
PT *Taxa de remoção de material T*

$$T = \frac{\text{PxRxA}}{\text{1000}} \quad \frac{\text{Cm}^3}{\text{min}}$$

P Profondità assiale (mm) ***P*** *Axial depth*
R Profondità radiale (mm) ***R*** *Radial depth*
A Avanzamento (mm/min) ***A*** *Feed*

P *Profundidade axial* ***P*** *Profondeur axiale* ***P*** *Profundidad axial*
R *Profundidade radial* ***R*** *Profondeur radiale* ***R*** *Profundidad radial*
A *Alimentação* ***A*** *Avance* ***A*** *Avance*

CARATTERISTICHE DEI RIVESTIMENTI

EN *Coating Features*
FR *Caractéristiques des revêtements*
ESP *Características de los revestimientos*
PT *Características dos revestimentos*



Acciaio HSS-E-PM (Metallurgia delle Polveri)

L'acciaio rapido **HSS-E-PM** viene prodotto mediante il processo di **metallurgia delle polveri (Powder Metallurgy)**, una tecnologia avanzata che consente di ottenere una microstruttura estremamente omogenea e una distribuzione uniforme dei carburi all'interno del materiale. Rispetto agli acciai rapidi convenzionali ottenuti per fusione, l'HSS-E-PM offre una combinazione superiore di durezza, tenacità e resistenza all'usura.
Il processo produttivo prevede l'atomizzazione dell'acciaio in polveri finissime successivamente compattate e sinterizzate ad alta pressione, eliminando le segregazioni tipiche degli acciai tradizionali e garantendo caratteristiche meccaniche uniformi in tutto il volume dell'utensile.
Grazie all'elevata resistenza all'usura, all'ottima stabilità del tagliente e alla superiore tenacità, gli utensili in HSS-E-PM risultano particolarmente indicati per la lavorazione di materiali difficili quali acciai inox, acciai legati, acciai ad alta resistenza, ghise e leghe abrasive.
L'impiego della tecnologia PM consente inoltre di incrementare sensibilmente la durata dell'utensile, migliorare l'affidabilità del processo di lavorazione e ridurre il rischio di scheggiature o rotture premature del tagliente, anche nelle applicazioni più gravose e ad elevata produttività.
Gli utensili in HSS-E-PM rappresentano la soluzione ideale per applicazioni professionali ad elevate prestazioni, dove sono richieste massima affidabilità, lunga durata e stabilità dimensionale del tagliente.

EN
HSS-E-PM (Powder Metallurgy High-Speed Steel)
HSS-E-PM *high-speed steel is manufactured using* ***Powder Metallurgy (PM) technology****, an advanced process that produces an extremely homogeneous microstructure and a uniform distribution of carbides throughout the material. Compared with conventionally produced high-speed steels, HSS-E-PM offers a superior combination of hardness, toughness and wear resistance.*
The manufacturing process involves atomizing molten steel into fine metal powders, which are subsequently compacted and sintered under controlled conditions. This technology eliminates the segregation phenomena typical of conventional steels and ensures uniform mechanical properties throughout the entire tool.
Thanks to its outstanding wear resistance, excellent cutting-edge stability and superior toughness, HSS-E-PM tools are particularly suitable for machining difficult materials such as stainless steels, alloy steels, high-strength steels, cast irons and abrasive alloys.
The use of PM technology significantly increases tool life, improves process reliability and reduces the risk of edge chipping or premature tool failure, even in demanding, high-productivity applications. HSS-E-PM tools represent the ideal solution for high-performance professional applications where maximum reliability, extended service life and cutting-edge stability are required.

FRA
HSS-E-PM (Acier rapide obtenu par métallurgie des poudres)
L'acier rapide ***HSS-E-PM*** *est produit par un procédé de* ***métallurgie des poudres (Powder Metallurgy - PM)****, une technologie avancée permettant d'obtenir une microstructure extrêmement homogène et une répartition uniforme des carbures dans tout le matériau. Par rapport aux aciers rapides conventionnels, le HSS-E-PM offre une combinaison supérieure de dureté, de ténacité et de résistance à l'usure.*
Le procédé de fabrication consiste à atomiser l'acier fondu en fines poudres métalliques qui sont ensuite compactées et frittées dans des conditions contrôlées. Cette technologie élimine les phénomènes de ségrégation typiques des aciers conventionnels et garantit des propriétés mécaniques uniformes dans l'ensemble de l'outil.
Grâce à son excellente résistance à l'usure, à la grande stabilité de son arête de coupe et à sa ténacité supérieure, le HSS-E-PM est particulièrement adapté à l'usinage des matériaux difficiles tels que les aciers inoxydables, les aciers alliés, les aciers à haute résistance, les fontes et les alliages abrasifs.
La technologie PM permet d'augmenter significativement la durée de vie de l'outil, d'améliorer la fiabilité du processus d'usinage et de réduire les risques d'écaillage ou de rupture prématurée de l'arête de coupe, même dans les applications les plus exigeantes.
Les outils en HSS-E-PM représentent la solution idéale pour les applications professionnelles à hautes performances nécessitant une fiabilité maximale, une longue durée de vie et une excellente stabilité de l'arête de coupe.

ESP
HSS-E-PM (Acero rápido obtenido por metalurgia de polvos)
El acero rápido ***HSS-E-PM*** *se fabrica mediante tecnología de* ***metalurgia de polvos (Powder Metallurgy - PM)****, un proceso avanzado que permite obtener una microestructura extremadamente homogénea y una distribución uniforme de los carburos en todo el material. En comparación con los aceros rápidos convencionales, el HSS-E-PM ofrece una combinación superior de dureza, tenacidad y resistencia al desgaste.*
El proceso de fabricación consiste en atomizar el acero fundido en finos polvos metálicos que posteriormente se compactan y sinterizan bajo condiciones controladas. Esta tecnología elimina las segregaciones típicas de los aceros convencionales y garantiza propiedades mecánicas uniformes en toda la herramienta.
Gracias a su elevada resistencia al desgaste, excelente estabilidad del filo de corte y superior tenacidad, las herramientas fabricadas en HSS-E-PM son especialmente adecuadas para mecanizar materiales difíciles como aceros inoxidables, aceros aleados, aceros de alta resistencia, fundición y aleaciones abrasivas.
La tecnología PM permite aumentar significativamente la vida útil de la herramienta, mejorar la fiabilidad del proceso de mecanizado y reducir el riesgo de astillado o rotura prematura del filo, incluso en aplicaciones de alta productividad y elevada exigencia.
Las herramientas de HSS-E-PM representan la solución ideal para aplicaciones profesionales de alto rendimiento donde se requieren máxima fiabilidad, larga vida útil y una excelente estabilidad del filo de corte.

PT
HSS-E-PM (Aço rápido produzido por metalurgia dos pós)
O aço rápido ***HSS-E-PM*** *é produzido através da tecnologia de* ***metalurgia dos pós (Powder Metallurgy - PM)****, um processo avançado que permite obter uma microestrutura extremamente homogénea e uma distribuição uniforme dos carbonetos em todo o material. Em comparação com os aços rápidos convencionais, o HSS-E-PM oferece uma combinação superior de dureza, tenacidade e resistência ao desgaste.*
O processo de fabrico consiste na atomização do aço fundido em finíssimos pós metálicos que são posteriormente compactados e sinterizados sob condições controladas. Esta tecnologia elimina os fenómenos de segregação típicos dos aços convencionais e garante propriedades mecânicas uniformes em toda a ferramenta.
Graças à sua elevada resistência ao desgaste, excelente estabilidade da aresta de corte e superior tenacidade, as ferramentas em HSS-E-PM são particularmente indicadas para a maquinação de materiais difíceis, tais como aços inoxidáveis, aços ligados, aços de alta resistência, ferros fundidos e ligas abrasivas.
A utilização da tecnologia PM permite aumentar significativamente a vida útil da ferramenta, melhorar a fiabilidade do processo de maquinação e reduzir o risco de lascamento ou rotura prematura da aresta de corte, mesmo nas aplicações mais exigentes e de elevada produtividade.
As ferramentas em HSS-E-PM representam a solução ideal para aplicações profissionais de elevado desempenho, onde são exigidas máxima fiabilidade, longa duração e excelente estabilidade da aresta de corte.



TiAIN

RIVESTIMENTO TiAIN (TITANIUM ALUMINIUM NITRIDE)

Il rivestimento **TiAIN** di ultima generazione, depositato mediante tecnologia PVD, è progettato per applicazioni ad elevata sollecitazione termica e meccanica.
Rispetto al TiN tradizionale offre:
maggiore durezza (**circa 3300 HV 0,05**), coefficiente di attrito ridotto (≈ **0,3**), elevata resistenza all'usura, superiore stabilità termica.
Durante la lavorazione ad alte temperature, il contenuto di alluminio presente nel rivestimento genera uno strato superficiale di **ossido di alluminio (Al_2O_3)** estremamente stabile, che agisce da barriera termica e protegge il tagliente dall'ossidazione e dall'usura.
Grazie alla sua ridotta conducibilità termica e all'elevata resistenza alle temperature fino a circa **800 °C**, il TiAIN è particolarmente indicato per lavorazioni ad alta velocità, anche in condizioni di lubrificazione ridotta o assente.
È consigliato per: acciai legati e bonificati, acciai inossidabili, ghise, leghe di alluminio ad alto contenuto di silicio, materiali abrasivi e di difficile lavorazione.
Se utilizzato con parametri corretti, il rivestimento TiAIN consente di incrementare sensibilmente velocità di taglio e avanzamenti rispetto agli utensili HSS non rivestiti, migliorando al contempo durata e produttività.

EN
TiAIN (Titanium Aluminium Nitride) Coating
*The advanced **TiAIN** coating, deposited using PVD technology, is specifically designed for applications involving high thermal and mechanical loads.*
*Compared with conventional TiN coatings, TiAIN provides: higher hardness (**approx. 3300 HV 0.05**), lower coefficient of friction (**approx. 0.3**), superior wear resistance, improved thermal stability.*
*At elevated cutting temperatures, the aluminium content in the coating forms a stable **aluminium oxide (Al_2O_3)** layer that acts as a thermal barrier, protecting the cutting edge against oxidation and wear.*
*Thanks to its low thermal conductivity and excellent heat resistance up to approximately **800°C**, TiAIN is particularly suitable for high-speed machining, including applications with reduced or no coolant.*
Recommended for: alloy and heat-treated steels, stainless steels, cast iron, high-silicon aluminium alloys, abrasive and difficult-to-machine materials.
When used under appropriate cutting conditions, TiAIN-coated tools allow significant increases in cutting speed and feed rate compared with uncoated HSS tools, resulting in improved productivity and longer tool life.

FRA
Revêtement TiAIN (Nitrure de Titane et d'Aluminium)
*Le revêtement **TiAIN** de dernière génération, déposé par technologie PVD, est conçu pour les applications soumises à de fortes sollicitations thermiques et mécaniques.*
*Par rapport au TiN conventionnel, le TiAIN offre: une dureté supérieure (**env. 3300 HV 0,05**), un coefficient de frottement plus faible (**env. 0,3**), une meilleure résistance à l'usure, une stabilité thermique accrue.*
*À haute température de coupe, l'aluminium contenu dans le revêtement forme une couche stable **d'oxyde d'aluminium (Al_2O_3)** qui agit comme barrière thermique et protège l'arête de coupe contre l'oxydation et l'usure.*
*Grâce à sa faible conductivité thermique et à sa résistance aux températures pouvant atteindre **800°C**, le TiAIN est particulièrement adapté aux usinages à grande vitesse, même avec une lubrification réduite ou inexistante.*
Recommandé pour: les aciers alliés et traités thermiquement, les aciers inoxydables, les fontes, les alliages d'aluminium à forte teneur en silicium, les matériaux abrasifs et difficiles à usiner.
Utilisé avec des paramètres adaptés, le TiAIN permet d'augmenter sensiblement les vitesses de coupe et les avances par rapport aux outils HSS non revêtus, tout en améliorant la productivité et la durée de vie de l'outil.

ESP
Recubrimiento TiAIN (Nitruro de Titanio y Aluminio)
*El recubrimiento **TiAIN** de última generación, depositado mediante tecnología PVD, ha sido desarrollado para aplicaciones sometidas a elevadas cargas térmicas y mecánicas.*
*En comparación con el TiN convencional, el TiAIN ofrece: mayor dureza (**aprox. 3300 HV 0,05**), menor coeficiente de fricción (**aprox. 0,3**), mayor resistencia al desgaste, superior estabilidad térmica.*
*A elevadas temperaturas de corte, el aluminio presente en el recubrimiento genera una capa estable de **óxido de aluminio (Al_2O_3)** que actúa como barrera térmica, protegiendo el filo de corte frente a la oxidación y al desgaste.*
*Gracias a su baja conductividad térmica y a su excelente resistencia al calor hasta aproximadamente **800°C**, el TiAIN es especialmente adecuado para mecanizados de alta velocidad, incluso con lubricación reducida o inexistente.*
Recomendado para: aceros aleados y tratados térmicamente, aceros inoxidables, fundición, aleaciones de aluminio con alto contenido de silicio, materiales abrasivos y de difícil mecanizado.
Utilizado con parámetros de corte adecuados, el TiAIN permite incrementar significativamente la velocidad de corte y el avance respecto a las herramientas HSS sin recubrimiento, mejorando la productividad y la vida útil de la herramienta.

PT
Revestimento TiN (Nitreto de Titânio)
*Revestimento **TiAIN** (Nitreto de Titânio e Alumínio)*
O revestimento TiAIN de última geração, aplicado por tecnologia PVD, foi desenvolvido para aplicações sujeitas a elevadas solicitações térmicas e mecânicas.
*Comparativamente ao TiN convencional, o TiAIN oferece: maior dureza (**aprox. 3300 HV 0,05**), menor coeficiente de atrito (**aprox. 0,3**), maior resistência ao desgaste, superior estabilidade térmica.*
*Em temperaturas elevadas de corte, o alumínio presente no revestimento forma uma camada estável de **óxido de alumínio (Al_2O_3)** que atua como barreira térmica, protegendo a aresta de corte contra a oxidação e o desgaste.*
*Graças à sua baixa condutividade térmica e à excelente resistência ao calor até aproximadamente **800°C**, o TiAIN é particularmente adequado para maquinação a alta velocidade, mesmo com lubrificação reduzida ou inexistente.*
Recomendado para: aços ligados e tratados termicamente, aços inoxidáveis, ferro fundido, ligas de alumínio com elevado teor de silício, materiais abrasivos e de difícil maquinação.
Quando utilizado com parâmetros de corte adequados, o TiAIN permite aumentar significativamente a velocidade de corte e o avanço em comparação com ferramentas HSS sem revestimento, melhorando a produtividade e a vida útil da ferramenta.



TiN

RIVESTIMENTO TiN (TITANIUM NITRIDE)

Il rivestimento monostrato **TiN** viene applicato mediante processo **PVD (Physical Vapour Deposition)** e ha lo scopo di incrementare la resistenza all'usura e all'ossidazione degli utensili durante le operazioni di foratura.
Grazie all'elevata microdurezza (**circa 2300 HV 0,05**), al ridotto coefficiente di attrito (≈ **0,4**) e alla resistenza alle temperature fino a **500 °C**, il rivestimento TiN migliora le prestazioni dell'utensile rispetto ad un utensile non rivestito.
Lo spessore di pochi micron consente di preservare la geometria del tagliente migliorando: la durata dell'utensile, la resistenza all'usura, la qualità della finitura superficiale, lo scorrimento e l'evacuazione del truciolo.
Il rivestimento TiN è particolarmente indicato per la lavorazione di acciai non legati, acciai basso-legati e materiali di uso generale.

EN
TiN (Titanium Nitride) Coating
*The **TiN** single-layer coating is applied by means of a **PVD (Physical Vapour Deposition)** process and is designed to improve the wear and oxidation resistance of cutting tools during drilling operations.*
*Thanks to its high microhardness (**approx. 2300 HV 0.05**), low coefficient of friction (**approx. 0.4**) and thermal resistance up to **500°C**, TiN coating enhances tool performance compared to uncoated tools.*
The coating thickness, limited to only a few microns, preserves the cutting-edge geometry while improving: tool life, wear resistance, surface finish quality, chip flow and evacuation.
TiN-coated tools are particularly suitable for machining unalloyed steels, low-alloy steels and general-purpose materials.

FRA
Revêtement TiN (Nitrure de Titane)
*Le revêtement monocouche **TiN** est appliqué par procédé **PVD (Physical Vapour Deposition)** et a pour fonction d'améliorer la résistance à l'usure et à l'oxydation des outils de coupe lors des opérations de perçage.*
*Grâce à sa microdureté élevée (**env. 2300 HV 0,05**), à son faible coefficient de frottement (**env. 0,4**) et à sa résistance thermique jusqu'à **500°C**, le revêtement TiN améliore les performances de l'outil par rapport à un outil non revêtu.*
L'épaisseur de quelques microns seulement préserve la géométrie de l'arête de coupe tout en améliorant: la durée de vie de l'outil ,la résistance à l'usure, la qualité de finition de surface, l'évacuation des copeaux.
Les outils revêtus TiN sont particulièrement adaptés à l'usinage des aciers non alliés, des aciers faiblement alliés et des matériaux d'usage général.

ESP
Recubrimiento TiN (Nitruro de Titanio)
*El recubrimiento monocapa **TiN** se aplica mediante tecnología **PVD (Physical Vapour Deposition)** y está diseñado para aumentar la resistencia al desgaste y a la oxidación de las herramientas durante las operaciones de taladrado.*
*Gracias a su elevada microdureza (**aprox. 2300 HV 0,05**), su bajo coeficiente de fricción (**aprox. 0,4**) y su resistencia térmica hasta **500°C**, el recubrimiento TiN mejora el rendimiento de la herramienta en comparación con una herramienta sin recubrimiento.*
Su espesor de sólo unos pocos micrómetros permite conservar la geometría del filo de corte, mejorando: la vida útil de la herramienta, la resistencia al desgaste, la calidad del acabado superficial, la evacuación de la viruta.
Las herramientas recubiertas con TiN son especialmente adecuadas para mecanizar aceros no aleados, aceros de baja aleación y materiales de uso general.

PT
Revestimento TiN (Nitreto de Titânio)
*O revestimento monocamada **TiN** é aplicado através do processo **PVD (Physical Vapour Deposition)** e foi desenvolvido para aumentar a resistência ao desgaste e à oxidação das ferramentas durante as operações de furação.*
*Graças à sua elevada microdureza (**aprox. 2300 HV 0,05**), ao baixo coeficiente de atrito (**aprox. 0,4**) e à resistência térmica até **500°C**, o revestimento TiN melhora o desempenho da ferramenta em comparação com ferramentas não revestidas.*
A espessura de apenas alguns micrómetros preserva a geometria da aresta de corte, melhorando: a vida útil da ferramenta, a resistência ao desgaste, a qualidade do acabamento superficial, a evacuação dos cavacos.
As ferramentas revestidas com TiN são particularmente indicadas para a maquinação de aços não ligados, aços de baixa liga e materiais de utilização geral.

CORRISPONDENZA MISURE METRICHE E MISURE IN POLLICI PER PUNTE DA EDILIZIA

EN *Correspondence of metric and inches dimensions for construction tips*
FR *Correspondance des dimensions métriques et pouces pour les embouts de construction*
ESP *Correspondencia de dimensiones métricas y en pulgadas para consejos de construcción*
PT *Correspondência de dimensões métricas e em polegadas para dicas de construção*

DIMENSIONI IN mm *Dimensions (mm)*	DIMENSIONI IN POLLICI *Dimensione (inches)*
3,5X110	9/64x4
3,5X135	9/64x5
4X110	5/32x4
4X160	5/32x6
5X110	3/16x4
5X160	3/16x6
5X210	13/64x8
5X310	3/16x12
5,5X110	7/32x4
5,5X160	7/32x6
5,5X210	7/32x8
5,5X260	7/32x10
5,5X310	7/32x12
5,5X460	7/32x18
6X110	15/64x4
6X160	15/64x6
6X210	15/64x8
6X260	15/64x10
6X460	15/64x18
6,5X110	1/4x4
6,5X160	1/4x6
6,5X210	1/4x8
6,5X260	1/4x10
6,5X310	1/4x12
7X110	9/32x4
7X160	9/32x6
7X210	9/32x8
8X110	5/16x4
8X160	5/16x6
8X210	5/16x8
8X260	5/16x10
8X310	5/16x12
8X410	5/16x16
8X460	5/16x18
8X610	5/16x24
9X160	11/32x6
9X210	11/32x8
9,5X160	3/8x6
10X1000	3/8x40
10X110	3/8x4
10X160	3/8x6
10X210	3/8x8
10X260	3/8x10
10X310	3/8x12
10X360	3/8x14
10X460	3/8x18
10X610	3/8x24
11X160	7/16x6
11X210	7/16x8
11X260	7/16x10
11X310	7/16x12
12X1000	15/32x40
12X160	15/32x6
12X210	15/32x8
12X260	15/32x10
12X310	15/32x12

DIMENSIONI IN mm *Dimensions (mm)*	DIMENSIONI IN POLLICI *Dimensione (inches)*
12X360	15/32x14
12X460	15/32x18
12X610	15/32x24
13X160	1/2x6
13X210	1/2x8
13X260	1/2x10
13X310	1/2x12
13X460	1/2x18
14X1000	9/16x40
14X160	9/16x6
14X210	9/16x8
14X260	9/16x10
14X310	9/16x12
14X460	9/16x18
14X610	9/16x24
15X160	19/32x6
15X210	19/32x8
15X260	19/32x10
15X460	19/32x18
16X1000	5/8x40
16X160	5/8x6
16X210	5/8x8
16X260	5/8x10
16X310	5/8x12
16X460	5/8x18
16X610	5/8x24
16X800	5/8x32
17X210	11/16x8
18X1000	23/32x40
18X200	23/32x8
18X250	23/32x10
18X300	23/32x12
18X450	23/32x18
18X600	23/32x24
19X200	24/32x8
19X450	24/32x18
20X1000	25/32x40
20X200	25/32x8
20X300	25/32x12
20X450	25/32x18
20X600	25/32x24
22X1000	7/8x40
22X250	7/8x10
22X300	7/8x12
22X450	7/8x18
22X600	7/8x24
24X250	15/16x10
24X450	31/32x18
25X1000	1"x40
25X250	1"x10
25X300	1"x12
25X450	1"x18
26X250	1-1/32x10
26X450	1-1/32x18
28X450	1-1/8x18
30X450	1-3/16x18

VELOCITÀ DI TAGLIO ESPRESSE IN M/MIN PER PUNTE MURO

EN *Cutting speed chart in m/min for mansory drills*
FR *Tableau des vitesses de coupe en m/min pour forets à béton*
ESP *Tabla de velocidades de corte en m/min para brocas para mampostería*
PT *Correspondência de dimensões métricas e em polegadas para brocas para construção*

MURO
Mansory

DIAMETRO PUNTA *Drill size*	**3**	**4**	**5**	**6**	**8**	**10**	**12**	**14**	**16**
VELOCITÀ GIRI/MIN. *Speed r.p.m.*	2000	1800	1400	1200	900	700	600	500	400

VELOCITÀ DI TAGLIO ESPRESSE IN GIRI AL MINUTO NELL'IMPIEGO DELLE PUNTE UNIVERSALI "MULTIK"

EN *Cutting speed chart in RPM for drilling with universal drills*
FR *Tableau des vitesses de coupe en RPM pour le perçage avec des forets universels*
ESP *Tabla de velocidades de corte en RPM para taladrar con brocas universales*
PT *Tabela de velocidades de corte em RPM para perfuração com brocas universais*



MATERIALE DA LAVORARE *Work-piece material*	**DIAMETRO PUNTA** *Drill size (mm)*	
	3÷7	**8÷12**
	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*	
ACCIAIO DURO *Hard steel*	1800÷800	800÷500
MURO, MARMO *Masonry, Marble*	2000÷800	800÷500
VETRO, CERAMICA* *Glass, Tiles*	1000÷400	400÷300
LEGNO, PLASTICA *Wood, Plastics*	1200÷600	600÷300

Consigli: Velocità più bassa possibile. Lubrificare con trementina
EN *Tips: Lowest speed possible. Use kerosene as lubricant*
ESP *Consejos: La velocidad más baja posible. Utilizar queroseno como lubricante*
FRA *Pointes: Vitesse la plus faible possible. Utiliser du kérosène comme lubrifiant*
PT *Dicas:Velocidade mais baixa possível. Utilizar querosene como lubrificante*

VELOCITÀ DI TAGLIO PER FRESE A TAZZA PER EDILIZIA A SOLA ROTAZIONE,IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Cutting speed chart in RPM for drilling into concrete and bricks on rotation only*
FR *Tableau des vitesses de coupe en tr/min pour le perçage du béton et des briques en rotation uniquement*
ESP *Tabla de velocidades de corte en RPM para taladrar hormigón y ladrillos sólo en rotación*
PT *Tabela de velocidades de corte em RPM para perfuração em betão e tijolos apenas com rotação*

FRESE A TAZZA CON DENTI IN MD
Carbide tipped hole cutters



MATERIALE DA LAVORARE *Work-piece material*	**DIAMETRO FRESA** *Core bit diameter (mm)*			
	16÷35	**38÷55**	**60÷85**	**100÷150**
	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*			
CALCESTRUZZO, MURO *Concrete, Masonry*	2800÷1600	1500÷1000	950÷680	580÷380
CERAMICA, MARMO *Tiles, Marble*	2500÷1100	1000÷700	650÷450	400÷250
PIETRA *Stone*	1800÷800	750÷500	470÷340	300÷200

VELOCITÀ DI TAGLIO PER FRESE A ROTOPERCUSSIONE PER EDILIZIA IN FUNZIONE DEL MATERIALE DA LAVORARE

EN *Chart for percussion core bits selection and relative cutting speed in accordance with the materials to work*
FR *Tableau de sélection des carottes à percussion et de la vitesse de coupe relative en fonction des matériaux à travailler*
ESP *Tabla de selección de brocas de percusión y velocidad de corte relativa en función de los materiales a trabajar*
PT *Tabela de seleção de brocas de percussão e velocidade de corte relativa em função dos materiais a trabalhar*

ROTOPERCUSSIONE
Rotary percussion



MATERIALE DA LAVORARE *Work-piece material*	**DIAMETRO FRESA** *Core bit diameter (mm)*			
	25÷40	**45÷65**	**70÷100**	**110÷130**
	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*			
CALCESTRUZZO, MURO *Concrete, Masonry*	2150÷1350	1200÷850	770÷550	500÷400
CEMENTO ARMATO *Armoured concrete*	1600÷1000	900÷600	550÷400	360÷300
PIETRE DURE *Hard stone*	760÷470	420÷300	270÷200	170÷150

VELOCITÀ DI TAGLIO PER FRESE A TAZZA CON DENTI RIVESTITI IN CARBURO DI TUNGSTENO IN GRANI

EN *Chart for carbide grit hole saw selection and relative cutting speed*
FR *Tableau de sélection des scies cloches à grains en carbure et vitesse de coupe relative*
ESP *Tabla de selección de sierras de corona de carburo y velocidad de corte relativa*
PT *Tabela para seleção de serras de trépano com grão de metal duro e velocidade de corte relativa*

FRESE A TAZZA CON DENTI RIVESTITI IN GRANI DI CARBURO DI TUNGSTENO
Carbide grit hole saws



MATERIALE DA LAVORARE *Work-piece material*	DIAMETRO FRESA *Core bit diameter (mm)*							
	16÷20	22÷29	32÷38	44÷51	54÷60	64÷76	83÷95	102÷114
	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*							
MATTONI, CERAMICA *Brick, Ceramic*	500	350	260	190	160	130	100	80
ARDESIA *Slate*	1200	850	650	480	400	320	260	220
PLASTICA RINFORZATA *Reinforced plastics*	1700	1200	900	670	570	450	350	300
FIBRE *Fiber*	710	510	390	290	250	190	160	125

Consigli: Assicurare una continua refrigerazione ad acqua

EN *Tips: Keep a continuos water cooling*
FRA *Dicas: Maintenir un refroidissement continu de l'eau*
ESP *Consejos: Refrigeración continua por agua*
PT *Pointes: Manter um arrefecimento contínuo da água*

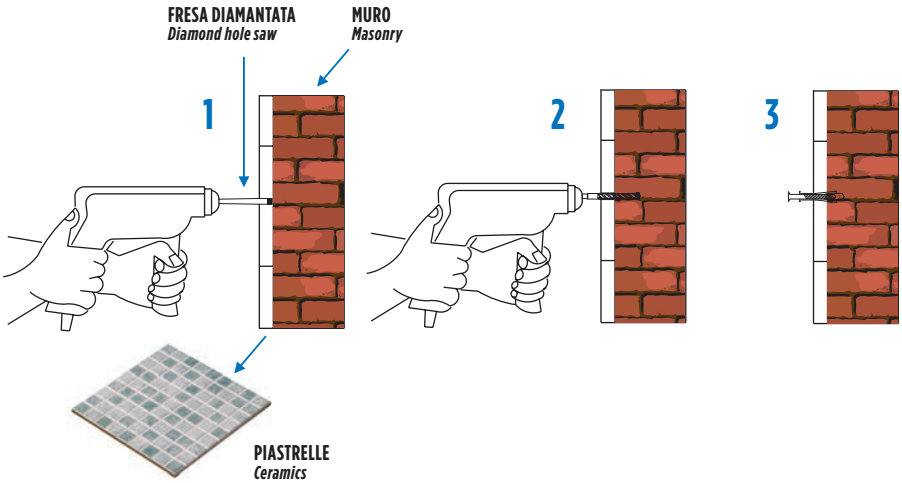
VELOCITÀ DI TAGLIO PER PUNTE E FRESE A TAZZA DIAMANTATE NELLA FORATURA DI PIASTRELLE IN GRES PORCELLANATO

EN *Chart for carbide grit hole saw selection and relative cutting speed for sandware*
FR *Tableau de sélection des scies cloches à grains en carbure et vitesse de coupe relative pour les grès*
ESP *Tabla de selección de sierras de corona de carburo y velocidad de corte relativa para artículos de lija*
PT *Tabela para seleção de serras de trépano com grão de metal duro e velocidade de corte relativa para grés*

FRESE A TAZZA DIAMANTATE
Diamond core drills



DIAMETRO FRESA *Core drill diameter*	4÷6	8÷10	12÷16	18÷25	28÷35	40÷50	60÷80
VELOCITÀ GIRI/MIN. *Speed r.p.m.*	3000	2000	1500	1000	600	400	300



Forare il solo rivestimento ceramico con l'utensile diamantato per evitare un'usura eccessiva dell'utensile. Una volta attraversato il rivestimento, utilizzare una punta specifica per muratura.

EN *Use the diamond tool to drill only through the ceramic tile covering in order to prevent excessive tool wear. Once the covering has been penetrated, use a drill bit specifically designed for masonry.*

FRA *Percer uniquement le revêtement en céramique avec l'outil diamanté afin d'éviter une usure excessive de l'outil. Une fois le revêtement traversé, utiliser un foret spécifique pour la maçonnerie.*

ESP *Perforar únicamente el revestimiento cerámico con la herramienta diamantada para evitar un desgaste excesivo de la herramienta. Una vez atravesado el revestimiento, utilizar una broca específica para mampostería.*

PT *Perfurar apenas o revestimento cerâmico com a ferramenta diamantada para evitar um desgaste excessivo da ferramenta. Após atravessar o revestimento, utilizar uma broca específica para alvenaria.*

Consigli: Assicurare una continua refrigerazione ad acqua

EN *Tips: Keep a continuos water cooling*
FRA *Dicas: Maintenir un refroidissement continu de l'eau*
ESP *Consejos: Refrigeración continua por agua*
PT *Pointes: Manter um arrefecimento contínuo da água*

VELOCITÀ DI TAGLIO PER PUNTE PER LEGNO NELLA FORATURA DI LEGNI DURI E TENERI

EN *Chart for woodworking drills selection and relative cutting speed into soft and hard wood*
FR *Tableau de sélection des forets pour le travail du bois et vitesse de coupe relative dans les bois tendres et durs*
ESP *Tabla de selección de brocas para madera y velocidad de corte relativa en madera blanda y dura*
PT *Tabela para seleção de brocas para trabalhar madeira e velocidade de corte relativa em madeira macia e dura*

	ARTICOLO *Item*	MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*
	PUNTA PER LEGNO CON PUNTA GUIDA A CENTRARE ***Wood working drills brad point*** **ART. 05001, 05020, 05025, 05200, 05210, 05212**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	800÷1400 700÷1200
	PUNTA ELICOIDALE PER LEGNO PER CASSEFORMI ***Wood working drills for plankings*** **ART. 05030, 05033**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	700÷1200 600÷1000
	PUNTA A SPIRALE TIPO LEWIS ***Auger bits, Lewis type*** **ART. 05035, 05036, 05037, 05038, 05040, 05042, 05044**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	400÷1200 300÷1000

VELOCITÀ DI TAGLIO PER UTENSILI PER LEGNO NELLA FORATURA DI LEGNI DURI E TENERI

EN *Chart for woodworking drills selection and relative cutting speed into soft and hard wood*
FR *Tableau de sélection des forets pour le travail du bois et vitesse de coupe relative dans les bois tendres et durs*
ESP *Tabla de selección de brocas para madera y velocidad de corte relativa en madera blanda y dura*
PT *Tabela para seleção de serras de trépano e velocidade de corte relativa em madeira macia e dura*

	ARTICOLO *Item*	MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*
	**MECCHIA PIATTA** ***Wood spade bit*** **ART. 05045, 05048**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	500-1500 400-1300
	**MECCHIA REGOLABILE** ***Expansive wood bit*** **ART. 05050**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	400-1300 300-1200
	**FRESE FORSTNER IN WS** ***Wood center bits, forstner type (WS)*** **ART. 05063, 05067**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	600-2000 500-1700
	**FRESE FORSTNER IN MD** ***Wood center bits, forstner type (HM)*** **ART. 05065**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	800-2200 700-2000

VELOCITÀ DI TAGLIO PER FRESE A TAZZA NELLA FORATURA DI LEGNI DURI E TENERI

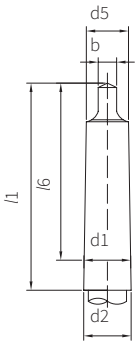
EN *Chart for hole saws selection and relative cutting speed into soft and hard wood*
FR *Tableau de sélection des scies cloches et vitesse de coupe relative dans les bois tendres et durs*
ESP *Tabla de selección de sierras de corona y velocidad de corte relativa en madera blanda y dura*
PT *Tabela para seleção de serras de trépano e velocidade de corte relativa em madeira macia e dura*

	ARTICOLO *Item*	MATERIALE DA LAVORARE *Work-piece material*	VELOCITÀ DI TAGLIO *Cutting speed (r.p.m.)*
	**FRESE A TAZZA** ***Hole saws for wood*** **ART. 05078**	**LEGNO TENERO** *Soft wood* **LEGNO DURO** *Tough wood*	300-600 200-500

DIMENSIONI CARATTERISTICHE DEI CONI MORSE IN ACCORDO ALLA NORMA DIN 228

EN *Chart for carbide grit hole saw selection and relative cutting speed*
FR *Tableau de sélection des scies cloches au carbure et vitesse de coupe relative*
ESP *Tabla de selección de sierras de corona de carburo y velocidad de corte relativa*
PT *Tabela para seleção de serras de trépano com grão de metal duro e velocidade de corte relativa*

CONI MORSE
Morse taper

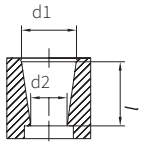


CONO MORSE	L 1 mm	L 6 mm	D1 mm	D5 mm	B mm	D2 mm	CONICITÀ %
0	59,5	56,5	9,045	6,1	3,9	9,2	5,205
1	65,5	62,0	12,065	9,0	5,2	12,2	4,988
2	80,0	75,0	17,780	14,0	6,3	18,0	4,995
3	99,0	94,0	23,825	19,1	7,9	24,1	5,020
4	124,0	117,5	31,267	25,2	11,9	31,6	5,194
5	156,0	149,5	44,339	36,5	15,9	44,7	5,263
6	218,0	210,0	63,348	52,4	19,0	63,8	5,214

DIMENSIONI CARATTERISTICHE DEI CONI DI ATTACCO DEI MANDRINI IN ACCORDO ALLE NORME DIN 238 E JACOBS®

EN *Taper drill chucks dimensions in accordance with the DIN 238 standards and Jacobs®*
FR *Dimensions des mandrins de perçage coniques selon les normes DIN 238 et Jacobs®*
ESP *Dimensiones de los portabrocas cónicos según las normas DIN 238 y Jacobs®*
PT *Dimensões dos mandris de perfuração cónicos de acordo com as normas DIN 238 e Jacobs®*

CONI DI ATTACCO DEI MANDRINI
Taper drill chuck shank

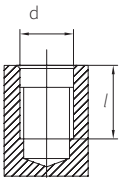


TIPO DI NORMA	CONO DEL MANDRINO	D1 mm	D2 mm	L mm
DIN 238	B6	6,35	5,85	10,0
	B10	10,094	9,4	14,5
	B12	12,065	11,1	18,5
	B16	15,733	14,5	24,0
	B18	17,780	16,2	32,0
	B22	21,793	19,8	40,5
	B24	23,825	21,3	50,5
JACOBS	J0	6,350	5,803	11,11
	J1	9,754	8,468	16,67
	J2	14,2	12,39	22,23
	J2 corto	13,94	12,39	19,05
	J33	15,85	14,24	25,4
	J6	17,17	15,85	25,4
	J3	20,6	18,95	30,96
	J4	28,55	26,35	42,07

DIMENSIONI CARATTERISTICHE DEGLI ATTACCHI FILETTATI DEI MANDRINI

EN *Thread drill chucks dimensions*
FR *Dimensions des mandrins de perçage à filetage*
ESP *Dimensiones de los portabrocas de rosca*
PT *Dimensões dos mandris de broca de rosca*

ATTACCHI FILETTATI DEI MANDRINI
Threaded drill chuck shank



TIPO	CLASSE	D mm	PASSO mm	L mm
3/8" x 24 UNF	3B	9,525	1,058	14,5
1/2" x 20 UNF	3B	12,700	1,270	16,0
5/8" x 16 UNF	3B	15,875	1,588	19,0
3/4" x 16 UNF	3B	19,050	1,588	19,0
M14 x 2	MA	14,00	2,00	19,0
M18 x 2.5	MA	18,00	2,50	19,0

VALORI DI TOLLERANZA ESPRESSI IN mm IN FUNZIONE DEL DIAMETRO DELL'UTENSILE

EN *Tolerance values according to the tool diameter*
FR *Valeurs de tolérance en fonction du diamètre de l'outil*
ESP *Valores de tolerancia según el diámetro de la herramienta*
PT *Valores de tolerância de acordo com o diâmetro da ferramenta*

GRADI DI TOLLERANZA *Tolerance grade*	**DIAMETRO DELL'UTENSILE (mm)** *Tool diameter (mm)*					
	0÷3	**3÷6**	**6÷10**	**10÷18**	**18÷30**	**30÷50**
H8 (TOLL. COSTRUTTIVA DELLE PUNTE PER METALLO IN ACCIAIO SUPERRAPIDO RETTIFICATE) *Production tolerance of hss ground twist drills*	0 -0,014	0 -0,018	0 -0,022	0 -0,027	0 -0,027	0 -0,039
H10 (TOLL. MINIMA SUL FORO CREATO DALLE PUNTE PER METALLO RETTIFICATE) *Minimum tolerance of the hole made by ground twist drills*	+0,040 0	+0,048 0	+0,058 0	+0,070 0	+0,070 0	+0,100 0
H12 (TOLL. MASSIMA SUL FORO CREATO DALLE PUNTE PER METALLO RETTIFICATE) *Maximum tolerance of the hole made by ground twist drills*	+0,100 0	+0,120 0	+0,150 0	+0,180 0	+0,180 0	+0,250 0
H7 (TOLL. COSTRUTTIVA DELLE PUNTE IN METALLO DURO) *Production tolerance of carbide twist drills*	0 -0,010	0 -0,012	0 -0,015	0 -0,018	0 -0,018	0 -0,025
H10 (TOLL. COSTRUTTIVA DI SVASATORI E FRESE FRONTALI IN METALLO DURO) *Production tolerance of carbide end mills and deburring tools*	0 -0,040	0 -0,048	0 -0,058	0 -0,070	0 -0,070	0 -0,100
G6 (TOLL. SUL FILETTO CREATO DAI MASCHI SOVRADIMENSIONATI IN ACCIAIO SUPERRAPIDO) *Production tolerance of the thread made by hss oversized taps*	+0,008 +0,002	+0,012 +0,004	+0,014 +0,005	+0,017 +0,006	+0,017 +0,006	+0,025 +0,009
G7 (TOLL. SUL FILETTO CREATO DAI MASCHI SOVRADIMENSIONATI IN ACCIAIO SUPERRAPIDO) *Production tolerance of the thread made by hss oversized taps*	+0,012 +0,002	+0,016 +0,004	+0,020 +0,005	+0,024 +0,006	+0,024 +0,006	+0,034 +0,009
H7 (TOLL. SUL FORO CREATO DAGLI ALESATORI) *Tolerance of the hole made by the reamers*	+0,010 0	+0,012 0	+0,015 0	+0,018 0	+0,018 0	+0,025 0
E8 (TOLL. COSTRUTTIVA DELLE FRESE FRONTALI IN ACCIAIO SUPERRAPIDO) *Production tolerance of hss end mills*	-0,014 -0,028	-0,020 -0,038	-0,025 -0,047	-0,032 -0,059	-0,032 -0,059	-0,050 -0,089
K10 (TOLL. COSTRUTTIVA DELLE FRESE FRONTALI IN ACCIAIO SUPERRAPIDO) *Production tolerance of hss end mills*	+0,040 0	+0,048 0	+0,058 0	+0,070 0	+0,070 0	+0,100 0
K12 (TOLL. COSTRUTTIVA DELLE FRESE FRONTALI IN ACCIAIO SUPERRAPIDO) *Production tolerance of hss end mills*	+0,100 0	+0,120 0	+0,150 0	+0,180 0	+0,180 0	+0,250 0

Nota: I gradi di tolleranza IT5÷IT13 sono idonei agli usuali accoppiamenti meccanici

EN *Note: IT5÷IT13 tolerance range are suitable for the common mechanical coupling*
FRA *Remarque: Les tolérances IT5÷IT13 sont adaptées aux accouplements mécaniques courants*
ESP *Nota: El intervalo de tolerancia IT5÷IT13 es adecuado para el acoplamiento mecánico común.*
PT *Nota: A gama de tolerância IT5÷IT13 é adequada para o acoplamento mecânico comum*

INDICE PER CODICE PROGRESSIVO

EN *Progressive codes index*
FR *Index des codes progressives*
ESP *Indice de codigos progresivos*
PT *Índice de códigos progressivos*

cod.	page
01001	112
01003	114
01004	115
01016	122 - 123 - 124 125 - 126 - 127
01018	116
01020	117
01022	100
01025	140
01028	138
01030	118
01034	119
01040	122 - 123
01050	93
01051	48
01057	221
01058	220
01059	218
01060	72
01062	74
01063	75
01066	98
01068	122 - 123 - 124 125 - 126 - 127
01070	88
01072	90
01074	91
01075	122 - 123 - 124 - 125 126 - 127 - 129
01076	92
01077	94
01078	95
01080	108
01082	110
01084	110
01085	122 - 124 - 125 126 - 127 - 129
01086	111
01087	111
01088	139
01089	28
01090	76
01091	120
01092	121
01094	77
01095	78
01096	79
01097	136
01098	80
01099	81
01100	82
01101	220
01102	220
01103	218
01104	218
01105	86
01110	222
01111	223
01112	223
01114	87
01115	96
01117	221
01118	123
01119	29
01120	32
01122	34
01123	34
01126	35
01128	35
01129	83
01135	122 - 123 - 124 - 125 126 - 127 - 129
01139	43
01140	38
01141	40
01142	123 - 125 - 126
01143	39
01145	44
01146	47
01147	46
01148	49
01149	48
01150	134
01152	50
01155	122 - 123 - 124 125 - 127 - 129
01157	51
01159	123
01160	54
01162	59
01163	56
01164	56
01166	57
01167	123
01168	58
01169	236
01170	122 - 123 - 124 - 125 126 - 127 - 129
01171	236
01172	237
01173	237
01174	238
01175	238
01176	151
01179	237
01180	153
01183	149
01185	230
01186	234
01187	235
01188	233
01190	235
01192	233
01193	232
01195	153 - 582 - 583 584 - 585
01196	232
01197	234
01200	152
01201	68
01203	70
01205	122 - 123 - 124 - 125 126 - 127 - 129
01206	152
01207	71
01208	71
01209	70 - 123
01214	222
01215	153
01217	223
01220	63
01229	122 - 123 - 124 - 125 126 - 127 - 129
01230	148
01236	148
01240	145
01242	146
01243	146
01244	144
01248	144
01249	147
01250	147
01254	150
01259	144 - 145 - 146 147 - 148 - 149
01260	229
01261	228
01262	228
01263	225
01264	225
01265	226
01266	227
01267	227
01270	226 - 227 - 228 229 - 230
01272	221
01273	219
01274	219
01275	219
01280	31
01295	36
01299	123 - 126 - 127
01320	52
01321	60

INDICE PER CODICE PROGRESSIVO

EN *Progressive codes index*
FR *Index des codes progressives*
ESP *Indice de codigos progresivos*
PT *Índice de códigos progressivos*

cod.	page
01322	61
01350	102
01352	104
01354	105
01356	106
01358	107
01360	122 - 124 - 125 126 - 127 - 129
01361	224
01363	224
01364	224
01365	224
01368	132
01369	133
01370	84
01371	85
01374	222
01376	41
01377	41
01378	42
01401	65
01402	122 - 123 - 125 126 - 127 - 129
01405	123
01406	66
01407	67
01408	123
03001	486
03005	486
03009	486
03011	487
03015	487
03041	479
03042	479
03043	477
03044	477
03050	487
03060	484
03063	484
03065	485
03067	485
03068	483
03069	483
03070	484 - 485
03072	482
03073	482
03076	488
03077	489
03078	488 - 489
03109	481
03116	481
03118	527
03119	525
03120	525 - 526 - 527
03121	529
03123	526
03124	528
03140	490
03141	490
03142	239
03144	490
03146	490
03152	496
03153	513
03155	502
03156	498
03161	504 - 505
03162	500
03164	504 - 505
03165	504 - 505
03166	504 - 505
03167	495
03168	504 - 505
03169	494
03171	509
03172	512
03174	504 - 505
03175	506 - 511
03177	507 - 511
03178	508
03184	509 - 572
03185	511
03186	511
03210	516
03212	517
03213	517
03220	514
03221	514
03222	515
03223	515
03281	514 - 515 - 517
03520	539
03521	539
03522	538
03523	538
03525	538 - 539
03530	536
03531	536
03533	534
03534	535
03535	535
03536	537
03537	537
03538	534
03550	540
03551	540
03552	541
03553	541
03610	542
03611	542
03612	542
03613	543
03623	543
05001	550
05008	547
05010	546 - 547 - 550 551 - 561
05020	550
05025	551
05030	554
05033	555
05035	552
05036	552
05037	553
05038	553
05040	552
05042	552
05044	552
05045	557
05046	558
05048	557
05050	558
05054	548
05055	548 - 556
05056	556
05057	556
05058	560
05060	560
05063	559
05065	559
05067	559
05070	561
05072	561
05076	560
05077	560
05078	198
05079	198
05080	562
05100	559
05200	546
05210	549
05212	549
05240	552 - 553
05400	563
05440	561

INDICE PER CODICE PROGRESSIVO

EN *Progressive codes index*
FR *Index des codes progressives*
ESP *Indice de codigos progresivos*
PT *Índice de códigos progressivos*

cod.	page
09001	123
09005	123
09010	122
03030	355
10001	310
10003	312
10010	314
10012	313
10015	313
10017	313
10020	315
10025	315
10030	311
10032	314
10065	349
10067	349
10098	346
10100	298
10102	299
10105	300 - 302
10107	302
10110	305
10111	305
10112	304
10115	303
10117	303
10120	307
10122	307
10125	308
10127	308
10134	291 - 306
10136	309
10139	291 - 304
10144	296
10146	297
10148	297
10162	284
10165	284
10168	285
10171	285
10172	288
10173	288
10174	286
10177	286
10180	287
10183	287
10198	290
10210	290
10211	97
10212	289
10230	289
10240	284 - 286 - 287 - 288
10250	255
10251	256
10252	271
10253	255
10254	256
10255	258
10256	257
10257	258
10258	257
10259	270
10260	272
10261	261
10262	261
10263	262
10264	262
10265	277
10266	277
10267	276
10268	275
10269	282
10270	282
10271	282
10272	282
10273	269
10274	277
10275	277
10276	275
10277	262
10278	262
10279	263
10280	264
10281	265
10282	283
10283	283
10284	283
10285	283
10286	273
10287	274
10288	263
10289	276
10290	269
10291	259
10292	259
10293	278
10297	254
10298	254
10299	254
10300	254
10301	281
10305	281
10306	280
10307	280
10308	279
10309	279
10310	266
10311	267
10312	268
10313	266
10314	267
10315	268
10330	260
10340	247
10345	254 - 255 - 257 - 258
10360	264
10361	265
10460	247
10465	248
10466	248
10500	251
10501	251
10502	251
10503	251
10504	250
10505	250
10506	250
10507	250
10508	253
10509	253
10510	252
10511	252
10512	252
10515	249
10516	249
10520	249 - 250 - 251 252 - 253
10600	359 - 363 - 364
10604	368
10605	360 - 363 - 364
10606	365
10607	367
10608	367
10609	367
10610	368
10611	371
10612	369
10613	370
10614	370
10615	370
10616	370
10617	370
10618	371

INDICE PER CODICE PROGRESSIVO

EN *Progressive codes index*
FR *Index des codes progressives*
ESP *Indice de codigos progresivos*
PT *Índice de códigos progressivos*

cod.	page
10620	369
10621	372
10622	371
10623	373
10625	366
10626	362
10627	362
10628	372
10631	361 - 362
12001	338
12005	339
12010	341
12012	341
12015	340
12017	340
12020	342
12025	343
12032	342
12060	322
12062	323
12065	326
12066	323 - 329
12069	329
12070	333
12072	328
12075	331
12077	331
12079	337
12080	335
12082	335
12085	336
12086	336
12087	333
12088	334
12089	332
12091	334
12094	324
12096	330
12098	332
12144	320
12146	320
12148	321
15003	346
15005	347
15006	347
15010	347
15011	347
15032	348
15037	348
17005	355
17012	355 - 357
17020	351 - 353
17025	353
19001	231
19003	231
19020	231 - 289
20620	577
20621	577
20630	577
21001	195
21005	193 - 194 - 195
21010	195
21013	201
21015	522
21020	213 - 522 - 523
21030	522
21040	191
21043	192
21045	190 - 191 - 192
21047	190
21055	191 - 192
21058	203
21060	204
21061	208
21065	210
21067	206
21069	209
21070	203 - 212 - 213 - 523
21080	203 - 205 - 207 - 211
21090	200
21098	196
21099	197
21105	199 - 523
21107	199 - 523
21108	199 - 523
21109	197
21110	520
21111	520
21115	521
21116	518 - 521 - 583
21122	518
21130	518
21199	170 - 172
21200	170 - 172
21201	170 - 173
21202	170 - 173
21203	180
21206	170 - 172
21207	170 - 173
21208	180
21209	181
21210	176 - 177 - 178 - 179 - 181
21211	170 - 173
21212	170 - 173
21213	170 - 172
21215	170 - 172
21217	170 - 173
21218	174 - 175
21219	170 - 173
21220	180
21221	180
21300	194
21320	194
21325	193
21335	193
23001	462
23005	463
23010	463
23012	463
23300	467
23305	464
23310	465 - 466
23315	466
23330	467
23500	470
23505	468
23510	469
23515	470
23529	467 - 471
23530	471
23600	453 - 454
23610	454
23620	452
23630	455
23700	457
23710	456
23720	456
23800	460
23810	458
23815	459
23820	461
24001	396
24002	396
24003	396
24004	396
24005	401
24006	401
24007	401
24008	401
24009	397
24010	397
24011	397

INDICE PER CODICE PROGRESSIVO

EN *Progressive codes index*
FR *Index des codes progressives*
ESP *Indice de codigos progresivos*
PT *Índice de códigos progressivos*

cod.	page
24012	397
24013	398
24014	398
24015	398
24016	398
24017	399
24018	399
24019	399
24020	399
24021	400
24022	400
24023	400
24024	400
24025	402
24026	402
24029	403
24150	383
24151	383
24152	383
24153	383
24154	392
24155	392
24156	393
24157	394
24158	394
24159	394
24160	394
24161	384
24162	384
24163	384
24164	384
24165	386
24166	386
24167	386
24168	386
24169	388
24170	388
24171	388
24172	388
24174	389
24175	389
24176	391
24177	390
24178	390
24179	395
24180	393
24181	385
24182	387
24183	387
24184	385
24185	390
24186	391
25010	450
25011	448
25016	449
25018	447
26001	424
26003	424
26008	425 - 583
26015	414 - 415 - 416 - 417 - 418 419 - 420 - 421 - 422
26016	414 - 415 - 416 - 417 - 418 419 - 420 - 421 - 422
26020	414 - 415 - 416 - 417 - 418 419 - 420 - 421 - 422
26025	415 - 416 - 417 - 418 - 419
26026	415 - 416 - 417 - 418 - 419
26027	415 - 416 - 417 - 418 - 419
26028	415 - 416 - 417 - 418 - 419
26030	423 - 583
26033	414 - 415 - 416 - 417 - 418 419 - 420 - 421 - 422
26034	414 - 415 - 416 - 417 - 418 419 - 420 - 421 - 422
26070	214
26071	214
26084	214
26085	215
26100	403
26125	446
26150	409
26152	409
26154	409
27001	445
27002	445
27003	445
27011	445
27012	445
27013	445
27055	444
27072	443
27080	430
27081	432
27082	433
27083	434
27084	435
27090	438 - 439
27092	440
27094	442
27095	441
28001	569
28002	569
28003	569
28004	568
28007	566 - 568
28009	566 - 568
28010	572
28011	168 - 166 - 160 158 - 164 - 162
28012	182
28013	183
28014	183
28015	182 - 184 - 572
28016	175
28021	182 - 184
28030	571
28031	566
28032	571
28034	570
28035	570
28051	566
28053	567
28054	567
28055	567
28058	567
28060	566
28150	574
28154	574
28158	575
28160	185 - 573
28165	185 - 573
28186	572
28200	404
28202	404
28204	405
28206	405
28208	406
28210	406
28212	407
28214	407
28216	407
28218	408
28220	408
28224	408
28226	408
29001	380
29005	381
29006	381
29010	382
29020	376
29021	377
29026	378
29039	378
29040	379
29041	379
41001	239
41003	349

CONDIZIONI GENERALI DI VENDITA

EN *General sales conditions*
FR *Conditions general de vente*
ESP *Condiciones generales de venta*
PT *Condições de venda gerais*

Le condizioni di seguito riportate si intendono accettate dal committente in fase di ordinazione.

1. ORDINI:

Con il conferimento dell'ordine si intendono approvate dal committente tutte le condizioni di vendita in vigore, salvo accordi particolari accettati dai contraenti. Tutti gli ordini sono irrevocabili da parte del committente ma potranno non essere da noi evasi a nostro insindacabile giudizio e senza obbligo di comunicazione o giustificazione. Nell'ordine è necessario specificare il codice dell'articolo. Non è possibile effettuare aggiunte e/o modifiche all'ordine trasmesso. Non sono permesse triangolazioni, la nostra politica commerciale prevede la consegna esclusivamente al nostro cliente.

2. PREZZI:

I prezzi si intendono per merce franco nostro magazzino (imballo, iva, trasporto esclusi) e non sono impegnativi. I prezzi che avranno valore saranno quelli in vigore al momento della spedizione.

3. IMBALLO:

Gratuito, salvo specifiche richieste del committente, che verranno fatturate al costo.

4. SPEDIZIONE:

Verrà effettuata come segue:
a) a mezzo nostro corriere di fiducia, in porto franco con addebito in fattura, in tal caso la merce sarà parzialmente assicurata** (vedere punto 10 dell'elenco);
b) a corriere di fiducia del committente: la resa sarà franco nostro stabilimento di Monticello e la merce viaggia a totale rischio e pericolo del committente. Pertanto in caso di ritardi, ammanchi, avaria, furti, etc. i reclami devono essere indirizzati al Vettore, solo ed unico responsabile.
Il Documetno di trasporto (DDT) verrà inviato per e-mail al momento dell'emissione e non segue la merce.

5. CONSEGNE:

Il termine di consegna, qualora venisse indicato, è puramente indicativo e pertanto solleva la nostra società da ogni qualsivoglia rivalsa.

6. RECLAMI:

Debbono pervenire per iscritto entro 8 giorni dalla data di ricevimento merce. Trascorso tale termine, i reclami non verranno accettati. I reclami di qualsiasi natura non sospendono l'obbligo di effettuare i pagamenti nella forma convenuta. L'acquirente, nel caso che la merce sia da noi ritenuta non idonea, ha diritto esclusivamente alla sostituzione della stessa o all'accredito dell'importo. Ogni altro tipo di indennizzo si intende privo di valore. Per qualsiasi contestazione si elegge unico foro competente quello del Tribunale di Lecco.

7. RESI:

Ogni reso o sostituzione dovrà essere preventivamente autorizzato da KRINO Srl. La merce sarà accettata di ritorno, salvo verifica all'arrivo in magazzino. Questa dovrà essere inviata in porto franco e accompagnata dalla bolla di consegna con indicati gli estremi della fattura con la quale è stata precedentemente fornita.

8. PAGAMENTI:

Debbono essere effettuati esclusivamente alla nostra sede, secondo le forme concordate. Nel caso di ritardato pagamento, verranno addebitati gli interessi bancari dalla data di scadenza concordata sino all'avvenuto pagamento, maggiorati delle eventuali spese accessorie.

9. CARATTERISTICHE DEI PRODOTTI:

Le immagini contenute nel presente catalogo sono puramente indicative, pertanto la nostra azienda si riserva il diritto di apportare modifiche migliorative dei prodotti senza nessun obbligo di preavviso.

10. VALORE DELL'ORDINE:

La spedizione verrà effettuata come segue:
- ordini singoli (non cumulabili) di importo superiore a Euro 600,00: spedizione in porto franco a mezzo nostro corriere di fiducia;
- ordini singoli (non cumulabili) di importo inferiore a Euro 600,00: spedizione in porto franco con addebito in fattura di Euro 10,00;
- ordini singoli (non cumulabili) di importo inferiore a Euro 100,00: spedizione in porto franco con addebito in fattura di Euro 10,00 + addebito di € 10 per oneri gestionali. Riepilogando:

VALORE ORDINE	TRASPORTO / ADDEBITO	ONERI GESTIONALI
Maggiore di Euro 600,00	Porto Franco	-
Minore di Euro 600,00	Euro 10,00	-
Minore di Euro 100,00	Euro 10,00	Euro 10,00

11. SERVIZIO RAPIDO:

- Per garantire il servizio, gli ordini devono essere inviati esclusivamente via email all'indirizzo: rapido@krino.it.
- Per ordini ricevuti entro le ore 10,00 viene garantita la spedizione il giorno lavorativo successivo, salvo indisponibilità del prodotto.
- Per ordini ricevuti dopo le ore 10,00 viene garantita la spedizione entro due giorni lavorativi, salvo indisponibilità del prodotto.
- Numero righe ordine non superiore a 10.
- Non è possibile effettuare aggiunte / modifiche all'ordine trasmesso.
- Possibilità di ritirare il materiale c/o la nostra sede, senza addebito.

LA RIPRODUZIONE ANCHE PARZIALE DEL PRESENTE CATALOGO È VIETATA

CONDIZIONI GENERALI DI VENDITA

EN *General sales conditions*
FR *Conditions general de vente*
ESP *Condiciones generales de venta*
PT *Condições de venda gerais*

EN

1. ORDERS:
When an order is placed, all conditions are automatically accepted by the customer. Orders are irrevocable, but we reserve the right to accept or refuse them. All orders must specify the item reference numbers..
2. PRICES:
All prices are EX-WORKS (packing, VAT and freight excluded).
3. PACKAGING:
Standard packaging is free of charge. Special packaging requirements will incur an extra charge.
4. SHIPMENT:
Shipment can be arranged through a forwarding agent appointed by the customer (freight collect), or through our usual forwarder with the relevant costs charged on the invoice.
5. DELIVERY TIME:
Delivery times are purely indicative and non-binding.
6. CLAIMS:
Claims must be notified within 8 days from the date of receipt of the goods. Our liability is limited to the free replacement of items acknowledged by us as defective. In the event of a dispute, the Court of LECCO shall have exclusive jurisdiction.
7. GOODS RETURNED:
Any return of goods must be authorized by us in advance.
8. PAYMENTS:
Payments must be made directly to our head office. In case of late payment, interest will be charged at the current bank rate, plus any additional expenses incurred.
9. PRODUCTS CARACTERISTICS:
The images in this catalogue are purely indicative. We reserve the right to make modifications without prior notice.
10. VALIDITY OF CONDITIONS
Any clause contained in the customer's purchase order that conflicts with the above-mentioned conditions shall be considered null and void.
THE REPRODUCTION OF THIS CATALOGUE IS PROHIBITED.
Any clause contained into your order sheets which is in contrast with the above mentioned conditions it is not valid.

FRA

1. COMMANDES:
Lorsqu'une commande est passée, toutes les conditions sont automatiquement acceptées par le client. Les commandes sont irrévocables, mais nous nous réservons le droit de les accepter ou de les refuser. Toutes les commandes doivent spécifier les références des articles.
2. PRIX
Tous les prix s'entendent départ usine (EX-WORKS) (emballage, TVA et transport exclus).
3. EMBALLAGE
L'emballage standard est gratuit. Les demandes d'emballage spécial entraîneront des frais supplémentaires.
4. EXPÉDITION
L'expédition peut être organisée soit par un transitaire désigné par le client (port dû), soit par notre transitaire habituel en chargeant les frais correspondants sur la facture.
5. DÉLAI DE LIVRAISON
Les délais de livraison sont purement indicatifs et sans engagement.
6. RÉCLAMATIONS
Les réclamations doivent être notifiées dans un délai de 8 jours à compter de la date de réception de la marchandise. Notre responsabilité est limitée au remplacement gratuit des articles reconnus par nous comme défectueux. En cas de litige, le Tribunal Civil de LECCO sera seul compétent.
7. RETOUR DE MARCHANDISE
Tout retour de marchandise doit faire l'objet d'une autorisation préalable de notre part.
8. PAIEMENTS
Les paiements doivent être effectués directement à notre siège social. En cas de retard de paiement, des intérêts seront facturés au taux bancaire en vigueur, majorés de tous les frais supplémentaires engagés.
9. SPÉCIFICATIONS
Les images de ce catalogue sont purement indicatives. Nous nous réservons le droit d'apporter des modifications sans préavis.
10. VALIDITÉ DES CONDITIONS
Toute clause figurant sur le bon de commande du client qui serait en contradiction avec les conditions susmentionnées sera considérée comme nulle et non avenue.
LA REPRODUCTION DE CE CATALOGUE EST INTERDITE.
Toute clause figurant dans vos bons de commande et contraire aux conditions susmentionnées est nulle et non avenue.

ESP

1. PEDIDOS
Al realizar un pedido, el cliente acepta automáticamente todas las condiciones. Los pedidos son irrevocables, pero nos reservamos el derecho de aceptarlos o rechazarlos. Todos los pedidos deberán especificar las referencias de los artículos.
2. PRECIOS
Todos los precios se entienden franco fábrica (EX-WORKS) (embalaje, IVA y transporte excluidos).
3. EMBALAJE
El embalaje estándar es gratuito. Las solicitudes de embalaje especial conllevarán costes adicionales.
4. ENVÍO
El envío se podrá organizar bien a través de un transportista designado por el cliente (portes debidos), o bien a través de nuestro transportista habitual, cargando los gastos correspondientes en la factura.
5. PLAZO DE ENTREGA
Los plazos de entrega son puramente indicativos y no vinculantes.
6. RECLAMACIONES
Las reclamaciones deberán notificarse en un plazo de 8 días a contar desde la fecha de recepción de la mercancía. Nuestra responsabilidad se limita a la sustitución gratuita de los artículos que reconozcamos como defectuosos. En caso de litigio, el Tribunal Civil de LECCO será el único competente.
7. DEVOLUCIÓN DE MERCANCÍA
Cualquier devolución de mercancía deberá contar con nuestra autorización previa.
8. PAGOS
Los pagos deberán realizarse directamente en nuestra sede social. En caso de retraso en el pago, se cargarán intereses al tipo de interés bancario vigente, incrementados con todos los gastos adicionales generados.
9. ESPECIFICACIONES
Las imágenes de este catálogo son puramente indicativas. Nos reservamos el derecho de realizar modificaciones sin previo aviso.
10. VALIDEZ DE LAS CONDICIONES
Cualquier cláusula incluida en la orden de compra del cliente que entre en contradicción con las condiciones mencionadas anteriormente se considerará nula y sin efecto.
LA REPRODUCION DE ESTE CATALOGO ES PROHIBIDA.
Las clausolas contenidas en sus pedidos y en contra de nuestras condiciones no seran aceptadas.

PT

1. ENCOMENDAS
Ao efetuar uma encomenda, todas as condições são automaticamente aceites pelo cliente. As encomendas são irrevogáveis, mas reservamo-nos o direito de as aceitar ou recusar. Todas as encomendas devem especificar as referências dos artigos.
2. PREÇOS
Todos os preços entendem-se à saída da fábrica (EX-WORKS) (embalagem, IVA e transporte excluídos).
3. EMBALAGEM
A embalagem standard é gratuita. As exigências de embalagem especial implicarão custos adicionais.
4. ENVIO
O envio pode ser organizado através de um transitário designado pelo cliente (porte devido) ou através do nosso transitário habitual, debitando os custos correspondentes na fatura.
5. PRAZO DE ENTREGA
Os prazos de entrega são puramente indicativos e não vinculativos.
6. RECLAMAÇÕES
As reclamações devem ser notificadas no prazo de 8 dias a contar da data de receção da mercadoria. A nossa responsabilidade limita-se à substituição gratuita dos artigos por nós reconhecidos como defeituosos. Em caso de litígio, o Tribunal Civil de LECCO terá competência exclusiva.
7. DEVOLUÇÃO DE MERCADORIA
Qualquer devolução de mercadoria deve ser previamente autorizada por nós.
8. PAGAMENTOS
Os pagamentos devem ser efetuados diretamente na nossa sede social. Em caso de atraso no pagamento, serão cobrados juros à taxa bancária em vigor, acrescidos de quaisquer despesas adicionais incorridas.
9. ESPECIFICAÇÕES
As imagens deste catálogo são puramente indicativas. Reservamo-nos o direito de efetuar modificações sem aviso prévio.
10. VALIDADE DAS CONDIÇÕES
Qualquer cláusula constante da nota de encomenda do cliente que entre em contradição com as condições acima mencionadas será considerada nula e sem efeito.
É PROIBIDA A REPRODUÇÃO DO PRESENTE CATÁLOGO.
Qualquer cláusula contida nas suas folhas de encomenda que contrarie as condições acima mencionadas não é válida.

NOTE

EN *Notes*
FR *Remarques*
ESP *Notas*
PT *Notas*

CATALOGOKRI27

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