

SILMAX

QUALITY AS A STANDARD

FORATURA
DRILLING
BOHREN
PERÇAGE



SILMAX.IT

CATALOGHI SILMAX

SILMAX CATALOGUES / SILMAX-KATALOGE / CATALOGUES SILMAX



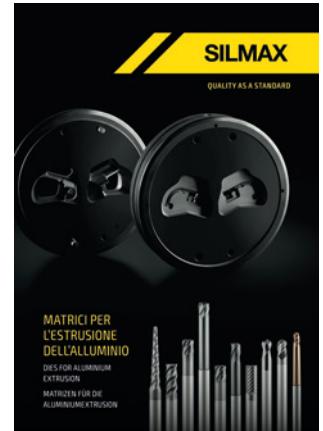
Catalogo generale
General Catalog



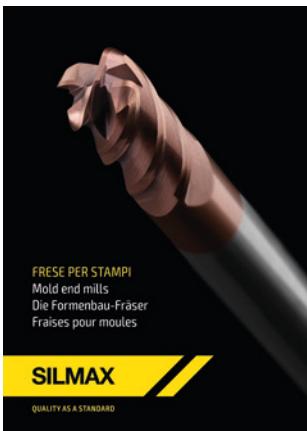
Alto Rendimento
High Performance



Titanio, Superleghe
e Acciaio Inox
Titanium, Super Alloys and Stainless Steel
Titan, Superlegierungen und Edelstahl
Titane, Superalliages et Acier Inoxydable



Matrici per l'estruzione dell'alluminio
Dies for aluminum extrusion
Matrizen für die Aluminiumextrusion
Matrices pour l'extrusion de l'aluminium



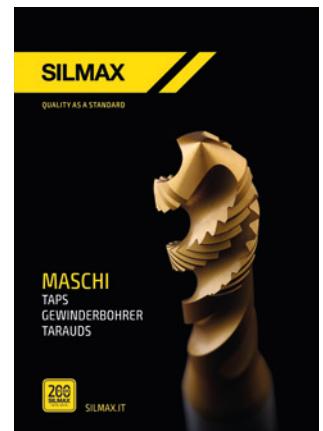
Stampi
Molds



Foratura
Drilling



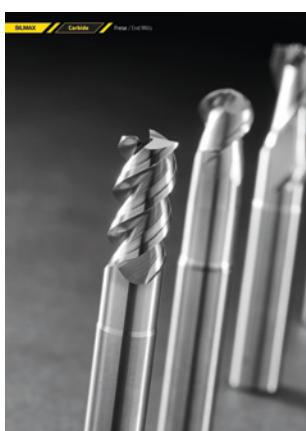
Punte a cannone
Gun drills
ENLUPPENBOHRER
FORETS À LÉVRE



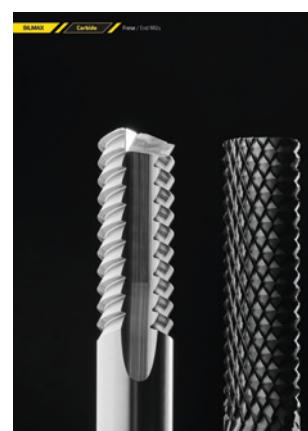
Maschi
Taps



Aerospace
Aerospace



Leghe leggere
Light Alloys



Materiali compositi
Composite Materials



Silsaving
Silsaving

LA NOSTRA STORIA

OUR HISTORY / UNSERE GESCHICHTE / NOTRE HISTOIRE

1819



Paul Alessio inizia a
forgiare i suoi primi
utensili. La piccola
officina si chiama
"L'Usine".

1955



Sotto la guida di
Enrico M. Fumagalli
"L'Usine" riprende
l'attività produttiva.

1975



"L'Usine" diventa
**Silmax, una moderna
SPA.**

1984



Joint-venture
Silmax Spa
Balzers AG.

2005



Silmax celebra i suoi
50 anni.

2012



Vengono inaugurate
le sedi commerciali
in **India, Cina e
Germania.**

2013



Silmax inaugura il
**nuovo centro di
rivestimento.**

2019



Silmax 200 anni!

2021



**5 nuove rettifiche e
1 nuovo impianto PVD.**

2022



Silmax continua la
sua storia e il suo
sviluppo sempre
attenta a mantenere
alta la qualità dei
suoi prodotti e la
soddisfazione dei
suoi clienti.

2023



**Nuova apertura
dello stabilimento in
China.**

Paul Alessio begins to
forge his first tools.
The small workshop
is called "**L'Usine**".

Under the control
of Enrico M.
Fumagalli, the
"Usine" resumed its
tool production.

"L'Usine" becomes
the modern **Silmax,
SPA.**

Joint-venture
Silmax Spa
Balzers AG.

Silmax celebrates its
50th birthday.

New commercial
branches open in
**India, China and
Germany.**

Silmax **new plant for
PVD coating.**

Silmax 200 years!

**5 new grinding
machines and
1 new PVD unit.**

Silmax continues its
history and its
development,
always careful
to maintain the
high quality of its
products and the
satisfaction of its
customers.

**New plant opening
in China.**

Paul Alessio beginnt
seine ersten Werk-
zeuge zu schmieden.
Die kleine Werkstatt
heißt "**L'Usine**".

Unter der Leitung von
Enrico M. Fumagalli
nimmt die "**Usine**" die
Produktionstätigkeit
wieder auf.

Aus "**L'Usine**" wird
**Silmax modernes
SPA.**

Joint-venture
Silmax Spa
Balzers AG.

Silmax feiert seine
50 Jahre.

Verkaufsbüros in
**Indien, China und
Deutschland** werden
eröffnet.

Silmax eröffnet das
**neue Zentrum
der Beschichtung.**

Silmax 200 Jahre!

**5 neue
Schleifmaschinen
1 neues PVD-System.**

Silmax setzt seine
Geschichte und
Entwicklung mit
dem Ziel fort, die
hohe Qualität seiner
Produkte und die
Zufriedenheit seiner
Kunden zu.

**Neue Produktions-
anlagen in China.**

Paul Alessio
commence à forger
ses premiers outils.
Le petit atelier
s'appelle « **L'Usine** ».

Sous la direction de
Monsieur Enrico M.
Fumagalli, « **L'Usine** »
reprend son activité
de production.

**« L'Usine » devient
Silmax, une SPA
moderne.**

Joint-venture
Silmax Spa
Balzers AG.

Silmax fête son
50e anniversaire.

Des bureaux de vente
sont inaugurés en
**Inde, en Chine, en
Allemagne.**

Silmax inaugure un
**nouveau centre de
revêtement.**

**Silmax fête son 200
anniversaire!**

**5 nouvelles
rectifieuses et 1
nouveau système PVD.**

Aujourd'hui, Silmax
poursuit son histoire
et son **développement**
en veillant toujours à maintenir
en haute la qualité
de ses produits et la
satisfaction de ses
clients.

**Ouverture d'une
nouvelle usine en
Chine.**

PRODOTTI SPECIALI

SPECIAL TOOLS / SPEZIELLE PRODUKTE / PRODUITS SPÉCIAUX



Studio e realizzazione di progetti complessi

Strong propensity to study and implement complex projects

Komplexe Projekte zu studieren und umzusetzen

Étude et mise en œuvre de projets complexes

Consegne rapide 3/4 settimane utensili speciali. 24/48H semi standard

Fast delivery 3/4 Weeks for special tools. 24/48H semi standard

Schnelle Lieferungen 3/4 Wochen für spezielle Sonderwerkzeuge. 24/48H Semi-Standard-Produkt

Livraison rapide 3/4 Semaines pour outils spéciaux. 24/48H semi standard

55% produzione utensili speciali

55% Special tools

55% der Jahresproduktion

55% Outils spéciaux

I NUMERI DI SILMAX

SILMAX FIGURES / SILMAX ZAHLEN / CHIFFRES SILMAX

45%
Standard

>2M

Utensili prodotti in un anno

Tools produced yearly

Werkzeuge in einem Jahr hergestellt

Outils produits dans l'année

55%
Special

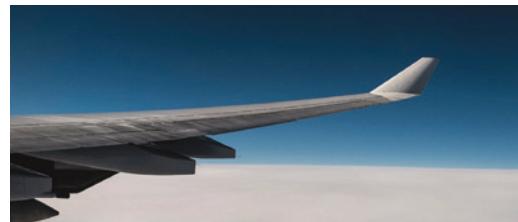
I NOSTRI MERCATI

OUR MARKETS / UNSERE MÄRKTE / LES PRINCIPAUX SECTEURS

1

Aeronautica

Aerospace
Luftfahrtbereich
Aéronautique



2

Stampi

Molds
Formenbau
Moules



3

Automobilistico

Automotive
Automobil
Automobile



4

Energia

Energy
Energie
Énergie



5

Meccanica generale

General Mechanics
Allgemeine Mechanik
Mécanique générale



6

Medicale

Medical
Medizinischer Bereich
Médical



NUOVA FORATURA SILMAX: PRODUTTIVITÀ E VERSATILITÀ

SILMAX presenta il **nuovo programma di foratura**, inserendo nuovi prodotti e ampliando la gamma di quelli esistenti.

Tutti i prodotti sono sviluppati con tecnologie di ultima generazione per garantire la **massima produttività ed affidabilità nelle operazioni più critiche e complesse**.

Le **nuove geometrie** sviluppate offrono una truciolatura regolare e costante, grazie ai **trattamenti superficiali** che rendono il **vano gola molto scorrevole**, assicurando **bassi sforzi torsionali** e una **maggior precisione** su una ampia gamma di materiali (**acciai, ghise, inossidabili, leghe di titanio e superlegghe**).

Per quanto riguarda le **novità** vengono introdotte:

- **punte a 4 pattini di guida** per fori di precisione disponibili nelle versioni 5xD, 8xD e 12xD;
- **punte con le geometrie specifiche per leghe leggere**, con fori di lubrificazione, disponibili nelle lunghezze 5xD, 15xD, 20xD e 25xD.

L'AMPLIAMENTO della gamma è relativo a

- **punte standard** con inserimento di articoli con lunghezza 12xD;
- **punte extra-lunghe** con fori di lubrificazione e geometria completamente rivista, nelle lunghezze 15xD, 20xD, 25xD e 30xD;
- **punte fora-alesa** con fori di lubrificazione disponibili nelle lunghezze 3xD e 5xD;
- **alesatori centesimali** con inserimento di due nuove famiglie, versione extra corta e lunga.

NEW DRILLING BY SILMAX: PRODUCTIVITY AND VERSATILITY

SILMAX presents its **new drilling programme**, introducing new products and expanding its range of available items. All products are developed using state-of-the-art technologies to ensure the **utmost productivity and reliability in the most critical and complex operations**.

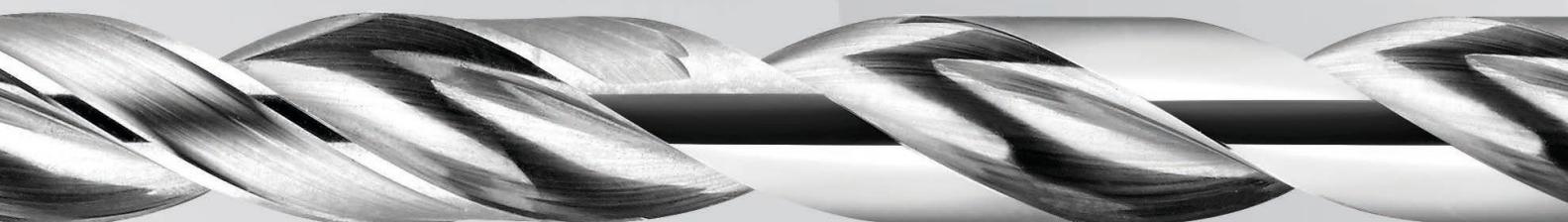
The **newly developed geometries** offer a regular and constant chipping, thanks to the **surface treatments**, which make the **groove space very smooth**, ensuring **low torsional stresses** and **higher precision** on a wide range of materials (**steels, cast irons, stainless steels, titanium alloys and superalloys**).

These are the **novelties** in our catalogue:

- **drills with 4 guide pads** for precision drills, available in 5xD, 8xD and 12xD versions;
- **drills with specific geometry for light alloys**, with lubrication holes, available in 5xD, 15xD, 20xD and 25xD lengths.

The EXTENSION of the range concerns

- **standard drills**, with the addition of items in 12xD length;
- **extra-long drills**, with lubrication holes and completely revised geometry in 15xD, 20xD, 25xD and 30xD lengths;
- **drill reamers**, with lubrication holes in 3xD and 5xD lengths;
- **centesimal reamers**, with the addition of two new families, in extra short and long versions.



NEUES SILMAX-BOHRPROGRAMM: PRODUKTIVITÄT UND VIELSEITIGKEIT

SILMAX stellt das **neue Bohrprogramm vor**, in dem neue Produkte eingeführt werden und das bestehende Sortiment erweitert wird. Alle Produkte sind mit der neuesten Technologie entwickelt, um ein **Höchstmaß an Produktivität und Zuverlässigkeit bei den kritischsten und komplexesten Aufgaben zu gewährleisten.**

Die neu **entwickelten Geometrien** bieten eine gleichmäßige und konstante Zerspanung an. Dank der **Oberflächenbehandlungen**, die die **Spanut sehr glittfähig machen und geringe Torsionsbeanspruchung** annimmt. Dadurch wird eine breite Auswahl und eine **höhere Präzision** von Materialien gewährleistet (**Stahl, Gusseisen, Rostfreier Stahl, Titanlegierungen und Superlegierungen**).

Folgende **neuheiten** werden eingeführt :

- **Bohrer mit 4 Führungsleisten** für Präzisionsbohrungen verfügbar in den Ausführungen 5xD, 8xD e 12xD;
- **Bohrer mit einsatzbezogener Geometrie für Leichtlegierungen**, mit Innenkühlkanälen in den Längen 5xD, 15xD, 20xD und 25xD verfügbar.

Die **ERWEITERUNG** der Produktpalette bezieht sich auf

- **Standard-Bohrer** mit der Einführung von Artikeln der Länge 12xD;
- **Extra-lange Bohrer** mit Innenkühlkanälen und komplett neu überarbeiteter Geometrie, in den Längen 15xD, 20xD, 25xD und 30xD verfügbar;
- **Bohrreibahle** mit Innenkühlkanälen in den Längen 3xD und 5xD verfügbar;
- **Das Sortiment der Hundertstel-Reibahle** wird mit der Einführung der extra-kurzen und extra-langen Varianten erweitert.

NUOVEAU PROGRAMME PERÇAGE SILMAX: PRODUCTIVITÉ ET VERSATILITÉ

SILMAX présente son **nouveau programme de perçage**, en ajoutant de nouveaux articles et en élargissant la gamme des produits existants. Tous les produits sont développés à l'aide d'une technologie de pointe, pour assurer une **productivité et une fiabilité maximales dans les opérations les plus critiques et les plus complexes.**

Les **nouvelles géométries** développées offrent une évacuation régulière et constante des copeaux, grâce à des **traitements de surface** qui rendent l'**espace de rainure très lisse**, en garantissant de **faibles contraintes de torsion** et une **plus haute précision** sur une large gamme de matériaux (**acières, fontes, aciers inoxydables, alliages de titane et superalliages**).

Les **nouveautés** du catalogue sont les suivantes:

- **forets avec 4 patins de guidage** pour les trous de précision, disponibles en versions 5xD, 8xD et 12xD;
- **forets à géométrie spécifique pour alliages légers**, avec trous de lubrification, disponibles en longueurs 5xD, 15xD, 20xD et 25xD.

L'**EXTENSION** de la gamme concerne:

- **forets standards**, avec ajout d'articles en longueur 12xD;
- **forets extra-longs**, avec trous de lubrification et géométrie entièrement révisée, en longueurs 15xD, 20xD, 25xD et 30xD;
- **forets-alésoirs**, avec trous de lubrification, disponibles en longueurs 3xD et 5xD;
- **alésoirs au centième**, avec ajout de deux nouvelles familles, en versions extra courte et extra-longue.



NUOVA FORATURA SILMAX: PRODUTTIVITÀ E VERSATILITÀ

RIVESTIMENTI PVD

I rivestimenti utilizzati e realizzati nel centro rivestimenti Silmax sono accuratamente selezionati per ogni tipologia di prodotto, così da assicurare una **riduzione del calore generato**, una **migliore evacuazione** del truciolo ed un **aumento della vita utensile** in ogni situazione.

In base alle condizioni di impiego sono stati selezionati la **ricopertura ed il trattamento** più idonei e performanti:

- **HMX Balinit® X-Pro + 4S.** Ricopertura base AlCrN applicata alle serie di punte per foratura di acciai fino ad una profondità di 12xD;
- **HMC Balinit® Latuma + 4S.** Ricopertura base AlTiN applicata alle serie 4 pattini, alla foratura profonda ed alla foratura inox.

Aspetto fondamentale correlato alla **ricopertura delle punte** è quello **del trattamento delle superfici**, che Silmax nell'ambito della **tecnologia 4S**, ha ottimizzato per le diverse famiglie in base alle caratteristiche dell'applicazione attesa e delle geometrie utensile dei trattamenti personalizzati, per migliorare le performance.

NEW DRILLING BY SILMAX: PRODUCTIVITY AND VERSATILITY

PVD COATING

The coatings used for our drills are made at Silmax coating centre and accurately selected for each type of product, in order to enable a **reduction of generated heat**, **better chip evacuation** and an **increased tool life** in every situation.

The most suitable and best performing coating and treatment have been selected according to the conditions of use:

- **HMX Balinit® X-Pro + 4S.** AlCrN-based coating applied to the series of drills for drilling steels up to a depth of 12xD;
- **HMC Balinit® Latuma + 4S.** AlTiN-based coating applied to 4-guide pad series, to deep drilling and drilling of stainless steel.

A crucial aspect related to **drill coating** is **surface treatment**. Within the **4S technology**, Silmax has optimised customised treatments for the different product families, according to the features of expected applications and tool geometries, in order to improve performances.



NEUES SILMAX-BOHRPROGRAMM: PRODUKTIVITÄT UND VIELSEITIGKEIT

PVD-BESCHICHTUNGEN

Die im Silmax-Beschichtungszentrum verwendeten und durchgeführten Beschichtungen werden sorgfältig für jede Produktart ausgewählt, um eine **Reduzierung der erzeugten Wärme**, eine **bessere Spanabfuhr** und eine **Erhöhung der Standzeit des Werkzeuges** in jeder Situation zu gewährleisten.

Je nach Einsatzbedingungen wurden die geeignetste und leistungsstärkste Beschichtung und Behandlung ausgewählt:

- **HMX Balinit® X-Pro + 4S.** AlCrN-basierte Beschichtung für eine Linie an Bohrern für die Bearbeitung von Stahl bis zu einer Bohrtiefe von 12xD;
- **HMC Balinit® Latuma + 4S.** AlCrN-basierte Beschichtung für eine Linie an Bohrern mit 4 Leisten, für das Tieflochbohren und das Bohren in Edelstahl.

Ein wesentlicher Aspekt der **Bohrerbeschichtung** ist die Oberflächenbehandlung. Im Rahmen der **4S-Technologie** hat Silmax für die verschiedenen Familien der Werkzeugeigenschaften entsprechend die kundenspezifischen Behandlungen optimiert, um die Leistung zu verbessern.

NUOVEAU PROGRAMME PERÇAGE SILMAX: PRODUCTIVITÉ ET VERSATILITÉ

REVÊTEMENTS PVD

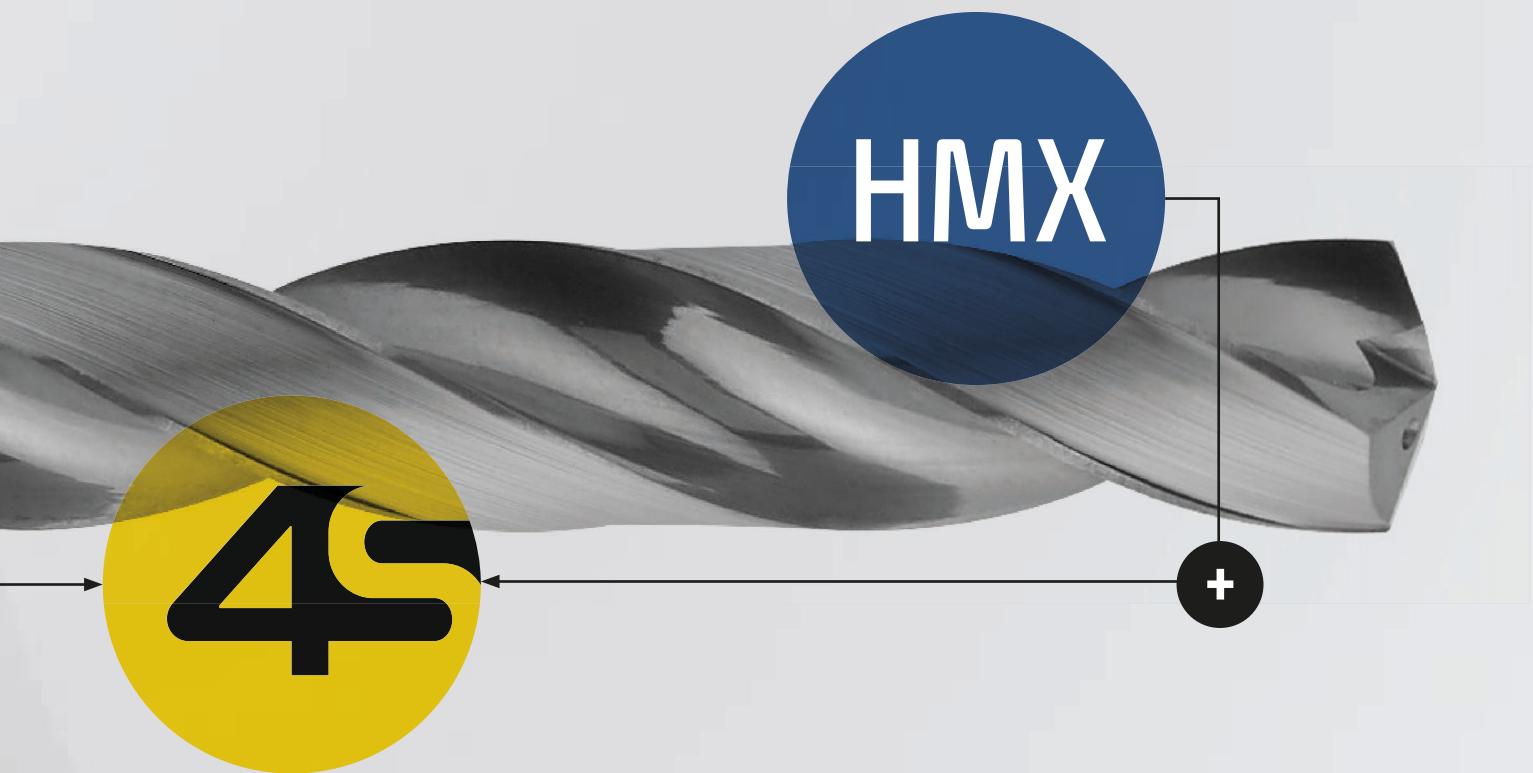
Les revêtements utilisés et produits dans le centre de revêtement de Silmax sont soigneusement sélectionnés pour chaque type de produit afin de garantir une **réduction de la chaleur générée**, une **meilleure évacuation des copeaux** et une **augmentation de la durée de vie de l'outil** dans toutes les situations.

Le revêtement et le traitement les plus adaptés et les plus performants ont été sélectionnés en fonction des conditions d'utilisation:

- **HMX Balinit® X-Pro + 4S.** Revêtement à base AlCrN appliqué aux séries de forets pour le perçage des aciers jusqu'à une profondeur de 12xD;
- **HMC Balinit® Latuma + 4S.** Revêtement à base AlCrN appliqué aux séries 4 patins, au perçage profond et au perçage d'acier inoxydable.

Un aspect fondamental lié au **revêtement des forets** est celui du **traitement de surfaces**.

Dans le cadre de la **technologie 4S**, Silmax a optimisé des traitements personnalisés pour les différentes familles de produits en fonction de l'application prévue et des géométries de l'outil afin d'améliorer les performances.



PHM

Punte HM per acciaio fino 12xD
 HM Drills for Steel up to 12xD
 HM-Bohrer für Stahl bis 12xD
 Forets HM pour acier jusqu'à 12xD

| | Codice Code | \varnothing (D mm) | Descrizione Description | Description | Beschreibung | Description |
|---|----------------|-------------------------|----------------------------|---|-----------------------|--|
|  | 3030A | 3,0 ÷ 20,0 | Punta 3xD senza fori | 3xD Drill without internal coolant | 3xD Bohrer ohne IK | 3xD Foret sans trous de lubrification |
|  | 3031A | 3,0 ÷ 20,0 | Punta 3xD con fori | 3xD Drill with internal coolant | 3xD Bohrer mit IK | 3xD Foret avec trous de lubrification |
|  | 3050A | 3,0 ÷ 20,0 | Punta 5xD senza fori | 5xD Drill without inter- nal coolant | 5xD Bohrer ohne IK | 5xD Foret sans trous de lubrification |
|  | 3051A | 3,0 ÷ 20,0 | Punta 5xD con fori | 5xD Drill with internal coolant | 5xD Bohrer mit IK | 5xD Foret avec trous de lubrification |
|  | 3081A | 3,0 ÷ 20,0 | Punta 8xD con fori | 8xD Drill with internal coolant | 8xD Bohrer mit IK | 8xD Foret avec trous de lubrification |
|  | 3121A | 3,0 ÷ 18,0 | Punta 12xD con fori | 12xD Drill with internal coolant | 12xD Bohrer mit IK | 12xD Foret avec trous de lubrification |

PH4

Punte HM per acciaio 4 pattini fino 12xD
 4 double margin HM drills for steel up to 12xD
 HM-Bohrer für Stahl mit 4 Fuehrungsfasen bis 12xD
 Forets HM pour acier 4 patins de guidage jusqu'à 12xD

| | | | | | | |
|---|-------|------------------|----------------------------------|--|-----------------------|--|
|  | 3054A | 3,0 ÷ 20,0 | Punta 4 pattini 5xD con fori | 5xD Drill with internal coolant | 5xD Bohrer mit IK | 5xD Foret avec trous de lubrification |
|  | 3084A | 3,0 ÷ 20,0 | Punta 4 pattini 8xD con fori | 8xD Drill with internal coolant | 8xD Bohrer mit IK | 8xD Foret avec trous de lubrification |
|  | 3124A | 3,0 ÷ 19,5 | Punta 4 pattini 12xD con fori | 12xD Drill with internal coolant | 12xD Bohrer mit IK | 12xD Foret avec trous de lubrification |

Acciaio
Steel
Stahl
Acier

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

Ghisa
Cast Iron
Gussisen
Fonte

Acciaio Inox
Stainless Steel
Edelstahl
Acier inoxydable

HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

NON ISO
Not ISO
Keine ISO
Pas d'ISO

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| ● | - | ● | - | - | - | - | 34 |
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| ● | - | ● | - | - | - | - | 44 |

PHP

Punte HM per acciaio foratura profonda fino 30xD

HM Deep drilling for Steel up to 30xD

HM-Bohrer zum Tiefbohren von Stahl bis 30xD

Forets HM pouracier, pour des profondeurs jusqu'à 30xD

Codice
Code \varnothing
(D mm)

Descrizione

Description

Beschreibung

Description

3151A3,0
÷
15,0Punta 15xD
con fori15xD Drill
with internal
coolant15xD Bohrer
mit IK15xD Foret
avec trous de
lubrification**3201A**3,0
÷
16,0Punta 20xD
con fori20xD Drill
with internal
coolant20xD Bohrer
mit IK20xD Foret
avec trous de
lubrification**3251A**3,0
÷
14,0Punta 25xD
con fori25xD Drill
with internal
coolant25xD Bohrer
mit IK25xD Foret
avec trous de
lubrification**3301A**3,0
÷
12,0Punta 30xD
con fori30xD Drill
with internal
coolant30xD Bohrer
mit IK30xD Foret
avec trous de
lubrification**PHH**

Punte HM forate alesa

HM Drilling-boring

HM Bohreibahle

Forets HM perçage-alésage

**4031A**4,0
÷
16,0Punta forata
alesa 3xD
con fori3xD Drilling-
boring with
internal
coolant3xD Bohreibahle
mit IK3xD Foret
perçage-
alésage avec
trous de
lubrification**4051A**4,0
÷
16,0Punta forata
alesa 5xD
con fori5xD Drilling-
boring with
internal
coolant5xD Bohreibahle
mit IK5xD Foret
perçage-
alésage avec
trous de
lubrification**PHF**

Punte HM piatte

HM Drills Flat

HM-Flachbohrer

Forets HM monobloc type plat

**4038A**3,0
÷
20,0Punta piatta
3xD con foriFlat drill 3xD
with holesFlachbohrer
3xD mit KanalForet plat
3xD avec
trous**4058A**3,0
÷
20,0Punta piatta
5xD con foriFlat drill 5xD
with holesFlachbohrer
5xD mit KanalForet plat
5xD avec
trous

Acciaio
Steel
Stahl
Acier

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

Ghisa
Cast Iron
Gussisen
Fonte

Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

NON ISO
Not ISO
Keine ISO
Pas d'ISO

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| • | - | • | • | - | - | - | 52 |
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| • | - | • | • | - | - | - | 56 |
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PHS

Punte HM per acciaio inox fino 8xD
 HM Drills for Inox up to 8xD
 HM-Bohrer für Edelstahl bis zu 8xD
 Forets HM pour acier inoxydable jusqu'à 8xD



| Codice Code | \varnothing (D mm) | Descrizione | Description | Beschreibung | Description |
|----------------|-------------------------|-------------|-------------|--------------|-------------|
|----------------|-------------------------|-------------|-------------|--------------|-------------|

3031S

3,0
÷
20,0Punta 3xD
con fori3xD Drill
with internal
coolant3xD Bohrer
mit IK3xD Foret
avec trous de
lubrification

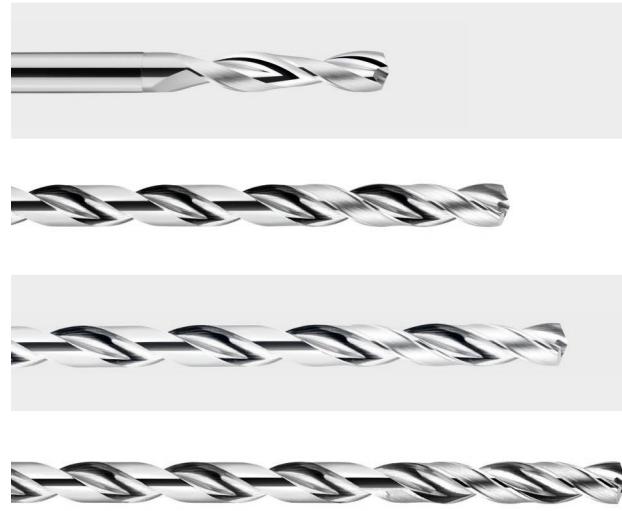
3051S

3,0
÷
20,0Punta 5xD
con fori5xD Drill
with internal
coolant5xD Bohrer
mit IK5xD Foret
avec trous de
lubrification

3081S

3,0
÷
20,0Punta 8xD
con fori8xD Drill
with internal
coolant8xD Bohrer
mit IK8xD Foret
avec trous de
lubrification**PHN**

Punte HM per Alluminio fino 25xD
 HM Drills for Alu up to 25xD
 HM-Bohrer für Alu bis 25xD
 Forets HM pour Alu jusqu'à 25xD



| Codice Code | \varnothing (D mm) | Descrizione | Description | Beschreibung | Description |
|----------------|-------------------------|-------------|-------------|--------------|-------------|
|----------------|-------------------------|-------------|-------------|--------------|-------------|

3051N

3,0
÷
20,0Punta 5xD
con fori5xD Drill
with internal
coolant5xD Bohrer
mit IK5xD Foret
avec trous de
lubrification

3151N

3,0
÷
12,0Punta 15xD
con fori15xD Drill
with internal
coolant15xD Bohrer
mit IK15xD Foret
avec trous de
lubrification

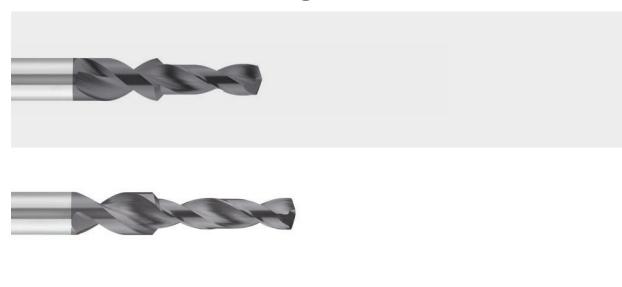
3201N

3,0
÷
12,0Punta 20xD
con fori20xD Drill
with internal
coolant20xD Bohrer
mit IK20xD Foret
avec trous de
lubrification

3251N

3,0
÷
10,0Punta 25xD
con fori25xD Drill
with internal
coolant25xD Bohrer
mit IK25xD Foret
avec trous de
lubrification**PHG**

Punte a Gradino fino 3.5xD
 Step Drills
 Stufenbohrer
 Forets étages



| Codice Code | \varnothing (D mm) | Descrizione | Description | Beschreibung | Description |
|----------------|-------------------------|-------------|-------------|--------------|-------------|
|----------------|-------------------------|-------------|-------------|--------------|-------------|

3825

M4
÷
M12Punta 2.5xD
con fori2.5xD Drill
with internal
coolant2.5xD Bohrer
mit IK2.5xD Foret
avec trous de
lubrification

3835

M4
÷
M12Punta 3.5xD
con fori3.5xD Drill
with internal
coolant3.5xD Bohrer
mit IK3.5xD Foret
avec trous de
lubrification

Acciaio
 Steel
 Stahl
 Acier

Acciaio Temprato
 Hardened Steel
 Gehärteter Stahl
 Acier trempé

Ghisa
 Cast Iron
 Gussseisen
 Fonte

Acciaio Inox
 Stainless Steel
 Edelstahl
 Acier Inoxydable

HRSA - Titanio
 HRSA - Titanium
 HRSA - Titan
 HRSA - Titane

Metalli non ferrosi
 Non-ferrous metals
 NE-Metalle
 Matières non ferreuses

NON ISO
 Not ISO
 Keine ISO
 Pas d'ISO

Pagina / Page
 Seite / Page

P

H

K

M

S

N

O

| | | | | | | | |
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| • | - | • | • | • | - | - | 60 |
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| • | - | • | • | • | - | - | 68 |
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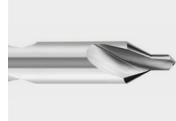
| | | | | | | | |
|---|---|---|---|---|---|---|----|
| - | - | - | - | - | • | - | 75 |
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| | | | | | | | |
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| • | - | • | • | • | - | - | 76 |
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|---|---|---|---|---|---|---|----|
| • | - | • | • | • | - | - | 77 |
|---|---|---|---|---|---|---|----|

PHC

Punte a Centrare
Center Drills
Zentrierbohrungen
Forets à centrer



Codice
Code

\emptyset
(D mm)

Descrizione
Description

Beschreibung

Description

351

1,0
 \div
5,0

Punte a
centrare 118°

Center
Drills 118°

Zentrierbohrer
118°

Forets à
centrer 118°*



357

3,0
 \div
16,0

Punte a
centrare 90°

Center
Drills 90°

Zentrierbohrer
90°

Forets à
centrer 90°*



358

3,0
 \div
12,0

Punte a
centrare 120°

Center
Drills 120°

Zentrierbohrer
120°

Forets à
centrer 120°*

ALR

Alesatori Centesimali
Reamers
Hundertstel-Reibahlen
Alésoirs centésimales



502

2,97
 \div
18,20

Alesatori
centesimali
extracorti

Extra-short
reamers

Extra kurze
Hundertstel-
Reibahle

Alésoirs
au centième
extra-courts



503

0,90
 \div
20,20

Alesatori
centesimali
standard

Standard
reamers

Standard
Hundertstel-
Reibahle

Alésoirs au
centième
standards



504

2,00
 \div
12,20

Alesatori
centesimali
extralunghi

Extra-long
reamers

Extra lange
Hundertstel-
Reibahle

Alésoirs au
centième
extra-longs

PARTE TECNICA

TECHNICAL SECTION / TECHNISCHER TEIL / SECTION TECHNIQUE

PARAMETRI DI LAVORO

WORKING PARAMETERS / BEARBEITUNGSPARAMETER / PARAMÈTRES D'USINAGE

PROCEDURA DI FORATURA PROFONDA PER PUNTE 15-30xD

DEEP DRILLING PROCEDURE FOR 15-30xD DRILLS / TIEFBOHRPROZESS FÜR 15-30xD BOHRER /
PROCEDURE DE PÉRÇAGE PROFOND POUR FORETS 15-30xD

OPZIONI A RICHIESTA

OPTIONS UPON REQUEST

Acciaio
Steel
Stahl
Acier

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

Ghisa
Cast Iron
Gussisen
Fonte

Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

NON ISO
Not ISO
Keine ISO
Pas d'ISO

Pagina / Page
Seite / Page

P

H

K

M

S

N

O

| | | | | | | | |
|---|---|---|---|---|---|---|----|
| ● | - | ● | ● | ● | ● | - | 78 |
| ● | - | ● | ● | ● | ● | - | 79 |
| ● | - | ● | ● | ● | ● | - | 80 |

| | | | | | | | |
|---|---|---|---|---|---|---|----|
| ● | ● | ● | ● | ● | ● | - | 83 |
| ● | ● | ● | ● | ● | ● | - | 84 |
| ● | ● | ● | ● | ● | ● | - | 86 |

88

Scansiona
il codice QR
per scaricare
la versione
digitale

Scan QR code
to download
the digital
version

100

102



PUNTE HM PER ACCIAIO FINO 12xD

HM DRILLS FOR STEEL UP TO 12xD / HM-BOHRER FÜR STAHL BIS 12xD / FORETS HM POUR ACIER JUSQU'À 12xD

3030A

Punta 3xD senza fori

3xD Drill without internal coolant

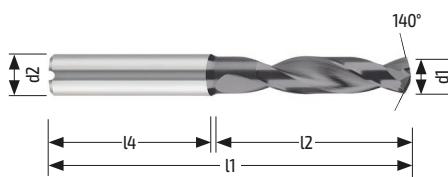
3xD Bohrer ohne IK

3xD Foret sans trous de lubrification



P

K



| 140° | d1 m7 | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | X-Pro Coating | Stock |
|------|----------|----------|----------------|----------------|----------------|----------------|------------------|-------|
| | 3,00 | 6 | 14 | 20 | 36 | 62 | HMX3030A030 | ● |
| | 3,10 | 6 | 14 | 20 | 36 | 62 | HMX3030A031 | ● |
| | 3,20 | 6 | 14 | 20 | 36 | 62 | HMX3030A032 | ● |
| | 3,30 | 6 | 14 | 20 | 36 | 62 | HMX3030A033 | ● |
| | 3,40 | 6 | 14 | 20 | 36 | 62 | HMX3030A034 | ● |
| | 3,50 | 6 | 14 | 20 | 36 | 62 | HMX3030A035 | ● |
| | 3,60 | 6 | 14 | 20 | 36 | 62 | HMX3030A036 | ● |
| | 3,70 | 6 | 14 | 20 | 36 | 62 | HMX3030A037 | ● |
| | 3,80 | 6 | 17 | 24 | 36 | 66 | HMX3030A038 | ● |
| | 3,90 | 6 | 17 | 24 | 36 | 66 | HMX3030A039 | ● |
| | 4,00 | 6 | 17 | 24 | 36 | 66 | HMX3030A040 | ● |
| | 4,10 | 6 | 17 | 24 | 36 | 66 | HMX3030A041 | ● |
| | 4,20 | 6 | 17 | 24 | 36 | 66 | HMX3030A042 | ● |
| | 4,30 | 6 | 17 | 24 | 36 | 66 | HMX3030A043 | ● |
| | 4,40 | 6 | 17 | 24 | 36 | 66 | HMX3030A044 | ● |
| | 4,50 | 6 | 17 | 24 | 36 | 66 | HMX3030A045 | ● |
| | 4,60 | 6 | 17 | 24 | 36 | 66 | HMX3030A046 | ● |
| | 4,70 | 6 | 17 | 24 | 36 | 66 | HMX3030A047 | ● |
| | 4,80 | 6 | 20 | 28 | 36 | 66 | HMX3030A048 | ● |
| | 4,90 | 6 | 20 | 28 | 36 | 66 | HMX3030A049 | ● |
| | 5,00 | 6 | 20 | 28 | 36 | 66 | HMX3030A050 | ● |
| | 5,10 | 6 | 20 | 28 | 36 | 66 | HMX3030A051 | ● |
| | 5,20 | 6 | 20 | 28 | 36 | 66 | HMX3030A052 | ● |
| | 5,30 | 6 | 20 | 28 | 36 | 66 | HMX3030A053 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | l<u>u</u> | l<u>2</u> | l<u>4</u> | l<u>1</u> | X-Pro Coating | Stock |
|-----------------|-----------------|------------------|------------------|------------------|------------------|-------------------------|--------------|
| 5,40 | 6 | 20 | 28 | 36 | 66 | HMX3030A054 | ● |
| 5,50 | 6 | 20 | 28 | 36 | 66 | HMX3030A055 | ● |
| 5,60 | 6 | 20 | 28 | 36 | 66 | HMX3030A056 | ● |
| 5,70 | 6 | 20 | 28 | 36 | 66 | HMX3030A057 | ● |
| 5,80 | 6 | 20 | 28 | 36 | 66 | HMX3030A058 | ● |
| 5,90 | 6 | 20 | 28 | 36 | 66 | HMX3030A059 | ● |
| 6,00 | 6 | 20 | 28 | 36 | 66 | HMX3030A060 | ● |
| 6,10 | 8 | 24 | 34 | 36 | 79 | HMX3030A061 | ● |
| 6,20 | 8 | 24 | 34 | 36 | 79 | HMX3030A062 | ● |
| 6,30 | 8 | 24 | 34 | 36 | 79 | HMX3030A063 | ● |
| 6,40 | 8 | 24 | 34 | 36 | 79 | HMX3030A064 | ● |
| 6,50 | 8 | 24 | 34 | 36 | 79 | HMX3030A065 | ● |
| 6,60 | 8 | 24 | 34 | 36 | 79 | HMX3030A066 | ● |
| 6,70 | 8 | 24 | 34 | 36 | 79 | HMX3030A067 | ● |
| 6,80 | 8 | 24 | 34 | 36 | 79 | HMX3030A068 | ● |
| 6,90 | 8 | 24 | 34 | 36 | 79 | HMX3030A069 | ● |
| 7,00 | 8 | 24 | 34 | 36 | 79 | HMX3030A070 | ● |
| 7,10 | 8 | 29 | 41 | 36 | 79 | HMX3030A071 | ○ |
| 7,20 | 8 | 29 | 41 | 36 | 79 | HMX3030A072 | ● |
| 7,30 | 8 | 29 | 41 | 36 | 79 | HMX3030A073 | ○ |
| 7,40 | 8 | 29 | 41 | 36 | 79 | HMX3030A074 | ● |
| 7,50 | 8 | 29 | 41 | 36 | 79 | HMX3030A075 | ● |
| 7,60 | 8 | 29 | 41 | 36 | 79 | HMX3030A076 | ○ |
| 7,70 | 8 | 29 | 41 | 36 | 79 | HMX3030A077 | ● |
| 7,80 | 8 | 29 | 41 | 36 | 79 | HMX3030A078 | ● |
| 7,90 | 8 | 29 | 41 | 36 | 79 | HMX3030A079 | ● |
| 8,00 | 8 | 29 | 41 | 36 | 79 | HMX3030A080 | ● |
| 8,10 | 10 | 35 | 47 | 40 | 89 | HMX3030A081 | ● |
| 8,20 | 10 | 35 | 47 | 40 | 89 | HMX3030A082 | ● |
| 8,30 | 10 | 35 | 47 | 40 | 89 | HMX3030A083 | ● |
| 8,40 | 10 | 35 | 47 | 40 | 89 | HMX3030A084 | ○ |
| 8,50 | 10 | 35 | 47 | 40 | 89 | HMX3030A085 | ● |
| 8,60 | 10 | 35 | 47 | 40 | 89 | HMX3030A086 | ● |
| 8,70 | 10 | 35 | 47 | 40 | 89 | HMX3030A087 | ● |
| 8,80 | 10 | 35 | 47 | 40 | 89 | HMX3030A088 | ● |
| 8,90 | 10 | 35 | 47 | 40 | 89 | HMX3030A089 | ● |
| 9,00 | 10 | 35 | 47 | 40 | 89 | HMX3030A090 | ● |
| 9,10 | 10 | 35 | 47 | 40 | 89 | HMX3030A091 | ● |
| 9,20 | 10 | 35 | 47 | 40 | 89 | HMX3030A092 | ○ |
| 9,30 | 10 | 35 | 47 | 40 | 89 | HMX3030A093 | ● |
| 9,40 | 10 | 35 | 47 | 40 | 89 | HMX3030A094 | ○ |
| 9,50 | 10 | 35 | 47 | 40 | 89 | HMX3030A095 | ● |
| 9,60 | 10 | 35 | 47 | 40 | 89 | HMX3030A096 | ○ |
| 9,70 | 10 | 35 | 47 | 40 | 89 | HMX3030A097 | ● |
| 9,80 | 10 | 35 | 47 | 40 | 89 | HMX3030A098 | ● |
| 9,90 | 10 | 35 | 47 | 40 | 89 | HMX3030A099 | ● |
| 10,00 | 10 | 35 | 47 | 40 | 89 | HMX3030A100 | ● |
| 10,10 | 12 | 40 | 55 | 45 | 102 | HMX3030A101 | ○ |
| 10,20 | 12 | 40 | 55 | 45 | 102 | HMX3030A102 | ● |
| 10,30 | 12 | 40 | 55 | 45 | 102 | HMX3030A103 | ○ |
| 10,40 | 12 | 40 | 55 | 45 | 102 | HMX3030A104 | ○ |
| 10,50 | 12 | 40 | 55 | 45 | 102 | HMX3030A105 | ● |
| 10,60 | 12 | 40 | 55 | 45 | 102 | HMX3030A106 | ● |
| 10,70 | 12 | 40 | 55 | 45 | 102 | HMX3030A107 | ○ |
| 10,80 | 12 | 40 | 55 | 45 | 102 | HMX3030A108 | ● |
| 10,90 | 12 | 40 | 55 | 45 | 102 | HMX3030A109 | ○ |
| 11,00 | 12 | 40 | 55 | 45 | 102 | HMX3030A110 | ● |
| 11,10 | 12 | 40 | 55 | 45 | 102 | HMX3030A111 | ○ |
| 11,20 | 12 | 40 | 55 | 45 | 102 | HMX3030A112 | ○ |
| 11,30 | 12 | 40 | 55 | 45 | 102 | HMX3030A113 | ● |
| 11,40 | 12 | 40 | 55 | 45 | 102 | HMX3030A114 | ● |
| 11,50 | 12 | 40 | 55 | 45 | 102 | HMX3030A115 | ● |

3030A

Punta 3xD senza fori

3xD Drill without internal coolant

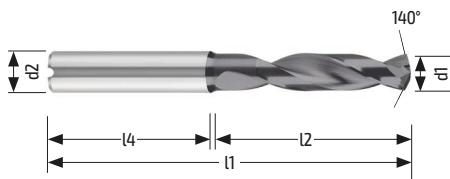
3xD Bohrer ohne IK

3xD Foret sans trous de lubrification

DIN
6535 HA
(Standard)

P

K



140°

| d1 <small>m7</small> | d2 <small>h6</small> | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|--------------------------------|--------------------------------|-----------|-----------|-----------|-----------|-------------------------|--------------|
| 11,60 | 12 | 40 | 55 | 45 | 102 | HMX3030A116 | ○ |
| 11,70 | 12 | 40 | 55 | 45 | 102 | HMX3030A117 | ● |
| 11,80 | 12 | 40 | 55 | 45 | 102 | HMX3030A118 | ● |
| 11,90 | 12 | 40 | 55 | 45 | 102 | HMX3030A119 | ● |
| 12,00 | 12 | 40 | 55 | 45 | 102 | HMX3030A120 | ● |
| 12,10 | 14 | 43 | 60 | 45 | 107 | HMX3030A121 | ○ |
| 12,20 | 14 | 43 | 60 | 45 | 107 | HMX3030A122 | ○ |
| 12,30 | 14 | 43 | 60 | 45 | 107 | HMX3030A123 | ● |
| 12,40 | 14 | 43 | 60 | 45 | 107 | HMX3030A124 | ○ |
| 12,50 | 14 | 43 | 60 | 45 | 107 | HMX3030A125 | ● |
| 12,60 | 14 | 43 | 60 | 45 | 107 | HMX3030A126 | ○ |
| 12,70 | 14 | 43 | 60 | 45 | 107 | HMX3030A127 | ○ |
| 12,80 | 14 | 43 | 60 | 45 | 107 | HMX3030A128 | ● |
| 12,90 | 14 | 43 | 60 | 45 | 107 | HMX3030A129 | ○ |
| 13,00 | 14 | 43 | 60 | 45 | 107 | HMX3030A130 | ● |
| 13,10 | 14 | 43 | 60 | 45 | 107 | HMX3030A131 | ○ |
| 13,20 | 14 | 43 | 60 | 45 | 107 | HMX3030A132 | ○ |
| 13,30 | 14 | 43 | 60 | 45 | 107 | HMX3030A133 | ○ |
| 13,40 | 14 | 43 | 60 | 45 | 107 | HMX3030A134 | ○ |
| 13,50 | 14 | 43 | 60 | 45 | 107 | HMX3030A135 | ● |
| 13,60 | 14 | 43 | 60 | 45 | 107 | HMX3030A136 | ○ |
| 13,70 | 14 | 43 | 60 | 45 | 107 | HMX3030A137 | ○ |
| 13,80 | 14 | 43 | 60 | 45 | 107 | HMX3030A138 | ● |
| 13,90 | 14 | 43 | 60 | 45 | 107 | HMX3030A139 | ○ |
| 14,00 | 14 | 43 | 60 | 45 | 107 | HMX3030A140 | ● |
| 14,10 | 16 | 45 | 65 | 48 | 115 | HMX3030A141 | ● |
| 14,20 | 16 | 45 | 65 | 48 | 115 | HMX3030A142 | ● |
| 14,30 | 16 | 45 | 65 | 48 | 115 | HMX3030A143 | ○ |
| 14,40 | 16 | 45 | 65 | 48 | 115 | HMX3030A144 | ○ |
| 14,50 | 16 | 45 | 65 | 48 | 115 | HMX3030A145 | ● |
| 14,60 | 16 | 45 | 65 | 48 | 115 | HMX3030A146 | ○ |
| 14,70 | 16 | 45 | 65 | 48 | 115 | HMX3030A147 | ○ |
| 14,80 | 16 | 45 | 65 | 48 | 115 | HMX3030A148 | ● |
| 14,90 | 16 | 45 | 65 | 48 | 115 | HMX3030A149 | ○ |
| 15,00 | 16 | 45 | 65 | 48 | 115 | HMX3030A150 | ● |
| 15,10 | 16 | 45 | 65 | 48 | 115 | HMX3030A151 | ● |
| 15,20 | 16 | 45 | 65 | 48 | 115 | HMX3030A152 | ○ |
| 15,30 | 16 | 45 | 65 | 48 | 115 | HMX3030A153 | ● |
| 15,40 | 16 | 45 | 65 | 48 | 115 | HMX3030A154 | ○ |
| 15,50 | 16 | 45 | 65 | 48 | 115 | HMX3030A155 | ● |
| 15,60 | 16 | 45 | 65 | 48 | 115 | HMX3030A156 | ○ |
| 15,70 | 16 | 45 | 65 | 48 | 115 | HMX3030A157 | ○ |
| 15,80 | 16 | 45 | 65 | 48 | 115 | HMX3030A158 | ● |
| 15,90 | 16 | 45 | 65 | 48 | 115 | HMX3030A159 | ○ |
| 16,00 | 16 | 45 | 65 | 48 | 115 | HMX3030A160 | ● |
| 16,10 | 18 | 52 | 73 | 48 | 123 | HMX3030A161 | ○ |

140°

| d1 m7 | d2 h6 | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-------------------------|--------------|
| 16,20 | 18 | 52 | 73 | 48 | 123 | HMX3030A162 | ○ |
| 16,30 | 18 | 52 | 73 | 48 | 123 | HMX3030A163 | ○ |
| 16,40 | 18 | 52 | 73 | 48 | 123 | HMX3030A164 | ○ |
| 16,50 | 18 | 52 | 73 | 48 | 123 | HMX3030A165 | ○ |
| 16,60 | 18 | 52 | 73 | 48 | 123 | HMX3030A166 | ○ |
| 16,70 | 18 | 52 | 73 | 48 | 123 | HMX3030A167 | ○ |
| 16,80 | 18 | 52 | 73 | 48 | 123 | HMX3030A168 | ○ |
| 16,90 | 18 | 52 | 73 | 48 | 123 | HMX3030A169 | ○ |
| 17,00 | 18 | 52 | 73 | 48 | 123 | HMX3030A170 | ○ |
| 17,10 | 18 | 52 | 73 | 48 | 123 | HMX3030A171 | ○ |
| 17,20 | 18 | 52 | 73 | 48 | 123 | HMX3030A172 | ○ |
| 17,30 | 18 | 52 | 73 | 48 | 123 | HMX3030A173 | ○ |
| 17,40 | 18 | 52 | 73 | 48 | 123 | HMX3030A174 | ○ |
| 17,50 | 18 | 52 | 73 | 48 | 123 | HMX3030A175 | ○ |
| 17,60 | 18 | 52 | 73 | 48 | 123 | HMX3030A176 | ○ |
| 17,70 | 18 | 52 | 73 | 48 | 123 | HMX3030A177 | ○ |
| 17,80 | 18 | 52 | 73 | 48 | 123 | HMX3030A178 | ○ |
| 17,90 | 18 | 52 | 73 | 48 | 123 | HMX3030A179 | ○ |
| 18,00 | 18 | 52 | 73 | 48 | 123 | HMX3030A180 | ○ |
| 18,10 | 20 | 57 | 79 | 50 | 131 | HMX3030A181 | ○ |
| 18,20 | 20 | 57 | 79 | 50 | 131 | HMX3030A182 | ○ |
| 18,30 | 20 | 57 | 79 | 50 | 131 | HMX3030A183 | ○ |
| 18,40 | 20 | 57 | 79 | 50 | 131 | HMX3030A184 | ○ |
| 18,50 | 20 | 57 | 79 | 50 | 131 | HMX3030A185 | ○ |
| 18,60 | 20 | 57 | 79 | 50 | 131 | HMX3030A186 | ○ |
| 18,70 | 20 | 57 | 79 | 50 | 131 | HMX3030A187 | ○ |
| 18,80 | 20 | 57 | 79 | 50 | 131 | HMX3030A188 | ○ |
| 18,90 | 20 | 57 | 79 | 50 | 131 | HMX3030A189 | ○ |
| 19,00 | 20 | 57 | 79 | 50 | 131 | HMX3030A190 | ○ |
| 19,10 | 20 | 57 | 79 | 50 | 131 | HMX3030A191 | ○ |
| 19,20 | 20 | 57 | 79 | 50 | 131 | HMX3030A192 | ○ |
| 19,30 | 20 | 57 | 79 | 50 | 131 | HMX3030A193 | ○ |
| 19,40 | 20 | 57 | 79 | 50 | 131 | HMX3030A194 | ○ |
| 19,50 | 20 | 57 | 79 | 50 | 131 | HMX3030A195 | ○ |
| 19,60 | 20 | 57 | 79 | 50 | 131 | HMX3030A196 | ○ |
| 19,70 | 20 | 57 | 79 | 50 | 131 | HMX3030A197 | ○ |
| 19,80 | 20 | 57 | 79 | 50 | 131 | HMX3030A198 | ○ |
| 19,90 | 20 | 57 | 79 | 50 | 131 | HMX3030A199 | ○ |
| 20,00 | 20 | 57 | 79 | 50 | 131 | HMX3030A200 | ○ |

3031A

Punta 3xD con fori
3xD Drill with internal coolant
3xD Bohrer mit IK
3xD Foret avec trous de lubrification



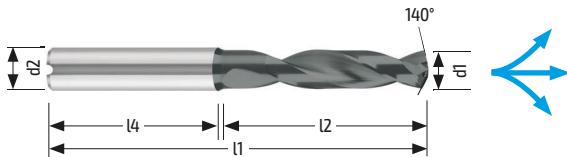
DIN
6537K

DIN
6535 HA
(Standard)



P

K



| 140° | d1 m7 | d2 h6 | l_u | l₂ | l₄ | l₁ | X-Pro Coating | Stock |
|-------------|-----------------|-----------------|----------------------|----------------------|----------------------|----------------------|-------------------------|--------------|
| | 3,00 | 6 | 14 | 20 | 36 | 62 | HMX3031A030 | ● |
| | 3,10 | 6 | 14 | 20 | 36 | 62 | HMX3031A031 | ● |
| | 3,20 | 6 | 14 | 20 | 36 | 62 | HMX3031A032 | ● |
| | 3,30 | 6 | 14 | 20 | 36 | 62 | HMX3031A033 | ● |
| | 3,40 | 6 | 14 | 20 | 36 | 62 | HMX3031A034 | ● |
| | 3,50 | 6 | 14 | 20 | 36 | 62 | HMX3031A035 | ● |
| | 3,60 | 6 | 14 | 20 | 36 | 62 | HMX3031A036 | ● |
| | 3,70 | 6 | 14 | 20 | 36 | 62 | HMX3031A037 | ● |
| | 3,80 | 6 | 17 | 24 | 36 | 66 | HMX3031A038 | ● |
| | 3,90 | 6 | 17 | 24 | 36 | 66 | HMX3031A039 | ● |
| | 4,00 | 6 | 17 | 24 | 36 | 66 | HMX3031A040 | ● |
| | 4,10 | 6 | 17 | 24 | 36 | 66 | HMX3031A041 | ● |
| | 4,20 | 6 | 17 | 24 | 36 | 66 | HMX3031A042 | ● |
| | 4,30 | 6 | 17 | 24 | 36 | 66 | HMX3031A043 | ● |
| | 4,40 | 6 | 17 | 24 | 36 | 66 | HMX3031A044 | ● |
| | 4,50 | 6 | 17 | 24 | 36 | 66 | HMX3031A045 | ● |
| | 4,60 | 6 | 17 | 24 | 36 | 66 | HMX3031A046 | ● |
| | 4,70 | 6 | 17 | 24 | 36 | 66 | HMX3031A047 | ● |
| | 4,80 | 6 | 20 | 28 | 36 | 66 | HMX3031A048 | ● |
| | 4,90 | 6 | 20 | 28 | 36 | 66 | HMX3031A049 | ● |
| | 5,00 | 6 | 20 | 28 | 36 | 66 | HMX3031A050 | ● |
| | 5,10 | 6 | 20 | 28 | 36 | 66 | HMX3031A051 | ● |
| | 5,20 | 6 | 20 | 28 | 36 | 66 | HMX3031A052 | ● |
| | 5,30 | 6 | 20 | 28 | 36 | 66 | HMX3031A053 | ● |
| | 5,40 | 6 | 20 | 28 | 36 | 66 | HMX3031A054 | ● |
| | 5,50 | 6 | 20 | 28 | 36 | 66 | HMX3031A055 | ● |
| | 5,60 | 6 | 20 | 28 | 36 | 66 | HMX3031A056 | ● |
| | 5,70 | 6 | 20 | 28 | 36 | 66 | HMX3031A057 | ● |
| | 5,80 | 6 | 20 | 28 | 36 | 66 | HMX3031A058 | ● |
| | 5,90 | 6 | 20 | 28 | 36 | 66 | HMX3031A059 | ● |
| | 6,00 | 6 | 20 | 28 | 36 | 66 | HMX3031A060 | ● |
| | 6,10 | 8 | 24 | 34 | 36 | 79 | HMX3031A061 | ● |
| | 6,20 | 8 | 24 | 34 | 36 | 79 | HMX3031A062 | ● |
| | 6,30 | 8 | 24 | 34 | 36 | 79 | HMX3031A063 | ● |
| | 6,40 | 8 | 24 | 34 | 36 | 79 | HMX3031A064 | ● |
| | 6,50 | 8 | 24 | 34 | 36 | 79 | HMX3031A065 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

● Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-------------------------|--------------|
| 6,60 | 8 | 24 | 34 | 36 | 79 | HMX3031A066 | ● |
| 6,70 | 8 | 24 | 34 | 36 | 79 | HMX3031A067 | ● |
| 6,80 | 8 | 24 | 34 | 36 | 79 | HMX3031A068 | ● |
| 6,90 | 8 | 24 | 34 | 36 | 79 | HMX3031A069 | ● |
| 7,00 | 8 | 24 | 34 | 36 | 79 | HMX3031A070 | ● |
| 7,10 | 8 | 29 | 41 | 36 | 79 | HMX3031A071 | ● |
| 7,20 | 8 | 29 | 41 | 36 | 79 | HMX3031A072 | ● |
| 7,30 | 8 | 29 | 41 | 36 | 79 | HMX3031A073 | ● |
| 7,40 | 8 | 29 | 41 | 36 | 79 | HMX3031A074 | ● |
| 7,50 | 8 | 29 | 41 | 36 | 79 | HMX3031A075 | ● |
| 7,60 | 8 | 29 | 41 | 36 | 79 | HMX3031A076 | ● |
| 7,70 | 8 | 29 | 41 | 36 | 79 | HMX3031A077 | ● |
| 7,80 | 8 | 29 | 41 | 36 | 79 | HMX3031A078 | ● |
| 7,90 | 8 | 29 | 41 | 36 | 79 | HMX3031A079 | ● |
| 8,00 | 8 | 29 | 41 | 36 | 79 | HMX3031A080 | ● |
| 8,10 | 10 | 35 | 47 | 40 | 89 | HMX3031A081 | ● |
| 8,20 | 10 | 35 | 47 | 40 | 89 | HMX3031A082 | ● |
| 8,30 | 10 | 35 | 47 | 40 | 89 | HMX3031A083 | ● |
| 8,40 | 10 | 35 | 47 | 40 | 89 | HMX3031A084 | ● |
| 8,50 | 10 | 35 | 47 | 40 | 89 | HMX3031A085 | ● |
| 8,60 | 10 | 35 | 47 | 40 | 89 | HMX3031A086 | ● |
| 8,70 | 10 | 35 | 47 | 40 | 89 | HMX3031A087 | ● |
| 8,80 | 10 | 35 | 47 | 40 | 89 | HMX3031A088 | ● |
| 8,90 | 10 | 35 | 47 | 40 | 89 | HMX3031A089 | ● |
| 9,00 | 10 | 35 | 47 | 40 | 89 | HMX3031A090 | ● |
| 9,10 | 10 | 35 | 47 | 40 | 89 | HMX3031A091 | ● |
| 9,20 | 10 | 35 | 47 | 40 | 89 | HMX3031A092 | ● |
| 9,30 | 10 | 35 | 47 | 40 | 89 | HMX3031A093 | ● |
| 9,40 | 10 | 35 | 47 | 40 | 89 | HMX3031A094 | ● |
| 9,50 | 10 | 35 | 47 | 40 | 89 | HMX3031A095 | ● |
| 9,60 | 10 | 35 | 47 | 40 | 89 | HMX3031A096 | ● |
| 9,70 | 10 | 35 | 47 | 40 | 89 | HMX3031A097 | ● |
| 9,80 | 10 | 35 | 47 | 40 | 89 | HMX3031A098 | ● |
| 9,90 | 10 | 35 | 47 | 40 | 89 | HMX3031A099 | ● |
| 10,00 | 10 | 35 | 47 | 40 | 89 | HMX3031A100 | ● |
| 10,10 | 12 | 40 | 55 | 45 | 102 | HMX3031A101 | ● |
| 10,20 | 12 | 40 | 55 | 45 | 102 | HMX3031A102 | ● |
| 10,30 | 12 | 40 | 55 | 45 | 102 | HMX3031A103 | ● |
| 10,40 | 12 | 40 | 55 | 45 | 102 | HMX3031A104 | ● |
| 10,50 | 12 | 40 | 55 | 45 | 102 | HMX3031A105 | ● |
| 10,60 | 12 | 40 | 55 | 45 | 102 | HMX3031A106 | ● |
| 10,70 | 12 | 40 | 55 | 45 | 102 | HMX3031A107 | ● |
| 10,80 | 12 | 40 | 55 | 45 | 102 | HMX3031A108 | ● |
| 10,90 | 12 | 40 | 55 | 45 | 102 | HMX3031A109 | ● |
| 11,00 | 12 | 40 | 55 | 45 | 102 | HMX3031A110 | ● |
| 11,10 | 12 | 40 | 55 | 45 | 102 | HMX3031A111 | ● |
| 11,20 | 12 | 40 | 55 | 45 | 102 | HMX3031A112 | ● |
| 11,30 | 12 | 40 | 55 | 45 | 102 | HMX3031A113 | ● |
| 11,40 | 12 | 40 | 55 | 45 | 102 | HMX3031A114 | ● |
| 11,50 | 12 | 40 | 55 | 45 | 102 | HMX3031A115 | ● |
| 11,60 | 12 | 40 | 55 | 45 | 102 | HMX3031A116 | ● |
| 11,70 | 12 | 40 | 55 | 45 | 102 | HMX3031A117 | ● |
| 11,80 | 12 | 40 | 55 | 45 | 102 | HMX3031A118 | ● |
| 11,90 | 12 | 40 | 55 | 45 | 102 | HMX3031A119 | ● |
| 12,00 | 12 | 40 | 55 | 45 | 102 | HMX3031A120 | ● |
| 12,10 | 14 | 43 | 60 | 45 | 107 | HMX3031A121 | ● |
| 12,20 | 14 | 43 | 60 | 45 | 107 | HMX3031A122 | ● |
| 12,30 | 14 | 43 | 60 | 45 | 107 | HMX3031A123 | ○ |
| 12,40 | 14 | 43 | 60 | 45 | 107 | HMX3031A124 | ○ |
| 12,50 | 14 | 43 | 60 | 45 | 107 | HMX3031A125 | ○ |
| 12,60 | 14 | 43 | 60 | 45 | 107 | HMX3031A126 | ○ |
| 12,70 | 14 | 43 | 60 | 45 | 107 | HMX3031A127 | ○ |
| 12,80 | 14 | 43 | 60 | 45 | 107 | HMX3031A128 | ● |
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3031A

Punta 3xD con fori

3xD Drill with internal coolant

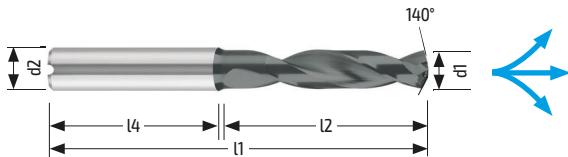
3xD Bohrer mit IK

3xD Foret avec trous de lubrification

DIN
6535 HA
(Standard)

P

K



| 140° | d1 m7 | d2 h6 | l1 | l2 | l4 | l1 | X-Pro Coating | Stock |
|-------------|-----------------|-----------------|-----------|-----------|-----------|-----------|-------------------------|--------------|
| | 13,00 | 14 | 43 | 60 | 45 | 107 | HMX3031A130 | ● |
| | 13,10 | 14 | 43 | 60 | 45 | 107 | HMX3031A131 | ○ |
| | 13,20 | 14 | 43 | 60 | 45 | 107 | HMX3031A132 | ○ |
| | 13,30 | 14 | 43 | 60 | 45 | 107 | HMX3031A133 | ○ |
| | 13,40 | 14 | 43 | 60 | 45 | 107 | HMX3031A134 | ○ |
| | 13,50 | 14 | 43 | 60 | 45 | 107 | HMX3031A135 | ○ |
| | 13,60 | 14 | 43 | 60 | 45 | 107 | HMX3031A136 | ○ |
| | 13,70 | 14 | 43 | 60 | 45 | 107 | HMX3031A137 | ○ |
| | 13,80 | 14 | 43 | 60 | 45 | 107 | HMX3031A138 | ● |
| | 13,90 | 14 | 43 | 60 | 45 | 107 | HMX3031A139 | ○ |
| | 14,00 | 14 | 43 | 60 | 45 | 107 | HMX3031A140 | ● |
| | 14,10 | 16 | 45 | 65 | 48 | 115 | HMX3031A141 | ○ |
| | 14,20 | 16 | 45 | 65 | 48 | 115 | HMX3031A142 | ● |
| | 14,30 | 16 | 45 | 65 | 48 | 115 | HMX3031A143 | ○ |
| | 14,40 | 16 | 45 | 65 | 48 | 115 | HMX3031A144 | ○ |
| | 14,50 | 16 | 45 | 65 | 48 | 115 | HMX3031A145 | ● |
| | 14,60 | 16 | 45 | 65 | 48 | 115 | HMX3031A146 | ○ |
| | 14,70 | 16 | 45 | 65 | 48 | 115 | HMX3031A147 | ○ |
| | 14,80 | 16 | 45 | 65 | 48 | 115 | HMX3031A148 | ● |
| | 14,90 | 16 | 45 | 65 | 48 | 115 | HMX3031A149 | ○ |
| | 15,00 | 16 | 45 | 65 | 48 | 115 | HMX3031A150 | ● |
| | 15,10 | 16 | 45 | 65 | 48 | 115 | HMX3031A151 | ○ |
| | 15,20 | 16 | 45 | 65 | 48 | 115 | HMX3031A152 | ○ |
| | 15,30 | 16 | 45 | 65 | 48 | 115 | HMX3031A153 | ○ |
| | 15,40 | 16 | 45 | 65 | 48 | 115 | HMX3031A154 | ○ |
| | 15,50 | 16 | 45 | 65 | 48 | 115 | HMX3031A155 | ● |
| | 15,60 | 16 | 45 | 65 | 48 | 115 | HMX3031A156 | ○ |
| | 15,70 | 16 | 45 | 65 | 48 | 115 | HMX3031A157 | ○ |
| | 15,80 | 16 | 45 | 65 | 48 | 115 | HMX3031A158 | ● |
| | 15,90 | 16 | 45 | 65 | 48 | 115 | HMX3031A159 | ○ |
| | 16,00 | 16 | 45 | 65 | 48 | 115 | HMX3031A160 | ● |
| | 16,10 | 18 | 52 | 73 | 48 | 123 | HMX3031A161 | ○ |
| | 16,20 | 18 | 52 | 73 | 48 | 123 | HMX3031A162 | ○ |
| | 16,30 | 18 | 52 | 73 | 48 | 123 | HMX3031A163 | ○ |
| | 16,40 | 18 | 52 | 73 | 48 | 123 | HMX3031A164 | ○ |
| | 16,50 | 18 | 52 | 73 | 48 | 123 | HMX3031A165 | ● |
| | 16,60 | 18 | 52 | 73 | 48 | 123 | HMX3031A166 | ○ |
| | 16,70 | 18 | 52 | 73 | 48 | 123 | HMX3031A167 | ○ |
| | 16,80 | 18 | 52 | 73 | 48 | 123 | HMX3031A168 | ○ |
| | 16,90 | 18 | 52 | 73 | 48 | 123 | HMX3031A169 | ○ |
| | 17,00 | 18 | 52 | 73 | 48 | 123 | HMX3031A170 | ● |
| | 17,10 | 18 | 52 | 73 | 48 | 123 | HMX3031A171 | ○ |
| | 17,20 | 18 | 52 | 73 | 48 | 123 | HMX3031A172 | ○ |
| | 17,30 | 18 | 52 | 73 | 48 | 123 | HMX3031A173 | ○ |
| | 17,40 | 18 | 52 | 73 | 48 | 123 | HMX3031A174 | ○ |
| | 17,50 | 18 | 52 | 73 | 48 | 123 | HMX3031A175 | ● |
| | 17,60 | 18 | 52 | 73 | 48 | 123 | HMX3031A176 | ○ |
| | 17,70 | 18 | 52 | 73 | 48 | 123 | HMX3031A177 | ○ |

140°

| d1 m7 | d2 h6 | l1 | l2 | l4 | l1 | X-Pro Coating | Stock |
|----------|----------|----|----|----|-----|------------------|----------------------------------|
| 17,80 | 18 | 52 | 73 | 48 | 123 | HMX3031A178 | <input type="radio"/> |
| 17,90 | 18 | 52 | 73 | 48 | 123 | HMX3031A179 | <input type="radio"/> |
| 18,00 | 18 | 52 | 73 | 48 | 123 | HMX3031A180 | <input checked="" type="radio"/> |
| 18,10 | 20 | 57 | 79 | 50 | 131 | HMX3031A181 | <input type="radio"/> |
| 18,20 | 20 | 57 | 79 | 50 | 131 | HMX3031A182 | <input type="radio"/> |
| 18,30 | 20 | 57 | 79 | 50 | 131 | HMX3031A183 | <input type="radio"/> |
| 18,40 | 20 | 57 | 79 | 50 | 131 | HMX3031A184 | <input type="radio"/> |
| 18,50 | 20 | 57 | 79 | 50 | 131 | HMX3031A185 | <input checked="" type="radio"/> |
| 18,60 | 20 | 57 | 79 | 50 | 131 | HMX3031A186 | <input type="radio"/> |
| 18,70 | 20 | 57 | 79 | 50 | 131 | HMX3031A187 | <input type="radio"/> |
| 18,80 | 20 | 57 | 79 | 50 | 131 | HMX3031A188 | <input type="radio"/> |
| 18,90 | 20 | 57 | 79 | 50 | 131 | HMX3031A189 | <input type="radio"/> |
| 19,00 | 20 | 57 | 79 | 50 | 131 | HMX3031A190 | <input checked="" type="radio"/> |
| 19,10 | 20 | 57 | 79 | 50 | 131 | HMX3031A191 | <input type="radio"/> |
| 19,20 | 20 | 57 | 79 | 50 | 131 | HMX3031A192 | <input type="radio"/> |
| 19,30 | 20 | 57 | 79 | 50 | 131 | HMX3031A193 | <input type="radio"/> |
| 19,40 | 20 | 57 | 79 | 50 | 131 | HMX3031A194 | <input type="radio"/> |
| 19,50 | 20 | 57 | 79 | 50 | 131 | HMX3031A195 | <input checked="" type="radio"/> |
| 19,60 | 20 | 57 | 79 | 50 | 131 | HMX3031A196 | <input type="radio"/> |
| 19,70 | 20 | 57 | 79 | 50 | 131 | HMX3031A197 | <input type="radio"/> |
| 19,80 | 20 | 57 | 79 | 50 | 131 | HMX3031A198 | <input type="radio"/> |
| 19,90 | 20 | 57 | 79 | 50 | 131 | HMX3031A199 | <input type="radio"/> |
| 20,00 | 20 | 57 | 79 | 50 | 131 | HMX3031A200 | <input checked="" type="radio"/> |

Notes _____

3050A

Punta 5xD senza fori
5xD Drill without internal coolant
5xD Bohrer ohne IK
5xD Foret sans trous de lubrification



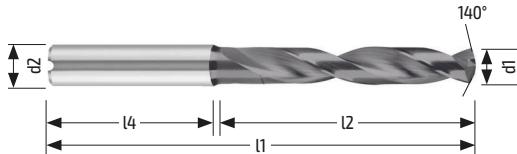
DIN
6537L

DIN
6535 HA
(Standard)



P

K



| 140° | d1 m7 | d2 h6 | l1 | l2 | l4 | l1 | X-Pro Coating | Stock |
|------|----------|----------|----|----|----|----|------------------|-------|
| | 3,00 | 6 | 23 | 27 | 36 | 66 | HMX3050A030 | ● |
| | 3,10 | 6 | 23 | 27 | 36 | 66 | HMX3050A031 | ● |
| | 3,20 | 6 | 23 | 27 | 36 | 66 | HMX3050A032 | ● |
| | 3,30 | 6 | 23 | 27 | 36 | 66 | HMX3050A033 | ● |
| | 3,40 | 6 | 23 | 27 | 36 | 66 | HMX3050A034 | ● |
| | 3,50 | 6 | 23 | 27 | 36 | 66 | HMX3050A035 | ● |
| | 3,60 | 6 | 23 | 27 | 36 | 66 | HMX3050A036 | ● |
| | 3,70 | 6 | 23 | 27 | 36 | 66 | HMX3050A037 | ● |
| | 3,80 | 6 | 29 | 36 | 36 | 74 | HMX3050A038 | ● |
| | 3,90 | 6 | 29 | 36 | 36 | 74 | HMX3050A039 | ● |
| | 4,00 | 6 | 29 | 36 | 36 | 74 | HMX3050A040 | ● |
| | 4,10 | 6 | 29 | 36 | 36 | 74 | HMX3050A041 | ● |
| | 4,20 | 6 | 29 | 36 | 36 | 74 | HMX3050A042 | ● |
| | 4,30 | 6 | 29 | 36 | 36 | 74 | HMX3050A043 | ● |
| | 4,40 | 6 | 29 | 36 | 36 | 74 | HMX3050A044 | ● |
| | 4,50 | 6 | 29 | 36 | 36 | 74 | HMX3050A045 | ● |
| | 4,60 | 6 | 29 | 36 | 36 | 74 | HMX3050A046 | ● |
| | 4,70 | 6 | 29 | 36 | 36 | 74 | HMX3050A047 | ● |
| | 4,80 | 6 | 35 | 44 | 36 | 82 | HMX3050A048 | ● |
| | 4,90 | 6 | 35 | 44 | 36 | 82 | HMX3050A049 | ● |
| | 5,00 | 6 | 35 | 44 | 36 | 82 | HMX3050A050 | ● |
| | 5,10 | 6 | 35 | 44 | 36 | 82 | HMX3050A051 | ● |
| | 5,20 | 6 | 35 | 44 | 36 | 82 | HMX3050A052 | ● |
| | 5,30 | 6 | 35 | 44 | 36 | 82 | HMX3050A053 | ● |
| | 5,40 | 6 | 35 | 44 | 36 | 82 | HMX3050A054 | ● |
| | 5,50 | 6 | 35 | 44 | 36 | 82 | HMX3050A055 | ● |
| | 5,60 | 6 | 35 | 44 | 36 | 82 | HMX3050A056 | ● |
| | 5,70 | 6 | 35 | 44 | 36 | 82 | HMX3050A057 | ● |
| | 5,80 | 6 | 35 | 44 | 36 | 82 | HMX3050A058 | ● |
| | 5,90 | 6 | 35 | 44 | 36 | 82 | HMX3050A059 | ● |
| | 6,00 | 6 | 35 | 44 | 36 | 82 | HMX3050A060 | ● |
| | 6,10 | 8 | 43 | 53 | 36 | 91 | HMX3050A061 | ● |
| | 6,20 | 8 | 43 | 53 | 36 | 91 | HMX3050A062 | ○ |
| | 6,30 | 8 | 43 | 53 | 36 | 91 | HMX3050A063 | ● |
| | 6,40 | 8 | 43 | 53 | 36 | 91 | HMX3050A064 | ○ |
| | 6,50 | 8 | 43 | 53 | 36 | 91 | HMX3050A065 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|----------|----------|----|----|----|-----|------------------|-------|
| 6,60 | 8 | 43 | 53 | 36 | 91 | HMX3050A066 | ○ |
| 6,70 | 8 | 43 | 53 | 36 | 91 | HMX3050A067 | ○ |
| 6,80 | 8 | 43 | 53 | 36 | 91 | HMX3050A068 | ● |
| 6,90 | 8 | 43 | 53 | 36 | 91 | HMX3050A069 | ● |
| 7,00 | 8 | 43 | 53 | 36 | 91 | HMX3050A070 | ● |
| 7,10 | 8 | 43 | 53 | 36 | 91 | HMX3050A071 | ○ |
| 7,20 | 8 | 43 | 53 | 36 | 91 | HMX3050A072 | ○ |
| 7,30 | 8 | 43 | 53 | 36 | 91 | HMX3050A073 | ○ |
| 7,40 | 8 | 43 | 53 | 36 | 91 | HMX3050A074 | ● |
| 7,50 | 8 | 43 | 53 | 36 | 91 | HMX3050A075 | ● |
| 7,60 | 8 | 43 | 53 | 36 | 91 | HMX3050A076 | ○ |
| 7,70 | 8 | 43 | 53 | 36 | 91 | HMX3050A077 | ○ |
| 7,80 | 8 | 43 | 53 | 36 | 91 | HMX3050A078 | ● |
| 7,90 | 8 | 43 | 53 | 36 | 91 | HMX3050A079 | ○ |
| 8,00 | 8 | 43 | 53 | 36 | 91 | HMX3050A080 | ● |
| 8,10 | 10 | 49 | 61 | 40 | 103 | HMX3050A081 | ○ |
| 8,20 | 10 | 49 | 61 | 40 | 103 | HMX3050A082 | ○ |
| 8,30 | 10 | 49 | 61 | 40 | 103 | HMX3050A083 | ○ |
| 8,40 | 10 | 49 | 61 | 40 | 103 | HMX3050A084 | ○ |
| 8,50 | 10 | 49 | 61 | 40 | 103 | HMX3050A085 | ● |
| 8,60 | 10 | 49 | 61 | 40 | 103 | HMX3050A086 | ● |
| 8,70 | 10 | 49 | 61 | 40 | 103 | HMX3050A087 | ● |
| 8,80 | 10 | 49 | 61 | 40 | 103 | HMX3050A088 | ● |
| 8,90 | 10 | 49 | 61 | 40 | 103 | HMX3050A089 | ● |
| 9,00 | 10 | 49 | 61 | 40 | 103 | HMX3050A090 | ● |
| 9,10 | 10 | 49 | 61 | 40 | 103 | HMX3050A091 | ○ |
| 9,20 | 10 | 49 | 61 | 40 | 103 | HMX3050A092 | ○ |
| 9,30 | 10 | 49 | 61 | 40 | 103 | HMX3050A093 | ● |
| 9,40 | 10 | 49 | 61 | 40 | 103 | HMX3050A094 | ○ |
| 9,50 | 10 | 49 | 61 | 40 | 103 | HMX3050A095 | ● |
| 9,60 | 10 | 49 | 61 | 40 | 103 | HMX3050A096 | ○ |
| 9,70 | 10 | 49 | 61 | 40 | 103 | HMX3050A097 | ○ |
| 9,80 | 10 | 49 | 61 | 40 | 103 | HMX3050A098 | ● |
| 9,90 | 10 | 49 | 61 | 40 | 103 | HMX3050A099 | ○ |
| 10,00 | 10 | 49 | 61 | 40 | 103 | HMX3050A100 | ● |
| 10,10 | 12 | 56 | 71 | 45 | 118 | HMX3050A101 | ○ |
| 10,20 | 12 | 56 | 71 | 45 | 118 | HMX3050A102 | ● |
| 10,30 | 12 | 56 | 71 | 45 | 118 | HMX3050A103 | ○ |
| 10,40 | 12 | 56 | 71 | 45 | 118 | HMX3050A104 | ○ |
| 10,50 | 12 | 56 | 71 | 45 | 118 | HMX3050A105 | ● |
| 10,60 | 12 | 56 | 71 | 45 | 118 | HMX3050A106 | ● |
| 10,70 | 12 | 56 | 71 | 45 | 118 | HMX3050A107 | ○ |
| 10,80 | 12 | 56 | 71 | 45 | 118 | HMX3050A108 | ● |
| 10,90 | 12 | 56 | 71 | 45 | 118 | HMX3050A109 | ○ |
| 11,00 | 12 | 56 | 71 | 45 | 118 | HMX3050A110 | ● |
| 11,10 | 12 | 56 | 71 | 45 | 118 | HMX3050A111 | ○ |
| 11,20 | 12 | 56 | 71 | 45 | 118 | HMX3050A112 | ● |
| 11,30 | 12 | 56 | 71 | 45 | 118 | HMX3050A113 | ○ |
| 11,40 | 12 | 56 | 71 | 45 | 118 | HMX3050A114 | ○ |
| 11,50 | 12 | 56 | 71 | 45 | 118 | HMX3050A115 | ● |
| 11,60 | 12 | 56 | 71 | 45 | 118 | HMX3050A116 | ○ |
| 11,70 | 12 | 56 | 71 | 45 | 118 | HMX3050A117 | ○ |
| 11,80 | 12 | 56 | 71 | 45 | 118 | HMX3050A118 | ● |
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| 12,00 | 12 | 56 | 71 | 45 | 118 | HMX3050A120 | ● |
| 12,10 | 14 | 60 | 77 | 45 | 124 | HMX3050A121 | ○ |
| 12,20 | 14 | 60 | 77 | 45 | 124 | HMX3050A122 | ● |
| 12,30 | 14 | 60 | 77 | 45 | 124 | HMX3050A123 | ○ |
| 12,40 | 14 | 60 | 77 | 45 | 124 | HMX3050A124 | ○ |
| 12,50 | 14 | 60 | 77 | 45 | 124 | HMX3050A125 | ● |
| 12,60 | 14 | 60 | 77 | 45 | 124 | HMX3050A126 | ● |
| 12,70 | 14 | 60 | 77 | 45 | 124 | HMX3050A127 | ● |
| 12,80 | 14 | 60 | 77 | 45 | 124 | HMX3050A128 | ● |
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3050A

Punta 5xD senza fori

5xD Drill without internal coolant

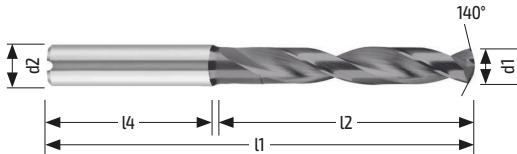
5xD Bohrer ohne IK

5xD Foret sans trous de lubrification

DIN
6537LDIN
6535 HA
(Standard)

P

K



|  140° | d1 mm | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | X-Pro Coating | Stock |
|--|----------|----------|----------------|----------------|----------------|----------------|------------------|-------|
| | 13,00 | 14 | 60 | 77 | 45 | 124 | HMX3050A130 | ● |
| | 13,10 | 14 | 60 | 77 | 45 | 124 | HMX3050A131 | ○ |
| | 13,20 | 14 | 60 | 77 | 45 | 124 | HMX3050A132 | ○ |
| | 13,30 | 14 | 60 | 77 | 45 | 124 | HMX3050A133 | ○ |
| | 13,40 | 14 | 60 | 77 | 45 | 124 | HMX3050A134 | ○ |
| | 13,50 | 14 | 60 | 77 | 45 | 124 | HMX3050A135 | ● |
| | 13,60 | 14 | 60 | 77 | 45 | 124 | HMX3050A136 | ○ |
| | 13,70 | 14 | 60 | 77 | 45 | 124 | HMX3050A137 | ○ |
| | 13,80 | 14 | 60 | 77 | 45 | 124 | HMX3050A138 | ● |
| | 13,90 | 14 | 60 | 77 | 45 | 124 | HMX3050A139 | ○ |
| | 14,00 | 14 | 60 | 77 | 45 | 124 | HMX3050A140 | ● |
| | 14,10 | 16 | 63 | 83 | 48 | 133 | HMX3050A141 | ○ |
| | 14,20 | 16 | 63 | 83 | 48 | 133 | HMX3050A142 | ○ |
| | 14,30 | 16 | 63 | 83 | 48 | 133 | HMX3050A143 | ○ |
| | 14,40 | 16 | 63 | 83 | 48 | 133 | HMX3050A144 | ○ |
| | 14,50 | 16 | 63 | 83 | 48 | 133 | HMX3050A145 | ● |
| | 14,60 | 16 | 63 | 83 | 48 | 133 | HMX3050A146 | ○ |
| | 14,70 | 16 | 63 | 83 | 48 | 133 | HMX3050A147 | ○ |
| | 14,80 | 16 | 63 | 83 | 48 | 133 | HMX3050A148 | ● |
| | 14,90 | 16 | 63 | 83 | 48 | 133 | HMX3050A149 | ○ |
| | 15,00 | 16 | 63 | 83 | 48 | 133 | HMX3050A150 | ● |
| | 15,10 | 16 | 63 | 83 | 48 | 133 | HMX3050A151 | ○ |
| | 15,20 | 16 | 63 | 83 | 48 | 133 | HMX3050A152 | ○ |
| | 15,30 | 16 | 63 | 83 | 48 | 133 | HMX3050A153 | ○ |
| | 15,40 | 16 | 63 | 83 | 48 | 133 | HMX3050A154 | ○ |
| | 15,50 | 16 | 63 | 83 | 48 | 133 | HMX3050A155 | ● |
| | 15,60 | 16 | 63 | 83 | 48 | 133 | HMX3050A156 | ○ |
| | 15,70 | 16 | 63 | 83 | 48 | 133 | HMX3050A157 | ○ |
| | 15,80 | 16 | 63 | 83 | 48 | 133 | HMX3050A158 | ● |
| | 15,90 | 16 | 63 | 83 | 48 | 133 | HMX3050A159 | ○ |
| | 16,00 | 16 | 63 | 83 | 48 | 133 | HMX3050A160 | ● |
| | 16,10 | 18 | 72 | 93 | 48 | 143 | HMX3050A161 | ○ |
| | 16,20 | 18 | 72 | 93 | 48 | 143 | HMX3050A162 | ○ |
| | 16,30 | 18 | 72 | 93 | 48 | 143 | HMX3050A163 | ○ |
| | 16,40 | 18 | 72 | 93 | 48 | 143 | HMX3050A164 | ○ |
| | 16,50 | 18 | 72 | 93 | 48 | 143 | HMX3050A165 | ○ |
| | 16,60 | 18 | 72 | 93 | 48 | 143 | HMX3050A166 | ○ |
| | 16,70 | 18 | 72 | 93 | 48 | 143 | HMX3050A167 | ○ |
| | 16,80 | 18 | 72 | 93 | 48 | 143 | HMX3050A168 | ○ |
| | 16,90 | 18 | 72 | 93 | 48 | 143 | HMX3050A169 | ○ |
| | 17,00 | 18 | 72 | 93 | 48 | 143 | HMX3050A170 | ○ |
| | 17,10 | 18 | 72 | 93 | 48 | 143 | HMX3050A171 | ○ |
| | 17,20 | 18 | 72 | 93 | 48 | 143 | HMX3050A172 | ○ |
| | 17,30 | 18 | 72 | 93 | 48 | 143 | HMX3050A173 | ○ |
| | 17,40 | 18 | 72 | 93 | 48 | 143 | HMX3050A174 | ○ |
| | 17,50 | 18 | 72 | 93 | 48 | 143 | HMX3050A175 | ○ |
| | 17,60 | 18 | 72 | 93 | 48 | 143 | HMX3050A176 | ○ |
| | 17,70 | 18 | 72 | 93 | 48 | 143 | HMX3050A177 | ○ |

140°

| d1 m7 | d2 h6 | l1 | l2 | l4 | l1 | X-Pro Coating | Stock |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-------------------------|-----------------------|
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| 17,90 | 18 | 72 | 93 | 48 | 143 | HMX3050A179 | <input type="radio"/> |
| 18,00 | 18 | 72 | 93 | 48 | 143 | HMX3050A180 | <input type="radio"/> |
| 18,10 | 20 | 79 | 101 | 50 | 153 | HMX3050A181 | <input type="radio"/> |
| 18,20 | 20 | 79 | 101 | 50 | 153 | HMX3050A182 | <input type="radio"/> |
| 18,30 | 20 | 79 | 101 | 50 | 153 | HMX3050A183 | <input type="radio"/> |
| 18,40 | 20 | 79 | 101 | 50 | 153 | HMX3050A184 | <input type="radio"/> |
| 18,50 | 20 | 79 | 101 | 50 | 153 | HMX3050A185 | <input type="radio"/> |
| 18,60 | 20 | 79 | 101 | 50 | 153 | HMX3050A186 | <input type="radio"/> |
| 18,70 | 20 | 79 | 101 | 50 | 153 | HMX3050A187 | <input type="radio"/> |
| 18,80 | 20 | 79 | 101 | 50 | 153 | HMX3050A188 | <input type="radio"/> |
| 18,90 | 20 | 79 | 101 | 50 | 153 | HMX3050A189 | <input type="radio"/> |
| 19,00 | 20 | 79 | 101 | 50 | 153 | HMX3050A190 | <input type="radio"/> |
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| 19,20 | 20 | 79 | 101 | 50 | 153 | HMX3050A192 | <input type="radio"/> |
| 19,30 | 20 | 79 | 101 | 50 | 153 | HMX3050A193 | <input type="radio"/> |
| 19,40 | 20 | 79 | 101 | 50 | 153 | HMX3050A194 | <input type="radio"/> |
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| 19,60 | 20 | 79 | 101 | 50 | 153 | HMX3050A196 | <input type="radio"/> |
| 19,70 | 20 | 79 | 101 | 50 | 153 | HMX3050A197 | <input type="radio"/> |
| 19,80 | 20 | 79 | 101 | 50 | 153 | HMX3050A198 | <input type="radio"/> |
| 19,90 | 20 | 79 | 101 | 50 | 153 | HMX3050A199 | <input type="radio"/> |
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Notes _____

3051A

Punta 5xD con fori

5xD Drill with internal coolant

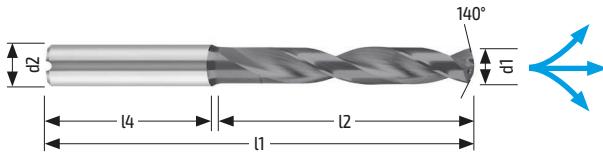
5xD Bohrer mit IK

5xD Forêt avec trous de lubrification

DIN
6535 HA
(Standard)

P

K



| 140° | d1 m7 | d2 h6 | l_u | l₂ | l₄ | l₁ | X-Pro Coating | Stock |
|-------------|-----------------|-----------------|----------------------|----------------------|----------------------|----------------------|-------------------------|--------------|
| | 3,00 | 6 | 23 | 27 | 36 | 66 | HMX3051A030 | ● |
| | 3,10 | 6 | 23 | 27 | 36 | 66 | HMX3051A031 | ● |
| | 3,20 | 6 | 23 | 27 | 36 | 66 | HMX3051A032 | ● |
| | 3,30 | 6 | 23 | 27 | 36 | 66 | HMX3051A033 | ● |
| | 3,40 | 6 | 23 | 27 | 36 | 66 | HMX3051A034 | ● |
| | 3,50 | 6 | 23 | 27 | 36 | 66 | HMX3051A035 | ● |
| | 3,60 | 6 | 23 | 27 | 36 | 66 | HMX3051A036 | ● |
| | 3,70 | 6 | 23 | 27 | 36 | 66 | HMX3051A037 | ● |
| | 3,80 | 6 | 29 | 36 | 36 | 74 | HMX3051A038 | ● |
| | 3,90 | 6 | 29 | 36 | 36 | 74 | HMX3051A039 | ● |
| | 4,00 | 6 | 29 | 36 | 36 | 74 | HMX3051A040 | ● |
| | 4,10 | 6 | 29 | 36 | 36 | 74 | HMX3051A041 | ● |
| | 4,20 | 6 | 29 | 36 | 36 | 74 | HMX3051A042 | ● |
| | 4,30 | 6 | 29 | 36 | 36 | 74 | HMX3051A043 | ● |
| | 4,40 | 6 | 29 | 36 | 36 | 74 | HMX3051A044 | ● |
| | 4,50 | 6 | 29 | 36 | 36 | 74 | HMX3051A045 | ● |
| | 4,60 | 6 | 29 | 36 | 36 | 74 | HMX3051A046 | ● |
| | 4,70 | 6 | 29 | 36 | 36 | 74 | HMX3051A047 | ● |
| | 4,80 | 6 | 35 | 44 | 36 | 82 | HMX3051A048 | ● |
| | 4,90 | 6 | 35 | 44 | 36 | 82 | HMX3051A049 | ● |
| | 5,00 | 6 | 35 | 44 | 36 | 82 | HMX3051A050 | ● |
| | 5,10 | 6 | 35 | 44 | 36 | 82 | HMX3051A051 | ● |
| | 5,20 | 6 | 35 | 44 | 36 | 82 | HMX3051A052 | ● |
| | 5,30 | 6 | 35 | 44 | 36 | 82 | HMX3051A053 | ● |
| | 5,40 | 6 | 35 | 44 | 36 | 82 | HMX3051A054 | ● |
| | 5,50 | 6 | 35 | 44 | 36 | 82 | HMX3051A055 | ● |
| | 5,60 | 6 | 35 | 44 | 36 | 82 | HMX3051A056 | ● |
| | 5,70 | 6 | 35 | 44 | 36 | 82 | HMX3051A057 | ● |
| | 5,80 | 6 | 35 | 44 | 36 | 82 | HMX3051A058 | ● |
| | 5,90 | 6 | 35 | 44 | 36 | 82 | HMX3051A059 | ● |
| | 6,00 | 6 | 35 | 44 | 36 | 82 | HMX3051A060 | ● |
| | 6,10 | 8 | 43 | 53 | 36 | 91 | HMX3051A061 | ● |
| | 6,20 | 8 | 43 | 53 | 36 | 91 | HMX3051A062 | ● |
| | 6,30 | 8 | 43 | 53 | 36 | 91 | HMX3051A063 | ● |
| | 6,40 | 8 | 43 | 53 | 36 | 91 | HMX3051A064 | ● |
| | 6,50 | 8 | 43 | 53 | 36 | 91 | HMX3051A065 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegn 5 giorni data ordine
Delivery 5 days order date

● Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|----------|----------|----|----|----|-----|------------------|-------|
| 6,60 | 8 | 43 | 53 | 36 | 91 | HMX3051A066 | ● |
| 6,70 | 8 | 43 | 53 | 36 | 91 | HMX3051A067 | ● |
| 6,80 | 8 | 43 | 53 | 36 | 91 | HMX3051A068 | ● |
| 6,90 | 8 | 43 | 53 | 36 | 91 | HMX3051A069 | ● |
| 7,00 | 8 | 43 | 53 | 36 | 91 | HMX3051A070 | ● |
| 7,10 | 8 | 43 | 53 | 36 | 91 | HMX3051A071 | ● |
| 7,20 | 8 | 43 | 53 | 36 | 91 | HMX3051A072 | ● |
| 7,30 | 8 | 43 | 53 | 36 | 91 | HMX3051A073 | ● |
| 7,40 | 8 | 43 | 53 | 36 | 91 | HMX3051A074 | ● |
| 7,50 | 8 | 43 | 53 | 36 | 91 | HMX3051A075 | ● |
| 7,60 | 8 | 43 | 53 | 36 | 91 | HMX3051A076 | ● |
| 7,70 | 8 | 43 | 53 | 36 | 91 | HMX3051A077 | ● |
| 7,80 | 8 | 43 | 53 | 36 | 91 | HMX3051A078 | ● |
| 7,90 | 8 | 43 | 53 | 36 | 91 | HMX3051A079 | ● |
| 8,00 | 8 | 43 | 53 | 36 | 91 | HMX3051A080 | ● |
| 8,10 | 10 | 49 | 61 | 40 | 103 | HMX3051A081 | ● |
| 8,20 | 10 | 49 | 61 | 40 | 103 | HMX3051A082 | ● |
| 8,30 | 10 | 49 | 61 | 40 | 103 | HMX3051A083 | ● |
| 8,40 | 10 | 49 | 61 | 40 | 103 | HMX3051A084 | ● |
| 8,50 | 10 | 49 | 61 | 40 | 103 | HMX3051A085 | ● |
| 8,60 | 10 | 49 | 61 | 40 | 103 | HMX3051A086 | ● |
| 8,70 | 10 | 49 | 61 | 40 | 103 | HMX3051A087 | ● |
| 8,80 | 10 | 49 | 61 | 40 | 103 | HMX3051A088 | ● |
| 8,90 | 10 | 49 | 61 | 40 | 103 | HMX3051A089 | ● |
| 9,00 | 10 | 49 | 61 | 40 | 103 | HMX3051A090 | ● |
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| 9,80 | 10 | 49 | 61 | 40 | 103 | HMX3051A098 | ● |
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| 10,10 | 12 | 56 | 71 | 45 | 118 | HMX3051A101 | ● |
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| 11,40 | 12 | 56 | 71 | 45 | 118 | HMX3051A114 | ● |
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| 11,60 | 12 | 56 | 71 | 45 | 118 | HMX3051A116 | ● |
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| 12,00 | 12 | 56 | 71 | 45 | 118 | HMX3051A120 | ● |
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| 12,30 | 14 | 60 | 77 | 45 | 124 | HMX3051A123 | ● |
| 12,40 | 14 | 60 | 77 | 45 | 124 | HMX3051A124 | ● |
| 12,50 | 14 | 60 | 77 | 45 | 124 | HMX3051A125 | ● |
| 12,60 | 14 | 60 | 77 | 45 | 124 | HMX3051A126 | ● |
| 12,70 | 14 | 60 | 77 | 45 | 124 | HMX3051A127 | ● |
| 12,80 | 14 | 60 | 77 | 45 | 124 | HMX3051A128 | ● |
| 12,90 | 14 | 60 | 77 | 45 | 124 | HMX3051A129 | ● |

3051A

Punta 5xD con fori

5xD Drill with internal coolant

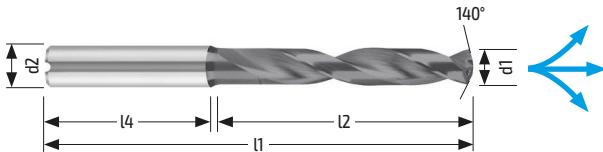
5xD Bohrer mit IK

5xD Forêt avec trous de lubrification

DIN
6537LDIN
6535 HA
(Standard)

P

K



| 140° | d1 m7 | d2 h6 | l_u | l₂ | l₄ | l₁ | X-Pro Coating | Stock |
|-------------|-----------------|-----------------|----------------------|----------------------|----------------------|----------------------|-------------------------|--------------|
| | 13,00 | 14 | 60 | 77 | 45 | 124 | HMX3051A130 | ● |
| | 13,10 | 14 | 60 | 77 | 45 | 124 | HMX3051A131 | ● |
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| | 13,50 | 14 | 60 | 77 | 45 | 124 | HMX3051A135 | ● |
| | 13,60 | 14 | 60 | 77 | 45 | 124 | HMX3051A136 | ○ |
| | 13,70 | 14 | 60 | 77 | 45 | 124 | HMX3051A137 | ○ |
| | 13,80 | 14 | 60 | 77 | 45 | 124 | HMX3051A138 | ● |
| | 13,90 | 14 | 60 | 77 | 45 | 124 | HMX3051A139 | ○ |
| | 14,00 | 14 | 60 | 77 | 45 | 124 | HMX3051A140 | ● |
| | 14,10 | 16 | 63 | 83 | 48 | 133 | HMX3051A141 | ○ |
| | 14,20 | 16 | 63 | 83 | 48 | 133 | HMX3051A142 | ● |
| | 14,30 | 16 | 63 | 83 | 48 | 133 | HMX3051A143 | ○ |
| | 14,40 | 16 | 63 | 83 | 48 | 133 | HMX3051A144 | ○ |
| | 14,50 | 16 | 63 | 83 | 48 | 133 | HMX3051A145 | ● |
| | 14,60 | 16 | 63 | 83 | 48 | 133 | HMX3051A146 | ○ |
| | 14,70 | 16 | 63 | 83 | 48 | 133 | HMX3051A147 | ○ |
| | 14,80 | 16 | 63 | 83 | 48 | 133 | HMX3051A148 | ● |
| | 14,90 | 16 | 63 | 83 | 48 | 133 | HMX3051A149 | ○ |
| | 15,00 | 16 | 63 | 83 | 48 | 133 | HMX3051A150 | ● |
| | 15,10 | 16 | 63 | 83 | 48 | 133 | HMX3051A151 | ○ |
| | 15,20 | 16 | 63 | 83 | 48 | 133 | HMX3051A152 | ● |
| | 15,30 | 16 | 63 | 83 | 48 | 133 | HMX3051A153 | ○ |
| | 15,40 | 16 | 63 | 83 | 48 | 133 | HMX3051A154 | ○ |
| | 15,50 | 16 | 63 | 83 | 48 | 133 | HMX3051A155 | ● |
| | 15,60 | 16 | 63 | 83 | 48 | 133 | HMX3051A156 | ○ |
| | 15,70 | 16 | 63 | 83 | 48 | 133 | HMX3051A157 | ○ |
| | 15,80 | 16 | 63 | 83 | 48 | 133 | HMX3051A158 | ● |
| | 15,90 | 16 | 63 | 83 | 48 | 133 | HMX3051A159 | ○ |
| | 16,00 | 16 | 63 | 83 | 48 | 133 | HMX3051A160 | ● |
| | 16,10 | 18 | 72 | 93 | 48 | 143 | HMX3051A161 | ○ |
| | 16,20 | 18 | 72 | 93 | 48 | 143 | HMX3051A162 | ○ |
| | 16,30 | 18 | 72 | 93 | 48 | 143 | HMX3051A163 | ○ |
| | 16,40 | 18 | 72 | 93 | 48 | 143 | HMX3051A164 | ○ |
| | 16,50 | 18 | 72 | 93 | 48 | 143 | HMX3051A165 | ● |
| | 16,60 | 18 | 72 | 93 | 48 | 143 | HMX3051A166 | ○ |
| | 16,70 | 18 | 72 | 93 | 48 | 143 | HMX3051A167 | ○ |
| | 16,80 | 18 | 72 | 93 | 48 | 143 | HMX3051A168 | ○ |
| | 16,90 | 18 | 72 | 93 | 48 | 143 | HMX3051A169 | ○ |
| | 17,00 | 18 | 72 | 93 | 48 | 143 | HMX3051A170 | ● |
| | 17,10 | 18 | 72 | 93 | 48 | 143 | HMX3051A171 | ○ |
| | 17,20 | 18 | 72 | 93 | 48 | 143 | HMX3051A172 | ○ |
| | 17,30 | 18 | 72 | 93 | 48 | 143 | HMX3051A173 | ○ |
| | 17,40 | 18 | 72 | 93 | 48 | 143 | HMX3051A174 | ○ |
| | 17,50 | 18 | 72 | 93 | 48 | 143 | HMX3051A175 | ● |
| | 17,60 | 18 | 72 | 93 | 48 | 143 | HMX3051A176 | ○ |
| | 17,70 | 18 | 72 | 93 | 48 | 143 | HMX3051A177 | ○ |

140°

| d1 m7 | d2 h6 | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|----------|----------|----|-----|----|-----|------------------|-------|
| 17,80 | 18 | 72 | 93 | 48 | 143 | HMX3051A178 | ○ |
| 17,90 | 18 | 72 | 93 | 48 | 143 | HMX3051A179 | ○ |
| 18,00 | 18 | 72 | 93 | 48 | 143 | HMX3051A180 | ● |
| 18,10 | 20 | 79 | 101 | 50 | 153 | HMX3051A181 | ○ |
| 18,20 | 20 | 79 | 101 | 50 | 153 | HMX3051A182 | ○ |
| 18,30 | 20 | 79 | 101 | 50 | 153 | HMX3051A183 | ○ |
| 18,40 | 20 | 79 | 101 | 50 | 153 | HMX3051A184 | ○ |
| 18,50 | 20 | 79 | 101 | 50 | 153 | HMX3051A185 | ● |
| 18,60 | 20 | 79 | 101 | 50 | 153 | HMX3051A186 | ○ |
| 18,70 | 20 | 79 | 101 | 50 | 153 | HMX3051A187 | ○ |
| 18,80 | 20 | 79 | 101 | 50 | 153 | HMX3051A188 | ○ |
| 18,90 | 20 | 79 | 101 | 50 | 153 | HMX3051A189 | ○ |
| 19,00 | 20 | 79 | 101 | 50 | 153 | HMX3051A190 | ● |
| 19,10 | 20 | 79 | 101 | 50 | 153 | HMX3051A191 | ○ |
| 19,20 | 20 | 79 | 101 | 50 | 153 | HMX3051A192 | ○ |
| 19,30 | 20 | 79 | 101 | 50 | 153 | HMX3051A193 | ○ |
| 19,40 | 20 | 79 | 101 | 50 | 153 | HMX3051A194 | ○ |
| 19,50 | 20 | 79 | 101 | 50 | 153 | HMX3051A195 | ● |
| 19,60 | 20 | 79 | 101 | 50 | 153 | HMX3051A196 | ○ |
| 19,70 | 20 | 79 | 101 | 50 | 153 | HMX3051A197 | ○ |
| 19,80 | 20 | 79 | 101 | 50 | 153 | HMX3051A198 | ○ |
| 19,90 | 20 | 79 | 101 | 50 | 153 | HMX3051A199 | ○ |
| 20,00 | 20 | 79 | 101 | 50 | 153 | HMX3051A200 | ● |

Notes _____

3081A

Punta 8xD con fori
8xD Drill with internal coolant
8xD Bohrer mit IK
8xD Foret avec trous de lubrification



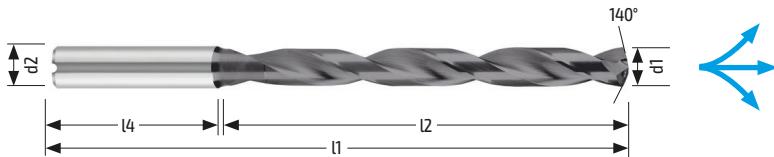
Silmax
NORM

DIN
6535 HA
(Standard)



P

K



| 140° | d1 h8 | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | X-Pro Coating | Stock |
|------|----------|----------|----------------|----------------|----------------|----------------|------------------|-------|
| | 3,00 | 6 | 29 | 35 | 36 | 74 | HMX3081A030 | ● |
| | 3,10 | 6 | 30 | 35 | 36 | 74 | HMX3081A031 | ○ |
| | 3,20 | 6 | 30 | 35 | 36 | 74 | HMX3081A032 | ● |
| | 3,30 | 6 | 30 | 35 | 36 | 74 | HMX3081A033 | ● |
| | 3,40 | 6 | 30 | 35 | 36 | 74 | HMX3081A034 | ● |
| | 3,50 | 6 | 30 | 35 | 36 | 74 | HMX3081A035 | ● |
| | 3,60 | 6 | 30 | 35 | 36 | 74 | HMX3081A036 | ○ |
| | 3,70 | 6 | 30 | 35 | 36 | 74 | HMX3081A037 | ○ |
| | 3,80 | 6 | 37 | 44 | 36 | 82 | HMX3081A038 | ○ |
| | 3,90 | 6 | 37 | 44 | 36 | 82 | HMX3081A039 | ○ |
| | 4,00 | 6 | 37 | 44 | 36 | 82 | HMX3081A040 | ● |
| | 4,10 | 6 | 37 | 44 | 36 | 82 | HMX3081A041 | ○ |
| | 4,20 | 6 | 37 | 44 | 36 | 82 | HMX3081A042 | ● |
| | 4,30 | 6 | 37 | 44 | 36 | 82 | HMX3081A043 | ● |
| | 4,40 | 6 | 37 | 44 | 36 | 82 | HMX3081A044 | ○ |
| | 4,50 | 6 | 37 | 44 | 36 | 82 | HMX3081A045 | ● |
| | 4,60 | 6 | 37 | 44 | 36 | 82 | HMX3081A046 | ○ |
| | 4,70 | 6 | 48 | 57 | 36 | 82 | HMX3081A047 | ○ |
| | 4,80 | 6 | 48 | 57 | 36 | 95 | HMX3081A048 | ● |
| | 4,90 | 6 | 48 | 57 | 36 | 95 | HMX3081A049 | ○ |
| | 5,00 | 6 | 48 | 57 | 36 | 95 | HMX3081A050 | ● |
| | 5,10 | 6 | 48 | 57 | 36 | 95 | HMX3081A051 | ● |
| | 5,20 | 6 | 48 | 57 | 36 | 95 | HMX3081A052 | ○ |
| | 5,30 | 6 | 48 | 57 | 36 | 95 | HMX3081A053 | ○ |
| | 5,40 | 6 | 48 | 57 | 36 | 95 | HMX3081A054 | ○ |
| | 5,50 | 6 | 48 | 57 | 36 | 95 | HMX3081A055 | ● |
| | 5,60 | 6 | 48 | 57 | 36 | 95 | HMX3081A056 | ○ |
| | 5,70 | 6 | 48 | 57 | 36 | 95 | HMX3081A057 | ○ |
| | 5,80 | 6 | 48 | 57 | 36 | 95 | HMX3081A058 | ● |
| | 5,90 | 6 | 48 | 57 | 36 | 95 | HMX3081A059 | ○ |
| | 6,00 | 6 | 48 | 57 | 36 | 95 | HMX3081A060 | ● |
| | 6,10 | 8 | 66 | 76 | 36 | 114 | HMX3081A061 | ● |
| | 6,20 | 8 | 66 | 76 | 36 | 114 | HMX3081A062 | ○ |
| | 6,30 | 8 | 66 | 76 | 36 | 114 | HMX3081A063 | ● |
| | 6,40 | 8 | 66 | 76 | 36 | 114 | HMX3081A064 | ○ |
| | 6,50 | 8 | 66 | 76 | 36 | 114 | HMX3081A065 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegn 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 h8 | d2 h6 | lu | l2 | l4 | l1 | X-Pro Coating | Stock |
|----------|----------|-----|-----|----|-----|------------------|-------|
| 6,60 | 8 | 66 | 76 | 36 | 114 | HMX3081A066 | ● |
| 6,70 | 8 | 66 | 76 | 36 | 114 | HMX3081A067 | ○ |
| 6,80 | 8 | 66 | 76 | 36 | 114 | HMX3081A068 | ● |
| 6,90 | 8 | 66 | 76 | 36 | 114 | HMX3081A069 | ● |
| 7,00 | 8 | 66 | 76 | 36 | 114 | HMX3081A070 | ● |
| 7,10 | 8 | 66 | 76 | 36 | 114 | HMX3081A071 | ○ |
| 7,20 | 8 | 66 | 76 | 36 | 114 | HMX3081A072 | ○ |
| 7,30 | 8 | 66 | 76 | 36 | 114 | HMX3081A073 | ○ |
| 7,40 | 8 | 66 | 76 | 36 | 114 | HMX3081A074 | ○ |
| 7,50 | 8 | 66 | 76 | 36 | 114 | HMX3081A075 | ● |
| 7,60 | 8 | 66 | 76 | 36 | 114 | HMX3081A076 | ○ |
| 7,70 | 8 | 66 | 76 | 36 | 114 | HMX3081A077 | ○ |
| 7,80 | 8 | 66 | 76 | 36 | 114 | HMX3081A078 | ● |
| 7,90 | 8 | 66 | 76 | 36 | 114 | HMX3081A079 | ○ |
| 8,00 | 8 | 66 | 76 | 36 | 114 | HMX3081A080 | ● |
| 8,10 | 10 | 84 | 96 | 40 | 138 | HMX3081A081 | ○ |
| 8,20 | 10 | 84 | 96 | 40 | 138 | HMX3081A082 | ○ |
| 8,30 | 10 | 84 | 96 | 40 | 138 | HMX3081A083 | ○ |
| 8,40 | 10 | 84 | 96 | 40 | 138 | HMX3081A084 | ○ |
| 8,50 | 10 | 84 | 96 | 40 | 138 | HMX3081A085 | ● |
| 8,60 | 10 | 84 | 96 | 40 | 138 | HMX3081A086 | ○ |
| 8,70 | 10 | 84 | 96 | 40 | 138 | HMX3081A087 | ● |
| 8,80 | 10 | 84 | 96 | 40 | 138 | HMX3081A088 | ○ |
| 8,90 | 10 | 84 | 96 | 40 | 138 | HMX3081A089 | ○ |
| 9,00 | 10 | 84 | 96 | 40 | 138 | HMX3081A090 | ● |
| 9,10 | 10 | 84 | 96 | 40 | 138 | HMX3081A091 | ○ |
| 9,20 | 10 | 84 | 96 | 40 | 138 | HMX3081A092 | ○ |
| 9,30 | 10 | 84 | 96 | 40 | 138 | HMX3081A093 | ● |
| 9,40 | 10 | 84 | 96 | 40 | 138 | HMX3081A094 | ○ |
| 9,50 | 10 | 84 | 96 | 40 | 138 | HMX3081A095 | ● |
| 9,60 | 10 | 84 | 96 | 40 | 138 | HMX3081A096 | ○ |
| 9,70 | 10 | 84 | 96 | 40 | 138 | HMX3081A097 | ○ |
| 9,80 | 10 | 84 | 96 | 40 | 138 | HMX3081A098 | ● |
| 9,90 | 10 | 84 | 96 | 40 | 138 | HMX3081A099 | ○ |
| 10,00 | 10 | 84 | 96 | 40 | 138 | HMX3081A100 | ● |
| 10,10 | 12 | 100 | 115 | 45 | 162 | HMX3081A101 | ○ |
| 10,20 | 12 | 100 | 115 | 45 | 162 | HMX3081A102 | ○ |
| 10,30 | 12 | 100 | 115 | 45 | 162 | HMX3081A103 | ● |
| 10,40 | 12 | 100 | 115 | 45 | 162 | HMX3081A104 | ○ |
| 10,50 | 12 | 100 | 115 | 45 | 162 | HMX3081A105 | ● |
| 10,60 | 12 | 100 | 115 | 45 | 162 | HMX3081A106 | ○ |
| 10,70 | 12 | 100 | 115 | 45 | 162 | HMX3081A107 | ○ |
| 10,80 | 12 | 100 | 115 | 45 | 162 | HMX3081A108 | ○ |
| 10,90 | 12 | 100 | 115 | 45 | 162 | HMX3081A109 | ○ |
| 11,00 | 12 | 100 | 115 | 45 | 162 | HMX3081A110 | ● |
| 11,10 | 12 | 100 | 115 | 45 | 162 | HMX3081A111 | ○ |
| 11,20 | 12 | 100 | 115 | 45 | 162 | HMX3081A112 | ○ |
| 11,30 | 12 | 100 | 115 | 45 | 162 | HMX3081A113 | ○ |
| 11,40 | 12 | 100 | 115 | 45 | 162 | HMX3081A114 | ● |
| 11,50 | 12 | 100 | 115 | 45 | 162 | HMX3081A115 | ● |
| 11,60 | 12 | 100 | 115 | 45 | 162 | HMX3081A116 | ○ |
| 11,70 | 12 | 100 | 115 | 45 | 162 | HMX3081A117 | ○ |
| 11,80 | 12 | 100 | 115 | 45 | 162 | HMX3081A118 | ○ |
| 11,90 | 12 | 100 | 115 | 45 | 162 | HMX3081A119 | ● |
| 12,00 | 12 | 100 | 115 | 45 | 162 | HMX3081A120 | ● |
| 12,10 | 14 | 117 | 134 | 45 | 181 | HMX3081A121 | ○ |
| 12,20 | 14 | 117 | 134 | 45 | 181 | HMX3081A122 | ○ |
| 12,30 | 14 | 117 | 134 | 45 | 181 | HMX3081A123 | ○ |
| 12,40 | 14 | 117 | 134 | 45 | 181 | HMX3081A124 | ○ |
| 12,50 | 14 | 117 | 134 | 45 | 181 | HMX3081A125 | ● |
| 12,60 | 14 | 117 | 134 | 45 | 181 | HMX3081A126 | ○ |
| 12,70 | 14 | 117 | 134 | 45 | 181 | HMX3081A127 | ○ |
| 12,80 | 14 | 117 | 134 | 45 | 181 | HMX3081A128 | ○ |
| 12,90 | 14 | 117 | 134 | 45 | 181 | HMX3081A129 | ○ |

3081A

Punta 8xD con fori
8xD Drill with internal coolant
8xD Bohrer mit IK
8xD Foret avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

P

K



| 140° | d1 h8 | d2 h6 | l_u | l₂ | l₄ | l₁ | X-Pro Coating | Stock |
|-------------|-----------------|-----------------|----------------------|----------------------|----------------------|----------------------|-------------------------|--------------|
| | 13,00 | 14 | 117 | 134 | 45 | 181 | HMX3081A130 | ● |
| | 13,10 | 14 | 117 | 134 | 45 | 181 | HMX3081A131 | ○ |
| | 13,20 | 14 | 117 | 134 | 45 | 181 | HMX3081A132 | ○ |
| | 13,30 | 14 | 117 | 134 | 45 | 181 | HMX3081A133 | ○ |
| | 13,40 | 14 | 117 | 134 | 45 | 181 | HMX3081A134 | ○ |
| | 13,50 | 14 | 117 | 134 | 45 | 181 | HMX3081A135 | ● |
| | 13,60 | 14 | 117 | 134 | 45 | 181 | HMX3081A136 | ○ |
| | 13,70 | 14 | 117 | 134 | 45 | 181 | HMX3081A137 | ○ |
| | 13,80 | 14 | 117 | 134 | 45 | 181 | HMX3081A138 | ○ |
| | 13,90 | 14 | 117 | 134 | 45 | 181 | HMX3081A139 | ○ |
| | 14,00 | 14 | 117 | 134 | 45 | 181 | HMX3081A140 | ● |
| | 14,10 | 16 | 133 | 153 | 48 | 203 | HMX3081A141 | ○ |
| | 14,20 | 16 | 133 | 153 | 48 | 203 | HMX3081A142 | ○ |
| | 14,30 | 16 | 133 | 153 | 48 | 203 | HMX3081A143 | ○ |
| | 14,40 | 16 | 133 | 153 | 48 | 203 | HMX3081A144 | ○ |
| | 14,50 | 16 | 133 | 153 | 48 | 203 | HMX3081A145 | ● |
| | 14,60 | 16 | 133 | 153 | 48 | 203 | HMX3081A146 | ○ |
| | 14,70 | 16 | 133 | 153 | 48 | 203 | HMX3081A147 | ○ |
| | 14,80 | 16 | 133 | 153 | 48 | 203 | HMX3081A148 | ○ |
| | 14,90 | 16 | 133 | 153 | 48 | 203 | HMX3081A149 | ○ |
| | 15,00 | 16 | 133 | 153 | 48 | 203 | HMX3081A150 | ● |
| | 15,10 | 16 | 133 | 153 | 48 | 203 | HMX3081A151 | ○ |
| | 15,20 | 16 | 133 | 153 | 48 | 203 | HMX3081A152 | ○ |
| | 15,30 | 16 | 133 | 153 | 48 | 203 | HMX3081A153 | ○ |
| | 15,40 | 16 | 133 | 153 | 48 | 203 | HMX3081A154 | ○ |
| | 15,50 | 16 | 133 | 153 | 48 | 203 | HMX3081A155 | ○ |
| | 15,60 | 16 | 133 | 153 | 48 | 203 | HMX3081A156 | ○ |
| | 15,70 | 16 | 133 | 153 | 48 | 203 | HMX3081A157 | ○ |
| | 15,80 | 16 | 133 | 153 | 48 | 203 | HMX3081A158 | ○ |
| | 15,90 | 16 | 133 | 153 | 48 | 203 | HMX3081A159 | ○ |
| | 16,00 | 16 | 133 | 153 | 48 | 203 | HMX3081A160 | ● |
| | 16,10 | 18 | 150 | 171 | 48 | 223 | HMX3081A161 | ○ |
| | 16,20 | 18 | 150 | 171 | 48 | 223 | HMX3081A162 | ○ |
| | 16,30 | 18 | 150 | 171 | 48 | 223 | HMX3081A163 | ○ |
| | 16,40 | 18 | 150 | 171 | 48 | 223 | HMX3081A164 | ○ |
| | 16,50 | 18 | 150 | 171 | 48 | 223 | HMX3081A165 | ○ |
| | 16,60 | 18 | 150 | 171 | 48 | 223 | HMX3081A166 | ○ |
| | 16,70 | 18 | 150 | 171 | 48 | 223 | HMX3081A167 | ○ |
| | 16,80 | 18 | 150 | 171 | 48 | 223 | HMX3081A168 | ○ |
| | 16,90 | 18 | 150 | 171 | 48 | 223 | HMX3081A169 | ○ |
| | 17,00 | 18 | 150 | 171 | 48 | 223 | HMX3081A170 | ● |
| | 17,10 | 18 | 150 | 171 | 48 | 223 | HMX3081A171 | ○ |
| | 17,20 | 18 | 150 | 171 | 48 | 223 | HMX3081A172 | ○ |
| | 17,30 | 18 | 150 | 171 | 48 | 223 | HMX3081A173 | ○ |
| | 17,40 | 18 | 150 | 171 | 48 | 223 | HMX3081A174 | ○ |
| | 17,50 | 18 | 150 | 171 | 48 | 223 | HMX3081A175 | ○ |
| | 17,60 | 18 | 150 | 171 | 48 | 223 | HMX3081A176 | ○ |
| | 17,70 | 18 | 150 | 171 | 48 | 223 | HMX3081A177 | ○ |

140°

| d1 h8 | d2 h6 | l<u>u</u> | l<u>2</u> | l<u>4</u> | l<u>1</u> | X-Pro Coating | Stock |
|-----------------|-----------------|------------------|------------------|------------------|------------------|-------------------------|--------------|
| 17,80 | 18 | 150 | 171 | 48 | 223 | HMX3081A178 | ○ |
| 17,90 | 18 | 150 | 171 | 48 | 223 | HMX3081A179 | ○ |
| 18,00 | 18 | 150 | 171 | 48 | 223 | HMX3081A180 | ● |
| 18,10 | 20 | 168 | 190 | 50 | 244 | HMX3081A181 | ○ |
| 18,20 | 20 | 168 | 190 | 50 | 244 | HMX3081A182 | ○ |
| 18,30 | 20 | 168 | 190 | 50 | 244 | HMX3081A183 | ○ |
| 18,40 | 20 | 168 | 190 | 50 | 244 | HMX3081A184 | ○ |
| 18,50 | 20 | 168 | 190 | 50 | 244 | HMX3081A185 | ○ |
| 18,60 | 20 | 168 | 190 | 50 | 244 | HMX3081A186 | ○ |
| 18,70 | 20 | 168 | 190 | 50 | 244 | HMX3081A187 | ○ |
| 18,80 | 20 | 168 | 190 | 50 | 244 | HMX3081A188 | ○ |
| 18,90 | 20 | 168 | 190 | 50 | 244 | HMX3081A189 | ○ |
| 19,00 | 20 | 168 | 190 | 50 | 244 | HMX3081A190 | ● |
| 19,10 | 20 | 168 | 190 | 50 | 244 | HMX3081A191 | ○ |
| 19,20 | 20 | 168 | 190 | 50 | 244 | HMX3081A192 | ○ |
| 19,30 | 20 | 168 | 190 | 50 | 244 | HMX3081A193 | ○ |
| 19,40 | 20 | 168 | 190 | 50 | 244 | HMX3081A194 | ○ |
| 19,50 | 20 | 168 | 190 | 50 | 244 | HMX3081A195 | ○ |
| 19,60 | 20 | 168 | 190 | 50 | 244 | HMX3081A196 | ○ |
| 19,70 | 20 | 168 | 190 | 50 | 244 | HMX3081A197 | ○ |
| 19,80 | 20 | 168 | 190 | 50 | 244 | HMX3081A198 | ○ |
| 19,90 | 20 | 168 | 190 | 50 | 244 | HMX3081A199 | ○ |
| 20,00 | 20 | 168 | 190 | 50 | 244 | HMX3081A200 | ● |

Notes _____

3121A

Punta 12xD con fori

12xD Drill with internal coolant

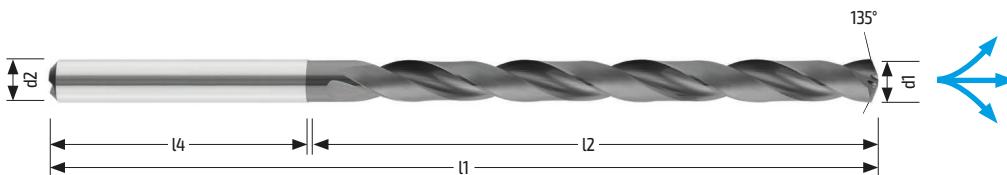
12xD Bohrer mit IK

12xD Forêt avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

P

K



| | d1 h7 | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | X-Pro Coating | Stock |
|--|----------|----------|----------------|----------------|----------------|----------------|------------------|-------|
| | 3,00 | 6 | 48 | 54 | 36 | 92 | HMX3121A030 | ● |
| | 3,10 | 6 | 48 | 54 | 36 | 92 | HMX3121A031 | ● |
| | 3,20 | 6 | 48 | 54 | 36 | 92 | HMX3121A032 | ● |
| | 3,30 | 6 | 48 | 54 | 36 | 92 | HMX3121A033 | ● |
| | 3,40 | 6 | 48 | 54 | 36 | 92 | HMX3121A034 | ● |
| | 3,50 | 6 | 48 | 54 | 36 | 92 | HMX3121A035 | ● |
| | 3,60 | 6 | 48 | 54 | 36 | 92 | HMX3121A036 | ● |
| | 3,70 | 6 | 48 | 54 | 36 | 92 | HMX3121A037 | ● |
| | 3,80 | 6 | 58 | 64 | 36 | 102 | HMX3121A038 | ● |
| | 3,90 | 6 | 58 | 64 | 36 | 102 | HMX3121A039 | ● |
| | 4,00 | 6 | 58 | 64 | 36 | 102 | HMX3121A040 | ● |
| | 4,10 | 6 | 58 | 64 | 36 | 102 | HMX3121A041 | ● |
| | 4,20 | 6 | 58 | 64 | 36 | 102 | HMX3121A042 | ● |
| | 4,30 | 6 | 58 | 64 | 36 | 102 | HMX3121A043 | ● |
| | 4,40 | 6 | 58 | 64 | 36 | 102 | HMX3121A044 | ● |
| | 4,50 | 6 | 58 | 64 | 36 | 102 | HMX3121A045 | ● |
| | 4,60 | 6 | 58 | 64 | 36 | 102 | HMX3121A046 | ● |
| | 4,70 | 6 | 58 | 64 | 36 | 102 | HMX3121A047 | ● |
| | 4,80 | 6 | 70 | 78 | 36 | 116 | HMX3121A048 | ● |
| | 4,90 | 6 | 70 | 78 | 36 | 116 | HMX3121A049 | ● |
| | 5,00 | 6 | 70 | 78 | 36 | 116 | HMX3121A050 | ● |
| | 5,10 | 6 | 70 | 78 | 36 | 116 | HMX3121A051 | ● |
| | 5,20 | 6 | 70 | 78 | 36 | 116 | HMX3121A052 | ● |
| | 5,50 | 6 | 70 | 78 | 36 | 116 | HMX3121A055 | ● |
| | 5,80 | 6 | 70 | 78 | 36 | 116 | HMX3121A058 | ● |
| | 6,00 | 6 | 70 | 78 | 36 | 116 | HMX3121A060 | ● |
| | 6,30 | 8 | 94 | 108 | 36 | 146 | HMX3121A063 | ● |
| | 6,50 | 8 | 94 | 108 | 36 | 146 | HMX3121A065 | ● |
| | 6,60 | 8 | 94 | 108 | 36 | 146 | HMX3121A066 | ● |
| | 6,80 | 8 | 94 | 108 | 36 | 146 | HMX3121A068 | ● |
| | 7,00 | 8 | 94 | 108 | 36 | 146 | HMX3121A070 | ● |
| | 7,40 | 8 | 94 | 108 | 36 | 146 | HMX3121A074 | ● |
| | 7,50 | 8 | 94 | 108 | 36 | 146 | HMX3121A075 | ● |
| | 7,80 | 8 | 94 | 108 | 36 | 146 | HMX3121A078 | ● |
| | 8,00 | 8 | 94 | 108 | 36 | 146 | HMX3121A080 | ● |
| | 8,10 | 10 | 110 | 120 | 40 | 162 | HMX3121A081 | ● |

PAcciaio
Steel
Stahl
Acier**H**Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé**K**Ghisa
Cast Iron
Gusseisen
Fonte**M**Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable**S**HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane**N**Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses**O**NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

135°

| d1 h7 | d2 h6 | l <u>u</u> | l <u>2</u> | l <u>4</u> | l <u>1</u> | X-Pro Coating | Stock |
|----------|----------|------------|------------|------------|------------|------------------|-------|
| 8,20 | 10 | 110 | 120 | 40 | 162 | HMX3121A082 | ● |
| 8,50 | 10 | 110 | 120 | 40 | 162 | HMX3121A085 | ● |
| 9,00 | 10 | 110 | 120 | 40 | 162 | HMX3121A090 | ● |
| 9,30 | 10 | 110 | 120 | 40 | 162 | HMX3121A093 | ● |
| 9,50 | 10 | 110 | 120 | 40 | 162 | HMX3121A095 | ● |
| 9,80 | 10 | 110 | 120 | 40 | 162 | HMX3121A098 | ● |
| 10,00 | 10 | 110 | 120 | 40 | 162 | HMX3121A100 | ● |
| 10,20 | 12 | 142 | 156 | 45 | 204 | HMX3121A102 | ● |
| 10,50 | 12 | 142 | 156 | 45 | 204 | HMX3121A105 | ● |
| 11,00 | 12 | 142 | 156 | 45 | 204 | HMX3121A110 | ● |
| 11,50 | 12 | 142 | 156 | 45 | 204 | HMX3121A115 | ● |
| 11,80 | 12 | 142 | 156 | 45 | 204 | HMX3121A118 | ● |
| 12,00 | 12 | 142 | 156 | 45 | 204 | HMX3121A120 | ● |
| 12,50 | 14 | 166 | 182 | 45 | 230 | HMX3121A125 | ● |
| 13,00 | 14 | 166 | 182 | 45 | 230 | HMX3121A130 | ● |
| 13,50 | 14 | 166 | 182 | 45 | 230 | HMX3121A135 | ● |
| 14,00 | 14 | 166 | 182 | 45 | 230 | HMX3121A140 | ● |
| 15,00 | 16 | 192 | 208 | 48 | 260 | HMX3121A150 | ● |
| 16,00 | 16 | 192 | 208 | 48 | 260 | HMX3121A160 | ● |
| 17,00 | 18 | 216 | 234 | 48 | 285 | HMX3121A170 | ● |
| 17,50 | 18 | 216 | 234 | 48 | 285 | HMX3121A175 | ● |
| 18,00 | 18 | 216 | 234 | 48 | 285 | HMX3121A180 | ● |

Notes _____

PUNTE HM PER ACCIAIO 4 PATTINI FINO 12xD

4 DOUBLE MARGIN HM DRILLS FOR STEEL UP TO 12xD / HM-BOHRER FÜR STAHL MIT 4 FUEHRUNGSFASEN BIS 12xD / FORETS HM POUR ACIER 4 PATINS DE GUIDAGE JUSQU'À 12xD

3054A

Punta 4 pattini 5xD con fori
5xD Drill with internal coolant
5xD Bohrer mit IK
5xD Foret avec trous de lubrification



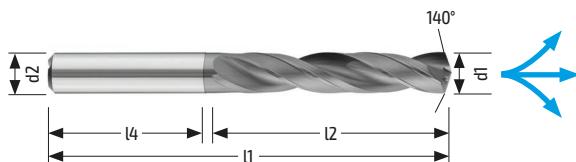
DIN
6537L

DIN
6535 HA
(Standard)



P

K



| 140° | d1 k7 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-------------|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------------------------------|--------------|
| | 3,00 | 6 | 23 | 28 | 36 | 66 | HMC3054A030 | ● |
| | 3,10 | 6 | 23 | 28 | 36 | 66 | HMC3054A031 | ● |
| | 3,20 | 6 | 23 | 28 | 36 | 66 | HMC3054A032 | ● |
| | 3,30 | 6 | 23 | 28 | 36 | 66 | HMC3054A033 | ● |
| | 3,40 | 6 | 23 | 28 | 36 | 66 | HMC3054A034 | ● |
| | 3,50 | 6 | 23 | 28 | 36 | 66 | HMC3054A035 | ● |
| | 3,70 | 6 | 23 | 28 | 36 | 66 | HMC3054A037 | ● |
| | 3,80 | 6 | 29 | 36 | 36 | 74 | HMC3054A038 | ● |
| | 3,90 | 6 | 29 | 36 | 36 | 74 | HMC3054A039 | ● |
| | 4,00 | 6 | 29 | 36 | 36 | 74 | HMC3054A040 | ● |
| | 4,20 | 6 | 29 | 36 | 36 | 74 | HMC3054A042 | ● |
| | 4,30 | 6 | 29 | 36 | 36 | 74 | HMC3054A043 | ● |
| | 4,50 | 6 | 29 | 36 | 36 | 74 | HMC3054A045 | ● |
| | 4,80 | 6 | 35 | 44 | 36 | 82 | HMC3054A048 | ● |
| | 5,00 | 6 | 35 | 44 | 36 | 82 | HMC3054A050 | ● |
| | 5,10 | 6 | 35 | 44 | 36 | 82 | HMC3054A051 | ● |
| | 5,20 | 6 | 35 | 44 | 36 | 82 | HMC3054A052 | ● |
| | 5,30 | 6 | 35 | 44 | 36 | 82 | HMC3054A053 | ● |
| | 5,50 | 6 | 35 | 44 | 36 | 82 | HMC3054A055 | ● |
| | 5,60 | 6 | 35 | 44 | 36 | 82 | HMC3054A056 | ● |
| | 5,80 | 6 | 35 | 44 | 36 | 82 | HMC3054A058 | ● |
| | 5,90 | 6 | 35 | 44 | 36 | 82 | HMC3054A059 | ● |
| | 6,00 | 6 | 35 | 44 | 36 | 82 | HMC3054A060 | ● |
| | 6,40 | 8 | 43 | 53 | 36 | 91 | HMC3054A064 | ● |
| | 6,50 | 8 | 43 | 53 | 36 | 91 | HMC3054A065 | ● |
| | 6,60 | 8 | 43 | 53 | 36 | 91 | HMC3054A066 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 k7 | d2 h6 | l <u>u</u> | l <u>2</u> | l <u>4</u> | l <u>1</u> | Balinit® Latuma Coating | Stock |
|----------|----------|------------|------------|------------|------------|----------------------------|-------|
| 6,70 | 8 | 43 | 53 | 36 | 91 | HMC3054A067 | ● |
| 6,80 | 8 | 43 | 53 | 36 | 91 | HMC3054A068 | ● |
| 6,90 | 8 | 43 | 53 | 36 | 91 | HMC3054A069 | ● |
| 7,00 | 8 | 43 | 53 | 36 | 91 | HMC3054A070 | ● |
| 7,20 | 8 | 43 | 53 | 36 | 91 | HMC3054A072 | ● |
| 7,40 | 8 | 43 | 53 | 36 | 91 | HMC3054A074 | ● |
| 7,50 | 8 | 43 | 53 | 36 | 91 | HMC3054A075 | ● |
| 7,80 | 8 | 43 | 53 | 36 | 91 | HMC3054A078 | ● |
| 7,90 | 8 | 43 | 53 | 36 | 91 | HMC3054A079 | ● |
| 8,00 | 8 | 43 | 53 | 36 | 91 | HMC3054A080 | ● |
| 8,10 | 10 | 49 | 61 | 40 | 103 | HMC3054A081 | ● |
| 8,30 | 10 | 49 | 61 | 40 | 103 | HMC3054A083 | ● |
| 8,40 | 10 | 49 | 61 | 40 | 103 | HMC3054A084 | ● |
| 8,50 | 10 | 49 | 61 | 40 | 103 | HMC3054A085 | ● |
| 8,60 | 10 | 49 | 61 | 40 | 103 | HMC3054A086 | ● |
| 8,80 | 10 | 49 | 61 | 40 | 103 | HMC3054A088 | ● |
| 9,00 | 10 | 49 | 61 | 40 | 103 | HMC3054A090 | ● |
| 9,20 | 10 | 49 | 61 | 40 | 103 | HMC3054A092 | ● |
| 9,30 | 10 | 49 | 61 | 40 | 103 | HMC3054A093 | ● |
| 9,50 | 10 | 49 | 61 | 40 | 103 | HMC3054A095 | ● |
| 9,80 | 10 | 49 | 61 | 40 | 103 | HMC3054A098 | ● |
| 9,90 | 10 | 49 | 61 | 40 | 103 | HMC3054A099 | ● |
| 10,00 | 10 | 49 | 61 | 40 | 103 | HMC3054A100 | ● |
| 10,20 | 12 | 56 | 71 | 45 | 118 | HMC3054A102 | ● |
| 10,30 | 12 | 56 | 71 | 45 | 118 | HMC3054A103 | ● |
| 10,40 | 12 | 56 | 71 | 45 | 118 | HMC3054A104 | ● |
| 10,50 | 12 | 56 | 71 | 45 | 118 | HMC3054A105 | ● |
| 10,90 | 12 | 56 | 71 | 45 | 118 | HMC3054A109 | ● |
| 11,00 | 12 | 56 | 71 | 45 | 118 | HMC3054A110 | ● |
| 11,50 | 12 | 56 | 71 | 45 | 118 | HMC3054A115 | ● |
| 11,70 | 12 | 56 | 71 | 45 | 118 | HMC3054A117 | ● |
| 11,80 | 12 | 56 | 71 | 45 | 118 | HMC3054A118 | ● |
| 12,00 | 12 | 56 | 71 | 45 | 118 | HMC3054A120 | ● |
| 12,50 | 14 | 60 | 77 | 45 | 124 | HMC3054A125 | ● |
| 13,00 | 14 | 60 | 77 | 45 | 124 | HMC3054A130 | ● |
| 13,50 | 14 | 60 | 77 | 45 | 124 | HMC3054A135 | ● |
| 14,00 | 14 | 60 | 77 | 45 | 124 | HMC3054A140 | ● |
| 14,50 | 16 | 63 | 83 | 48 | 133 | HMC3054A145 | ● |
| 14,80 | 16 | 63 | 83 | 48 | 133 | HMC3054A148 | ● |
| 15,00 | 16 | 63 | 83 | 48 | 133 | HMC3054A150 | ● |
| 15,50 | 16 | 63 | 83 | 48 | 133 | HMC3054A155 | ● |
| 15,80 | 16 | 63 | 83 | 48 | 133 | HMC3054A158 | ● |
| 16,00 | 16 | 63 | 83 | 48 | 133 | HMC3054A160 | ● |
| 17,00 | 18 | 71 | 93 | 48 | 143 | HMC3054A170 | ● |
| 17,50 | 18 | 71 | 93 | 48 | 143 | HMC3054A175 | ● |
| 18,00 | 18 | 71 | 93 | 48 | 143 | HMC3054A180 | ● |
| 18,50 | 20 | 77 | 101 | 50 | 153 | HMC3054A185 | ● |
| 20,00 | 20 | 77 | 101 | 50 | 153 | HMC3054A200 | ● |

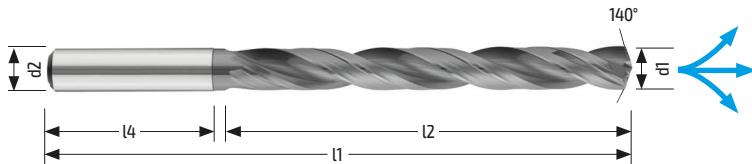
3084A

Punta 4 pattini 8xD con fori
8xD Drill with internal coolant
8xD Bohrer mit IK
8xD Forêt avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

P

K



| 140° | d1 k7 | d2 h6 | l_u | l₂ | l₄ | l₁ | Balinit® Latuma Coating | Stock |
|-------------|------------------|------------------|----------------------|----------------------|----------------------|----------------------|------------------------------------|--------------|
| | 3,00 | 6 | 29 | 34 | 36 | 72 | HMC3084A030 | ● |
| | 3,10 | 6 | 29 | 34 | 36 | 72 | HMC3084A031 | ● |
| | 3,20 | 6 | 29 | 34 | 36 | 72 | HMC3084A032 | ● |
| | 3,30 | 6 | 29 | 34 | 36 | 72 | HMC3084A033 | ● |
| | 3,40 | 6 | 29 | 34 | 36 | 72 | HMC3084A034 | ● |
| | 3,50 | 6 | 29 | 34 | 36 | 72 | HMC3084A035 | ● |
| | 3,60 | 6 | 29 | 34 | 36 | 72 | HMC3084A036 | ● |
| | 3,70 | 6 | 29 | 34 | 36 | 72 | HMC3084A037 | ● |
| | 3,80 | 6 | 36 | 43 | 36 | 81 | HMC3084A038 | ● |
| | 3,90 | 6 | 36 | 43 | 36 | 81 | HMC3084A039 | ● |
| | 4,00 | 6 | 36 | 43 | 36 | 81 | HMC3084A040 | ● |
| | 4,10 | 6 | 36 | 43 | 36 | 81 | HMC3084A041 | ● |
| | 4,20 | 6 | 36 | 43 | 36 | 81 | HMC3084A042 | ● |
| | 4,30 | 6 | 36 | 43 | 36 | 81 | HMC3084A043 | ● |
| | 4,40 | 6 | 36 | 43 | 36 | 81 | HMC3084A044 | ● |
| | 4,50 | 6 | 36 | 43 | 36 | 81 | HMC3084A045 | ● |
| | 4,60 | 6 | 36 | 43 | 36 | 81 | HMC3084A046 | ● |
| | 4,80 | 6 | 48 | 57 | 36 | 95 | HMC3084A048 | ● |
| | 4,90 | 6 | 48 | 57 | 36 | 95 | HMC3084A049 | ● |
| | 5,00 | 6 | 48 | 57 | 36 | 95 | HMC3084A050 | ● |
| | 5,10 | 6 | 48 | 57 | 36 | 95 | HMC3084A051 | ● |
| | 5,20 | 6 | 48 | 57 | 36 | 95 | HMC3084A052 | ● |
| | 5,40 | 6 | 48 | 57 | 36 | 95 | HMC3084A054 | ● |
| | 5,50 | 6 | 48 | 57 | 36 | 95 | HMC3084A055 | ● |
| | 5,60 | 6 | 48 | 57 | 36 | 95 | HMC3084A056 | ● |
| | 5,70 | 6 | 48 | 57 | 36 | 95 | HMC3084A057 | ● |
| | 5,80 | 6 | 48 | 57 | 36 | 95 | HMC3084A058 | ● |
| | 6,00 | 6 | 48 | 57 | 36 | 95 | HMC3084A060 | ● |
| | 6,10 | 8 | 64 | 76 | 36 | 114 | HMC3084A061 | ● |
| | 6,20 | 8 | 64 | 76 | 36 | 114 | HMC3084A062 | ● |
| | 6,50 | 8 | 64 | 76 | 36 | 114 | HMC3084A065 | ● |
| | 6,60 | 8 | 64 | 76 | 36 | 114 | HMC3084A066 | ● |
| | 6,80 | 8 | 64 | 76 | 36 | 114 | HMC3084A068 | ● |
| | 6,90 | 8 | 64 | 76 | 36 | 114 | HMC3084A069 | ● |
| | 7,00 | 8 | 64 | 76 | 36 | 114 | HMC3084A070 | ● |
| | 7,20 | 8 | 64 | 76 | 36 | 114 | HMC3084A072 | ● |

PAcciaio
Steel
Stahl
Acier**H**Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé**K**Ghisa
Cast Iron
Gusseisen
Fonte**M**Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable**S**HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane**N**Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses**O**NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 k7 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------------------------------|--------------|
| 7,40 | 8 | 64 | 76 | 36 | 114 | HMC3084A074 | ● |
| 7,50 | 8 | 64 | 76 | 36 | 114 | HMC3084A075 | ● |
| 7,60 | 8 | 64 | 76 | 36 | 114 | HMC3084A076 | ● |
| 7,80 | 8 | 64 | 76 | 36 | 114 | HMC3084A078 | ● |
| 8,00 | 8 | 64 | 76 | 36 | 114 | HMC3084A080 | ● |
| 8,20 | 10 | 80 | 95 | 40 | 142 | HMC3084A082 | ● |
| 8,50 | 10 | 80 | 95 | 40 | 142 | HMC3084A085 | ● |
| 8,60 | 10 | 80 | 95 | 40 | 142 | HMC3084A086 | ● |
| 8,70 | 10 | 80 | 95 | 40 | 142 | HMC3084A087 | ● |
| 8,90 | 10 | 80 | 95 | 40 | 142 | HMC3084A089 | ● |
| 9,00 | 10 | 80 | 95 | 40 | 142 | HMC3084A090 | ● |
| 9,50 | 10 | 80 | 95 | 40 | 142 | HMC3084A095 | ● |
| 9,60 | 10 | 80 | 95 | 40 | 142 | HMC3084A096 | ● |
| 9,70 | 10 | 80 | 95 | 40 | 142 | HMC3084A097 | ● |
| 9,80 | 10 | 80 | 95 | 40 | 142 | HMC3084A098 | ● |
| 9,90 | 10 | 80 | 95 | 40 | 142 | HMC3084A099 | ● |
| 10,00 | 10 | 80 | 95 | 40 | 142 | HMC3084A100 | ● |
| 10,10 | 12 | 96 | 114 | 45 | 162 | HMC3084A101 | ● |
| 10,20 | 12 | 96 | 114 | 45 | 162 | HMC3084A102 | ● |
| 10,50 | 12 | 96 | 114 | 45 | 162 | HMC3084A105 | ● |
| 10,60 | 12 | 96 | 114 | 45 | 162 | HMC3084A106 | ● |
| 10,70 | 12 | 96 | 114 | 45 | 162 | HMC3084A107 | ● |
| 11,00 | 12 | 96 | 114 | 45 | 162 | HMC3084A110 | ● |
| 11,30 | 12 | 96 | 114 | 45 | 162 | HMC3084A113 | ● |
| 11,70 | 12 | 96 | 114 | 45 | 162 | HMC3084A117 | ● |
| 11,80 | 12 | 96 | 114 | 45 | 162 | HMC3084A118 | ● |
| 12,00 | 12 | 96 | 114 | 45 | 162 | HMC3084A120 | ● |
| 12,50 | 14 | 112 | 133 | 45 | 178 | HMC3084A125 | ● |
| 12,80 | 14 | 112 | 133 | 45 | 178 | HMC3084A128 | ● |
| 13,00 | 14 | 112 | 133 | 45 | 178 | HMC3084A130 | ● |
| 13,50 | 14 | 112 | 133 | 45 | 178 | HMC3084A135 | ● |
| 14,00 | 14 | 112 | 133 | 45 | 178 | HMC3084A140 | ● |
| 15,00 | 16 | 128 | 152 | 48 | 203 | HMC3084A150 | ● |
| 15,80 | 16 | 128 | 152 | 48 | 203 | HMC3084A158 | ● |
| 16,00 | 16 | 128 | 152 | 48 | 203 | HMC3084A160 | ● |
| 16,50 | 18 | 144 | 171 | 48 | 222 | HMC3084A165 | ● |
| 20,00 | 20 | 160 | 190 | 50 | 243 | HMC3084A200 | ● |

Notes _____

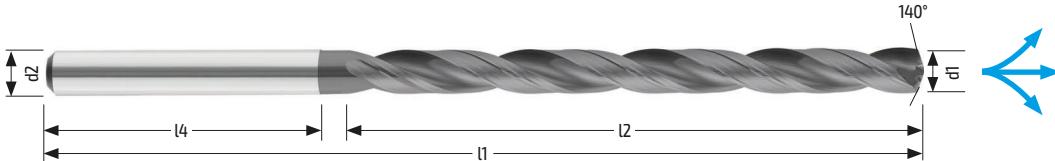
3124A

Punta 4 pattini 12xD con fori
12xD Drill with internal coolant
12xD Bohrer mit IK
12xD Foret avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

P

K



| 140° | d1 k7 | d2 h6 | l1 | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-------------|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------------------------------|--------------|
| | 3,00 | 6 | 48 | 54 | 36 | 92 | HMC3124A030 | ● |
| | 3,10 | 6 | 48 | 54 | 36 | 92 | HMC3124A031 | ○ |
| | 3,20 | 6 | 48 | 54 | 36 | 92 | HMC3124A032 | ○ |
| | 3,30 | 6 | 48 | 54 | 36 | 92 | HMC3124A033 | ○ |
| | 3,40 | 6 | 48 | 54 | 36 | 92 | HMC3124A034 | ○ |
| | 3,50 | 6 | 48 | 54 | 36 | 92 | HMC3124A035 | ● |
| | 3,60 | 6 | 48 | 54 | 36 | 92 | HMC3124A036 | ○ |
| | 3,70 | 6 | 48 | 54 | 36 | 92 | HMC3124A037 | ○ |
| | 3,80 | 6 | 58 | 64 | 36 | 102 | HMC3124A038 | ○ |
| | 3,90 | 6 | 58 | 64 | 36 | 102 | HMC3124A039 | ○ |
| | 4,00 | 6 | 58 | 64 | 36 | 102 | HMC3124A040 | ● |
| | 4,10 | 6 | 58 | 64 | 36 | 102 | HMC3124A041 | ○ |
| | 4,20 | 6 | 58 | 64 | 36 | 102 | HMC3124A042 | ○ |
| | 4,30 | 6 | 58 | 64 | 36 | 102 | HMC3124A043 | ○ |
| | 4,40 | 6 | 58 | 64 | 36 | 102 | HMC3124A044 | ○ |
| | 4,50 | 6 | 58 | 64 | 36 | 102 | HMC3124A045 | ● |
| | 4,60 | 6 | 58 | 64 | 36 | 102 | HMC3124A046 | ○ |
| | 4,70 | 6 | 58 | 64 | 36 | 102 | HMC3124A047 | ○ |
| | 4,80 | 6 | 70 | 78 | 36 | 116 | HMC3124A048 | ○ |
| | 4,95 | 6 | 58 | 64 | 36 | 102 | HMC3124A04A | ○ |
| | 4,65 | 6 | 58 | 78 | 36 | 116 | HMC3124A04B | ○ |
| | 5,00 | 6 | 70 | 78 | 36 | 116 | HMC3124A050 | ● |
| | 5,10 | 6 | 70 | 78 | 36 | 116 | HMC3124A051 | ○ |
| | 5,20 | 6 | 70 | 78 | 36 | 116 | HMC3124A052 | ○ |
| | 5,40 | 6 | 70 | 78 | 36 | 116 | HMC3124A054 | ○ |
| | 5,50 | 6 | 70 | 78 | 36 | 116 | HMC3124A055 | ● |
| | 5,60 | 6 | 70 | 78 | 36 | 116 | HMC3124A056 | ○ |
| | 5,70 | 6 | 70 | 78 | 36 | 116 | HMC3124A057 | ○ |
| | 5,80 | 6 | 70 | 78 | 36 | 116 | HMC3124A058 | ○ |
| | 5,05 | 6 | 70 | 78 | 36 | 116 | HMC3124A05A | ○ |
| | 6,00 | 6 | 70 | 78 | 36 | 116 | HMC3124A060 | ● |
| | 6,10 | 8 | 94 | 108 | 36 | 146 | HMC3124A061 | ○ |
| | 6,40 | 8 | 94 | 108 | 36 | 146 | HMC3124A064 | ○ |
| | 6,50 | 8 | 94 | 108 | 36 | 146 | HMC3124A065 | ● |
| | 6,80 | 8 | 94 | 108 | 36 | 146 | HMC3124A068 | ○ |
| | 6,90 | 8 | 94 | 108 | 36 | 146 | HMC3124A069 | ○ |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 k7 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------------------------------|--------------|
| 7,00 | 8 | 94 | 108 | 36 | 146 | HMC3124A070 | ● |
| 7,10 | 8 | 94 | 108 | 36 | 146 | HMC3124A071 | ○ |
| 7,50 | 8 | 94 | 108 | 36 | 146 | HMC3124A075 | ○ |
| 7,60 | 8 | 94 | 108 | 36 | 146 | HMC3124A076 | ○ |
| 7,70 | 8 | 94 | 108 | 36 | 146 | HMC3124A077 | ○ |
| 7,80 | 8 | 94 | 108 | 36 | 146 | HMC3124A078 | ○ |
| 7,90 | 8 | 94 | 108 | 36 | 146 | HMC3124A079 | ○ |
| 8,00 | 8 | 94 | 108 | 36 | 146 | HMC3124A080 | ● |
| 8,20 | 10 | 110 | 120 | 40 | 162 | HMC3124A082 | ○ |
| 8,30 | 10 | 110 | 120 | 40 | 162 | HMC3124A083 | ○ |
| 8,40 | 10 | 110 | 120 | 40 | 162 | HMC3124A084 | ○ |
| 8,50 | 10 | 110 | 120 | 40 | 162 | HMC3124A085 | ● |
| 8,60 | 10 | 110 | 120 | 40 | 162 | HMC3124A086 | ○ |
| 8,70 | 10 | 110 | 120 | 40 | 162 | HMC3124A087 | ○ |
| 9,00 | 10 | 110 | 120 | 40 | 162 | HMC3124A090 | ● |
| 9,50 | 10 | 110 | 120 | 40 | 162 | HMC3124A095 | ○ |
| 9,60 | 10 | 110 | 120 | 40 | 162 | HMC3124A096 | ○ |
| 9,80 | 10 | 110 | 120 | 40 | 162 | HMC3124A098 | ○ |
| 9,90 | 10 | 110 | 120 | 40 | 162 | HMC3124A099 | ○ |
| 10,00 | 10 | 110 | 120 | 40 | 162 | HMC3124A100 | ● |
| 10,20 | 12 | 142 | 156 | 45 | 204 | HMC3124A102 | ○ |
| 10,50 | 12 | 142 | 156 | 45 | 204 | HMC3124A105 | ○ |
| 10,60 | 12 | 142 | 156 | 45 | 204 | HMC3124A106 | ○ |
| 11,00 | 12 | 142 | 156 | 45 | 204 | HMC3124A110 | ● |
| 11,20 | 12 | 142 | 156 | 45 | 204 | HMC3124A112 | ○ |
| 11,70 | 12 | 142 | 156 | 45 | 204 | HMC3124A117 | ○ |
| 11,80 | 12 | 142 | 156 | 45 | 204 | HMC3124A118 | ○ |
| 12,00 | 12 | 142 | 156 | 45 | 204 | HMC3124A120 | ● |
| 12,50 | 14 | 166 | 182 | 45 | 230 | HMC3124A125 | ○ |
| 13,00 | 14 | 166 | 182 | 45 | 230 | HMC3124A130 | ○ |
| 13,50 | 14 | 166 | 182 | 45 | 230 | HMC3124A135 | ○ |
| 14,00 | 14 | 166 | 182 | 45 | 230 | HMC3124A140 | ○ |
| 14,50 | 16 | 192 | 208 | 48 | 260 | HMC3124A145 | ○ |
| 15,00 | 16 | 192 | 208 | 48 | 260 | HMC3124A150 | ○ |
| 16,00 | 16 | 192 | 208 | 48 | 260 | HMC3124A160 | ○ |
| 16,50 | 18 | 216 | 234 | 48 | 285 | HMC3124A165 | ○ |
| 17,50 | 18 | 216 | 234 | 48 | 285 | HMC3124A175 | ○ |
| 19,50 | 20 | 240 | 258 | 50 | 310 | HMC3124A195 | ○ |

Notes _____

PUNTE HM PER ACCIAIO FORATURA PROFONDA FINO 30xD

HM DEEP DRILLINGS FOR STEEL UP TO 30xD /
 M-BOHRER ZUM TIEFBOHREN VON STAHL BIS 30xD /
 FORETS HM POURACIER, POUR DES PROFONDEURS JUSQU'À 30xD

3151A

Punta 15xD con fori

15xD Drill with internal coolant

15xD Bohrer mit IK

15xD Foret avec trous de lubrification

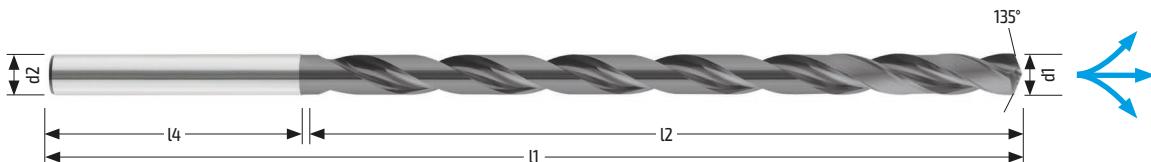


Silmax
NORM

DIN
6535 HA
(Standard)

P

K



| | d1 h7 | d2 h6 | l1 | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|--|----------|----------|-----|-----|----|-----|----------------------------|-------|
| | 3,00 | 4 | 52 | 56 | 32 | 90 | HMC3151A030 | ● |
| | 3,50 | 4 | 61 | 66 | 32 | 100 | HMC3151A035 | ● |
| | 4,00 | 4 | 60 | 66 | 32 | 100 | HMC3151A040 | ● |
| | 4,50 | 5 | 67 | 74 | 34 | 110 | HMC3151A045 | ● |
| | 5,00 | 5 | 77 | 84 | 34 | 120 | HMC3151A050 | ● |
| | 5,50 | 6 | 84 | 92 | 36 | 130 | HMC3151A055 | ● |
| | 6,00 | 6 | 93 | 102 | 36 | 140 | HMC3151A060 | ● |
| | 7,00 | 7 | 105 | 115 | 38 | 155 | HMC3151A070 | ● |
| | 8,00 | 8 | 121 | 133 | 40 | 175 | HMC3151A080 | ● |
| | 9,00 | 9 | 135 | 148 | 40 | 190 | HMC3151A090 | ● |
| | 9,50 | 10 | 153 | 168 | 40 | 210 | HMC3151A095 | ● |
| | 10,00 | 10 | 153 | 168 | 40 | 210 | HMC3151A100 | ● |
| | 11,00 | 11 | 167 | 183 | 45 | 230 | HMC3151A110 | ● |
| | 12,00 | 12 | 185 | 203 | 45 | 250 | HMC3151A120 | ● |
| | 13,00 | 13 | 199 | 218 | 45 | 265 | HMC3151A130 | ● |
| | 14,00 | 14 | 212 | 233 | 50 | 285 | HMC3151A140 | ● |
| | 15,00 | 15 | 231 | 253 | 50 | 305 | HMC3151A150 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

3201A

Punta 20xD con fori

20xD Drill with internal coolant

20xD Bohrer mit IK

20xD Foret avec trous de lubrification

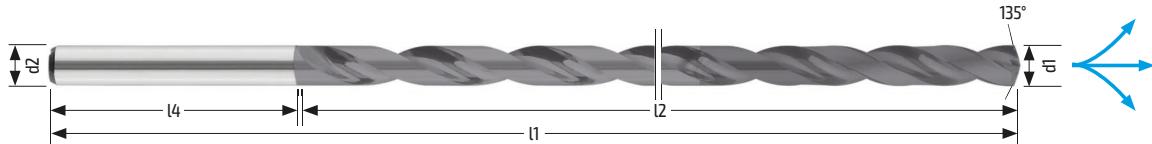


Silmax
NORM
DIN
6535 HA
(Standard)



P

K



| 135° | d1 h7 | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | Balinit® Latuma Coating | Stock |
|------|----------|----------|----------------|----------------|----------------|----------------|----------------------------|-------|
| | 3,00 | 4 | 70 | 74 | 32 | 110 | HMC3201A030 | ● |
| | 3,50 | 4 | 81 | 86 | 32 | 120 | HMC3201A035 | ● |
| | 4,00 | 4 | 80 | 86 | 32 | 120 | HMC3201A040 | ● |
| | 5,00 | 5 | 102 | 109 | 34 | 145 | HMC3201A050 | ● |
| | 5,50 | 6 | 112 | 120 | 36 | 160 | HMC3201A055 | ● |
| | 6,00 | 6 | 121 | 130 | 36 | 170 | HMC3201A060 | ● |
| | 6,50 | 7 | 140 | 150 | 36 | 190 | HMC3201A065 | ● |
| | 7,00 | 7 | 140 | 150 | 38 | 190 | HMC3201A070 | ● |
| | 8,00 | 8 | 161 | 173 | 40 | 215 | HMC3201A080 | ● |
| | 9,00 | 9 | 183 | 196 | 40 | 240 | HMC3201A090 | ● |
| | 10,00 | 10 | 203 | 218 | 40 | 260 | HMC3201A100 | ● |
| | 11,00 | 11 | 222 | 238 | 45 | 285 | HMC3201A110 | ● |
| | 12,00 | 12 | 240 | 258 | 45 | 305 | HMC3201A120 | ● |
| | 14,00 | 14 | 282 | 303 | 50 | 355 | HMC3201A140 | ● |
| | 15,00 | 15 | 301 | 323 | 50 | 375 | HMC3201A150 | ○ |
| | 16,00 | 16 | 324 | 348 | 50 | 400 | HMC3201A160 | ○ |

P

Acciaio
Steel
Stahl
Acier

H

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K

Ghisa
Cast Iron
Gusseisen
Fonte

M

Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S

HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O

NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

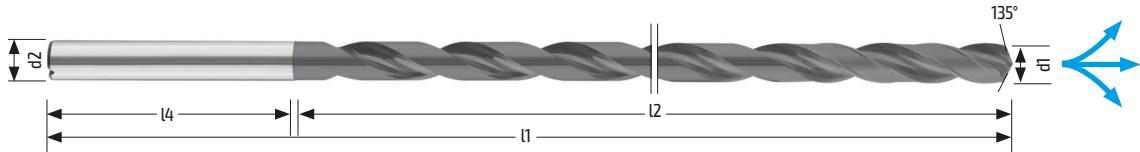
3251A

Punta 25xD con fori
25xD Drill with internal coolant
25xD Bohrer mit IK
25xD Foret avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

P

K



| 135° | d1 h7 | d2 h6 | l1 | l2 | l3 | l4 | l5 | Balinit® Latuma Coating | Stock |
|------|----------|----------|-----|-----|----|-----|-------------|----------------------------|-------|
| | 3,00 | 4 | 87 | 91 | 32 | 125 | HMC3251A030 | ● | |
| | 3,50 | 4 | 101 | 106 | 32 | 140 | HMC3251A035 | ● | |
| | 4,00 | 4 | 100 | 106 | 32 | 140 | HMC3251A040 | ● | |
| | 5,00 | 5 | 127 | 134 | 34 | 170 | HMC3251A050 | ● | |
| | 5,50 | 6 | 139 | 147 | 36 | 185 | HMC3251A055 | ● | |
| | 6,00 | 6 | 151 | 160 | 36 | 200 | HMC3251A060 | ● | |
| | 7,00 | 7 | 175 | 185 | 38 | 225 | HMC3251A070 | ● | |
| | 8,00 | 8 | 201 | 213 | 40 | 255 | HMC3251A080 | ● | |
| | 9,00 | 9 | 225 | 238 | 40 | 280 | HMC3251A090 | ● | |
| | 10,00 | 10 | 253 | 268 | 40 | 310 | HMC3251A100 | ● | |
| | 11,00 | 11 | 277 | 293 | 45 | 340 | HMC3251A110 | ● | |
| | 12,00 | 12 | 300 | 318 | 45 | 365 | HMC3251A120 | ● | |
| | 14,00 | 14 | 352 | 373 | 50 | 425 | HMC3251A140 | ○ | |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

3301A

Punta 30xD con fori
30xD Drill with internal coolant
30xD Bohrer mit IK
30xD Forêt avec trous de lubrification

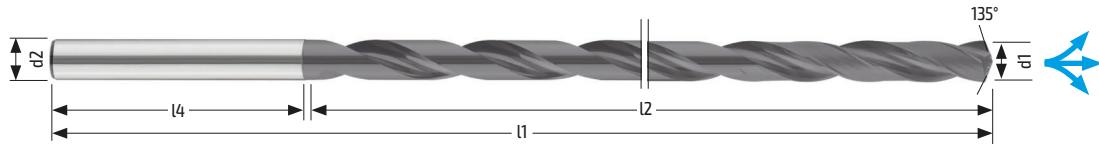


Silmax
NORM
6535 HA
(Standard)



P

K



| 135° | d1 h7 | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | Balinit® Latuma Coating | Stock |
|------|----------|----------|----------------|----------------|----------------|----------------|----------------------------|-------|
| | 3,00 | 4 | 106 | 110 | 32 | 145 | HMC3301A030 | ● |
| | 4,00 | 4 | 120 | 126 | 32 | 160 | HMC3301A040 | ● |
| | 4,50 | 5 | 137 | 144 | 34 | 180 | HMC3301A045 | ● |
| | 5,00 | 5 | 152 | 159 | 34 | 195 | HMC3301A050 | ● |
| | 5,50 | 6 | 164 | 172 | 36 | 210 | HMC3301A055 | ● |
| | 6,00 | 6 | 183 | 192 | 36 | 230 | HMC3301A060 | ● |
| | 7,00 | 7 | 210 | 220 | 38 | 260 | HMC3301A070 | ● |
| | 8,00 | 8 | 241 | 253 | 40 | 295 | HMC3301A080 | ● |
| | 9,00 | 9 | 270 | 283 | 40 | 325 | HMC3301A090 | ● |
| | 10,00 | 10 | 303 | 318 | 40 | 360 | HMC3301A100 | ● |
| | 11,00 | 11 | 337 | 353 | 45 | 400 | HMC3301A110 | ● |
| | 12,00 | 12 | 365 | 383 | 45 | 430 | HMC3301A120 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
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Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
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N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

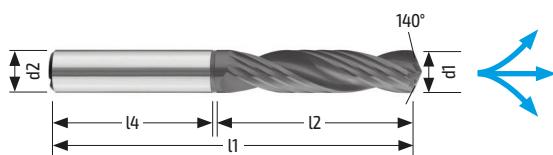
○ Disponibilità su richiesta
Availability on request

PUNTE HM FORA ALESA

HM DRILLINGS-BORING / HM BOHREIBAHLE /
FORETS HM PERÇAGE-ALÉSAGE

4031A

Punta forate-alesa 3xD con fori
3xD Drilling-Boring with internal coolant
3xD Bohrreibahle mit IK
Foret perçage-alésage 3xD avec trous de lubrification



| | d1 +/- 0,003 | | d2 h6 | l1 | l2 | l3 | l4 | l1 | Balinit® Latuma Coating | Stock |
|--|------------------------|-----------------|-----------------|-----------|-----------|-----------|-----------|--------------|----------------------------|-------|
| | 4,00 H7 | 4,000 - 4,012 | 6 | 17 | 24 | 36 | 66 | HMC4031A040H | ● | |
| | 5,00 H7 | 5,000 - 5,012 | 6 | 24 | 34 | 36 | 79 | HMC4031A050H | ● | |
| | 6,00 | 5,995 - 6,010 | 6 | 24 | 34 | 36 | 79 | HMC4031A0600 | ● | |
| | 6,00 H7 | 6,000 - 6,012 | 6 | 24 | 34 | 36 | 79 | HMC4031A060H | ● | |
| | 6,01 | 6,005 - 6,020 | 6 | 24 | 34 | 36 | 79 | HMC4031A0601 | ● | |
| | 6,02 | 6,015 - 6,030 | 6 | 24 | 34 | 36 | 79 | HMC4031A0602 | ● | |
| | 7,00 H7 | 7,000 - 7,012 | 8 | 24 | 34 | 36 | 79 | HMC4031A070H | ● | |
| | 8,00 | 7,995 - 8,010 | 8 | 24 | 34 | 36 | 79 | HMC4031A0800 | ● | |
| | 8,00 H7 | 8,000 - 8,012 | 8 | 24 | 34 | 36 | 79 | HMC4031A080H | ● | |
| | 8,01 | 8,005 - 8,020 | 8 | 24 | 34 | 36 | 79 | HMC4031A0801 | ● | |
| | 8,02 | 8,015 - 8,030 | 8 | 24 | 34 | 36 | 79 | HMC4031A0802 | ● | |
| | 10,00 | 9,995 - 10,010 | 10 | 35 | 47 | 40 | 89 | HMC4031A1000 | ● | |
| | 10,00 H7 | 10,000 - 10,012 | 10 | 35 | 47 | 40 | 89 | HMC4031A100H | ● | |
| | 10,01 | 10,005 - 10,020 | 10 | 35 | 47 | 40 | 89 | HMC4031A1001 | ● | |
| | 10,02 | 10,015 - 10,030 | 10 | 35 | 47 | 40 | 89 | HMC4031A1002 | ● | |
| | 12,00 | 11,994 - 12,012 | 12 | 40 | 55 | 45 | 102 | HMC4031A1200 | ● | |
| | 12,00 H7 | 12,000 - 12,012 | 12 | 40 | 55 | 45 | 102 | HMC4031A120H | ● | |
| | 14,00 H7 | 14,000 - 14,012 | 14 | 43 | 60 | 45 | 107 | HMC4031A140H | ● | |
| | 16,00 H7 | 16,000 - 16,012 | 16 | 45 | 65 | 48 | 115 | HMC4031A160H | ● | |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
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Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

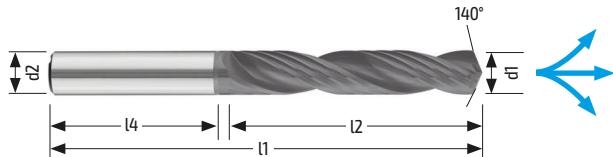
● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

4051A

Punta forate-alesa 5xD con fori
5xD Drilling-Boring with internal coolant
5xD Bohrreibahle mit IK
Forêt perçage-alésage 5xD avec trous de lubrification



| 140° | d1 +/- 0.003 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-------------|------------------------|-----------------|-----------|-----------|-----------|-----------|-----------------------------------|--------------|
| | 4,00 H7 | 4,000 - 4,012 | 6 | 29 | 36 | 36 | HMC4051A040H | ● |
| | 5,00 H7 | 5,000 - 5,012 | 6 | 43 | 36 | 91 | HMC4051A050H | ● |
| | 6,00 | 5,995 - 6,010 | 6 | 43 | 36 | 91 | HMC4051A0600 | ● |
| | 6,00 H7 | 6,000 - 6,012 | 6 | 43 | 36 | 91 | HMC4051A060H | ● |
| | 6,01 | 6,005 - 6,020 | 6 | 43 | 36 | 91 | HMC4051A0601 | ● |
| | 6,02 | 6,015 - 6,030 | 6 | 43 | 36 | 91 | HMC4051A0602 | ● |
| | 7,00 H7 | 7,000 - 7,012 | 8 | 43 | 36 | 91 | HMC4051A070H | ○ |
| | 8,00 | 7,995 - 8,010 | 8 | 43 | 36 | 91 | HMC4051A0800 | ● |
| | 8,00 H7 | 8,000 - 8,012 | 8 | 43 | 36 | 91 | HMC4051A080H | ● |
| | 8,01 | 8,005 - 8,020 | 8 | 43 | 36 | 91 | HMC4051A0801 | ● |
| | 8,02 | 8,015 - 8,030 | 8 | 43 | 36 | 91 | HMC4051A0802 | ● |
| | 10,00 H7 | 10,000 - 10,012 | 10 | 49 | 61 | 40 | 103 | HMC4051A100H |
| | 10,01 | 10,005 - 10,020 | 10 | 49 | 61 | 40 | 103 | HMC4051A1001 |
| | 10,02 | 10,015 - 10,030 | 10 | 49 | 61 | 40 | 103 | HMC4051A1002 |
| | 12,00 | 11,994 - 12,012 | 12 | 56 | 71 | 45 | 118 | HMC4051A1200 |
| | 12,00 H7 | 12,000 - 12,012 | 12 | 56 | 71 | 45 | 118 | HMC4051A120H |
| | 12,01 | 12,004 - 12,022 | 12 | 56 | 71 | 45 | 118 | HMC4051A1201 |
| | 12,02 | 12,014 - 12,032 | 12 | 56 | 71 | 45 | 118 | HMC4051A1202 |
| | 14,00 H7 | 14,000 - 14,012 | 14 | 60 | 77 | 45 | 124 | HMC4051A140H |
| | 16,00 H7 | 16,000 - 16,012 | 16 | 63 | 83 | 48 | 133 | HMC4051A160H |

| | | | | | | |
|------------------------------------|--|--|--|--|---|--|
| P | H | K | M | S | N | O |
| Acciaio Steel Stahl Acier | Acciaio Temprato Hardened Steel Gehärteter Stahl Acier trempé | Ghisa Cast Iron Gusseisen Fonte | Acciaio Inox Stainless Steel Edelstahl Acier Inoxydable | HRSA - Titanio HRSA - Titanium HRSA - Titan HRSA - Titane | Metalli non ferrosi Non-ferrous metals NE-Metalle Matières non ferreuses | NON ISO Not ISO Keine ISO Pas d'ISO |

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

PUNTE HM PIATTE

HM FLAT DRILLS / HM-FLACHBOHRER

FORETS HM MONOBLOC TYPE PLAT

4038A

Punta piatta 3xD con fori
 Flat Drill 3xD with holes
 Flachbohrer 3xD mit Kanal
 Foret plat 3xD avec trous



Silmax
NORM

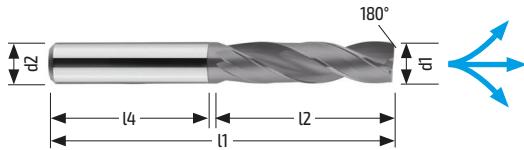
DIN
6535 HA
(Standard)



P

K

M



| 180° | d1 m7 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|------|----------|----------|----|----|----|----|----------------------------|-------|
| | 3,00 | 6 | 14 | 20 | 36 | 62 | HMC4038A030 | ● |
| | 3,10 | 6 | 14 | 20 | 36 | 62 | HMC4038A031 | ● |
| | 3,20 | 6 | 14 | 20 | 36 | 62 | HMC4038A032 | ● |
| | 3,30 | 6 | 14 | 20 | 36 | 62 | HMC4038A033 | ● |
| | 3,40 | 6 | 14 | 20 | 36 | 62 | HMC4038A034 | ● |
| | 3,50 | 6 | 14 | 20 | 36 | 62 | HMC4038A035 | ● |
| | 3,60 | 6 | 14 | 20 | 36 | 62 | HMC4038A036 | ● |
| | 3,70 | 6 | 14 | 20 | 36 | 62 | HMC4038A037 | ● |
| | 3,80 | 6 | 17 | 24 | 36 | 66 | HMC4038A038 | ● |
| | 3,90 | 6 | 17 | 24 | 36 | 66 | HMC4038A039 | ● |
| | 4,00 | 6 | 17 | 24 | 36 | 66 | HMC4038A040 | ● |
| | 4,10 | 6 | 17 | 24 | 36 | 66 | HMC4038A041 | ● |
| | 4,20 | 6 | 17 | 24 | 36 | 66 | HMC4038A042 | ● |
| | 4,30 | 6 | 17 | 24 | 36 | 66 | HMC4038A043 | ● |
| | 4,40 | 6 | 17 | 24 | 36 | 66 | HMC4038A044 | ● |
| | 4,50 | 6 | 17 | 24 | 36 | 66 | HMC4038A045 | ● |
| | 4,60 | 6 | 17 | 24 | 36 | 66 | HMC4038A046 | ● |
| | 4,70 | 6 | 17 | 24 | 36 | 66 | HMC4038A047 | ● |
| | 4,80 | 6 | 20 | 28 | 36 | 66 | HMC4038A048 | ● |
| | 4,90 | 6 | 20 | 28 | 36 | 66 | HMC4038A049 | ● |
| | 5,00 | 6 | 20 | 28 | 36 | 66 | HMC4038A050 | ● |
| | 5,10 | 6 | 20 | 28 | 36 | 66 | HMC4038A051 | ● |
| | 5,20 | 6 | 20 | 28 | 36 | 66 | HMC4038A052 | ● |
| | 5,30 | 6 | 20 | 28 | 36 | 66 | HMC4038A053 | ● |
| | 5,40 | 6 | 20 | 28 | 36 | 66 | HMC4038A054 | ● |
| | 5,50 | 6 | 20 | 28 | 36 | 66 | HMC4038A055 | ● |
| | 5,60 | 6 | 20 | 28 | 36 | 66 | HMC4038A056 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

180°

| d1 m7 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------------------------------|--------------|
| 5,70 | 6 | 20 | 28 | 36 | 66 | HMC4038A057 | ● |
| 5,80 | 6 | 20 | 28 | 36 | 66 | HMC4038A058 | ● |
| 5,90 | 6 | 20 | 28 | 36 | 66 | HMC4038A059 | ● |
| 6,00 | 6 | 20 | 28 | 36 | 66 | HMC4038A060 | ● |
| 6,10 | 8 | 24 | 34 | 36 | 79 | HMC4038A061 | ● |
| 6,20 | 8 | 24 | 34 | 36 | 79 | HMC4038A062 | ● |
| 6,30 | 8 | 24 | 34 | 36 | 79 | HMC4038A063 | ● |
| 6,40 | 8 | 24 | 34 | 36 | 79 | HMC4038A064 | ● |
| 6,50 | 8 | 24 | 34 | 36 | 79 | HMC4038A065 | ● |
| 6,60 | 8 | 24 | 34 | 36 | 79 | HMC4038A066 | ● |
| 6,70 | 8 | 24 | 34 | 36 | 79 | HMC4038A067 | ● |
| 6,80 | 8 | 24 | 34 | 36 | 79 | HMC4038A068 | ● |
| 6,90 | 8 | 24 | 34 | 36 | 79 | HMC4038A069 | ● |
| 7,00 | 8 | 24 | 34 | 36 | 79 | HMC4038A070 | ● |
| 7,10 | 8 | 29 | 41 | 36 | 79 | HMC4038A071 | ● |
| 7,20 | 8 | 29 | 41 | 36 | 79 | HMC4038A072 | ● |
| 7,30 | 8 | 29 | 41 | 36 | 79 | HMC4038A073 | ● |
| 7,40 | 8 | 29 | 41 | 36 | 79 | HMC4038A074 | ● |
| 7,50 | 8 | 29 | 41 | 36 | 79 | HMC4038A075 | ● |
| 7,60 | 8 | 29 | 41 | 36 | 79 | HMC4038A076 | ● |
| 7,70 | 8 | 29 | 41 | 36 | 79 | HMC4038A077 | ● |
| 7,80 | 8 | 29 | 41 | 36 | 79 | HMC4038A078 | ● |
| 7,90 | 8 | 29 | 41 | 36 | 79 | HMC4038A079 | ● |
| 8,00 | 8 | 29 | 41 | 36 | 79 | HMC4038A080 | ● |
| 8,10 | 10 | 35 | 47 | 40 | 89 | HMC4038A081 | ● |
| 8,20 | 10 | 35 | 47 | 40 | 89 | HMC4038A082 | ● |
| 8,30 | 10 | 35 | 47 | 40 | 89 | HMC4038A083 | ● |
| 8,40 | 10 | 35 | 47 | 40 | 89 | HMC4038A084 | ● |
| 8,50 | 10 | 35 | 47 | 40 | 89 | HMC4038A085 | ● |
| 8,60 | 10 | 35 | 47 | 40 | 89 | HMC4038A086 | ● |
| 8,70 | 10 | 35 | 47 | 40 | 89 | HMC4038A087 | ● |
| 8,80 | 10 | 35 | 47 | 40 | 89 | HMC4038A088 | ● |
| 8,90 | 10 | 35 | 47 | 40 | 89 | HMC4038A089 | ● |
| 9,00 | 10 | 35 | 47 | 40 | 89 | HMC4038A090 | ● |
| 9,10 | 10 | 35 | 47 | 40 | 89 | HMC4038A091 | ● |
| 9,20 | 10 | 35 | 47 | 40 | 89 | HMC4038A092 | ● |
| 9,30 | 10 | 35 | 47 | 40 | 89 | HMC4038A093 | ● |
| 9,40 | 10 | 35 | 47 | 40 | 89 | HMC4038A094 | ● |
| 9,50 | 10 | 35 | 47 | 40 | 89 | HMC4038A095 | ● |
| 9,60 | 10 | 35 | 47 | 40 | 89 | HMC4038A096 | ● |
| 9,70 | 10 | 35 | 47 | 40 | 89 | HMC4038A097 | ● |
| 9,80 | 10 | 35 | 47 | 40 | 89 | HMC4038A098 | ● |
| 9,90 | 10 | 35 | 47 | 40 | 89 | HMC4038A099 | ● |
| 10,00 | 10 | 35 | 47 | 40 | 89 | HMC4038A100 | ● |
| 10,10 | 12 | 38 | 53 | 45 | 100 | HMC4038A101 | ● |
| 10,20 | 12 | 38 | 53 | 45 | 100 | HMC4038A102 | ● |
| 10,30 | 12 | 38 | 53 | 45 | 100 | HMC4038A103 | ● |
| 10,40 | 12 | 38 | 53 | 45 | 100 | HMC4038A104 | ● |
| 10,50 | 12 | 38 | 53 | 45 | 100 | HMC4038A105 | ● |
| 10,60 | 12 | 38 | 53 | 45 | 100 | HMC4038A106 | ● |
| 10,70 | 12 | 38 | 53 | 45 | 100 | HMC4038A107 | ● |
| 10,80 | 12 | 38 | 53 | 45 | 100 | HMC4038A108 | ● |
| 11,00 | 12 | 38 | 53 | 45 | 100 | HMC4038A110 | ● |
| 11,10 | 12 | 38 | 53 | 45 | 100 | HMC4038A111 | ● |
| 11,20 | 12 | 38 | 53 | 45 | 100 | HMC4038A112 | ● |
| 11,30 | 12 | 38 | 53 | 45 | 100 | HMC4038A113 | ● |
| 11,40 | 12 | 38 | 53 | 45 | 100 | HMC4038A114 | ● |
| 11,50 | 12 | 38 | 53 | 45 | 100 | HMC4038A115 | ● |
| 11,60 | 12 | 38 | 53 | 45 | 100 | HMC4038A116 | ● |
| 11,70 | 12 | 38 | 53 | 45 | 100 | HMC4038A117 | ● |
| 11,80 | 12 | 38 | 53 | 45 | 100 | HMC4038A118 | ● |
| 11,90 | 12 | 38 | 53 | 45 | 100 | HMC4038A119 | ● |
| 12,00 | 12 | 38 | 53 | 45 | 100 | HMC4038A120 | ● |

4038A

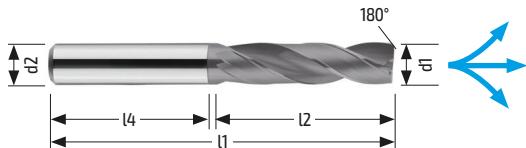
Punta piatta 3xD con fori
Flat Drill 3xD with holes
Flachbohrer 3xD mit Kanal
Forêt plat 3xD avec trous

Silmax
NORMDIN
6535 HA
(Standard)

P

K

M



| 180° | d1 m7 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|------|----------|----------|----|----|----|-----|----------------------------|-------|
| | 12,50 | 14 | 41 | 58 | 45 | 105 | HMC4038A125 | ● |
| | 12,70 | 14 | 41 | 58 | 45 | 105 | HMC4038A127 | ● |
| | 12,80 | 14 | 41 | 58 | 45 | 105 | HMC4038A128 | ● |
| | 13,00 | 14 | 41 | 58 | 45 | 105 | HMC4038A130 | ● |
| | 13,50 | 14 | 41 | 58 | 45 | 105 | HMC4038A135 | ● |
| | 13,80 | 14 | 41 | 58 | 45 | 105 | HMC4038A138 | ● |
| | 14,00 | 14 | 41 | 58 | 45 | 105 | HMC4038A140 | ● |
| | 14,50 | 16 | 43 | 63 | 48 | 113 | HMC4038A145 | ● |
| | 14,80 | 16 | 43 | 63 | 48 | 113 | HMC4038A148 | ● |
| | 15,00 | 16 | 43 | 63 | 48 | 113 | HMC4038A150 | ● |
| | 15,50 | 16 | 43 | 63 | 48 | 113 | HMC4038A155 | ● |
| | 15,80 | 16 | 43 | 63 | 48 | 113 | HMC4038A158 | ● |
| | 16,00 | 16 | 43 | 63 | 48 | 113 | HMC4038A160 | ● |
| | 16,50 | 18 | 49 | 71 | 48 | 121 | HMC4038A165 | ● |
| | 16,80 | 18 | 49 | 71 | 48 | 121 | HMC4038A168 | ● |
| | 17,00 | 18 | 49 | 71 | 48 | 121 | HMC4038A170 | ● |
| | 17,50 | 18 | 49 | 71 | 48 | 121 | HMC4038A175 | ● |
| | 18,00 | 18 | 49 | 71 | 48 | 121 | HMC4038A180 | ● |
| | 18,50 | 20 | 53 | 77 | 50 | 129 | HMC4038A185 | ● |
| | 18,80 | 20 | 53 | 77 | 50 | 129 | HMC4038A188 | ● |
| | 19,00 | 20 | 53 | 77 | 50 | 129 | HMC4038A190 | ● |
| | 19,50 | 20 | 53 | 77 | 50 | 129 | HMC4038A195 | ● |
| | 20,00 | 20 | 53 | 77 | 50 | 129 | HMC4038A200 | ● |

Notes

4058A

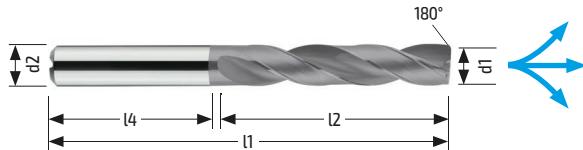
Punta piatta 5xD con fori
Flat Drill 5xD with holes
Flachbohrer 5xD mit Kanal
Foret plats 5xD avec trous

Silmax
NORMDIN
6535 HA
(Standard)

P

K

M



| 180° | d1 mm | d2 | l _u | l ₂ | l ₄ | l ₁ | Balinit® Latuma Coating | Stock |
|------|----------|----|----------------|----------------|----------------|----------------|----------------------------|-------|
| | 3,00 | 6 | 23 | 28 | 36 | 66 | HMC4058A030 | ● |
| | 3,10 | 6 | 23 | 28 | 36 | 66 | HMC4058A031 | ● |
| | 3,20 | 6 | 23 | 28 | 36 | 66 | HMC4058A032 | ● |
| | 3,30 | 6 | 23 | 28 | 36 | 66 | HMC4058A033 | ● |
| | 3,40 | 6 | 23 | 28 | 36 | 66 | HMC4058A034 | ● |
| | 3,50 | 6 | 23 | 28 | 36 | 66 | HMC4058A035 | ● |
| | 3,60 | 6 | 23 | 28 | 36 | 66 | HMC4058A036 | ● |
| | 3,70 | 6 | 23 | 28 | 36 | 66 | HMC4058A037 | ● |
| | 3,80 | 6 | 29 | 36 | 36 | 74 | HMC4058A038 | ● |
| | 3,90 | 6 | 29 | 36 | 36 | 74 | HMC4058A039 | ● |
| | 4,00 | 6 | 29 | 36 | 36 | 74 | HMC4058A040 | ● |
| | 4,10 | 6 | 29 | 36 | 36 | 74 | HMC4058A041 | ● |
| | 4,20 | 6 | 29 | 36 | 36 | 74 | HMC4058A042 | ● |
| | 4,30 | 6 | 29 | 36 | 36 | 74 | HMC4058A043 | ● |
| | 4,40 | 6 | 29 | 36 | 36 | 74 | HMC4058A044 | ● |
| | 4,50 | 6 | 29 | 36 | 36 | 74 | HMC4058A045 | ● |
| | 4,60 | 6 | 29 | 36 | 36 | 74 | HMC4058A046 | ● |
| | 4,80 | 6 | 35 | 44 | 36 | 82 | HMC4058A048 | ● |
| | 4,90 | 6 | 35 | 44 | 36 | 82 | HMC4058A049 | ● |
| | 5,00 | 6 | 35 | 44 | 36 | 82 | HMC4058A050 | ● |
| | 5,10 | 6 | 35 | 44 | 36 | 82 | HMC4058A051 | ● |
| | 5,20 | 6 | 35 | 44 | 36 | 82 | HMC4058A052 | ● |
| | 5,30 | 6 | 35 | 44 | 36 | 82 | HMC4058A053 | ● |
| | 5,40 | 6 | 35 | 44 | 36 | 82 | HMC4058A054 | ● |
| | 5,50 | 6 | 35 | 44 | 36 | 82 | HMC4058A055 | ● |
| | 5,60 | 6 | 35 | 44 | 36 | 82 | HMC4058A056 | ● |
| | 5,70 | 6 | 35 | 44 | 36 | 82 | HMC4058A057 | ● |
| | 5,80 | 6 | 35 | 44 | 36 | 82 | HMC4058A058 | ● |
| | 5,90 | 6 | 35 | 44 | 36 | 82 | HMC4058A059 | ● |
| | 6,00 | 6 | 35 | 44 | 36 | 82 | HMC4058A060 | ● |
| | 6,10 | 8 | 43 | 53 | 36 | 91 | HMC4058A061 | ● |
| | 6,20 | 8 | 43 | 53 | 36 | 91 | HMC4058A062 | ● |
| | 6,30 | 8 | 43 | 53 | 36 | 91 | HMC4058A063 | ● |
| | 6,40 | 8 | 43 | 53 | 36 | 91 | HMC4058A064 | ● |
| | 6,50 | 8 | 43 | 53 | 36 | 91 | HMC4058A065 | ● |
| | 6,60 | 8 | 43 | 53 | 36 | 91 | HMC4058A066 | ● |
| | 6,70 | 8 | 43 | 53 | 36 | 91 | HMC4058A067 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

180°

| d1 m7 | d2 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|----------|----|----|----|----|-----|----------------------------|-------|
| 6,80 | 8 | 43 | 53 | 36 | 91 | HMC4058A068 | ● |
| 6,90 | 8 | 43 | 53 | 36 | 91 | HMC4058A069 | ● |
| 7,00 | 8 | 43 | 53 | 36 | 91 | HMC4058A070 | ● |
| 7,10 | 8 | 43 | 53 | 36 | 91 | HMC4058A071 | ● |
| 7,20 | 8 | 43 | 53 | 36 | 91 | HMC4058A072 | ● |
| 7,30 | 8 | 43 | 53 | 36 | 91 | HMC4058A073 | ● |
| 7,40 | 8 | 43 | 53 | 36 | 91 | HMC4058A074 | ● |
| 7,50 | 8 | 43 | 53 | 36 | 91 | HMC4058A075 | ● |
| 7,60 | 8 | 43 | 53 | 36 | 91 | HMC4058A076 | ● |
| 7,80 | 8 | 43 | 53 | 36 | 91 | HMC4058A078 | ● |
| 7,90 | 8 | 43 | 53 | 36 | 91 | HMC4058A079 | ● |
| 8,00 | 8 | 43 | 53 | 36 | 91 | HMC4058A080 | ● |
| 8,10 | 10 | 49 | 61 | 40 | 103 | HMC4058A081 | ● |
| 8,20 | 10 | 49 | 61 | 40 | 103 | HMC4058A082 | ● |
| 8,30 | 10 | 49 | 61 | 40 | 103 | HMC4058A083 | ● |
| 8,40 | 10 | 49 | 61 | 40 | 103 | HMC4058A084 | ● |
| 8,50 | 10 | 49 | 61 | 40 | 103 | HMC4058A085 | ● |
| 8,60 | 10 | 49 | 61 | 40 | 103 | HMC4058A086 | ● |
| 8,70 | 10 | 49 | 61 | 40 | 103 | HMC4058A087 | ● |
| 8,80 | 10 | 49 | 61 | 40 | 103 | HMC4058A088 | ● |
| 8,90 | 10 | 49 | 61 | 40 | 103 | HMC4058A089 | ● |
| 9,00 | 10 | 49 | 61 | 40 | 103 | HMC4058A090 | ● |
| 9,10 | 10 | 49 | 61 | 40 | 103 | HMC4058A091 | ● |
| 9,20 | 10 | 49 | 61 | 40 | 103 | HMC4058A092 | ● |
| 9,30 | 10 | 49 | 61 | 40 | 103 | HMC4058A093 | ● |
| 9,40 | 10 | 49 | 61 | 40 | 103 | HMC4058A094 | ● |
| 9,50 | 10 | 49 | 61 | 40 | 103 | HMC4058A095 | ● |
| 9,60 | 10 | 49 | 61 | 40 | 103 | HMC4058A096 | ● |
| 9,70 | 10 | 49 | 61 | 40 | 103 | HMC4058A097 | ● |
| 9,80 | 10 | 49 | 61 | 40 | 103 | HMC4058A098 | ● |
| 9,90 | 10 | 49 | 61 | 40 | 103 | HMC4058A099 | ● |
| 10,00 | 10 | 49 | 61 | 40 | 103 | HMC4058A100 | ● |
| 10,10 | 12 | 54 | 69 | 45 | 116 | HMC4058A101 | ● |
| 10,20 | 12 | 54 | 69 | 45 | 116 | HMC4058A102 | ● |
| 10,30 | 12 | 54 | 69 | 45 | 116 | HMC4058A103 | ● |
| 10,40 | 12 | 54 | 69 | 45 | 116 | HMC4058A104 | ● |
| 10,50 | 12 | 54 | 69 | 45 | 116 | HMC4058A105 | ● |
| 10,60 | 12 | 54 | 69 | 45 | 116 | HMC4058A106 | ● |
| 10,65 | 12 | 54 | 69 | 45 | 116 | HMC4058A107 | ● |
| 10,80 | 12 | 54 | 69 | 45 | 116 | HMC4058A108 | ● |
| 11,00 | 12 | 54 | 69 | 45 | 116 | HMC4058A110 | ● |
| 11,20 | 12 | 54 | 69 | 45 | 116 | HMC4058A112 | ● |
| 11,50 | 12 | 54 | 69 | 45 | 116 | HMC4058A115 | ● |
| 11,60 | 12 | 54 | 69 | 45 | 116 | HMC4058A116 | ● |
| 11,70 | 12 | 54 | 69 | 45 | 116 | HMC4058A117 | ● |
| 11,80 | 12 | 54 | 69 | 45 | 116 | HMC4058A118 | ● |
| 12,00 | 12 | 54 | 69 | 45 | 116 | HMC4058A120 | ● |
| 12,50 | 14 | 58 | 75 | 45 | 122 | HMC4058A125 | ● |
| 12,80 | 14 | 58 | 75 | 45 | 122 | HMC4058A128 | ● |
| 13,00 | 14 | 58 | 75 | 45 | 122 | HMC4058A130 | ● |
| 13,50 | 14 | 58 | 75 | 45 | 122 | HMC4058A135 | ● |
| 13,80 | 14 | 58 | 75 | 45 | 122 | HMC4058A138 | ● |
| 14,00 | 14 | 58 | 75 | 45 | 122 | HMC4058A140 | ● |
| 14,50 | 16 | 61 | 81 | 48 | 131 | HMC4058A145 | ● |
| 14,80 | 16 | 61 | 81 | 48 | 131 | HMC4058A148 | ● |
| 15,00 | 16 | 61 | 81 | 48 | 131 | HMC4058A150 | ● |
| 15,50 | 16 | 61 | 81 | 48 | 131 | HMC4058A155 | ● |
| 15,80 | 16 | 61 | 81 | 48 | 131 | HMC4058A158 | ● |
| 16,00 | 16 | 61 | 81 | 48 | 131 | HMC4058A160 | ● |
| 16,50 | 18 | 69 | 91 | 48 | 141 | HMC4058A165 | ● |
| 17,00 | 18 | 69 | 91 | 48 | 141 | HMC4058A170 | ● |
| 17,50 | 18 | 69 | 91 | 48 | 141 | HMC4058A175 | ● |
| 17,80 | 18 | 69 | 91 | 48 | 141 | HMC4058A178 | ● |

4058A

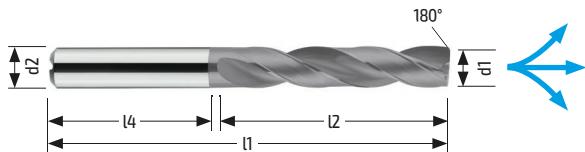
Punta piatta 5xD con fori
Flat Drill 5xD with holes
Flachbohrer 5xD mit Kanal
Forêt plate 5xD avec trous

Silmax
NORMDIN
6535 HA
(Standard)

P

K

M



| 180° | d1 mm | d2 | l1 | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|------|----------|----|----|----|----|-----|----------------------------|-------|
| | 18,00 | 18 | 69 | 91 | 48 | 141 | HMC4058A180 | ● |
| | 18,50 | 20 | 75 | 99 | 50 | 151 | HMC4058A185 | ● |
| | 19,00 | 20 | 75 | 99 | 50 | 151 | HMC4058A190 | ● |
| | 19,80 | 20 | 75 | 99 | 50 | 151 | HMC4058A198 | ● |
| | 20,00 | 20 | 75 | 99 | 50 | 151 | HMC4058A200 | ● |

Notes

PUNTE HM PER ACCIAIO INOX FINO 8xD

HM DRILLS FOR INOX UP TO 8xD / HM-BOHRER FÜR EDELSTAHL BIS ZU 8xD / FORETS HM POUR ACIER INOXYDABLE JUSQU'À 8xD

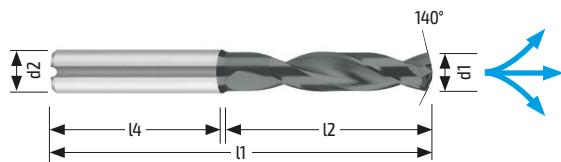
3031S

Punta 3xD con fori

3xD Drill with internal coolant

3xD Bohrer mit IK

3xD Foret avec trous de lubrification



| 140° | d1 m7 | d2 h6 | l <u>u</u> | l <u>2</u> | l <u>4</u> | l <u>1</u> | Balinit® Latuma Coating | Stock |
|------|----------|----------|------------|------------|------------|------------|----------------------------|-------|
| | 3,00 | 6 | 14 | 20 | 36 | 62 | HMC3031S030 | ● |
| | 3,10 | 6 | 14 | 20 | 36 | 62 | HMC3031S031 | ○ |
| | 3,20 | 6 | 14 | 20 | 36 | 62 | HMC3031S032 | ● |
| | 3,30 | 6 | 14 | 20 | 36 | 62 | HMC3031S033 | ● |
| | 3,40 | 6 | 14 | 20 | 36 | 62 | HMC3031S034 | ○ |
| | 3,50 | 6 | 14 | 20 | 36 | 62 | HMC3031S035 | ● |
| | 3,60 | 6 | 14 | 20 | 36 | 62 | HMC3031S036 | ○ |
| | 3,70 | 6 | 14 | 20 | 36 | 62 | HMC3031S037 | ○ |
| | 3,80 | 6 | 17 | 24 | 36 | 66 | HMC3031S038 | ○ |
| | 3,90 | 6 | 17 | 24 | 36 | 66 | HMC3031S039 | ○ |
| | 4,00 | 6 | 17 | 24 | 36 | 66 | HMC3031S040 | ● |
| | 4,10 | 6 | 17 | 24 | 36 | 66 | HMC3031S041 | ● |
| | 4,20 | 6 | 17 | 24 | 36 | 66 | HMC3031S042 | ● |
| | 4,30 | 6 | 17 | 24 | 36 | 66 | HMC3031S043 | ○ |
| | 4,40 | 6 | 17 | 24 | 36 | 66 | HMC3031S044 | ● |
| | 4,50 | 6 | 17 | 24 | 36 | 66 | HMC3031S045 | ● |
| | 4,60 | 6 | 17 | 24 | 36 | 66 | HMC3031S046 | ○ |
| | 4,70 | 6 | 17 | 24 | 36 | 66 | HMC3031S047 | ○ |
| | 4,80 | 6 | 20 | 28 | 36 | 66 | HMC3031S048 | ○ |
| | 4,90 | 6 | 20 | 28 | 36 | 66 | HMC3031S049 | ● |
| | 5,00 | 6 | 20 | 28 | 36 | 66 | HMC3031S050 | ● |
| | 5,10 | 6 | 20 | 28 | 36 | 66 | HMC3031S051 | ● |
| | 5,20 | 6 | 20 | 28 | 36 | 66 | HMC3031S052 | ○ |
| | 5,30 | 6 | 20 | 28 | 36 | 66 | HMC3031S053 | ○ |
| | 5,40 | 6 | 20 | 28 | 36 | 66 | HMC3031S054 | ○ |
| | 5,50 | 6 | 20 | 28 | 36 | 66 | HMC3031S055 | ● |
| | 5,60 | 6 | 20 | 28 | 36 | 66 | HMC3031S056 | ○ |
| | 5,70 | 6 | 20 | 28 | 36 | 66 | HMC3031S057 | ○ |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | l<u>u</u> | l<u>2</u> | l<u>4</u> | l<u>1</u> | Balinit® Latuma Coating | Stock |
|-----------------|-----------------|------------------|------------------|------------------|------------------|-----------------------------------|--------------|
| 5,80 | 6 | 20 | 28 | 36 | 66 | HMC3031S058 | ○ |
| 5,90 | 6 | 20 | 28 | 36 | 66 | HMC3031S059 | ○ |
| 6,00 | 6 | 20 | 28 | 36 | 66 | HMC3031S060 | ● |
| 6,10 | 8 | 24 | 34 | 36 | 79 | HMC3031S061 | ○ |
| 6,20 | 8 | 24 | 34 | 36 | 79 | HMC3031S062 | ○ |
| 6,30 | 8 | 24 | 34 | 36 | 79 | HMC3031S063 | ○ |
| 6,40 | 8 | 24 | 34 | 36 | 79 | HMC3031S064 | ○ |
| 6,50 | 8 | 24 | 34 | 36 | 79 | HMC3031S065 | ● |
| 6,60 | 8 | 24 | 34 | 36 | 79 | HMC3031S066 | ○ |
| 6,70 | 8 | 24 | 34 | 36 | 79 | HMC3031S067 | ● |
| 6,80 | 8 | 24 | 34 | 36 | 79 | HMC3031S068 | ● |
| 6,90 | 8 | 24 | 34 | 36 | 79 | HMC3031S069 | ○ |
| 7,00 | 8 | 24 | 34 | 36 | 79 | HMC3031S070 | ● |
| 7,10 | 8 | 29 | 41 | 36 | 79 | HMC3031S071 | ○ |
| 7,20 | 8 | 29 | 41 | 36 | 79 | HMC3031S072 | ○ |
| 7,30 | 8 | 29 | 41 | 36 | 79 | HMC3031S073 | ○ |
| 7,40 | 8 | 29 | 41 | 36 | 79 | HMC3031S074 | ○ |
| 7,50 | 8 | 29 | 41 | 36 | 79 | HMC3031S075 | ● |
| 7,60 | 8 | 29 | 41 | 36 | 79 | HMC3031S076 | ○ |
| 7,70 | 8 | 29 | 41 | 36 | 79 | HMC3031S077 | ○ |
| 7,80 | 8 | 29 | 41 | 36 | 79 | HMC3031S078 | ○ |
| 7,90 | 8 | 29 | 41 | 36 | 79 | HMC3031S079 | ○ |
| 8,00 | 8 | 29 | 41 | 36 | 79 | HMC3031S080 | ● |
| 8,10 | 10 | 35 | 47 | 40 | 89 | HMC3031S081 | ○ |
| 8,20 | 10 | 35 | 47 | 40 | 89 | HMC3031S082 | ○ |
| 8,30 | 10 | 35 | 47 | 40 | 89 | HMC3031S083 | ○ |
| 8,40 | 10 | 35 | 47 | 40 | 89 | HMC3031S084 | ● |
| 8,50 | 10 | 35 | 47 | 40 | 89 | HMC3031S085 | ● |
| 8,60 | 10 | 35 | 47 | 40 | 89 | HMC3031S086 | ○ |
| 8,70 | 10 | 35 | 47 | 40 | 89 | HMC3031S087 | ○ |
| 8,80 | 10 | 35 | 47 | 40 | 89 | HMC3031S088 | ○ |
| 8,90 | 10 | 35 | 47 | 40 | 89 | HMC3031S089 | ○ |
| 9,00 | 10 | 35 | 47 | 40 | 89 | HMC3031S090 | ● |
| 9,10 | 10 | 35 | 47 | 40 | 89 | HMC3031S091 | ○ |
| 9,20 | 10 | 35 | 47 | 40 | 89 | HMC3031S092 | ○ |
| 9,30 | 10 | 35 | 47 | 40 | 89 | HMC3031S093 | ○ |
| 9,40 | 10 | 35 | 47 | 40 | 89 | HMC3031S094 | ○ |
| 9,50 | 10 | 35 | 47 | 40 | 89 | HMC3031S095 | ● |
| 9,60 | 10 | 35 | 47 | 40 | 89 | HMC3031S096 | ○ |
| 9,70 | 10 | 35 | 47 | 40 | 89 | HMC3031S097 | ○ |
| 9,80 | 10 | 35 | 47 | 40 | 89 | HMC3031S098 | ○ |
| 9,90 | 10 | 35 | 47 | 40 | 89 | HMC3031S099 | ○ |
| 10,00 | 10 | 35 | 47 | 40 | 89 | HMC3031S100 | ● |
| 10,10 | 12 | 40 | 55 | 45 | 102 | HMC3031S101 | ● |
| 10,20 | 12 | 40 | 55 | 45 | 102 | HMC3031S102 | ● |
| 10,30 | 12 | 40 | 55 | 45 | 102 | HMC3031S103 | ○ |
| 10,40 | 12 | 40 | 55 | 45 | 102 | HMC3031S104 | ○ |
| 10,50 | 12 | 40 | 55 | 45 | 102 | HMC3031S105 | ● |
| 10,60 | 12 | 40 | 55 | 45 | 102 | HMC3031S106 | ○ |
| 10,70 | 12 | 40 | 55 | 45 | 102 | HMC3031S107 | ○ |
| 10,80 | 12 | 40 | 55 | 45 | 102 | HMC3031S108 | ○ |
| 10,90 | 12 | 40 | 55 | 45 | 102 | HMC3031S109 | ○ |
| 11,00 | 12 | 40 | 55 | 45 | 102 | HMC3031S110 | ● |
| 11,10 | 12 | 40 | 55 | 45 | 102 | HMC3031S111 | ○ |
| 11,20 | 12 | 40 | 55 | 45 | 102 | HMC3031S112 | ○ |
| 11,30 | 12 | 40 | 55 | 45 | 102 | HMC3031S113 | ○ |
| 11,40 | 12 | 40 | 55 | 45 | 102 | HMC3031S114 | ○ |
| 11,50 | 12 | 40 | 55 | 45 | 102 | HMC3031S115 | ● |
| 11,60 | 12 | 40 | 55 | 45 | 102 | HMC3031S116 | ○ |
| 11,70 | 12 | 40 | 55 | 45 | 102 | HMC3031S117 | ○ |
| 11,80 | 12 | 40 | 55 | 45 | 102 | HMC3031S118 | ○ |
| 11,90 | 12 | 40 | 55 | 45 | 102 | HMC3031S119 | ○ |
| 12,00 | 12 | 40 | 55 | 45 | 102 | HMC3031S120 | ● |
| 12,10 | 14 | 43 | 60 | 45 | 107 | HMC3031S121 | ○ |
| 12,20 | 14 | 43 | 60 | 45 | 107 | HMC3031S122 | ○ |
| 12,30 | 14 | 43 | 60 | 45 | 107 | HMC3031S123 | ○ |

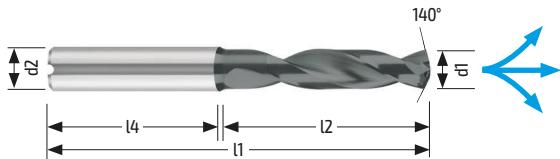
3031S

Punta 3xD con fori

3xD Drill with internal coolant

3xD Bohrer mit IK

3xD Forêt avec trous de lubrification



| 140° | d1 m7 | d2 h6 | l<u>u</u> | l₂ | l₄ | l₁ | Balinit® Latuma Coating | Stock |
|-------------|------------------|------------------|------------------|----------------------|----------------------|----------------------|------------------------------------|--------------|
| | 12,40 | 14 | 43 | 60 | 45 | 107 | HMC3031S124 | ○ |
| | 12,50 | 14 | 43 | 60 | 45 | 107 | HMC3031S125 | ● |
| | 12,60 | 14 | 43 | 60 | 45 | 107 | HMC3031S126 | ○ |
| | 12,70 | 14 | 43 | 60 | 45 | 107 | HMC3031S127 | ○ |
| | 12,80 | 14 | 43 | 60 | 45 | 107 | HMC3031S128 | ○ |
| | 12,90 | 14 | 43 | 60 | 45 | 107 | HMC3031S129 | ○ |
| | 13,00 | 14 | 43 | 60 | 45 | 107 | HMC3031S130 | ● |
| | 13,10 | 14 | 43 | 60 | 45 | 107 | HMC3031S131 | ○ |
| | 13,20 | 14 | 43 | 60 | 45 | 107 | HMC3031S132 | ○ |
| | 13,30 | 14 | 43 | 60 | 45 | 107 | HMC3031S133 | ○ |
| | 13,40 | 14 | 43 | 60 | 45 | 107 | HMC3031S134 | ○ |
| | 13,50 | 14 | 43 | 60 | 45 | 107 | HMC3031S135 | ● |
| | 13,60 | 14 | 43 | 60 | 45 | 107 | HMC3031S136 | ○ |
| | 13,70 | 14 | 43 | 60 | 45 | 107 | HMC3031S137 | ○ |
| | 13,80 | 14 | 43 | 60 | 45 | 107 | HMC3031S138 | ○ |
| | 13,90 | 14 | 43 | 60 | 45 | 107 | HMC3031S139 | ○ |
| | 14,00 | 14 | 43 | 60 | 45 | 107 | HMC3031S140 | ● |
| | 14,10 | 16 | 45 | 65 | 48 | 115 | HMC3031S141 | ○ |
| | 14,20 | 16 | 45 | 65 | 48 | 115 | HMC3031S142 | ○ |
| | 14,30 | 16 | 45 | 65 | 48 | 115 | HMC3031S143 | ○ |
| | 14,40 | 16 | 45 | 65 | 48 | 115 | HMC3031S144 | ○ |
| | 14,50 | 16 | 45 | 65 | 48 | 115 | HMC3031S145 | ○ |
| | 14,60 | 16 | 45 | 65 | 48 | 115 | HMC3031S146 | ○ |
| | 14,70 | 16 | 45 | 65 | 48 | 115 | HMC3031S147 | ○ |
| | 14,80 | 16 | 45 | 65 | 48 | 115 | HMC3031S148 | ○ |
| | 14,90 | 16 | 45 | 65 | 48 | 115 | HMC3031S149 | ○ |
| | 15,00 | 16 | 45 | 65 | 48 | 115 | HMC3031S150 | ○ |
| | 15,10 | 16 | 45 | 65 | 48 | 115 | HMC3031S151 | ○ |
| | 15,20 | 16 | 45 | 65 | 48 | 115 | HMC3031S152 | ○ |
| | 15,30 | 16 | 45 | 65 | 48 | 115 | HMC3031S153 | ○ |
| | 15,40 | 16 | 45 | 65 | 48 | 115 | HMC3031S154 | ○ |
| | 15,50 | 16 | 45 | 65 | 48 | 115 | HMC3031S155 | ○ |
| | 15,60 | 16 | 45 | 65 | 48 | 115 | HMC3031S156 | ○ |
| | 15,70 | 16 | 45 | 65 | 48 | 115 | HMC3031S157 | ○ |
| | 15,80 | 16 | 45 | 65 | 48 | 115 | HMC3031S158 | ○ |
| | 15,90 | 16 | 45 | 65 | 48 | 115 | HMC3031S159 | ○ |
| | 16,00 | 16 | 45 | 65 | 48 | 115 | HMC3031S160 | ○ |
| | 16,10 | 18 | 52 | 73 | 48 | 123 | HMC3031S161 | ○ |
| | 16,20 | 18 | 52 | 73 | 48 | 123 | HMC3031S162 | ○ |
| | 16,30 | 18 | 52 | 73 | 48 | 123 | HMC3031S163 | ○ |
| | 16,40 | 18 | 52 | 73 | 48 | 123 | HMC3031S164 | ○ |
| | 16,50 | 18 | 52 | 73 | 48 | 123 | HMC3031S165 | ○ |
| | 16,60 | 18 | 52 | 73 | 48 | 123 | HMC3031S166 | ○ |
| | 16,70 | 18 | 52 | 73 | 48 | 123 | HMC3031S167 | ○ |
| | 16,80 | 18 | 52 | 73 | 48 | 123 | HMC3031S168 | ○ |
| | 16,90 | 18 | 52 | 73 | 48 | 123 | HMC3031S169 | ○ |
| | 17,00 | 18 | 52 | 73 | 48 | 123 | HMC3031S170 | ○ |
| | 17,10 | 18 | 52 | 73 | 48 | 123 | HMC3031S171 | ○ |
| | 17,20 | 18 | 52 | 73 | 48 | 123 | HMC3031S172 | ○ |
| | 17,30 | 18 | 52 | 73 | 48 | 123 | HMC3031S173 | ○ |

140°

| d1 m7 | d2 h6 | l1 | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|----------|----------|----|----|----|-----|----------------------------|-----------------------|
| 17,40 | 18 | 52 | 73 | 48 | 123 | HMC3031S174 | <input type="radio"/> |
| 17,50 | 18 | 52 | 73 | 48 | 123 | HMC3031S175 | <input type="radio"/> |
| 17,60 | 18 | 52 | 73 | 48 | 123 | HMC3031S176 | <input type="radio"/> |
| 17,70 | 18 | 52 | 73 | 48 | 123 | HMC3031S177 | <input type="radio"/> |
| 17,80 | 18 | 52 | 73 | 48 | 123 | HMC3031S178 | <input type="radio"/> |
| 17,90 | 18 | 52 | 73 | 48 | 123 | HMC3031S179 | <input type="radio"/> |
| 18,00 | 18 | 52 | 73 | 48 | 123 | HMC3031S180 | <input type="radio"/> |
| 18,10 | 20 | 57 | 79 | 50 | 131 | HMC3031S181 | <input type="radio"/> |
| 18,20 | 20 | 57 | 79 | 50 | 131 | HMC3031S182 | <input type="radio"/> |
| 18,30 | 20 | 57 | 79 | 50 | 131 | HMC3031S183 | <input type="radio"/> |
| 18,40 | 20 | 57 | 79 | 50 | 131 | HMC3031S184 | <input type="radio"/> |
| 18,50 | 20 | 57 | 79 | 50 | 131 | HMC3031S185 | <input type="radio"/> |
| 18,60 | 20 | 57 | 79 | 50 | 131 | HMC3031S186 | <input type="radio"/> |
| 18,70 | 20 | 57 | 79 | 50 | 131 | HMC3031S187 | <input type="radio"/> |
| 18,80 | 20 | 57 | 79 | 50 | 131 | HMC3031S188 | <input type="radio"/> |
| 18,90 | 20 | 57 | 79 | 50 | 131 | HMC3031S189 | <input type="radio"/> |
| 19,00 | 20 | 57 | 79 | 50 | 131 | HMC3031S190 | <input type="radio"/> |
| 19,10 | 20 | 57 | 79 | 50 | 131 | HMC3031S191 | <input type="radio"/> |
| 19,20 | 20 | 57 | 79 | 50 | 131 | HMC3031S192 | <input type="radio"/> |
| 19,30 | 20 | 57 | 79 | 50 | 131 | HMC3031S193 | <input type="radio"/> |
| 19,40 | 20 | 57 | 79 | 50 | 131 | HMC3031S194 | <input type="radio"/> |
| 19,50 | 20 | 57 | 79 | 50 | 131 | HMC3031S195 | <input type="radio"/> |
| 19,60 | 20 | 57 | 79 | 50 | 131 | HMC3031S196 | <input type="radio"/> |
| 19,70 | 20 | 57 | 79 | 50 | 131 | HMC3031S197 | <input type="radio"/> |
| 19,80 | 20 | 57 | 79 | 50 | 131 | HMC3031S198 | <input type="radio"/> |
| 19,90 | 20 | 57 | 79 | 50 | 131 | HMC3031S199 | <input type="radio"/> |
| 20,00 | 20 | 57 | 79 | 50 | 131 | HMC3031S200 | <input type="radio"/> |

Notes _____

3051S

Punta 5xD con fori

5xD Drill with internal coolant

5xD Bohrer mit IK

5xD Forêt avec trous de lubrification

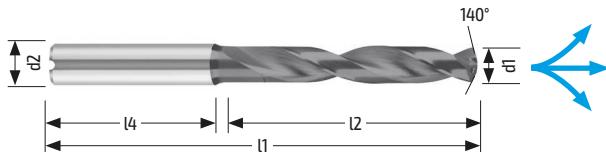


P

K

M

S



| 140° | d1 m7 | d2 h6 | l _u | l ₂ | l ₄ | l ₁ | Balinit® Latuma Coating | Stock |
|------|----------|----------|----------------|----------------|----------------|----------------|----------------------------|-------|
| | 3,00 | 6 | 23 | 27 | 36 | 66 | HMC3051S030 | ● |
| | 3,10 | 6 | 23 | 27 | 36 | 66 | HMC3051S031 | ○ |
| | 3,20 | 6 | 23 | 27 | 36 | 66 | HMC3051S032 | ● |
| | 3,30 | 6 | 23 | 27 | 36 | 66 | HMC3051S033 | ● |
| | 3,40 | 6 | 23 | 27 | 36 | 66 | HMC3051S034 | ○ |
| | 3,50 | 6 | 23 | 27 | 36 | 66 | HMC3051S035 | ● |
| | 3,60 | 6 | 23 | 27 | 36 | 66 | HMC3051S036 | ○ |
| | 3,70 | 6 | 23 | 27 | 36 | 66 | HMC3051S037 | ○ |
| | 3,80 | 6 | 29 | 36 | 36 | 74 | HMC3051S038 | ○ |
| | 3,90 | 6 | 29 | 36 | 36 | 74 | HMC3051S039 | ○ |
| | 4,00 | 6 | 29 | 36 | 36 | 74 | HMC3051S040 | ● |
| | 4,10 | 6 | 29 | 36 | 36 | 74 | HMC3051S041 | ● |
| | 4,20 | 6 | 29 | 36 | 36 | 74 | HMC3051S042 | ● |
| | 4,30 | 6 | 29 | 36 | 36 | 74 | HMC3051S043 | ○ |
| | 4,40 | 6 | 29 | 36 | 36 | 74 | HMC3051S044 | ○ |
| | 4,50 | 6 | 29 | 36 | 36 | 74 | HMC3051S045 | ● |
| | 4,60 | 6 | 29 | 36 | 36 | 74 | HMC3051S046 | ○ |
| | 4,70 | 6 | 29 | 36 | 36 | 74 | HMC3051S047 | ○ |
| | 4,80 | 6 | 35 | 44 | 36 | 82 | HMC3051S048 | ○ |
| | 4,90 | 6 | 35 | 44 | 36 | 82 | HMC3051S049 | ● |
| | 5,00 | 6 | 35 | 44 | 36 | 82 | HMC3051S050 | ● |
| | 5,10 | 6 | 35 | 44 | 36 | 82 | HMC3051S051 | ○ |
| | 5,20 | 6 | 35 | 44 | 36 | 82 | HMC3051S052 | ● |
| | 5,30 | 6 | 35 | 44 | 36 | 82 | HMC3051S053 | ○ |
| | 5,40 | 6 | 35 | 44 | 36 | 82 | HMC3051S054 | ○ |
| | 5,50 | 6 | 35 | 44 | 36 | 82 | HMC3051S055 | ● |
| | 5,60 | 6 | 35 | 44 | 36 | 82 | HMC3051S056 | ○ |
| | 5,70 | 6 | 35 | 44 | 36 | 82 | HMC3051S057 | ○ |
| | 5,80 | 6 | 35 | 44 | 36 | 82 | HMC3051S058 | ○ |
| | 5,90 | 6 | 35 | 44 | 36 | 82 | HMC3051S059 | ○ |
| | 6,00 | 6 | 35 | 44 | 36 | 82 | HMC3051S060 | ● |
| | 6,10 | 8 | 43 | 53 | 36 | 91 | HMC3051S061 | ○ |
| | 6,20 | 8 | 43 | 53 | 36 | 91 | HMC3051S062 | ○ |
| | 6,30 | 8 | 43 | 53 | 36 | 91 | HMC3051S063 | ○ |
| | 6,40 | 8 | 43 | 53 | 36 | 91 | HMC3051S064 | ○ |
| | 6,50 | 8 | 43 | 53 | 36 | 91 | HMC3051S065 | ● |

PAcciaio
Steel
Stahl
Acier**H**Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé**K**Ghisa
Cast Iron
Gusseisen
Fonte**M**Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable**S**HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane**N**Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses**O**NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | l <u>u</u> | l <u>2</u> | l <u>4</u> | l <u>1</u> | Balinit® Latuma Coating | Stock |
|----------|----------|------------|------------|------------|------------|----------------------------|-------|
| 6,60 | 8 | 43 | 53 | 36 | 91 | HMC3051S066 | ○ |
| 6,70 | 8 | 43 | 53 | 36 | 91 | HMC3051S067 | ● |
| 6,80 | 8 | 43 | 53 | 36 | 91 | HMC3051S068 | ● |
| 6,90 | 8 | 43 | 53 | 36 | 91 | HMC3051S069 | ○ |
| 7,00 | 8 | 43 | 53 | 36 | 91 | HMC3051S070 | ● |
| 7,10 | 8 | 43 | 53 | 36 | 91 | HMC3051S071 | ○ |
| 7,20 | 8 | 43 | 53 | 36 | 91 | HMC3051S072 | ○ |
| 7,30 | 8 | 43 | 53 | 36 | 91 | HMC3051S073 | ○ |
| 7,40 | 8 | 43 | 53 | 36 | 91 | HMC3051S074 | ○ |
| 7,50 | 8 | 43 | 53 | 36 | 91 | HMC3051S075 | ● |
| 7,60 | 8 | 43 | 53 | 36 | 91 | HMC3051S076 | ○ |
| 7,70 | 8 | 43 | 53 | 36 | 91 | HMC3051S077 | ○ |
| 7,80 | 8 | 43 | 53 | 36 | 91 | HMC3051S078 | ○ |
| 7,90 | 8 | 43 | 53 | 36 | 91 | HMC3051S079 | ○ |
| 8,00 | 8 | 43 | 53 | 36 | 91 | HMC3051S080 | ● |
| 8,10 | 10 | 49 | 61 | 40 | 103 | HMC3051S081 | ○ |
| 8,20 | 10 | 49 | 61 | 40 | 103 | HMC3051S082 | ○ |
| 8,30 | 10 | 49 | 61 | 40 | 103 | HMC3051S083 | ○ |
| 8,40 | 10 | 49 | 61 | 40 | 103 | HMC3051S084 | ● |
| 8,50 | 10 | 49 | 61 | 40 | 103 | HMC3051S085 | ● |
| 8,60 | 10 | 49 | 61 | 40 | 103 | HMC3051S086 | ○ |
| 8,70 | 10 | 49 | 61 | 40 | 103 | HMC3051S087 | ● |
| 8,80 | 10 | 49 | 61 | 40 | 103 | HMC3051S088 | ● |
| 8,90 | 10 | 49 | 61 | 40 | 103 | HMC3051S089 | ○ |
| 9,00 | 10 | 49 | 61 | 40 | 103 | HMC3051S090 | ● |
| 9,10 | 10 | 49 | 61 | 40 | 103 | HMC3051S091 | ○ |
| 9,20 | 10 | 49 | 61 | 40 | 103 | HMC3051S092 | ○ |
| 9,30 | 10 | 49 | 61 | 40 | 103 | HMC3051S093 | ○ |
| 9,40 | 10 | 49 | 61 | 40 | 103 | HMC3051S094 | ○ |
| 9,50 | 10 | 49 | 61 | 40 | 103 | HMC3051S095 | ● |
| 9,60 | 10 | 49 | 61 | 40 | 103 | HMC3051S096 | ○ |
| 9,70 | 10 | 49 | 61 | 40 | 103 | HMC3051S097 | ○ |
| 9,80 | 10 | 49 | 61 | 40 | 103 | HMC3051S098 | ○ |
| 9,90 | 10 | 49 | 61 | 40 | 103 | HMC3051S099 | ○ |
| 10,00 | 10 | 49 | 61 | 40 | 103 | HMC3051S100 | ● |
| 10,10 | 12 | 56 | 71 | 45 | 118 | HMC3051S101 | ● |
| 10,20 | 12 | 56 | 71 | 45 | 118 | HMC3051S102 | ● |
| 10,30 | 12 | 56 | 71 | 45 | 118 | HMC3051S103 | ○ |
| 10,40 | 12 | 56 | 71 | 45 | 118 | HMC3051S104 | ○ |
| 10,50 | 12 | 56 | 71 | 45 | 118 | HMC3051S105 | ● |
| 10,60 | 12 | 56 | 71 | 45 | 118 | HMC3051S106 | ○ |
| 10,70 | 12 | 56 | 71 | 45 | 118 | HMC3051S107 | ○ |
| 10,80 | 12 | 56 | 71 | 45 | 118 | HMC3051S108 | ● |
| 10,90 | 12 | 56 | 71 | 45 | 118 | HMC3051S109 | ○ |
| 11,00 | 12 | 56 | 71 | 45 | 118 | HMC3051S110 | ● |
| 11,10 | 12 | 56 | 71 | 45 | 118 | HMC3051S111 | ○ |
| 11,20 | 12 | 56 | 71 | 45 | 118 | HMC3051S112 | ○ |
| 11,30 | 12 | 56 | 71 | 45 | 118 | HMC3051S113 | ○ |
| 11,40 | 12 | 56 | 71 | 45 | 118 | HMC3051S114 | ○ |
| 11,50 | 12 | 56 | 71 | 45 | 118 | HMC3051S115 | ● |
| 11,60 | 12 | 56 | 71 | 45 | 118 | HMC3051S116 | ○ |
| 11,70 | 12 | 56 | 71 | 45 | 118 | HMC3051S117 | ○ |
| 11,80 | 12 | 56 | 71 | 45 | 118 | HMC3051S118 | ○ |
| 11,90 | 12 | 56 | 71 | 45 | 118 | HMC3051S119 | ○ |
| 12,00 | 12 | 56 | 71 | 45 | 118 | HMC3051S120 | ● |
| 12,10 | 14 | 60 | 77 | 45 | 124 | HMC3051S121 | ○ |
| 12,20 | 14 | 60 | 77 | 45 | 124 | HMC3051S122 | ○ |
| 12,30 | 14 | 60 | 77 | 45 | 124 | HMC3051S123 | ○ |
| 12,40 | 14 | 60 | 77 | 45 | 124 | HMC3051S124 | ○ |
| 12,50 | 14 | 60 | 77 | 45 | 124 | HMC3051S125 | ● |
| 12,60 | 14 | 60 | 77 | 45 | 124 | HMC3051S126 | ○ |
| 12,70 | 14 | 60 | 77 | 45 | 124 | HMC3051S127 | ○ |
| 12,80 | 14 | 60 | 77 | 45 | 124 | HMC3051S128 | ○ |
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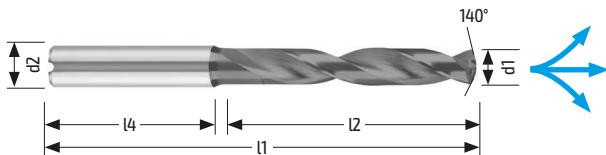
3051S

Punta 5xD con fori

5xD Drill with internal coolant

5xD Bohrer mit IK

5xD Foret avec trous de lubrification



|  140° | d1 m7 | d2 h6 | l1 | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|--|----------|----------|----|----|----|-----|----------------------------|-------|
| | 13,00 | 14 | 60 | 77 | 45 | 124 | HMC3051S130 | ● |
| | 13,10 | 14 | 60 | 77 | 45 | 124 | HMC3051S131 | ○ |
| | 13,20 | 14 | 60 | 77 | 45 | 124 | HMC3051S132 | ○ |
| | 13,30 | 14 | 60 | 77 | 45 | 124 | HMC3051S133 | ○ |
| | 13,40 | 14 | 60 | 77 | 45 | 124 | HMC3051S134 | ○ |
| | 13,50 | 14 | 60 | 77 | 45 | 124 | HMC3051S135 | ● |
| | 13,60 | 14 | 60 | 77 | 45 | 124 | HMC3051S136 | ○ |
| | 13,70 | 14 | 60 | 77 | 45 | 124 | HMC3051S137 | ○ |
| | 13,80 | 14 | 60 | 77 | 45 | 124 | HMC3051S138 | ● |
| | 13,90 | 14 | 60 | 77 | 45 | 124 | HMC3051S139 | ○ |
| | 14,00 | 14 | 60 | 77 | 45 | 124 | HMC3051S140 | ● |
| | 14,10 | 16 | 63 | 83 | 48 | 133 | HMC3051S141 | ○ |
| | 14,20 | 16 | 63 | 83 | 48 | 133 | HMC3051S142 | ○ |
| | 14,30 | 16 | 63 | 83 | 48 | 133 | HMC3051S143 | ○ |
| | 14,40 | 16 | 63 | 83 | 48 | 133 | HMC3051S144 | ○ |
| | 14,50 | 16 | 63 | 83 | 48 | 133 | HMC3051S145 | ● |
| | 14,60 | 16 | 63 | 83 | 48 | 133 | HMC3051S146 | ○ |
| | 14,70 | 16 | 63 | 83 | 48 | 133 | HMC3051S147 | ○ |
| | 14,80 | 16 | 63 | 83 | 48 | 133 | HMC3051S148 | ○ |
| | 14,90 | 16 | 63 | 83 | 48 | 133 | HMC3051S149 | ○ |
| | 15,00 | 16 | 63 | 83 | 48 | 133 | HMC3051S150 | ● |
| | 15,10 | 16 | 63 | 83 | 48 | 133 | HMC3051S151 | ○ |
| | 15,20 | 16 | 63 | 83 | 48 | 133 | HMC3051S152 | ○ |
| | 15,30 | 16 | 63 | 83 | 48 | 133 | HMC3051S153 | ○ |
| | 15,40 | 16 | 63 | 83 | 48 | 133 | HMC3051S154 | ○ |
| | 15,50 | 16 | 63 | 83 | 48 | 133 | HMC3051S155 | ○ |
| | 15,60 | 16 | 63 | 83 | 48 | 133 | HMC3051S156 | ○ |
| | 15,70 | 16 | 63 | 83 | 48 | 133 | HMC3051S157 | ○ |
| | 15,80 | 16 | 63 | 83 | 48 | 133 | HMC3051S158 | ○ |
| | 15,90 | 16 | 63 | 83 | 48 | 133 | HMC3051S159 | ○ |
| | 16,00 | 16 | 63 | 83 | 48 | 133 | HMC3051S160 | ● |
| | 16,10 | 18 | 72 | 93 | 48 | 143 | HMC3051S161 | ○ |
| | 16,20 | 18 | 72 | 93 | 48 | 143 | HMC3051S162 | ○ |
| | 16,30 | 18 | 72 | 93 | 48 | 143 | HMC3051S163 | ○ |
| | 16,40 | 18 | 72 | 93 | 48 | 143 | HMC3051S164 | ○ |
| | 16,50 | 18 | 72 | 93 | 48 | 143 | HMC3051S165 | ○ |
| | 16,60 | 18 | 72 | 93 | 48 | 143 | HMC3051S166 | ○ |
| | 16,70 | 18 | 72 | 93 | 48 | 143 | HMC3051S167 | ○ |
| | 16,80 | 18 | 72 | 93 | 48 | 143 | HMC3051S168 | ○ |
| | 16,90 | 18 | 72 | 93 | 48 | 143 | HMC3051S169 | ○ |
| | 17,00 | 18 | 72 | 93 | 48 | 143 | HMC3051S170 | ○ |
| | 17,10 | 18 | 72 | 93 | 48 | 143 | HMC3051S171 | ○ |
| | 17,20 | 18 | 72 | 93 | 48 | 143 | HMC3051S172 | ○ |
| | 17,30 | 18 | 72 | 93 | 48 | 143 | HMC3051S173 | ○ |
| | 17,40 | 18 | 72 | 93 | 48 | 143 | HMC3051S174 | ○ |
| | 17,50 | 18 | 72 | 93 | 48 | 143 | HMC3051S175 | ○ |
| | 17,60 | 18 | 72 | 93 | 48 | 143 | HMC3051S176 | ○ |
| | 17,70 | 18 | 72 | 93 | 48 | 143 | HMC3051S177 | ○ |
| | 17,80 | 18 | 72 | 93 | 48 | 143 | HMC3051S178 | ○ |
| | 17,90 | 18 | 72 | 93 | 48 | 143 | HMC3051S179 | ○ |

140°

| d1 m7 | d2 h6 | l <u>u</u> | l <u>2</u> | l <u>4</u> | l <u>1</u> | Balinit® Latuma Coating | Stock |
|----------|----------|------------|------------|------------|------------|----------------------------|-----------------------|
| 18,00 | 18 | 72 | 93 | 48 | 143 | HMC3051S180 | <input type="radio"/> |
| 18,10 | 20 | 79 | 101 | 50 | 153 | HMC3051S181 | <input type="radio"/> |
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| 18,30 | 20 | 79 | 101 | 50 | 153 | HMC3051S183 | <input type="radio"/> |
| 18,40 | 20 | 79 | 101 | 50 | 153 | HMC3051S184 | <input type="radio"/> |
| 18,50 | 20 | 79 | 101 | 50 | 153 | HMC3051S185 | <input type="radio"/> |
| 18,60 | 20 | 79 | 101 | 50 | 153 | HMC3051S186 | <input type="radio"/> |
| 18,70 | 20 | 79 | 101 | 50 | 153 | HMC3051S187 | <input type="radio"/> |
| 18,80 | 20 | 79 | 101 | 50 | 153 | HMC3051S188 | <input type="radio"/> |
| 18,90 | 20 | 79 | 101 | 50 | 153 | HMC3051S189 | <input type="radio"/> |
| 19,00 | 20 | 79 | 101 | 50 | 153 | HMC3051S190 | <input type="radio"/> |
| 19,10 | 20 | 79 | 101 | 50 | 153 | HMC3051S191 | <input type="radio"/> |
| 19,20 | 20 | 79 | 101 | 50 | 153 | HMC3051S192 | <input type="radio"/> |
| 19,30 | 20 | 79 | 101 | 50 | 153 | HMC3051S193 | <input type="radio"/> |
| 19,40 | 20 | 79 | 101 | 50 | 153 | HMC3051S194 | <input type="radio"/> |
| 19,50 | 20 | 79 | 101 | 50 | 153 | HMC3051S195 | <input type="radio"/> |
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| 19,90 | 20 | 79 | 101 | 50 | 153 | HMC3051S199 | <input type="radio"/> |
| 20,00 | 20 | 79 | 101 | 50 | 153 | HMC3051S200 | <input type="radio"/> |

Notes _____

3081S

Punta 8xD con fori

8xD Drill with internal coolant

8xD Bohrer mit IK

8xD Forêt avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

P



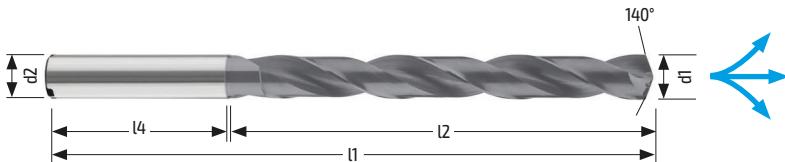
K



M



S



| 140° | d1 h8 | d2 h6 | l <u>u</u> | l <u>2</u> | l <u>4</u> | l <u>1</u> | Balinit® Latuma Coating | Stock |
|------|----------|----------|------------|------------|------------|------------|----------------------------|-------|
| | 3,00 | 6 | 29 | 35 | 36 | 74 | HMC3081S030 | ● |
| | 3,10 | 6 | 30 | 35 | 36 | 74 | HMC3081S031 | ○ |
| | 3,20 | 6 | 30 | 35 | 36 | 74 | HMC3081S032 | ○ |
| | 3,30 | 6 | 30 | 35 | 36 | 74 | HMC3081S033 | ○ |
| | 3,40 | 6 | 30 | 35 | 36 | 74 | HMC3081S034 | ○ |
| | 3,50 | 6 | 30 | 35 | 36 | 74 | HMC3081S035 | ● |
| | 3,60 | 6 | 30 | 35 | 36 | 74 | HMC3081S036 | ○ |
| | 3,70 | 6 | 30 | 35 | 36 | 74 | HMC3081S037 | ○ |
| | 3,80 | 6 | 37 | 44 | 36 | 82 | HMC3081S038 | ○ |
| | 3,90 | 6 | 37 | 44 | 36 | 82 | HMC3081S039 | ○ |
| | 4,00 | 6 | 37 | 44 | 36 | 82 | HMC3081S040 | ● |
| | 4,10 | 6 | 37 | 44 | 36 | 82 | HMC3081S041 | ○ |
| | 4,20 | 6 | 37 | 44 | 36 | 82 | HMC3081S042 | ○ |
| | 4,30 | 6 | 37 | 44 | 36 | 82 | HMC3081S043 | ○ |
| | 4,40 | 6 | 37 | 44 | 36 | 82 | HMC3081S044 | ○ |
| | 4,50 | 6 | 37 | 44 | 36 | 82 | HMC3081S045 | ● |
| | 4,60 | 6 | 37 | 44 | 36 | 82 | HMC3081S046 | ○ |
| | 4,70 | 6 | 48 | 57 | 36 | 82 | HMC3081S047 | ○ |
| | 4,80 | 6 | 48 | 57 | 36 | 95 | HMC3081S048 | ○ |
| | 4,90 | 6 | 48 | 57 | 36 | 95 | HMC3081S049 | ○ |
| | 5,00 | 6 | 48 | 57 | 36 | 95 | HMC3081S050 | ● |
| | 5,10 | 6 | 48 | 57 | 36 | 95 | HMC3081S051 | ○ |
| | 5,20 | 6 | 48 | 57 | 36 | 95 | HMC3081S052 | ○ |
| | 5,30 | 6 | 48 | 57 | 36 | 95 | HMC3081S053 | ○ |
| | 5,40 | 6 | 48 | 57 | 36 | 95 | HMC3081S054 | ○ |
| | 5,50 | 6 | 48 | 57 | 36 | 95 | HMC3081S055 | ● |
| | 5,60 | 6 | 48 | 57 | 36 | 95 | HMC3081S056 | ○ |
| | 5,70 | 6 | 48 | 57 | 36 | 95 | HMC3081S057 | ○ |
| | 5,80 | 6 | 48 | 57 | 36 | 95 | HMC3081S058 | ○ |
| | 5,90 | 6 | 48 | 57 | 36 | 95 | HMC3081S059 | ○ |
| | 6,00 | 6 | 48 | 57 | 36 | 95 | HMC3081S060 | ● |
| | 6,10 | 8 | 66 | 76 | 36 | 114 | HMC3081S061 | ○ |
| | 6,20 | 8 | 66 | 76 | 36 | 114 | HMC3081S062 | ○ |
| | 6,30 | 8 | 66 | 76 | 36 | 114 | HMC3081S063 | ○ |
| | 6,40 | 8 | 66 | 76 | 36 | 114 | HMC3081S064 | ○ |
| | 6,50 | 8 | 66 | 76 | 36 | 114 | HMC3081S065 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 h8 | d2 h6 | lu | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|----------|----------|-----|-----|----|-----|----------------------------|-------|
| 6,60 | 8 | 66 | 76 | 36 | 114 | HMC3081S066 | ○ |
| 6,70 | 8 | 66 | 76 | 36 | 114 | HMC3081S067 | ○ |
| 6,80 | 8 | 66 | 76 | 36 | 114 | HMC3081S068 | ○ |
| 6,90 | 8 | 66 | 76 | 36 | 114 | HMC3081S069 | ○ |
| 7,00 | 8 | 66 | 76 | 36 | 114 | HMC3081S070 | ● |
| 7,10 | 8 | 66 | 76 | 36 | 114 | HMC3081S071 | ○ |
| 7,20 | 8 | 66 | 76 | 36 | 114 | HMC3081S072 | ○ |
| 7,30 | 8 | 66 | 76 | 36 | 114 | HMC3081S073 | ○ |
| 7,40 | 8 | 66 | 76 | 36 | 114 | HMC3081S074 | ○ |
| 7,50 | 8 | 66 | 76 | 36 | 114 | HMC3081S075 | ● |
| 7,60 | 8 | 66 | 76 | 36 | 114 | HMC3081S076 | ○ |
| 7,70 | 8 | 66 | 76 | 36 | 114 | HMC3081S077 | ○ |
| 7,80 | 8 | 66 | 76 | 36 | 114 | HMC3081S078 | ○ |
| 7,90 | 8 | 66 | 76 | 36 | 114 | HMC3081S079 | ○ |
| 8,00 | 8 | 66 | 76 | 36 | 114 | HMC3081S080 | ● |
| 8,10 | 10 | 84 | 96 | 40 | 138 | HMC3081S081 | ○ |
| 8,20 | 10 | 84 | 96 | 40 | 138 | HMC3081S082 | ○ |
| 8,30 | 10 | 84 | 96 | 40 | 138 | HMC3081S083 | ○ |
| 8,40 | 10 | 84 | 96 | 40 | 138 | HMC3081S084 | ○ |
| 8,50 | 10 | 84 | 96 | 40 | 138 | HMC3081S085 | ● |
| 8,60 | 10 | 84 | 96 | 40 | 138 | HMC3081S086 | ○ |
| 8,70 | 10 | 84 | 96 | 40 | 138 | HMC3081S087 | ○ |
| 8,80 | 10 | 84 | 96 | 40 | 138 | HMC3081S088 | ○ |
| 8,90 | 10 | 84 | 96 | 40 | 138 | HMC3081S089 | ○ |
| 9,00 | 10 | 84 | 96 | 40 | 138 | HMC3081S090 | ● |
| 9,10 | 10 | 84 | 96 | 40 | 138 | HMC3081S091 | ○ |
| 9,20 | 10 | 84 | 96 | 40 | 138 | HMC3081S092 | ○ |
| 9,30 | 10 | 84 | 96 | 40 | 138 | HMC3081S093 | ○ |
| 9,40 | 10 | 84 | 96 | 40 | 138 | HMC3081S094 | ○ |
| 9,50 | 10 | 84 | 96 | 40 | 138 | HMC3081S095 | ○ |
| 9,60 | 10 | 84 | 96 | 40 | 138 | HMC3081S096 | ○ |
| 9,70 | 10 | 84 | 96 | 40 | 138 | HMC3081S097 | ○ |
| 9,80 | 10 | 84 | 96 | 40 | 138 | HMC3081S098 | ○ |
| 9,90 | 10 | 84 | 96 | 40 | 138 | HMC3081S099 | ○ |
| 10,00 | 10 | 84 | 96 | 40 | 138 | HMC3081S100 | ● |
| 10,10 | 12 | 100 | 115 | 45 | 162 | HMC3081S101 | ○ |
| 10,20 | 12 | 100 | 115 | 45 | 162 | HMC3081S102 | ○ |
| 10,30 | 12 | 100 | 115 | 45 | 162 | HMC3081S103 | ○ |
| 10,40 | 12 | 100 | 115 | 45 | 162 | HMC3081S104 | ○ |
| 10,50 | 12 | 100 | 115 | 45 | 162 | HMC3081S105 | ● |
| 10,60 | 12 | 100 | 115 | 45 | 162 | HMC3081S106 | ○ |
| 10,70 | 12 | 100 | 115 | 45 | 162 | HMC3081S107 | ○ |
| 10,80 | 12 | 100 | 115 | 45 | 162 | HMC3081S108 | ○ |
| 10,90 | 12 | 100 | 115 | 45 | 162 | HMC3081S109 | ○ |
| 11,00 | 12 | 100 | 115 | 45 | 162 | HMC3081S110 | ● |
| 11,10 | 12 | 100 | 115 | 45 | 162 | HMC3081S111 | ○ |
| 11,20 | 12 | 100 | 115 | 45 | 162 | HMC3081S112 | ○ |
| 11,30 | 12 | 100 | 115 | 45 | 162 | HMC3081S113 | ○ |
| 11,40 | 12 | 100 | 115 | 45 | 162 | HMC3081S114 | ○ |
| 11,50 | 12 | 100 | 115 | 45 | 162 | HMC3081S115 | ○ |
| 11,60 | 12 | 100 | 115 | 45 | 162 | HMC3081S116 | ○ |
| 11,70 | 12 | 100 | 115 | 45 | 162 | HMC3081S117 | ○ |
| 11,80 | 12 | 100 | 115 | 45 | 162 | HMC3081S118 | ○ |
| 11,90 | 12 | 100 | 115 | 45 | 162 | HMC3081S119 | ○ |
| 12,00 | 12 | 100 | 115 | 45 | 162 | HMC3081S120 | ● |
| 12,10 | 14 | 117 | 134 | 45 | 181 | HMC3081S121 | ○ |
| 12,20 | 14 | 117 | 134 | 45 | 181 | HMC3081S122 | ○ |
| 12,30 | 14 | 117 | 134 | 45 | 181 | HMC3081S123 | ○ |
| 12,40 | 14 | 117 | 134 | 45 | 181 | HMC3081S124 | ○ |
| 12,50 | 14 | 117 | 134 | 45 | 181 | HMC3081S125 | ○ |
| 12,60 | 14 | 117 | 134 | 45 | 181 | HMC3081S126 | ○ |
| 12,70 | 14 | 117 | 134 | 45 | 181 | HMC3081S127 | ○ |
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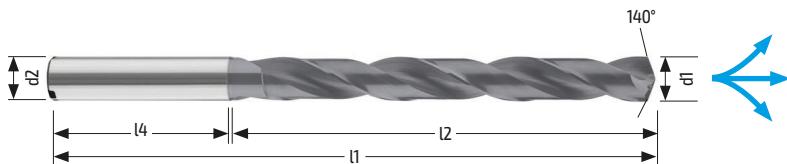
3081S

Punta 8xD con fori

8xD Drill with internal coolant

8xD Bohrer mit IK

8xD Forêt avec trous de lubrification

Silmax
NORMDIN
6535 HA
(Standard)

| 140° | d1 h8 | d2 h6 | l1 | l2 | l4 | l1 | Balinit® Latuma Coating | Stock |
|-------------|-----------------|-----------------|-----------|-----------|-----------|-----------|--------------------------------|--------------|
| | 13,00 | 14 | 117 | 134 | 45 | 181 | HMC3081S130 | ○ |
| | 13,10 | 14 | 117 | 134 | 45 | 181 | HMC3081S131 | ○ |
| | 13,20 | 14 | 117 | 134 | 45 | 181 | HMC3081S132 | ○ |
| | 13,30 | 14 | 117 | 134 | 45 | 181 | HMC3081S133 | ○ |
| | 13,40 | 14 | 117 | 134 | 45 | 181 | HMC3081S134 | ○ |
| | 13,50 | 14 | 117 | 134 | 45 | 181 | HMC3081S135 | ○ |
| | 13,60 | 14 | 117 | 134 | 45 | 181 | HMC3081S136 | ○ |
| | 13,70 | 14 | 117 | 134 | 45 | 181 | HMC3081S137 | ○ |
| | 13,80 | 14 | 117 | 134 | 45 | 181 | HMC3081S138 | ○ |
| | 13,90 | 14 | 117 | 134 | 45 | 181 | HMC3081S139 | ○ |
| | 14,00 | 14 | 117 | 134 | 45 | 181 | HMC3081S140 | ○ |
| | 14,10 | 16 | 133 | 153 | 48 | 203 | HMC3081S141 | ○ |
| | 14,20 | 16 | 133 | 153 | 48 | 203 | HMC3081S142 | ○ |
| | 14,30 | 16 | 133 | 153 | 48 | 203 | HMC3081S143 | ○ |
| | 14,40 | 16 | 133 | 153 | 48 | 203 | HMC3081S144 | ○ |
| | 14,50 | 16 | 133 | 153 | 48 | 203 | HMC3081S145 | ○ |
| | 14,60 | 16 | 133 | 153 | 48 | 203 | HMC3081S146 | ○ |
| | 14,70 | 16 | 133 | 153 | 48 | 203 | HMC3081S147 | ○ |
| | 14,80 | 16 | 133 | 153 | 48 | 203 | HMC3081S148 | ○ |
| | 14,90 | 16 | 133 | 153 | 48 | 203 | HMC3081S149 | ○ |
| | 15,00 | 16 | 133 | 153 | 48 | 203 | HMC3081S150 | ○ |
| | 15,10 | 16 | 133 | 153 | 48 | 203 | HMC3081S151 | ○ |
| | 15,20 | 16 | 133 | 153 | 48 | 203 | HMC3081S152 | ○ |
| | 15,30 | 16 | 133 | 153 | 48 | 203 | HMC3081S153 | ○ |
| | 15,40 | 16 | 133 | 153 | 48 | 203 | HMC3081S154 | ○ |
| | 15,50 | 16 | 133 | 153 | 48 | 203 | HMC3081S155 | ○ |
| | 15,60 | 16 | 133 | 153 | 48 | 203 | HMC3081S156 | ○ |
| | 15,70 | 16 | 133 | 153 | 48 | 203 | HMC3081S157 | ○ |
| | 15,80 | 16 | 133 | 153 | 48 | 203 | HMC3081S158 | ○ |
| | 15,90 | 16 | 133 | 153 | 48 | 203 | HMC3081S159 | ○ |
| | 16,00 | 16 | 133 | 153 | 48 | 203 | HMC3081S160 | ○ |
| | 16,10 | 18 | 150 | 171 | 48 | 223 | HMC3081S161 | ○ |
| | 16,20 | 18 | 150 | 171 | 48 | 223 | HMC3081S162 | ○ |
| | 16,30 | 18 | 150 | 171 | 48 | 223 | HMC3081S163 | ○ |
| | 16,40 | 18 | 150 | 171 | 48 | 223 | HMC3081S164 | ○ |
| | 16,50 | 18 | 150 | 171 | 48 | 223 | HMC3081S165 | ○ |
| | 16,60 | 18 | 150 | 171 | 48 | 223 | HMC3081S166 | ○ |
| | 16,70 | 18 | 150 | 171 | 48 | 223 | HMC3081S167 | ○ |
| | 16,80 | 18 | 150 | 171 | 48 | 223 | HMC3081S168 | ○ |
| | 16,90 | 18 | 150 | 171 | 48 | 223 | HMC3081S169 | ○ |
| | 17,00 | 18 | 150 | 171 | 48 | 223 | HMC3081S170 | ○ |
| | 17,10 | 18 | 150 | 171 | 48 | 223 | HMC3081S171 | ○ |
| | 17,20 | 18 | 150 | 171 | 48 | 223 | HMC3081S172 | ○ |
| | 17,30 | 18 | 150 | 171 | 48 | 223 | HMC3081S173 | ○ |
| | 17,40 | 18 | 150 | 171 | 48 | 223 | HMC3081S174 | ○ |
| | 17,50 | 18 | 150 | 171 | 48 | 223 | HMC3081S175 | ○ |
| | 17,60 | 18 | 150 | 171 | 48 | 223 | HMC3081S176 | ○ |

140°

| d1 h8 | d2 h6 | l<u>u</u> | l<u>2</u> | l<u>4</u> | l<u>1</u> | Balinit® Latuma Coating | Stock |
|-----------------|-----------------|------------------|------------------|------------------|------------------|-----------------------------------|-----------------------|
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| 17,80 | 18 | 150 | 171 | 48 | 223 | HMC3081S178 | <input type="radio"/> |
| 17,90 | 18 | 150 | 171 | 48 | 223 | HMC3081S179 | <input type="radio"/> |
| 18,00 | 18 | 150 | 171 | 48 | 223 | HMC3081S180 | <input type="radio"/> |
| 18,10 | 20 | 168 | 190 | 50 | 244 | HMC3081S181 | <input type="radio"/> |
| 18,20 | 20 | 168 | 190 | 50 | 244 | HMC3081S182 | <input type="radio"/> |
| 18,30 | 20 | 168 | 190 | 50 | 244 | HMC3081S183 | <input type="radio"/> |
| 18,40 | 20 | 168 | 190 | 50 | 244 | HMC3081S184 | <input type="radio"/> |
| 18,50 | 20 | 168 | 190 | 50 | 244 | HMC3081S185 | <input type="radio"/> |
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| 18,70 | 20 | 168 | 190 | 50 | 244 | HMC3081S187 | <input type="radio"/> |
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| 18,90 | 20 | 168 | 190 | 50 | 244 | HMC3081S189 | <input type="radio"/> |
| 19,00 | 20 | 168 | 190 | 50 | 244 | HMC3081S190 | <input type="radio"/> |
| 19,10 | 20 | 168 | 190 | 50 | 244 | HMC3081S191 | <input type="radio"/> |
| 19,20 | 20 | 168 | 190 | 50 | 244 | HMC3081S192 | <input type="radio"/> |
| 19,30 | 20 | 168 | 190 | 50 | 244 | HMC3081S193 | <input type="radio"/> |
| 19,40 | 20 | 168 | 190 | 50 | 244 | HMC3081S194 | <input type="radio"/> |
| 19,50 | 20 | 168 | 190 | 50 | 244 | HMC3081S195 | <input type="radio"/> |
| 19,60 | 20 | 168 | 190 | 50 | 244 | HMC3081S196 | <input type="radio"/> |
| 19,70 | 20 | 168 | 190 | 50 | 244 | HMC3081S197 | <input type="radio"/> |
| 19,80 | 20 | 168 | 190 | 50 | 244 | HMC3081S198 | <input type="radio"/> |
| 19,90 | 20 | 168 | 190 | 50 | 244 | HMC3081S199 | <input type="radio"/> |
| 20,00 | 20 | 168 | 190 | 50 | 244 | HMC3081S200 | <input type="radio"/> |

Notes _____

PUNTE HM PER ALLUMINIO FINO 25xD

HM DRILLS FOR ALU UP TO 25xD / HM-BOHRER FÜR ALU BIS 25xD / FORETS HM POUR ALU JUSQU'À 25xD

3051N

Punta 5xD con fori

5xD Drill with internal coolant

5xD Bohrer mit IK

5xD Foret avec trous de lubrification

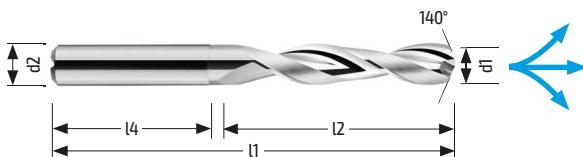


Silmax
NORM

DIN
6535 HA
(Standard)



N



| 140° | d1 m7 | d2 h6 | l1 | l2 | l4 | l5 | Uncoated | Stock |
|------|----------|----------|----|----|----|----|-------------|-------|
| | 3,00 | 6 | 23 | 28 | 36 | 66 | HM03051N030 | ● |
| | 3,20 | 6 | 23 | 28 | 36 | 66 | HM03051N032 | ● |
| | 3,30 | 6 | 23 | 28 | 36 | 66 | HM03051N033 | ● |
| | 3,50 | 6 | 23 | 28 | 36 | 66 | HM03051N035 | ● |
| | 3,70 | 6 | 23 | 28 | 36 | 66 | HM03051N037 | ● |
| | 3,90 | 6 | 29 | 36 | 36 | 74 | HM03051N039 | ● |
| | 4,00 | 6 | 29 | 36 | 36 | 74 | HM03051N040 | ● |
| | 4,10 | 6 | 29 | 36 | 36 | 74 | HM03051N041 | ● |
| | 4,20 | 6 | 29 | 36 | 36 | 74 | HM03051N042 | ● |
| | 4,30 | 6 | 29 | 36 | 36 | 74 | HM03051N043 | ● |
| | 4,50 | 6 | 29 | 36 | 36 | 74 | HM03051N045 | ● |
| | 4,60 | 6 | 29 | 36 | 36 | 74 | HM03051N046 | ● |
| | 4,70 | 6 | 29 | 36 | 36 | 74 | HM03051N047 | ● |
| | 5,00 | 6 | 35 | 44 | 36 | 82 | HM03051N050 | ● |
| | 5,10 | 6 | 35 | 44 | 36 | 82 | HM03051N051 | ● |
| | 5,20 | 6 | 35 | 44 | 36 | 82 | HM03051N052 | ● |
| | 5,50 | 6 | 35 | 44 | 36 | 82 | HM03051N055 | ● |
| | 5,60 | 6 | 35 | 44 | 36 | 82 | HM03051N056 | ● |
| | 6,00 | 6 | 35 | 44 | 36 | 82 | HM03051N060 | ● |
| | 6,10 | 8 | 43 | 53 | 36 | 91 | HM03051N061 | ● |
| | 6,20 | 8 | 43 | 53 | 36 | 91 | HM03051N062 | ● |
| | 6,30 | 8 | 43 | 53 | 36 | 91 | HM03051N063 | ● |
| | 6,40 | 8 | 43 | 53 | 36 | 91 | HM03051N064 | ● |
| | 6,50 | 8 | 43 | 53 | 36 | 91 | HM03051N065 | ● |
| | 6,60 | 8 | 43 | 53 | 36 | 91 | HM03051N066 | ● |
| | 6,80 | 8 | 43 | 53 | 36 | 91 | HM03051N068 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

140°

| d1 m7 | d2 h6 | l<u>u</u> | l2 | l4 | l1 | Uncoated | Stock |
|-----------------|-----------------|------------------|-----------|-----------|-----------|-----------------|--------------|
| 7,00 | 8 | 43 | 53 | 36 | 91 | HM03051N070 | ● |
| 7,40 | 8 | 43 | 53 | 36 | 91 | HM03051N074 | ● |
| 7,50 | 8 | 43 | 53 | 36 | 91 | HM03051N075 | ● |
| 7,60 | 8 | 43 | 53 | 36 | 91 | HM03051N076 | ● |
| 8,00 | 8 | 43 | 53 | 36 | 91 | HM03051N080 | ● |
| 8,40 | 10 | 49 | 61 | 40 | 103 | HM03051N084 | ● |
| 8,50 | 10 | 49 | 61 | 40 | 103 | HM03051N085 | ● |
| 8,73 | 10 | 49 | 61 | 40 | 103 | HM03051N087 | ● |
| 8,90 | 10 | 49 | 61 | 40 | 103 | HM03051N089 | ● |
| 9,00 | 10 | 49 | 61 | 40 | 103 | HM03051N090 | ● |
| 9,20 | 10 | 49 | 61 | 40 | 103 | HM03051N092 | ● |
| 9,30 | 10 | 49 | 61 | 40 | 103 | HM03051N093 | ● |
| 9,50 | 10 | 49 | 61 | 40 | 103 | HM03051N095 | ● |
| 9,60 | 10 | 49 | 61 | 40 | 103 | HM03051N096 | ● |
| 10,00 | 10 | 49 | 61 | 40 | 103 | HM03051N100 | ● |
| 10,20 | 12 | 56 | 71 | 45 | 118 | HM03051N102 | ● |
| 10,50 | 12 | 56 | 71 | 45 | 118 | HM03051N105 | ● |
| 10,80 | 12 | 56 | 71 | 45 | 118 | HM03051N108 | ● |
| 11,00 | 12 | 56 | 71 | 45 | 118 | HM03051N110 | ● |
| 11,50 | 12 | 56 | 71 | 45 | 118 | HM03051N115 | ● |
| 12,00 | 12 | 56 | 71 | 45 | 118 | HM03051N120 | ● |
| 12,50 | 14 | 60 | 77 | 45 | 124 | HM03051N125 | ● |
| 13,50 | 14 | 60 | 77 | 45 | 124 | HM03051N135 | ● |
| 14,00 | 14 | 60 | 77 | 45 | 124 | HM03051N140 | ● |
| 16,00 | 16 | 63 | 83 | 48 | 133 | HM03051N160 | ● |
| 20,00 | 20 | 77 | 101 | 50 | 153 | HM03051N200 | ● |

Notes _____

3151N

Punta 15xD con fori

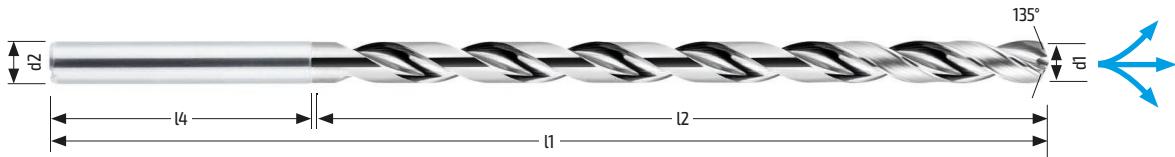
15xD Drill with internal coolant

15xD Bohrer mit IK

15xD Foret avec trous de lubrification

DIN
6537LDIN
6535 HA
(Standard)

N



| 135° | d1 h7 | d2 h6 | l1 | l2 | l4 | l1 | Uncoated | Stock |
|------|----------|----------|-----|-----|----|-----|-------------|-------|
| | 3,00 | 4 | 52 | 56 | 32 | 90 | HM03151N030 | ● |
| | 3,50 | 4 | 61 | 66 | 32 | 100 | HM03151N035 | ● |
| | 4,00 | 4 | 60 | 66 | 32 | 100 | HM03151N040 | ● |
| | 5,00 | 5 | 77 | 84 | 34 | 120 | HM03151N050 | ● |
| | 6,00 | 6 | 93 | 102 | 36 | 140 | HM03151N060 | ● |
| | 7,00 | 7 | 105 | 115 | 38 | 155 | HM03151N070 | ● |
| | 8,00 | 8 | 121 | 133 | 40 | 175 | HM03151N080 | ● |
| | 10,00 | 10 | 153 | 168 | 40 | 210 | HM03151N100 | ● |
| | 12,00 | 12 | 185 | 203 | 45 | 250 | HM03151N120 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

3201N

Punta 20xD con fori
20xD Drill with internal coolant
20xD Bohrer mit IK
20xD Foret avec trous de lubrification



DIN
6537L

DIN
6535 HA
(Standard)



N



| 135° | d1 h7 | d2 h6 | lu | l2 | l4 | l1 | Uncoated | Stock |
|------|----------|----------|-----|-----|----|-----|-------------|-------|
| | 3,00 | 4 | 70 | 74 | 32 | 110 | HM03201N030 | ● |
| | 4,00 | 4 | 80 | 86 | 32 | 120 | HM03201N040 | ● |
| | 5,00 | 5 | 102 | 109 | 34 | 145 | HM03201N050 | ● |
| | 5,50 | 6 | 112 | 120 | 36 | 160 | HM03201N055 | ● |
| | 6,00 | 6 | 121 | 130 | 36 | 170 | HM03201N060 | ● |
| | 7,00 | 7 | 140 | 150 | 38 | 190 | HM03201N070 | ● |
| | 8,00 | 8 | 161 | 173 | 40 | 215 | HM03201N080 | ● |
| | 10,00 | 10 | 203 | 218 | 40 | 260 | HM03201N100 | ● |
| | 12,00 | 12 | 240 | 258 | 45 | 305 | HM03201N120 | ● |

3251N

Punta 25xD con fori
25xD Drill with internal coolant
25xD Bohrer mit IK
25xD Foret avec trous de lubrification

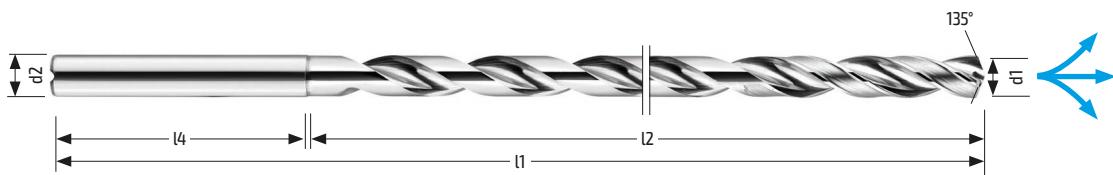


DIN
6537L

DIN
6535 HA
(Standard)



N



| 135° | d1 h7 | d2 | lu | l2 | l4 | l1 | Uncoated | Stock |
|------|----------|----|-----|-----|----|-----|-------------|-------|
| | 3,00 | 4 | 87 | 91 | 32 | 125 | HM03251N030 | ● |
| | 4,00 | 4 | 100 | 106 | 32 | 140 | HM03251N040 | ● |
| | 5,00 | 5 | 127 | 134 | 34 | 170 | HM03251N050 | ● |
| | 6,00 | 6 | 151 | 160 | 36 | 200 | HM03251N060 | ● |
| | 7,00 | 7 | 175 | 185 | 38 | 225 | HM03251N070 | ● |
| | 8,00 | 8 | 201 | 213 | 40 | 255 | HM03251N080 | ● |
| | 10,00 | 10 | 253 | 268 | 40 | 310 | HM03251N100 | ● |

PUNTE A GRADINO

STEP DRILLS / STUFENBOHRER / FORETS ÉTAGÉS

3825

Punta 2.5xD con fori

2.5xD Drill with internal coolant

2.5xD Bohrer mit IK

2.5xD Foret avec trous de lubrification

Silmax
NORM

λ 30°

2,5d1

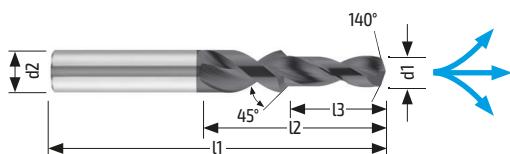


P

K

M

S



| 140° | FIL ISO | FIL UNC | d1 m7 | d2 h6 | l3 | l2 | l1 | X-Pro Coating | Stock |
|------|---------|----------|-------|-------|----|----|-----|---------------|-------|
| | M4 | - | 3,30 | 6 | 10 | 23 | 64 | HMX382510330 | ● |
| | M4* | - | 3,40 | 6 | 10 | 23 | 64 | HMX382510340 | ● |
| | M5 | - | 4,20 | 6 | 13 | 26 | 64 | HMX382510420 | ● |
| | M5* | - | 4,30 | 6 | 13 | 26 | 64 | HMX382510430 | ● |
| | M6 | - | 5,00 | 8 | 15 | 32 | 74 | HMX382510500 | ● |
| | M6* | 1/4 - 20 | 5,10 | 8 | 15 | 32 | 74 | HMX382510510 | ● |
| | M8 | - | 6,80 | 10 | 20 | 42 | 90 | HMX382510680 | ● |
| | M8* | - | 6,90 | 10 | 20 | 42 | 90 | HMX382510690 | ● |
| | - | 3/8 - 16 | 7,90 | 12 | 24 | 50 | 105 | HMX382510790 | ● |
| | M10 | - | 8,50 | 12 | 25 | 51 | 105 | HMX382510850 | ● |
| | M10* | - | 8,65 | 12 | 25 | 51 | 105 | HMX382510865 | ● |
| | M12 | - | 10,25 | 14 | 30 | 60 | 107 | HMX382511025 | ● |
| | M12* | - | 10,40 | 14 | 30 | 60 | 107 | HMX382511040 | ● |
| | - | 1/2 - 13 | 10,50 | 14 | 32 | 62 | 120 | HMX382511050 | ● |

P

Acciaio
Steel
Stahl
Acier

H

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K

Ghisa
Cast Iron
Gusseisen
Fonte

M

Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S

HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O

NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna Available for prompt delivery

Available for prompt delivery

● Consegnă 5 zile lucrătoare Delivery 5 days order date

Delivery 5 days order date

3835

Punta 3.5xD con fori

3.5xD Drill with internal coolant

3.5xD Bohrer mit IK

3.5xD Forêt avec trous de lubrification



Silmax
NORM

λ 30°

3,5d1

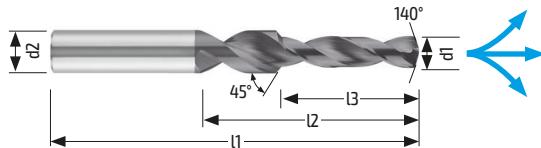


P

K

M

S



| FIL ISO | FIL UNC | d1 mm | d2 h6 | l3 | l2 | l1 | X-Pro Coating | Stock |
|---------|----------|-------|-------|----|----|-----|---------------|-------|
| M4 | - | 3,30 | 6 | 14 | 27 | 64 | HMX383510330 | ● |
| M4* | - | 3,40 | 6 | 14 | 27 | 64 | HMX383510340 | ● |
| M5 | - | 4,20 | 6 | 18 | 31 | 68 | HMX383510420 | ● |
| M5* | - | 4,30 | 6 | 18 | 31 | 68 | HMX383510430 | ● |
| M6 | - | 5,00 | 8 | 21 | 38 | 78 | HMX383510500 | ● |
| M6* | 1/4 - 20 | 5,10 | 8 | 21 | 38 | 78 | HMX383510510 | ● |
| M8 | - | 6,80 | 10 | 28 | 50 | 98 | HMX383510680 | ● |
| M8* | - | 6,90 | 10 | 28 | 50 | 98 | HMX383510690 | ● |
| - | 3/8 - 16 | 7,90 | 12 | 34 | 60 | 107 | HMX383510790 | ● |
| M10 | - | 8,50 | 12 | 35 | 61 | 107 | HMX383510850 | ● |
| M10* | - | 8,65 | 12 | 35 | 61 | 107 | HMX383510865 | ● |
| M12 | - | 10,25 | 14 | 42 | 72 | 120 | HMX383511025 | ● |
| M12* | - | 10,40 | 14 | 42 | 72 | 120 | HMX383511040 | ● |
| - | 1/2 - 13 | 10,50 | 14 | 45 | 75 | 127 | HMX383511050 | ● |

P

Acciaio
Steel
Stahl
Acier

H

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K

Ghisa
Cast Iron
Gusseisen
Fonte

M

Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S

HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O

NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna

Available for prompt delivery

● Consegnà 5 giorni data ordine

Delivery 5 days order date

PUNTE A CENTRARE

CENTER DRILLS / ZENTRIERBOHRUNGEN / FORETS À CENTRER

351

Punte a centrare 118°

Center Drills 118°

Zentrierbohrer 118°

Forets à centrer 118°



Form A

DIN
333A

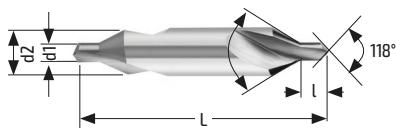
P

K

M

S

N



| | d1 k12 | d2 h6 | L | l ap | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|--|-----------|----------|----|---------|-----------|-------|-----------------------------|-------|
| | 1,00 | 3,15 | 31 | 1,3-1,6 | HM0351100 | ● | HMG351100 | ● |
| | 1,25 | 3,15 | 31 | 1,6-1,9 | HM0351125 | ● | HMG351125 | ● |
| | 1,60 | 4,00 | 35 | 2,0-2,4 | HM0351160 | ● | HMG351160 | ● |
| | 2,00 | 5,00 | 40 | 2,5-2,9 | HM0351200 | ● | HMG351200 | ● |
| | 2,50 | 6,30 | 45 | 3,1-3,6 | HM0351250 | ● | HMG351250 | ● |
| | 3,15 | 8,00 | 50 | 3,9-4,4 | HM0351315 | ● | HMG351315 | ● |
| | 4,00 | 10,00 | 55 | 5,0-5,6 | HM0351400 | ● | HMG351400 | ● |
| | 5,00 | 12,50 | 63 | 6,3-6,9 | HM0351500 | ● | HMG351500 | ● |

P

Acciaio
Steel
Stahl
Acier

H

Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

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Cast Iron
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N

Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O

NON ISO
Not ISO
Keine ISO
Pas d'ISO

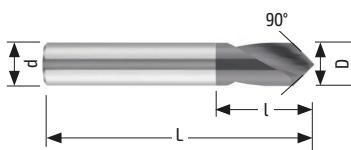
● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

357

Punte a centrare 90°
Center Drills 90°
Zentrierbohrer 90°
Forets à centrer 90°*



| 90° | D h6 | L | l ap | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|-----|---------|----|---------|-----------|-------|-----------------------------|-------|
| | 3,00 | 45 | 10,0 | HM0357003 | ● | HMG357003 | ● |
| | 4,00 | 50 | 12,0 | HM0357004 | ● | HMG357004 | ● |
| | 5,00 | 50 | 15,0 | HM0357005 | ● | HMG357005 | ● |
| | 6,00 | 50 | 18,0 | HM0357006 | ● | HMG357006 | ● |
| | 8,00 | 64 | 23,0 | HM0357008 | ● | HMG357008 | ● |
| | 10,00 | 67 | 24,0 | HM0357010 | ● | HMG357010 | ● |
| | 12,00 | 74 | 24,0 | HM0357012 | ● | HMG357012 | ● |
| | 16,00 | 92 | 32,0 | HM0357016 | ● | HMG357016 | ● |



Acciaio
Steel
Stahl
Acier



Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé



Ghisa
Cast Iron
Gusseisen
Fonte



Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable



HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane



Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses



NON ISO
Not ISO
Keine ISO
Pas d'ISO

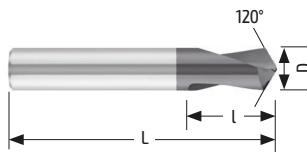
● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnă 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

358

Punte a centrare 120°
Center Drills 120°
Zentrierbohrer 120°
Forets à centrer 120°*



| 120° | D h6 | L | l ap | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|------|---------|----|---------|-----------|-------|-----------------------------|-------|
| | 3,00 | 45 | 10,0 | HM0358003 | ● | HMG358003 | ● |
| | 4,00 | 50 | 12,0 | HM0358004 | ● | HMG358004 | ● |
| | 5,00 | 50 | 15,0 | HM0358005 | ● | HMG358005 | ● |
| | 6,00 | 50 | 18,0 | HM0358006 | ● | HMG358006 | ● |
| | 8,00 | 64 | 23,0 | HM0358008 | ● | HMG358008 | ● |
| | 10,00 | 67 | 24,0 | HM0358010 | ● | HMG358010 | ● |
| | 12,00 | 74 | 24,0 | HM0358012 | ● | HMG358012 | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
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M
Acciaio Inox
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Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
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HRSA - Titane

N
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Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

○ Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

Notes

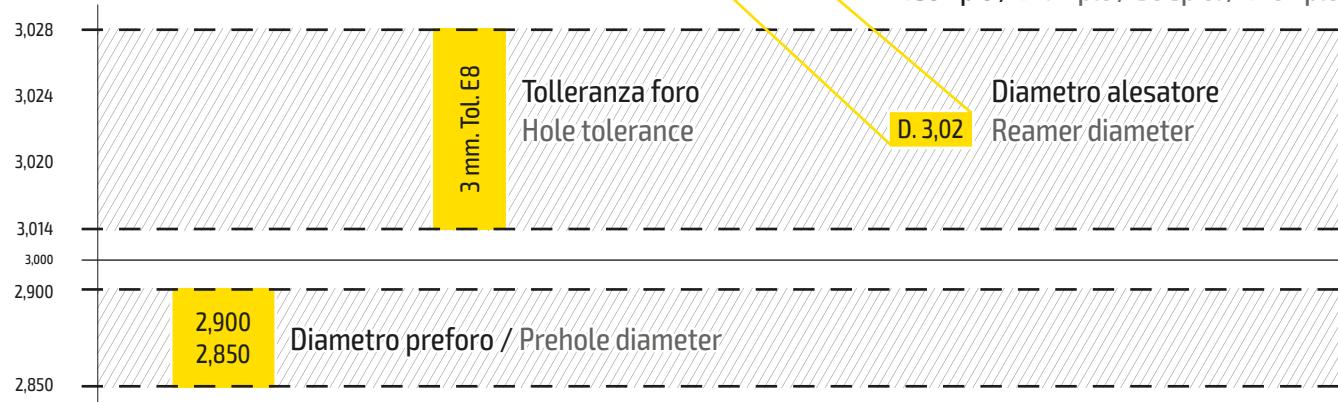
ALESATORI CENTESIMALI

REAMERS / HUNDERTSTEL - REIBAHLEN / ALÉSOIRS CENTÉSIMALES

Scelta dell'alesatore / Choice of the ream / Auswahl vom Reibahlen / Choix de l'alésoir

| Toll. | D. 2 mm | D. 3 mm | D. 4 mm | D. 5 mm | D. 6 mm | D. 8 mm | D. 10 mm | D. 12 mm |
|-------|---------|---------|---------|---------|---------|---------|----------|----------|
| D10 | 2,04 | 3,04 | 4,05 | 5,06 | 6,06 | 8,07 | 10,08 | 12,10 |
| E8 | 2,02 | 3,02 | 4,03 | 5,03 | 6,03 | 8,03 | 10,03 | 12,04 |
| E9 | 2,03 | 3,03 | 4,04 | 5,04 | 6,04 | 8,05 | 10,05 | 12,06 |
| F7 | 2,01 | 3,01 | 4,01 | 5,01 | 6,01 | 8,02 | 10,02 | 12,02 |
| F8 | 2,01 | 3,01 | 4,02 | 5,02 | 6,02 | 8,02 | 10,02 | 12,03 |
| G7 | - | - | - | - | - | 8,01 | 10,01 | 12,01 |
| H6 | 2,00 | 3,00 | 4,00 | 5,00 | 6,00 | 8,00 | 10,00 | 12,00 |
| H7 | - | - | - | - | - | - | - | - |
| H8 | - | - | 4,01 | 5,01 | 6,01 | 8,01 | 10,01 | 12,01 |
| H9 | 2,01 | 3,01 | 4,02 | 5,02 | 6,02 | 8,02 | 10,02 | 12,03 |
| M7 | 1,99 | 2,99 | 3,99 | 4,99 | 5,99 | 7,99 | 9,99 | 11,99 |
| N7 | 1,99 | 2,99 | 3,99 | 4,99 | 5,99 | 7,98 | 9,98 | 11,98 |
| P7 | 1,99 | 2,99 | 3,98 | 4,98 | 5,98 | 7,98 | 9,98 | 11,97 |
| R7 | 1,98 | 2,98 | 3,98 | 4,98 | 5,98 | 7,98 | 9,98 | 11,97 |

Esempio / Example / Beispiel / Exemple



| Ø | P | | | Acciaio Inox Stainless Steel | Ghisa Cast Iron | Metalli non ferrosi Non-ferrous metals | HRSA - Titanio HRSA - Titanium | Acciaio Temprato Hardened Steel | | |
|-------|-------------|-------|-------|---------------------------------|--------------------|---|-----------------------------------|------------------------------------|------|-------|
| | Vc m/min | 20-25 | 12-18 | | | | | 7-12 | 8-10 | 40-60 |
| | fg mm/g | 0,10 | 0,08 | | | | | 0,07 | 0,07 | 6-10 |
| 0,9-2 | | 0,10 | 0,08 | 0,08 | 0,07 | 0,07 | 0,15 | 0,07 | 0,07 | 0,07 |
| 2-6 | | 0,12 | 0,10 | 0,09 | 0,08 | 0,08 | 0,18 | 0,10 | 0,08 | 0,10 |
| 6-10 | | 0,18 | 0,15 | 0,14 | 0,12 | 0,12 | 0,25 | 0,12 | 0,12 | 0,12 |
| 10-16 | | 0,18 | 0,20 | 0,18 | 0,15 | 0,15 | 0,30 | 0,15 | 0,15 | 0,15 |

Come ordinare (esempio)
How to order (example)

Rivestimento
Coating

Codice
Code

Diametro
Diameter

Codice per ordine
Code to place order

HMG

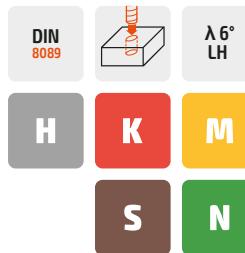
503

0403 (= 4,03mm)

HMG5030403

502

Alesatori centesimali extracorti
Extra-short reamers
Extra kurze Hundertstel-Reibahle
Alésoirs au centième extra-courts



| d1 -0/+0,004 | d2 h8 | l2 | l1 | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|-----------------|----------|----|-----|-----------|-------|-----------------------------|-------|
| 2,97 - 3,10 | 3,00 | 16 | 56 | HM0502... | ● | HMG502... | ● |
| 3,11 - 3,60 | 3,00 | 18 | 56 | HM0502... | ● | HMG502... | ● |
| 3,61 - 4,10 | 3,50 | 20 | 56 | HM0502... | ● | HMG502... | ● |
| 4,11 - 4,60 | 4,00 | 22 | 63 | HM0502... | ● | HMG502... | ● |
| 4,61 - 5,10 | 4,00 | 22 | 63 | HM0502... | ● | HMG502... | ● |
| 5,11 - 5,60 | 5,00 | 22 | 63 | HM0502... | ● | HMG502... | ● |
| 5,61 - 6,15 | 5,00 | 22 | 63 | HM0502... | ● | HMG502... | ● |
| 6,16 - 6,65 | 5,00 | 22 | 63 | HM0502... | ● | HMG502... | ● |
| 6,66 - 7,15 | 6,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 7,16 - 7,65 | 6,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 7,66 - 8,15 | 6,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 8,16 - 8,65 | 6,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 8,66 - 9,20 | 8,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 9,21 - 9,70 | 8,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 9,71 - 10,20 | 8,00 | 25 | 71 | HM0502... | ● | HMG502... | ● |
| 10,21 - 10,70 | 8,00 | 28 | 80 | HM0502... | ● | HMG502... | ● |
| 10,71 - 11,20 | 10,00 | 28 | 80 | HM0502... | ● | HMG502... | ● |
| 11,21 - 11,70 | 10,00 | 28 | 80 | HM0502... | ● | HMG502... | ● |
| 11,71 - 12,20 | 10,00 | 28 | 80 | HM0502... | ● | HMG502... | ● |
| 12,21 - 13,20 | 10,00 | 28 | 80 | HM0502... | ● | HMG502... | ● |
| 13,21 - 14,20 | 12,00 | 32 | 90 | HM0502... | ● | HMG502... | ● |
| 14,21 - 15,20 | 12,00 | 32 | 90 | HM0502... | ● | HMG502... | ● |
| 15,21 - 16,20 | 14,00 | 32 | 90 | HM0502... | ● | HMG502... | ● |
| 16,21 - 17,20 | 14,00 | 32 | 90 | HM0502... | ● | HMG502... | ● |
| 17,21 - 18,20 | 16,00 | 36 | 100 | HM0502... | ● | HMG502... | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

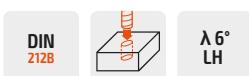
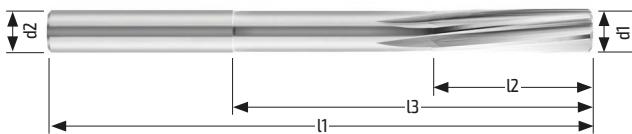
● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

503

Alesatori centesimali standard
Standard reamers
Standard Hundertstel-Reibahle
Alésoirs au centième standards

DIN
2128 $\lambda 6^\circ$
LH

| d1 -0/+0,004 | d2 h8 | l3 | l2 | l1 | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|-----------------|----------|----|----|-----|------------|-------|-----------------------------|-------|
| 0,90 - 0,99 | - | 8 | - | 40 | HM0503.... | ● | HMG503.... | - |
| 1,00 - 1,50 | - | 8 | - | 40 | HM0503.... | ● | HMG503.... | ● |
| 1,51 - 1,90 | - | 9 | - | 43 | HM0503.... | ● | HMG503.... | ● |
| 1,91 - 2,12 | 2 | 11 | 26 | 49 | HM0503.... | ● | HMG503.... | ● |
| 2,13 - 2,36 | 2 | 12 | - | 53 | HM0503.... | ● | HMG503.... | ● |
| 2,37 - 2,48 | 2 | 14 | - | 57 | HM0503.... | ● | HMG503.... | ● |
| 2,49 - 2,65 | 3 | 14 | - | 57 | HM0503.... | ● | HMG503.... | ● |
| 2,66 - 2,96 | 3 | 16 | 40 | 65 | HM0503.... | ● | HMG503.... | ● |
| 2,97 - 2,99 | 3 | 16 | 40 | 65 | HM0503.... | ● | HMG503.... | ● |
| 3,03 - 3,35 | 3 | 16 | 40 | 65 | HM0503.... | ● | HMG503.... | ● |
| 3,36 - 3,49 | 4 | 18 | 45 | 70 | HM0503.... | ● | HMG503.... | ● |
| 3,51 - 3,75 | 4 | 18 | 45 | 70 | HM0503.... | ● | HMG503.... | ● |
| 3,76 - 3,99 | 4 | 19 | 47 | 75 | HM0503.... | ● | HMG503.... | ● |
| 4,01 - 4,25 | 4 | 19 | 47 | 75 | HM0503.... | ● | HMG503.... | ● |
| 4,26 - 4,75 | 5 | 21 | 51 | 80 | HM0503.... | ● | HMG503.... | ● |
| 4,76 - 4,99 | 5 | 23 | 56 | 86 | HM0503.... | ● | HMG503.... | ● |
| 4,51 - 4,99 | 5 | 23 | 56 | 86 | HM0503.... | ● | HMG503.... | ● |
| 5,03 - 5,15 | 5 | 23 | 56 | 86 | HM0503.... | ● | HMG503.... | ● |
| 5,16 - 5,49 | 5 | 26 | 58 | 93 | HM0503.... | ● | HMG503.... | ● |
| 5,51 - 5,65 | 5 | 26 | 58 | 93 | HM0503.... | ● | HMG503.... | ● |
| 5,66 - 5,99 | 6 | 26 | 58 | 93 | HM0503.... | ● | HMG503.... | ● |
| 6,03 - 6,15 | 6 | 26 | 58 | 93 | HM0503.... | ● | HMG503.... | ● |
| 6,16 - 6,49 | 6 | 28 | 63 | 101 | HM0503.... | ● | HMG503.... | ● |
| 6,51 - 6,70 | 6 | 28 | 63 | 101 | HM0503.... | ● | HMG503.... | ● |
| 6,71 - 7,65 | 7 | 31 | 71 | 109 | HM0503.... | ● | HMG503.... | ● |
| 7,66 - 7,99 | 8 | 33 | 77 | 117 | HM0503.... | ● | HMG503.... | ● |
| 8,03 - 8,49 | 8 | 33 | 77 | 117 | HM0503.... | ● | HMG503.... | ● |
| 8,51 - 8,65 | 8 | 33 | 77 | 117 | HM0503.... | ● | HMG503.... | ● |
| 8,66 - 9,65 | 9 | 36 | 80 | 125 | HM0503.... | ● | HMG503.... | ● |
| 9,66 - 9,99 | 10 | 38 | 85 | 133 | HM0503.... | ● | HMG503.... | ● |
| 10,03 - 10,65 | 10 | 38 | 85 | 133 | HM0503.... | ● | HMG503.... | ● |
| 10,66 - 11,65 | 10 | 41 | 92 | 142 | HM0503.... | ● | HMG503.... | ● |
| 11,66 - 11,99 | 12 | 44 | 99 | 151 | HM0503.... | ● | HMG503.... | ● |
| 12,03 - 12,20 | 12 | 44 | 99 | 151 | HM0503.... | ● | HMG503.... | ● |



Acciaio
Steel
Stahl
Acier



Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé



Ghisa
Cast Iron
Gusseisen
Fonte



Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable



HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane



Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses



NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegna 5 giorni data ordine
Delivery 5 days order date

○ Disponibilità su richiesta
Availability on request

| d1 -0/+0,004 | d2 h8 | l3 | l2 | l1 | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|------------------------|-----------------|-----------|-----------|-----------|-----------------|--------------|------------------------------------|--------------|
| 12,21 - 13,65 | 12 | 44 | 99 | 151 | HM0503... | ● | HMG503.... | ● |
| 13,66 - 14,20 | 14 | 47 | 105 | 160 | HM0503... | ● | HMG503.... | ● |
| 14,21 - 15,65 | 14 | 50 | 107 | 162 | HM0503... | ● | HMG503.... | ● |
| 15,66 - 16,20 | 16 | 52 | 115 | 170 | HM0503... | ● | HMG503.... | ● |
| 16,21 - 17,20 | 16 | 52 | 115 | 170 | HM0503... | ● | HMG503.... | ● |
| 17,21 - 18,20 | 16 | 52 | 115 | 170 | HM0503... | ● | HMG503.... | ● |
| 18,21 - 19,20 | 18 | 52 | 115 | 170 | HM0503... | ● | HMG503.... | ● |
| 19,21 - 20,20 | 20 | 52 | 115 | 170 | HM0503... | ● | HMG503.... | ● |

| d1 -0/+0,004 | d2 h8 | l3 | l2 | l1 | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|------------------------|-----------------|-----------|-----------|-----------|-----------------|--------------|------------------------------------|--------------|
| 3,00 | 3 | 16 | 40 | 65 | HM05030300 | ● | HMG5030300 | ● |
| 3,01 | 3 | 16 | 40 | 65 | HM05030301 | ● | HMG5030301 | ● |
| 3,02 | 3 | 16 | 40 | 65 | HM05030302 | ● | HMG5030302 | ● |
| 3,50 | 4 | 18 | 45 | 70 | HM05030350 | ● | HMG5030350 | ● |
| 4,00 | 4 | 19 | 47 | 75 | HM05030400 | ● | HMG5030400 | ● |
| 4,01 | 4 | 19 | 47 | 75 | HM05030401 | ● | HMG5030401 | ● |
| 4,02 | 4 | 19 | 47 | 75 | HM05030402 | ● | HMG5030402 | ● |
| 4,50 | 5 | 23 | 56 | 86 | HM05030450 | ● | HMG5030450 | ● |
| 5,00 | 5 | 23 | 56 | 86 | HM05030500 | ● | HMG5030500 | ● |
| 5,01 | 5 | 23 | 56 | 86 | HM05030501 | ● | HMG5030501 | ● |
| 5,02 | 5 | 23 | 56 | 86 | HM05030502 | ● | HMG5030502 | ● |
| 5,50 | 5 | 26 | 58 | 93 | HM05030550 | ● | HMG5030550 | ● |
| 6,00 | 6 | 26 | 58 | 93 | HM05030600 | ● | HMG5030600 | ● |
| 6,01 | 6 | 26 | 58 | 93 | HM05030601 | ● | HMG5030601 | ● |
| 6,02 | 6 | 26 | 58 | 93 | HM05030602 | ● | HMG5030602 | ● |
| 6,50 | 6 | 28 | 63 | 101 | HM05030650 | ● | HMG5030650 | ● |
| 8,00 | 8 | 33 | 77 | 117 | HM05030800 | ● | HMG5030800 | ● |
| 8,01 | 8 | 33 | 77 | 117 | HM05030801 | ● | HMG5030801 | ● |
| 8,02 | 8 | 33 | 77 | 117 | HM05030802 | ● | HMG5030802 | ● |
| 8,50 | 8 | 33 | 77 | 117 | HM05030850 | ● | HMG5030850 | ● |
| 10,00 | 10 | 38 | 85 | 133 | HM05031000 | ● | HMG5031000 | ● |
| 10,01 | 10 | 38 | 85 | 133 | HM05031001 | ● | HMG5031001 | ● |
| 10,02 | 10 | 38 | 85 | 133 | HM05031002 | ● | HMG5031002 | ● |
| 12,00 | 12 | 44 | 99 | 151 | HM05031200 | ● | HMG5031200 | ● |
| 12,01 | 12 | 44 | 99 | 151 | HM05031201 | ● | HMG5031201 | ● |
| 12,02 | 12 | 44 | 99 | 151 | HM05031202 | ● | HMG5031202 | ● |

504

Alesatori centesimali extralunghi
Extra-long reamers
Extra lange Hundertstel-Reibahle
Alésoirs au centième extra-longs

 $\lambda 6^\circ$ 

P

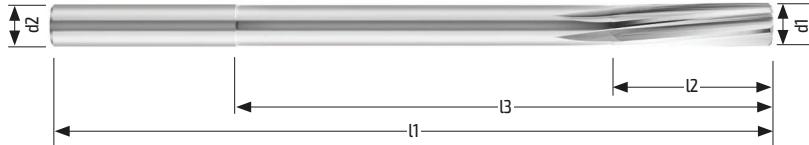
H

K

M

S

N



| d1 -0/+0,004 | d2 h8 | l3 | l2 | l1 | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|-----------------|----------|----|-----|-----|------------|-------|-----------------------------|-------|
| 2,00 - 2,31 | 2,00 | 18 | 65 | 110 | HMG504.... | ● | HMG504.... | ● |
| 2,32 - 2,41 | 2,30 | 20 | 65 | 120 | HMG504.... | ● | HMG504.... | ● |
| 2,42 - 2,91 | 2,50 | 20 | 65 | 120 | HMG504.... | ● | HMG504.... | ● |
| 2,92 - 3,11 | 3,00 | 20 | 65 | 120 | HMG504.... | ● | HMG504.... | ● |
| 3,12 - 3,31 | 3,00 | 30 | 90 | 150 | HMG504.... | ● | HMG504.... | ● |
| 3,32 - 3,91 | 3,50 | 30 | 90 | 150 | HMG504.... | ● | HMG504.... | ● |
| 3,92 - 3,99 | 4,00 | 30 | 90 | 150 | HMG504.... | ● | HMG504.... | ● |
| 4,01 - 4,24 | 4,00 | 30 | 90 | 150 | HMG504.... | ● | HMG504.... | ● |
| 4,25 - 4,91 | 4,00 | 35 | 115 | 180 | HMG504.... | ● | HMG504.... | ● |
| 4,92 - 4,99 | 5,00 | 35 | 115 | 180 | HMG504.... | ● | HMG504.... | ● |
| 5,01 - 5,11 | 5,00 | 35 | 115 | 180 | HMG504.... | ● | HMG504.... | ● |
| 5,12 - 5,91 | 5,00 | 40 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 5,92 - 5,99 | 6,00 | 40 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 6,01 - 6,11 | 6,00 | 40 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 6,12 - 6,91 | 6,00 | 45 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 6,92 - 7,11 | 7,00 | 45 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 7,12 - 7,91 | 7,00 | 45 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 7,92 - 7,99 | 8,00 | 45 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 8,01 - 8,11 | 8,00 | 45 | 130 | 200 | HMG504.... | ● | HMG504.... | ● |
| 8,12 - 8,91 | 8,00 | 5 | 145 | 220 | HMG504.... | ● | HMG504.... | ● |
| 8,92 - 9,11 | 9,00 | 50 | 145 | 220 | HMG504.... | ● | HMG504.... | ● |
| 9,12 - 9,91 | 9,00 | 50 | 145 | 220 | HMG504.... | ● | HMG504.... | ● |
| 9,92 - 9,99 | 10,00 | 50 | 145 | 220 | HMG504.... | ● | HMG504.... | ● |
| 10,01 - 10,20 | 10,00 | 50 | 145 | 220 | HMG504.... | ● | HMG504.... | ● |
| 10,21 - 10,80 | 10,00 | 55 | 170 | 250 | HMG504.... | ● | HMG504.... | ● |
| 10,81 - 11,20 | 11,00 | 55 | 170 | 250 | HMG504.... | ● | HMG504.... | ● |
| 11,21 - 11,80 | 11,00 | 55 | 170 | 250 | HMG504.... | ● | HMG504.... | ● |
| 11,81 - 11,99 | 12,00 | 55 | 170 | 250 | HMG504.... | ● | HMG504.... | ● |
| 12,01 - 12,20 | 12,00 | 55 | 170 | 250 | HMG504.... | ● | HMG504.... | ● |

P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

● Disponibilità pronta consegna
Availability for prompt delivery

● Consegnata 5 giorni data ordine
Delivery 5 days order date

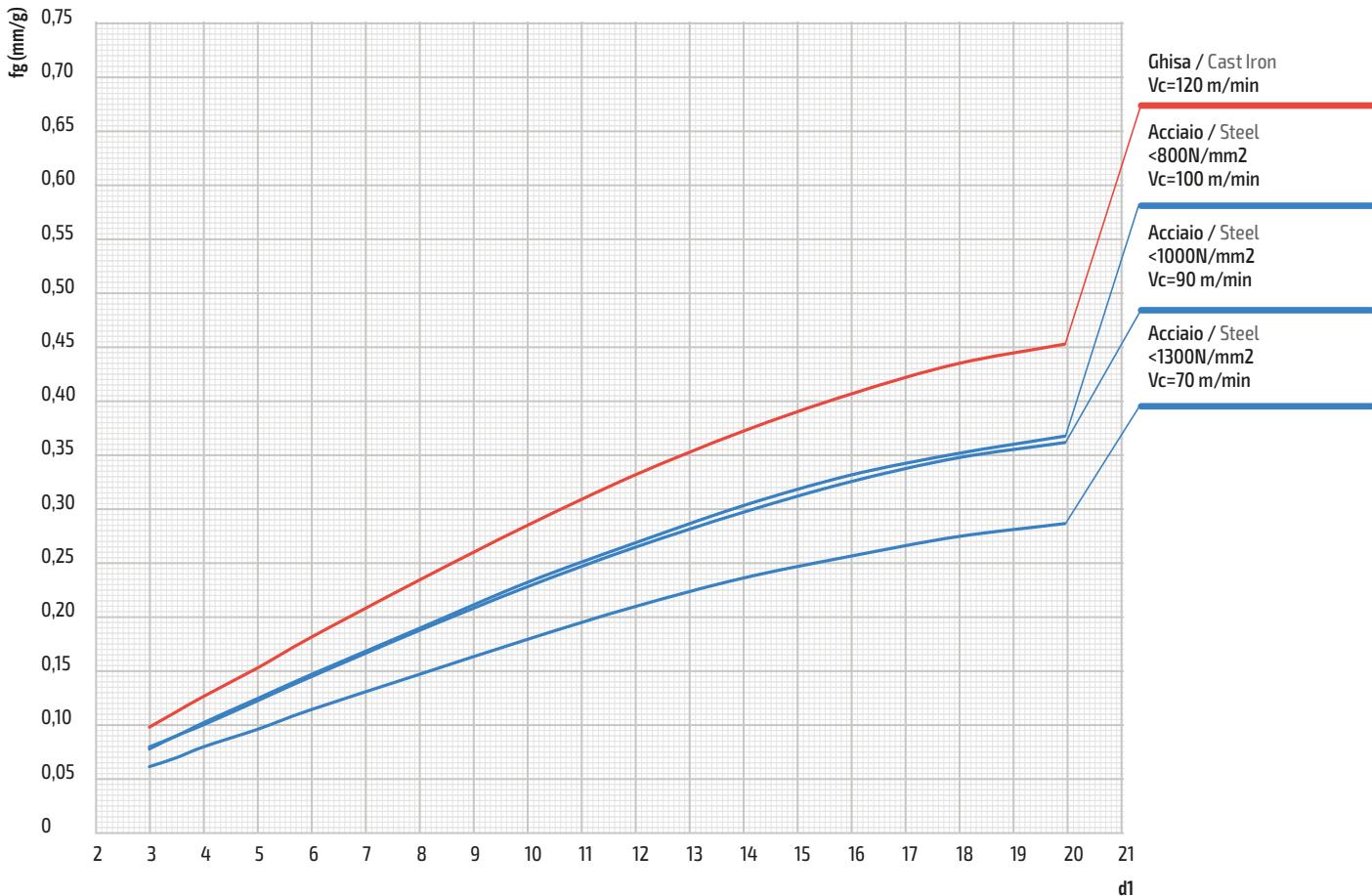
○ Disponibilità su richiesta
Availability on request

| d1 -0 / + 0,004 | d2 h8 | l3 | l2 | l1 | Uncoated | Stock | Balinit® Alcrona Coating | Stock |
|---------------------------|-----------------|-----------|-----------|-----------|-----------------|--------------|------------------------------------|--------------|
| 4,00 | 4 | 30 | 90 | 150 | HM05040400 | ● | HMG5040400 | ● |
| 5,00 | 5 | 35 | 115 | 180 | HM05040500 | ● | HMG5040500 | ● |
| 6,00 | 6 | 40 | 130 | 200 | HM05040600 | ● | HMG5040600 | ● |
| 8,00 | 8 | 45 | 130 | 200 | HM05040800 | ● | HMG5040800 | ● |
| 10,00 | 10 | 50 | 145 | 220 | HM05041000 | ● | HMG5041000 | ● |
| 12,00 | 12 | 55 | 170 | 250 | HM05041200 | ● | HMG5041200 | ● |

Notes _____

3030A-3050A

Parametri di lavoro / Working Parameters /
Bearbeitungsparameter / Paramètres d'usinage



P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

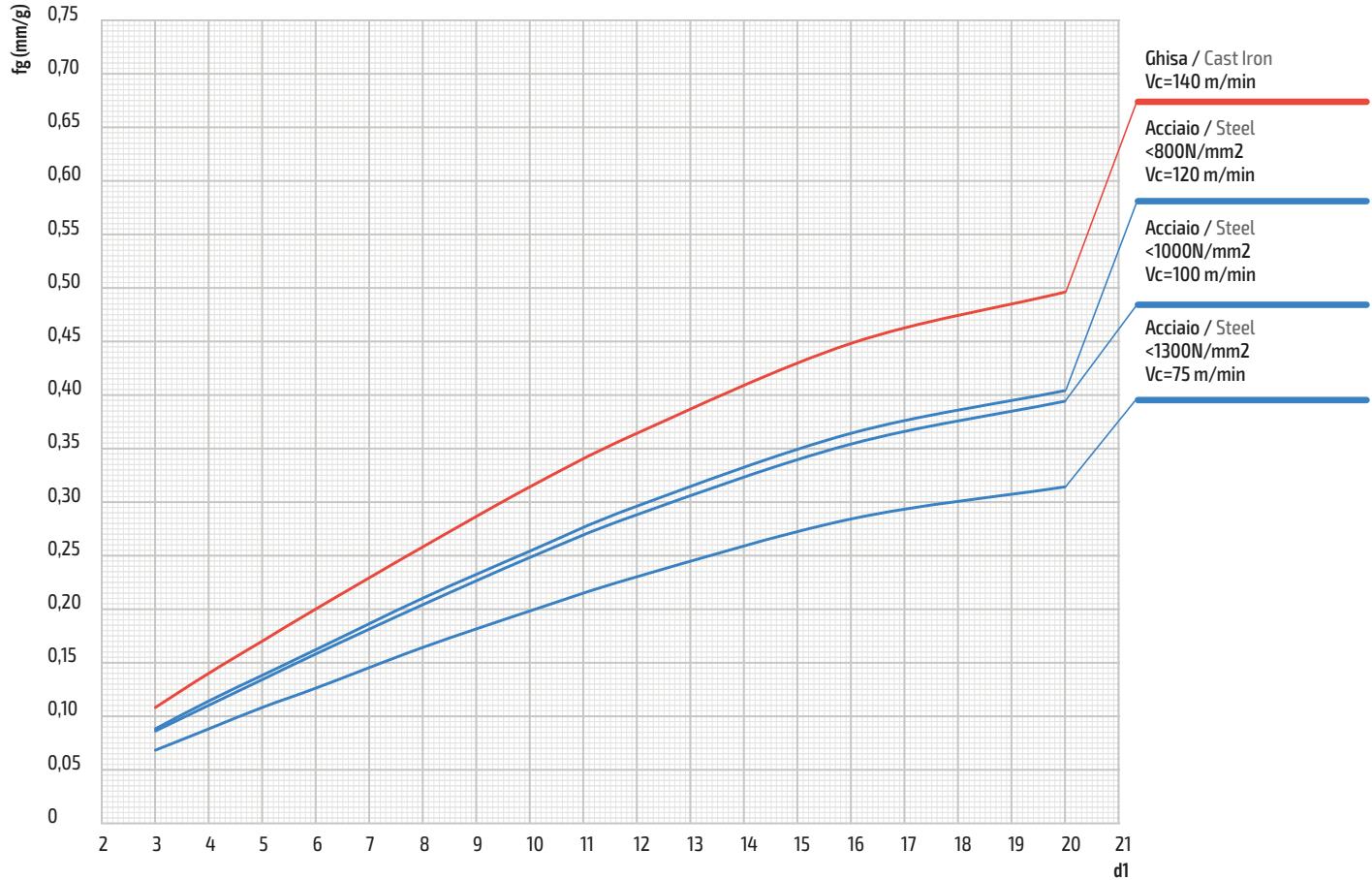
S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

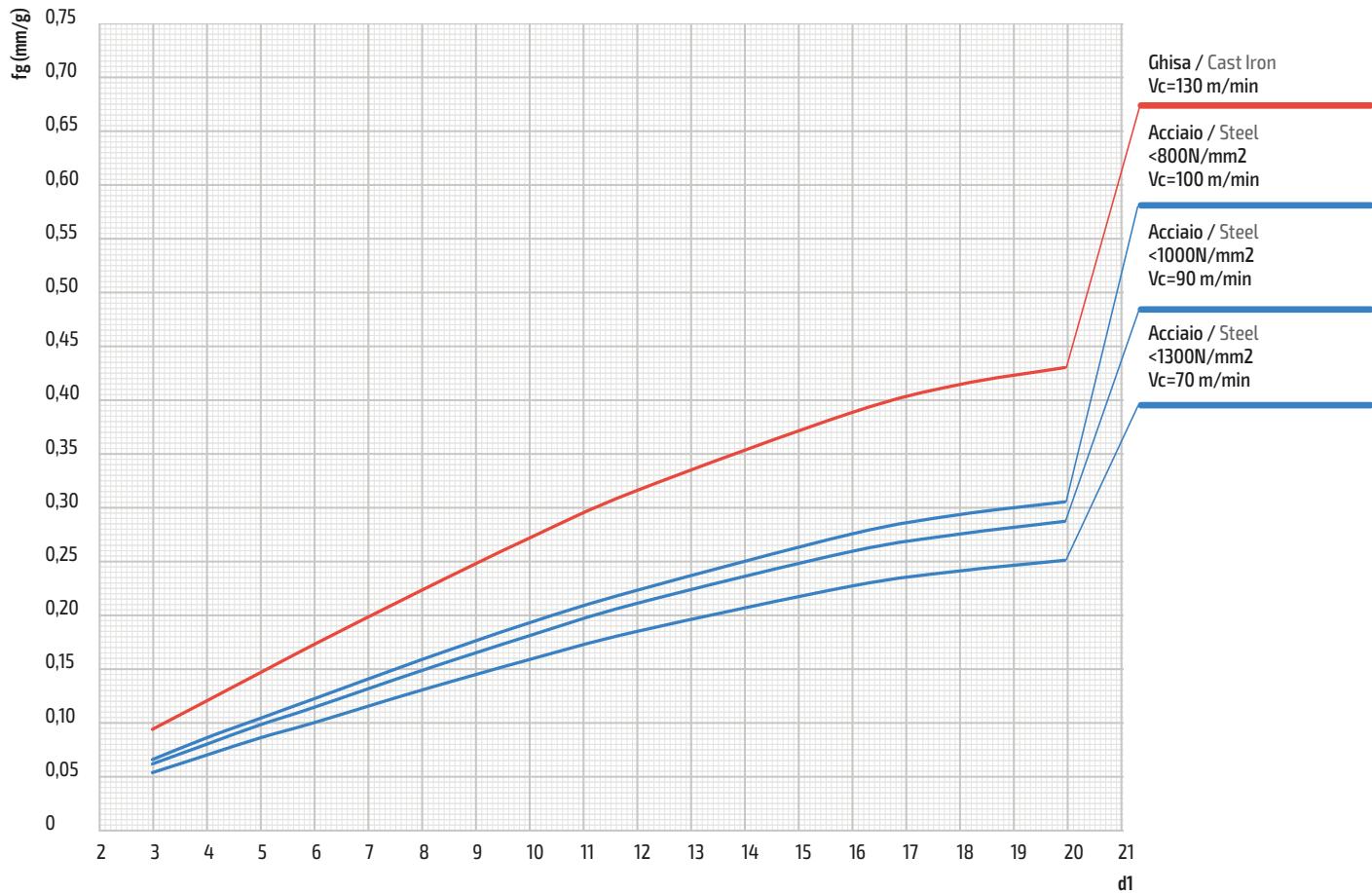
3031A-3051A

Parametri di lavoro/Working Parameters/ Bearbeitungsparameter/Paramètres d'usinage



3081A-3121A

Parametri di lavoro/Working Parameters/
Bearbeitungsparameter/Paramètres d'usinage



P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

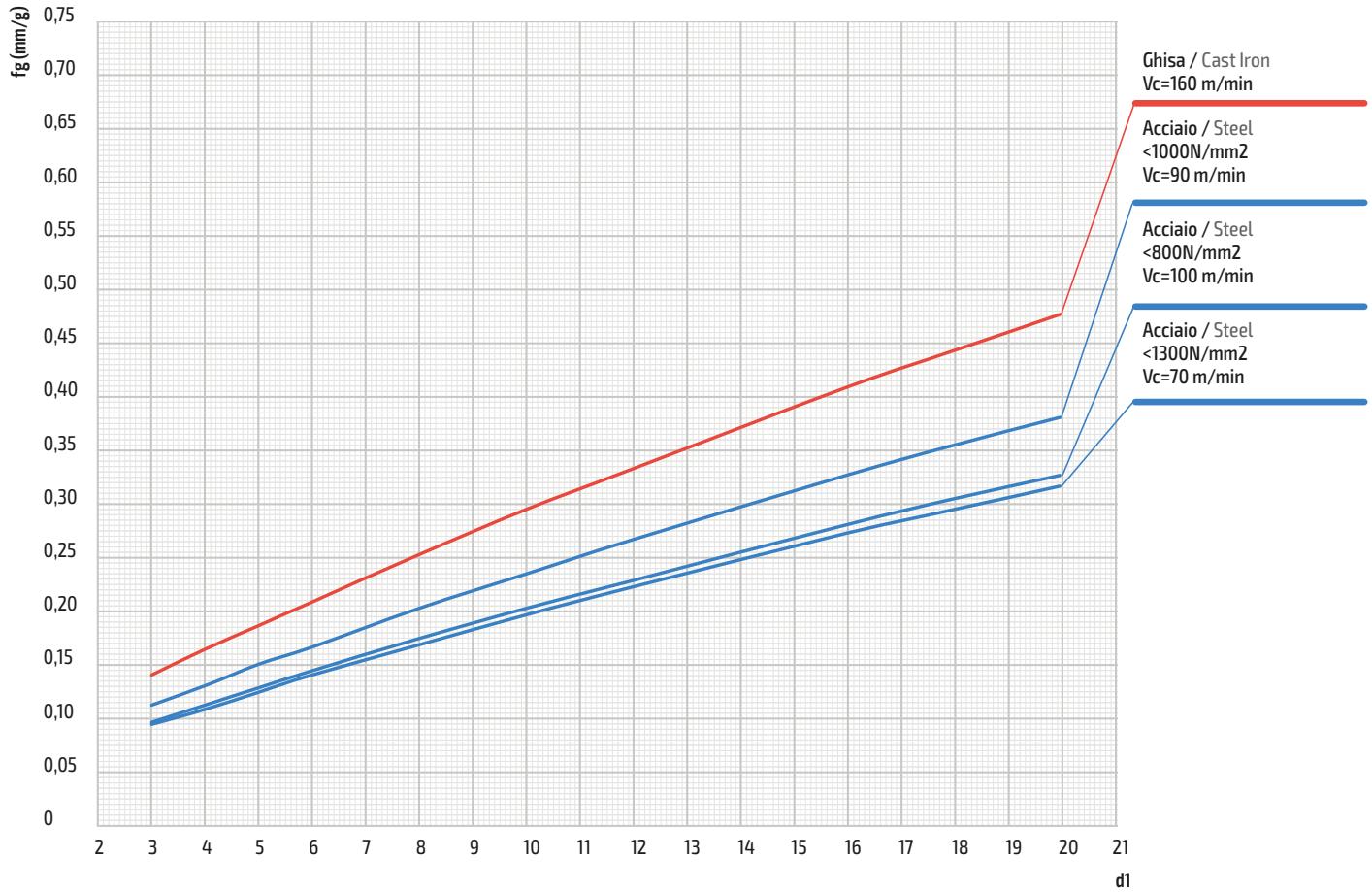
S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

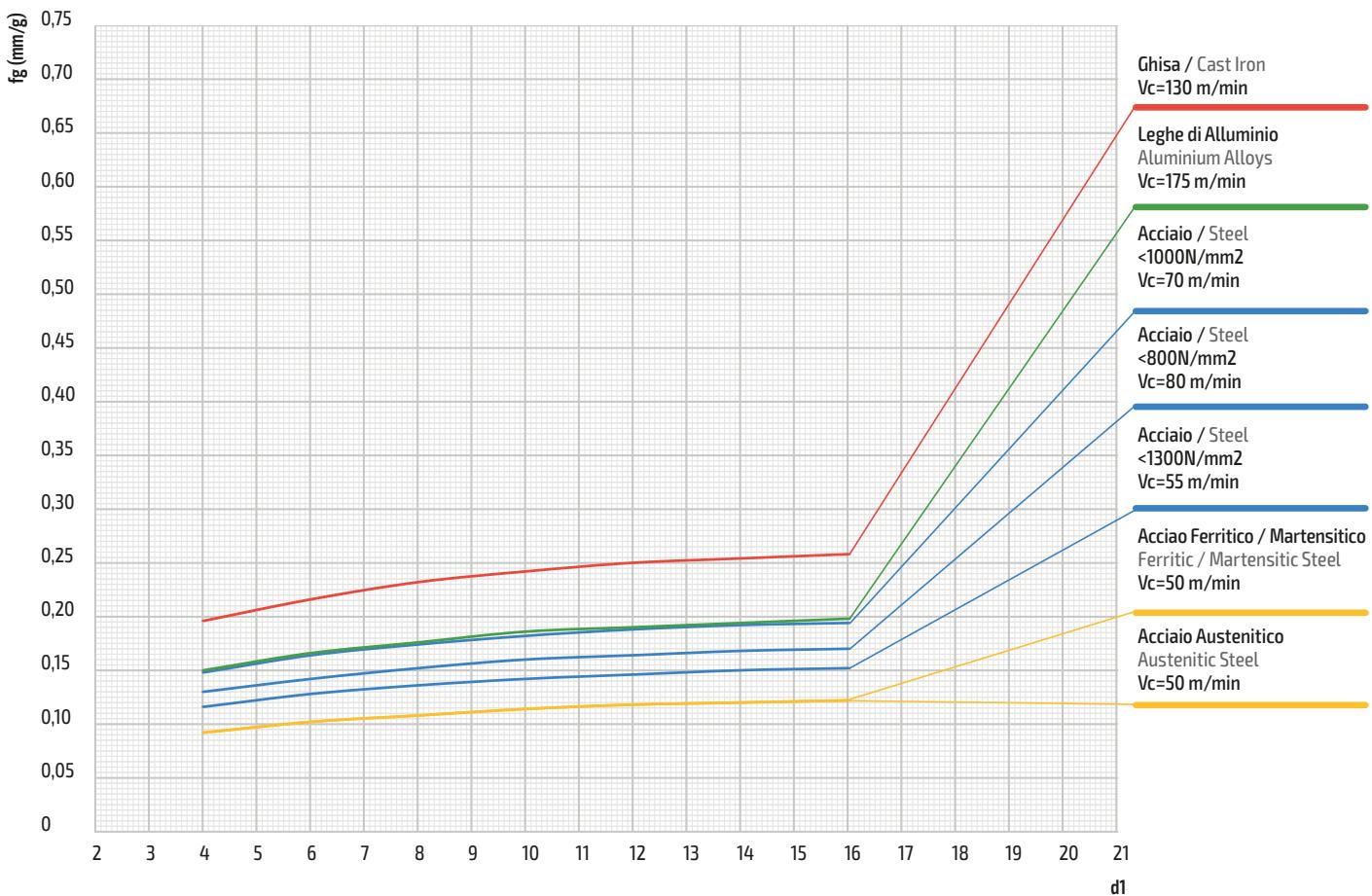
3054A-3084A-3124A

Parametri di lavoro/Working Parameters/
Bearbeitungsparameter/Paramètres d'usinage



4031A-4051A

Parametri di lavoro / Working Parameters /
Bearbeitungsparameter / Paramètres d'usinage



P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

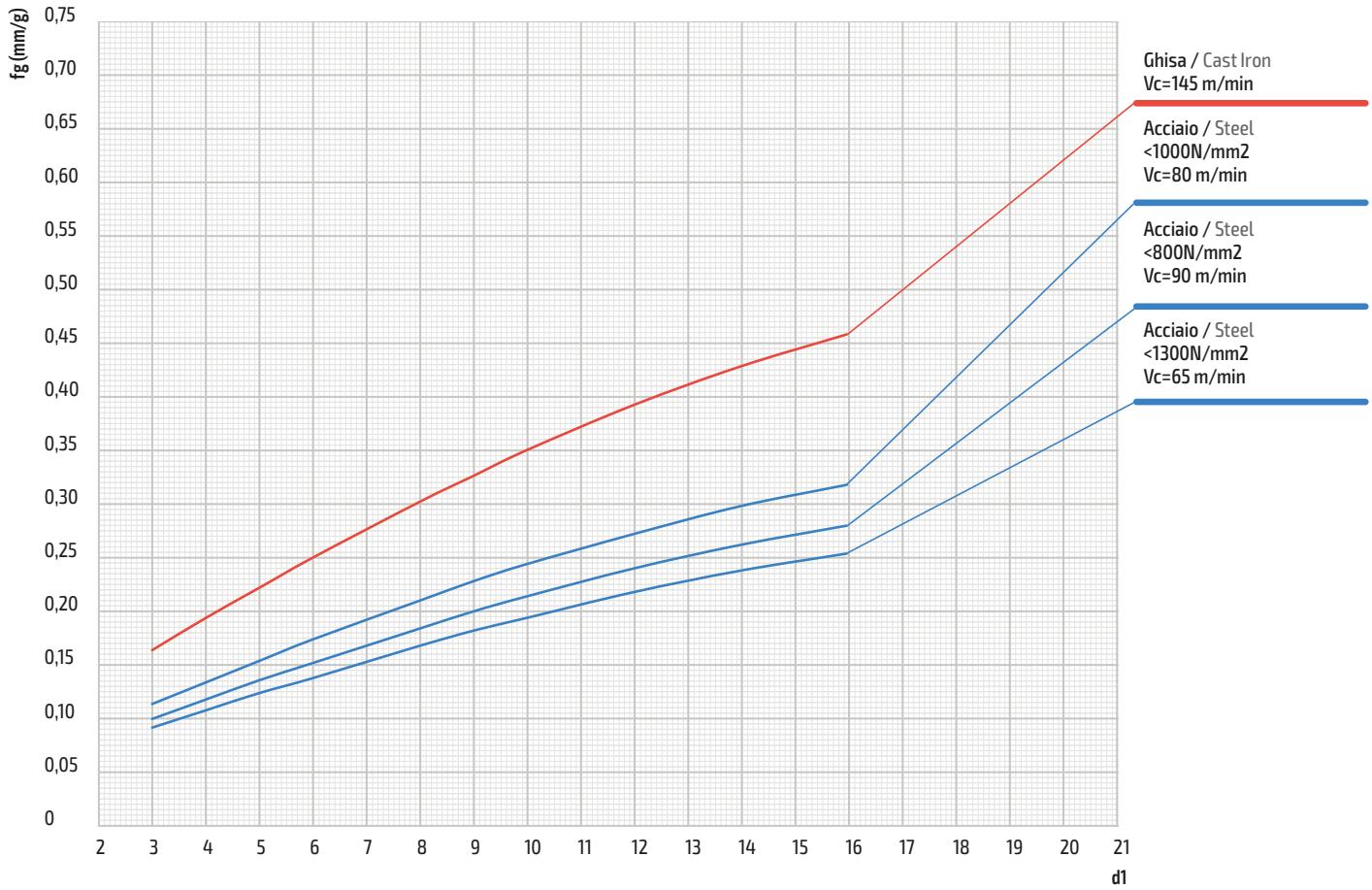
S
HRSA - Titanio
HRSA - Titanium
HRSA - Titan
HRSA - Titane

N
Metalli non ferrosi
Non-ferrous metals
NE-Metalle
Matières non ferreuses

O
NON ISO
Not ISO
Keine ISO
Pas d'ISO

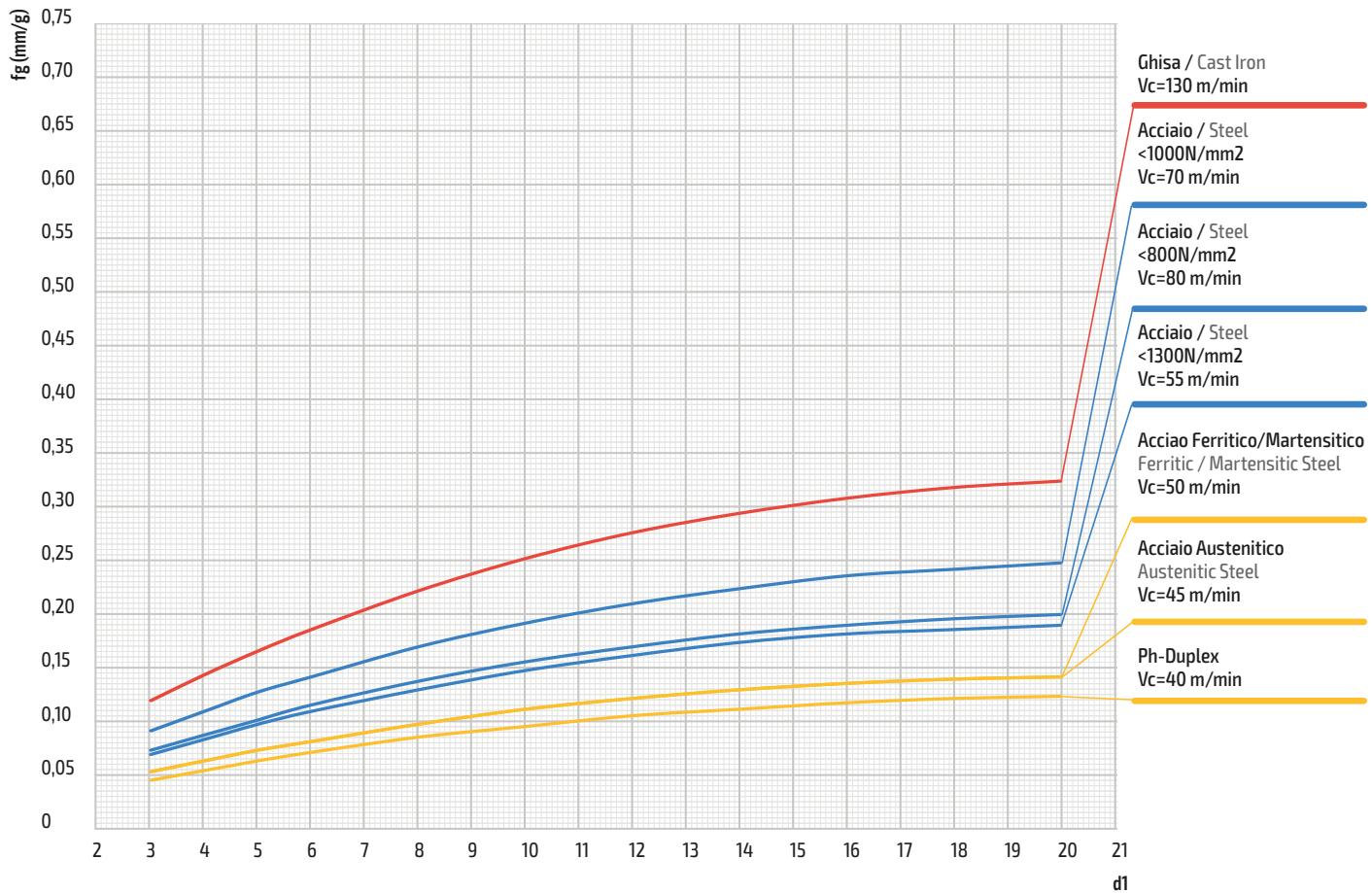
3151A-3201A-3251A-3301A

Parametri di lavoro/Working Parameters/
Bearbeitungsparameter/Paramètres d'usinage



4038A-4058A

Parametri di lavoro / Working Parameters /
Bearbeitungsparameter / Paramètres d'usinage



P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

M
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Stainless Steel
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Acier Inoxydable

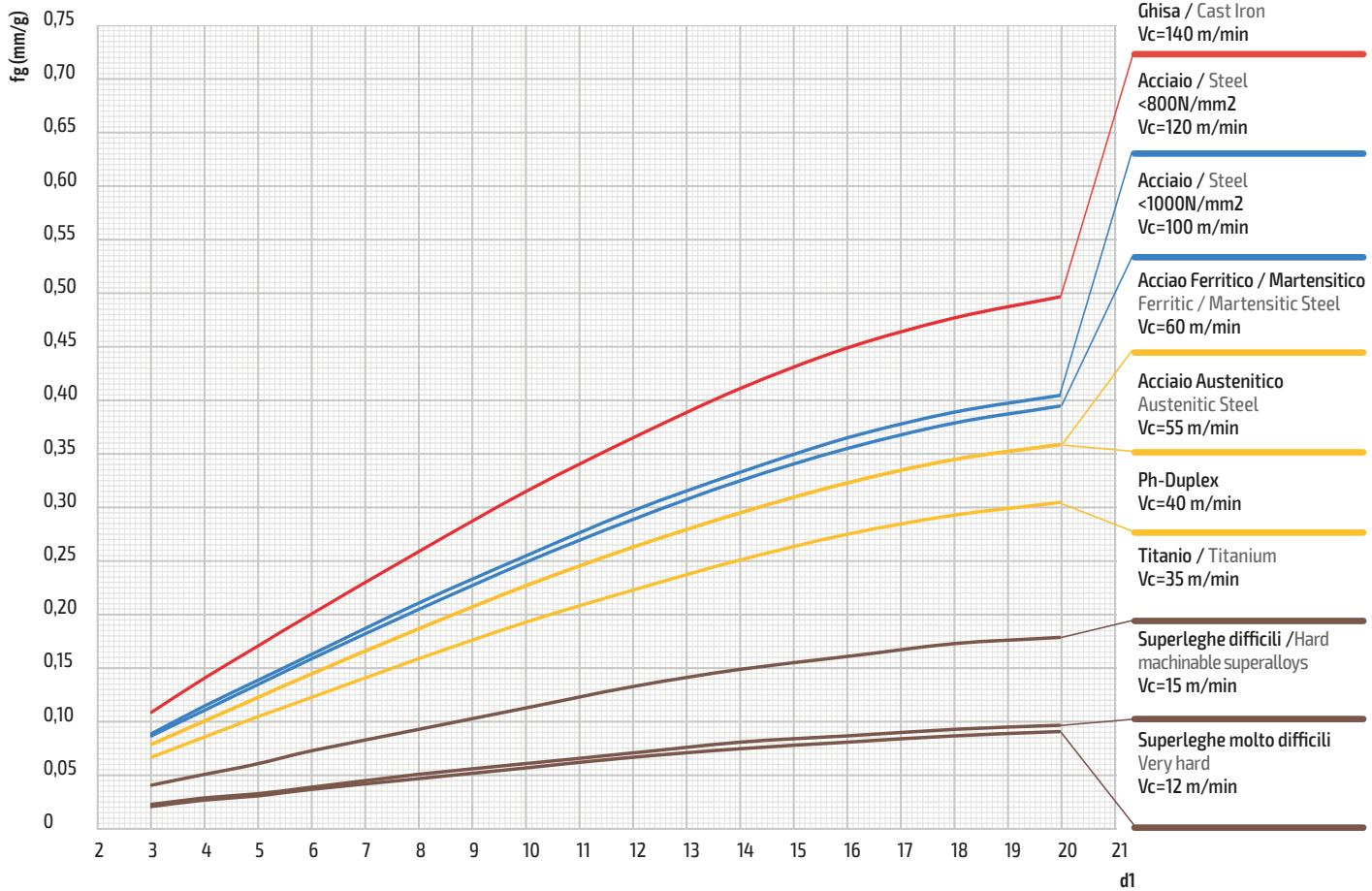
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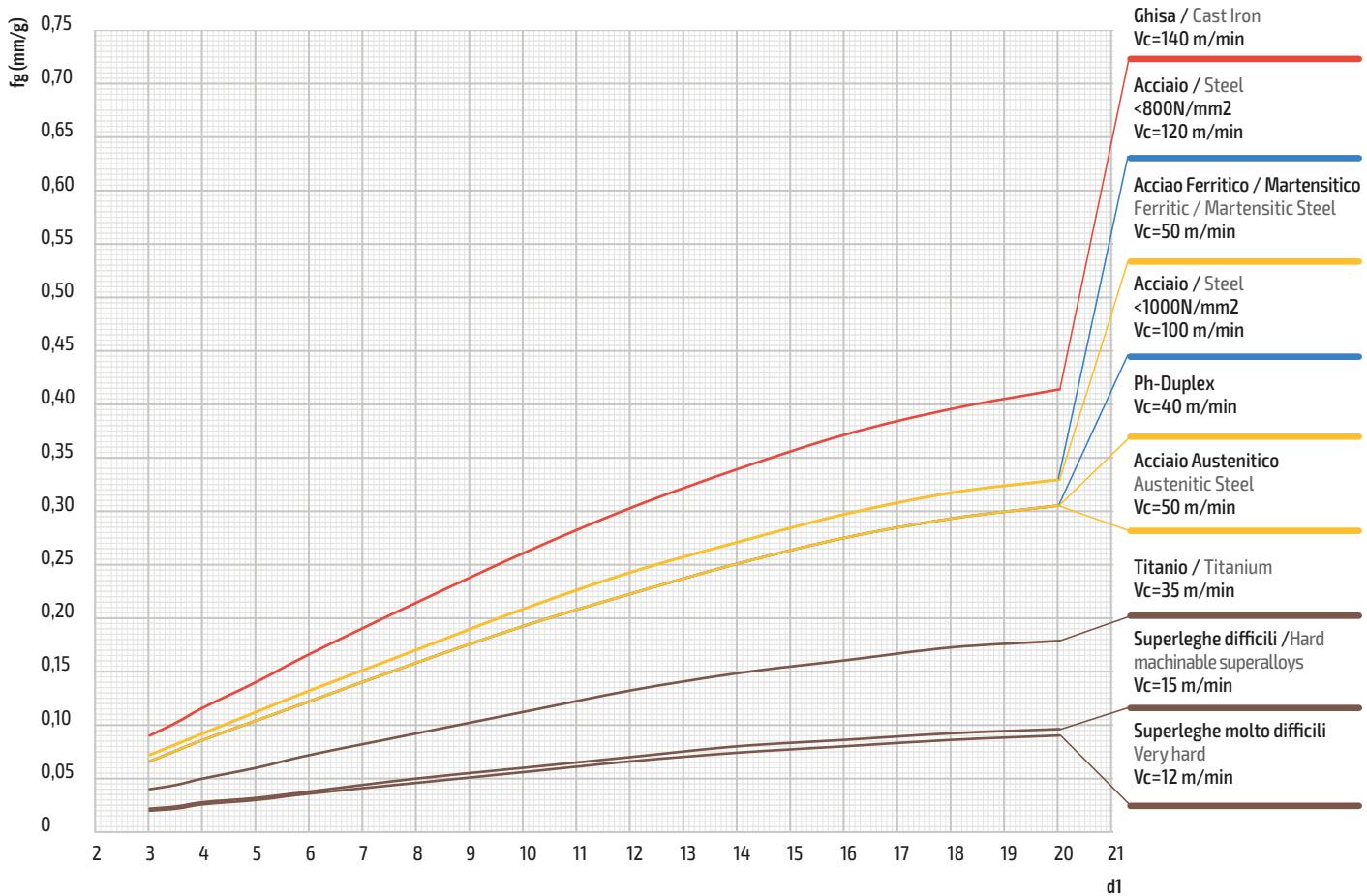
3031S-3051S

Parametri di lavoro/Working Parameters/ Bearbeitungsparameter/Paramètres d'usinage



3081S

Parametri di lavoro / Working Parameters /
Bearbeitungsparameter / Paramètres d'usinage



P
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Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

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Ghisa
Cast Iron
Gusseisen
Fonte

M
Acciaio Inox
Stainless Steel
Edelstahl
Acier Inoxydable

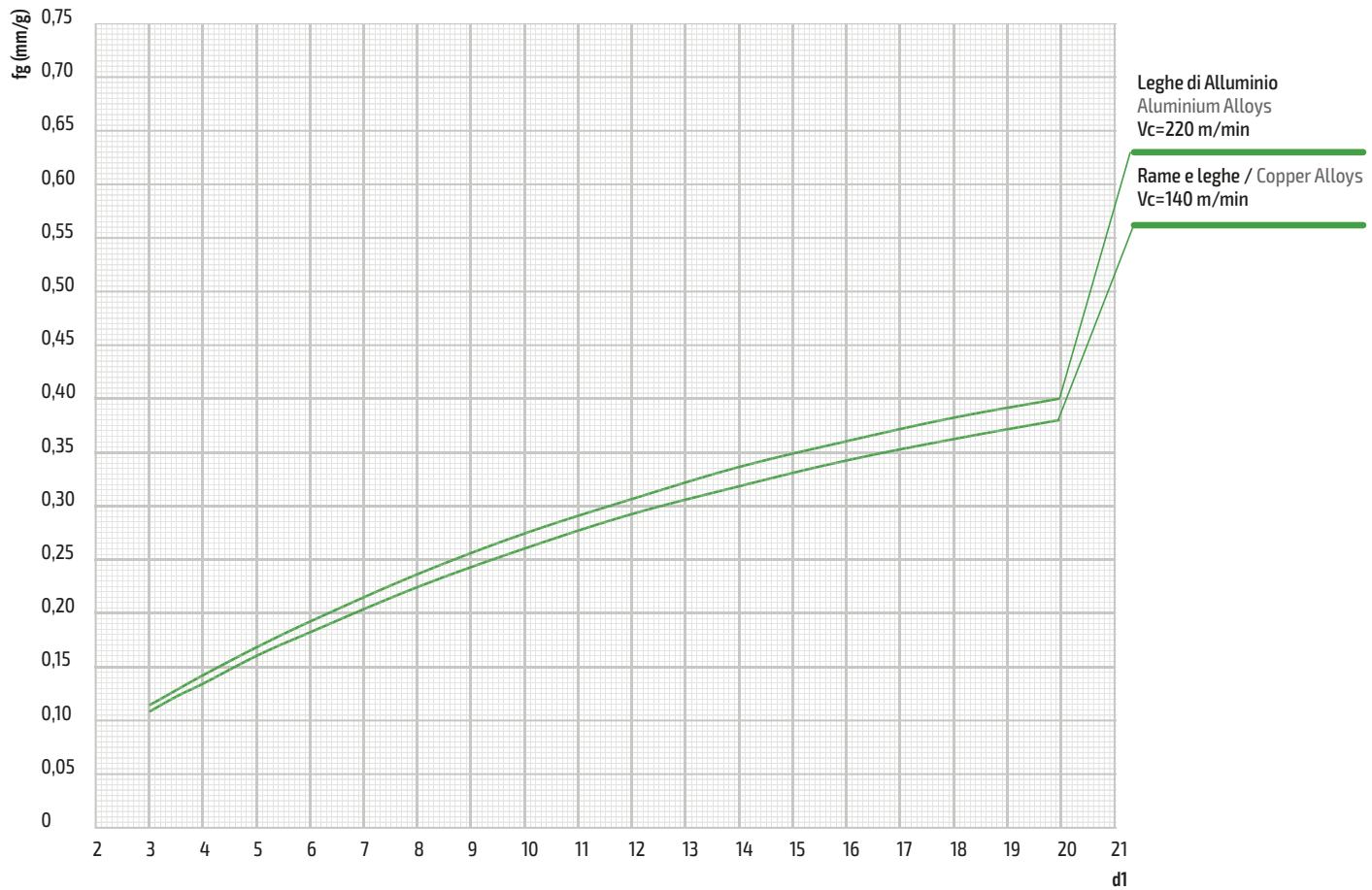
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HRSA - Titanium
HRSA - Titan
HRSA - Titane

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Non-ferrous metals
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Matières non ferreuses

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Keine ISO
Pas d'ISO

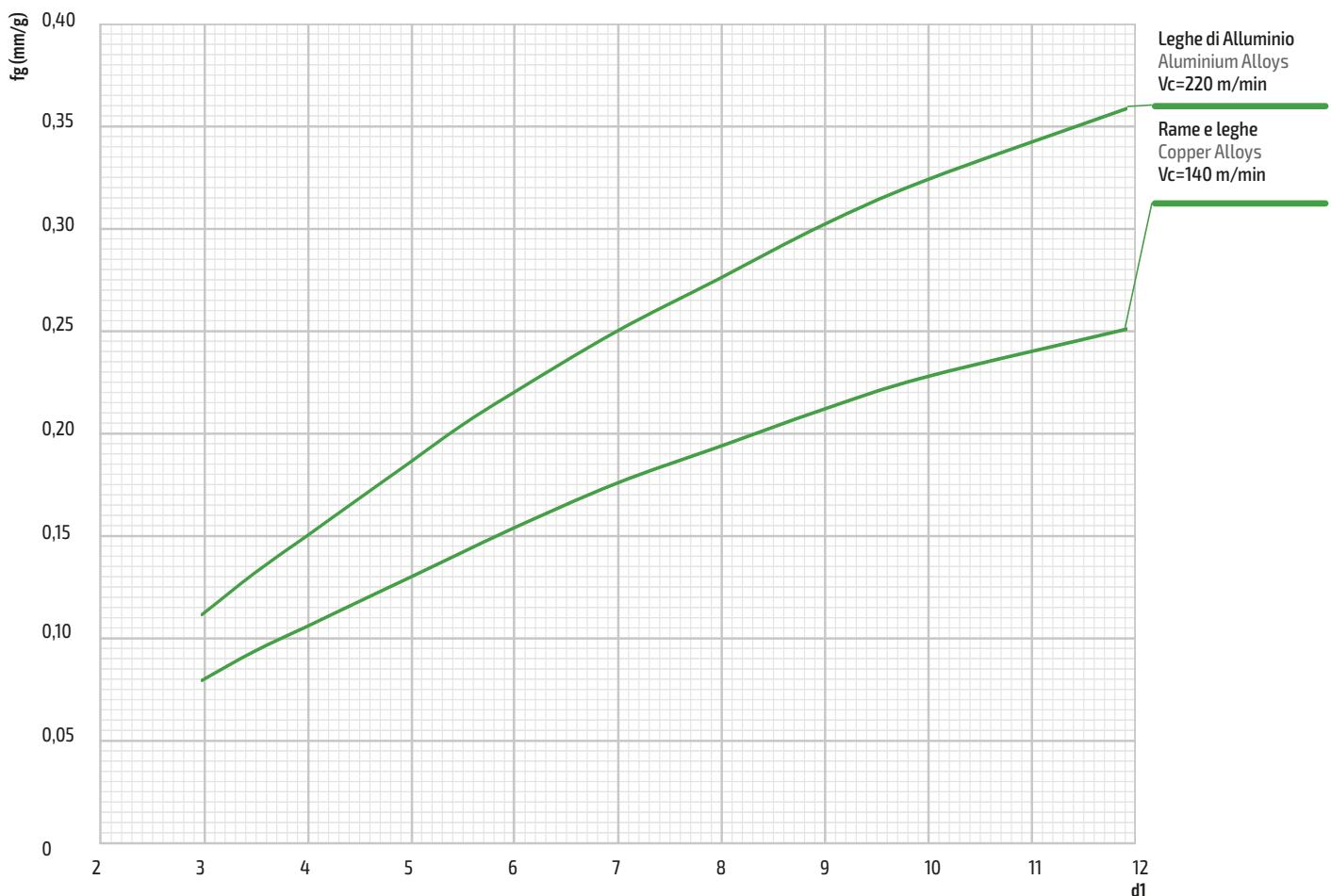
3051N

Parametri di lavoro/Working Parameters/ Bearbeitungsparameter/Paramètres d'usinage



3151N-3201N-3251N

Parametri di lavoro/Working Parameters/
Bearbeitungsparameter/Paramètres d'usinage



P
Acciaio
Steel
Stahl
Acier

H
Acciaio Temprato
Hardened Steel
Gehärteter Stahl
Acier trempé

K
Ghisa
Cast Iron
Gusseisen
Fonte

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Acciaio Inox
Stainless Steel
Edelstahl
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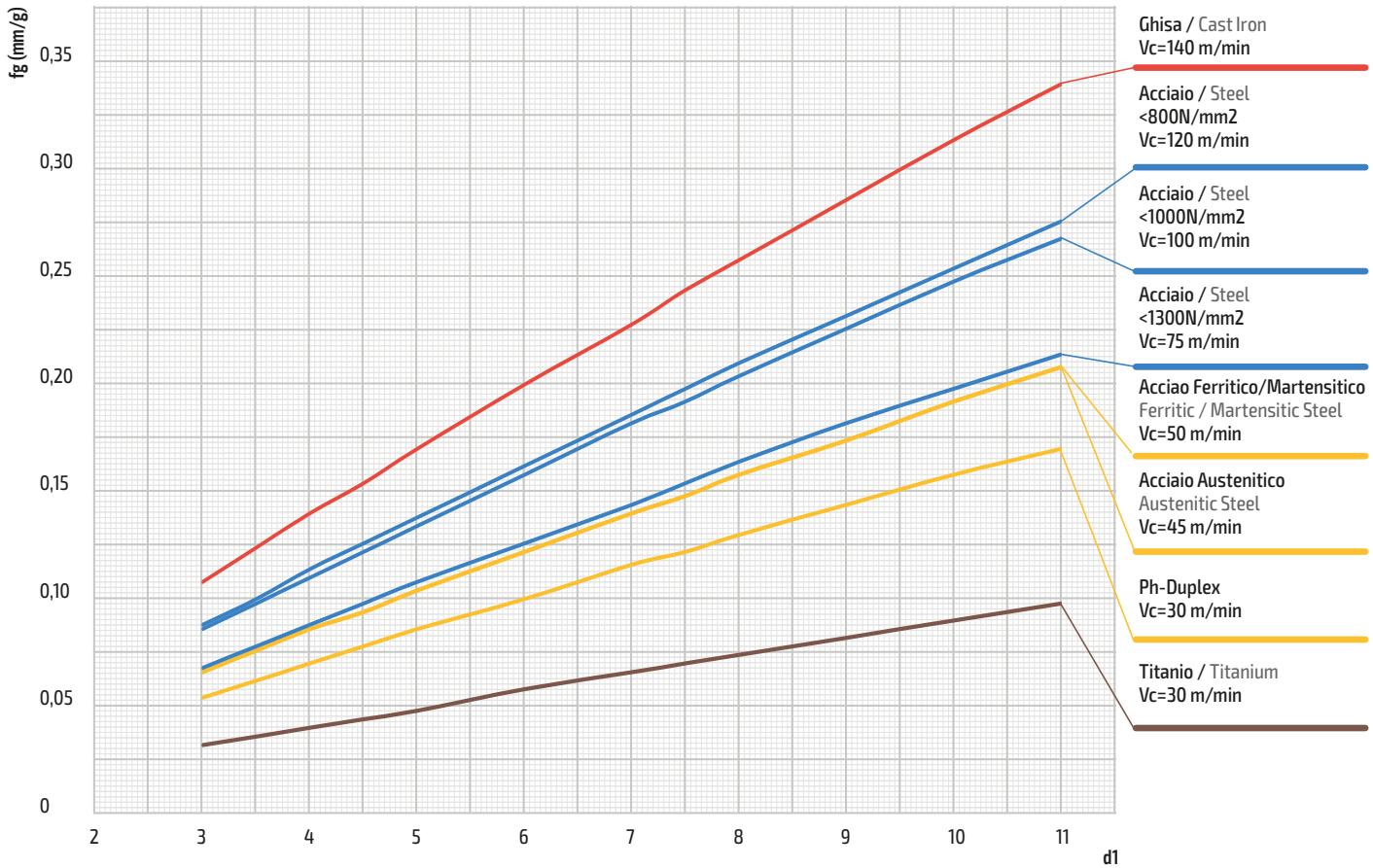
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Pas d'ISO

3825-3835

Parametri di lavoro/Working Parameters/ Bearbeitungsparameter/Paramètres d'usinage



PROCEDURA DI FORATURA PROFONDA PER PUNTE 15-30xD

DEEP DRILLING PROCEDURE FOR 15-30xD DRILLS / TIEFBOHRPROZESS
FÜR 15-30xD BOHRER / PROCEDURE DE PÉRÇAGE PROFOND POUR
FORETS 15-30xD

FASE 1

Esecuzione preforo

Si consiglia l'utilizzo delle punte in metallo duro
Silmax art. 3031A.

Profondità preforo richiesta 2-3xD.

PHASE 1

Pre-drilling

We recommend the use of **Silmax carbide drills art. 3031A.**

Required pre-drilling depth 2-3xD.

PHASE 1

Vorbohren

Wir empfehlen die Verwendung von

Silmax-Hartmetallbohrern Art. 3031A

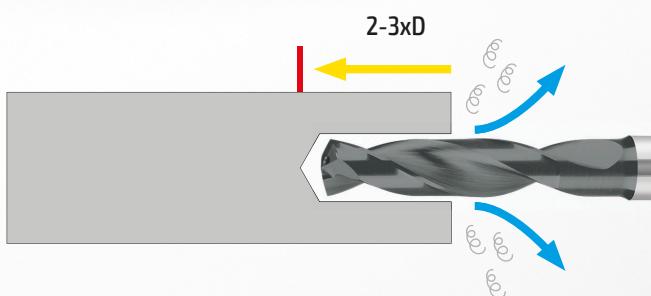
Erforderliche Bohrtiefe 2-3xD.

PREMIÈRE ÉTAPE

Avant trou avec foret pilote

Nous recommandons, au préalable, l'utilisation de **forets en carbure Silmax art. 3031A.**

Profondeur de perçage nécessaire 2-3xD.



FASE 2

Entrata nel preforo

Verificare runout punta, valore consigliato 0/+0,01 mm.
Entrare nel preforo con refrigerante spento a max S200 giri/min e F500 mm/min.

Posizionarsi a +2 mm dalla fine del preforo.

PHASE 2

Entry into the pre-hole

Check drill runout, recommended value 0/+0,01 mm.
Enter the bore with coolant off at max. S200 rpm and F500 mm/min.

Position +2 mm from the end of the pre-hole.

PHASE 2

Eintritt in das Vorloch

Bohrerlauf prüfen, empfohlener Wert 0/+0,01 mm.

Bohrung bei ausgeschaltetem Kühlmittel mit max. S200 U/min und F500 mm/min durchführen.

In einem Abstand von +2 mm vom Ende des Vorloches sich positionieren.

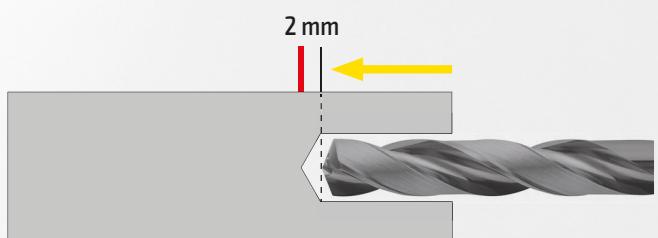
DEUXIÈME ÉTAPE

Entrée dans le trou pilote

Vérifier le faux-rond du foret, valeur recommandée 0/+0,01 mm.

Entrez dans le trou pilote sans liquide de refroidissement à une vitesse rotation maximale de S200 tr/min et F500 mm/min.

Se positionner à +2 mm de l'extrémité de l'avant-trou.



FASE 3

Ciclo di foratura

Accendere il refrigerante.
Iniziare il ciclo di foratura con parametri di lavoro,
S100% F100%.

PHASE 3

Drilling cycle

Switch on the coolant.
Start drilling cycle with working parameters,
S100% F100%.

PHASE 3

Bohrzyklus

Kühlmittel einschalten.
Bohrzyklus mit Arbeitsparametern
S100% F100% starten.

TROIXIÈME ÉTAPE

Cycle de perçage profond

Activer l'arrosage.
Commencer le perçage avec les paramètres de travail,
S100% F100%.

FASE 4

Uscita dal foro

Al termine del ciclo arretrare al punto di partenza
con S200 giri/min F5000 mm/min.
Spegnere refrigerante.
Uscire dal foro a S200 giri/min e F500 mm/min.

PHASE 4

Exit from the hole

At the end of the cycle return to the starting point
with S200 rpm F5000 mm/min.
Switch off coolant.

PHASE 4

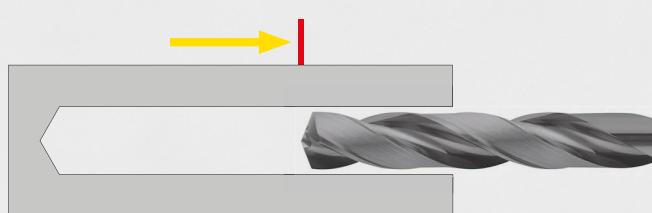
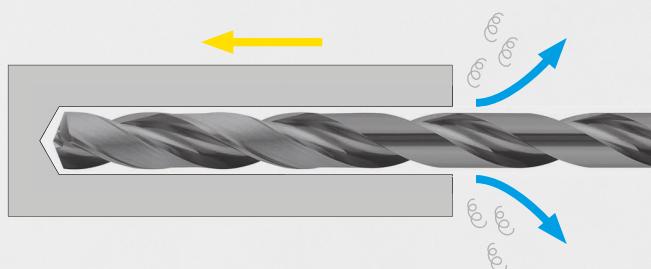
Austritt aus der Bohrung

Am Ende des Zyklus mit S200 U/min F5000 mm/min
zum Startpunkt zurückkehren.
Kühlmittel abschalten.

QUATRIÈME ÉTAPE

Sortie du trou

A la fin du cycle, revenir au point de départ avec
S200 rpm F5000 mm/min.
Arrêter l'alimentation en liquide de refroidissement.

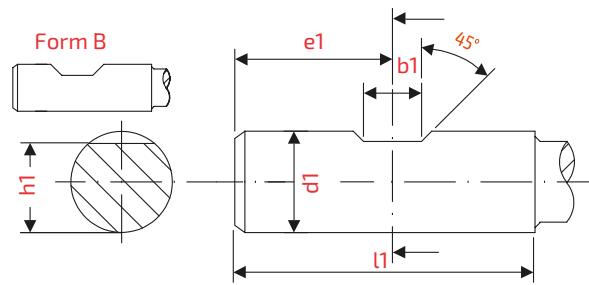


OPZIONI A RICHIESTA

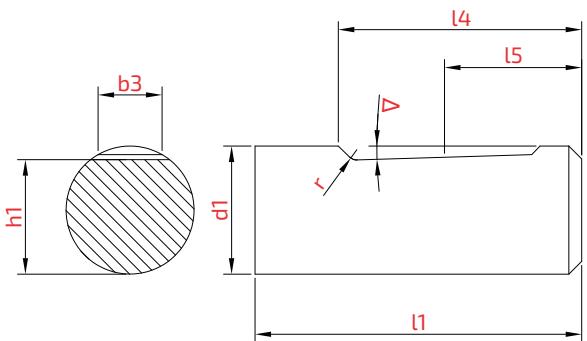
OPTIONS UPON REQUEST

Attacco Weldon (Din)

Weldon Shank (Din)



Whistle notch



| d1 h6 | b1 +0,05/+0 | e1 | h1 11 | l1 |
|-----------------|-----------------------|-----------|-----------------|-----------|
| 6,00 | 4,2 | 18,0 | 5,1 | 36 |
| 8,00 | 5,5 | 18,0 | 6,9 | |
| 10,00 | 7,0 | 20,0 | 8,5 | 40 |
| 12,00 | 8,0 | 22,5 | 10,4 | 45 |
| 14,00 | 8,0 | 22,5 | 12,7 | |
| 16,00 | 10,0 | 24,0 | 14,2 | 48 |
| 18,00 | 10,0 | 24,0 | 16,2 | |
| 20,00 | 11,0 | 25,0 | 18,2 | 50 |

| d1 h6 | b3 | h1 | l1 | l2 | l3 | r | Δ |
|-----------------|-----------|-----------|-----------|-----------|-----------|----------|----------|
| 6,00 | 4,3 | 5,1 | 36 | 25 | 18 | | |
| 8,00 | 5,5 | 6,9 | | | | | |
| 10,00 | 7,1 | 8,5 | 40 | 28 | 20 | | |
| 12,00 | 8,2 | 10,4 | 45 | 33 | 22,5 | | |
| 14,00 | 8,1 | 12,7 | | | | | |
| 16,00 | 10,1 | 14,2 | 48 | 36 | 24 | | |
| 18,00 | 10,8 | 16,2 | | | | | |
| 20,00 | 11,4 | 18,2 | 50 | 38 | 25 | | |
| 25,00 | 13,6 | 23 | 56 | 44 | 32 | | |
| 32,00 | 15,5 | 30 | 60 | 48 | 35 | | |

Notes _____



Riaffilatura e rigenerazione: da usato a nuovo

Silmax è in grado di riaffilare e/o rigenerare come nuove frese, punte e alesatori, nelle versioni normali e speciali, utilizzando gli stessi impianti a 5 assi usati per la loro produzione.

Re-sharpening and re-conditioning: from used to new.

Silmax can re-sharpen and/or re-condition like new standard and special end mills, drills and reamers using the same 5-axis machines used for their production.

Nachschliff und Regeneration: von gebraucht bis neu

Silmax ist in der Lage, wie neue Fräser, Bohrern und Reibahlen in Standard- und Sonderversionen unter Verwendung derselben 5-Achsen-Produktionssysteme erneut zu schärfen und/ oder zu regenerieren.

Réaffûtage et régénération

Réaffûtage et régénération de fraises, de forets et d'alésoirs standard et spéciaux en utilisant les mêmes installations à 5 axes utilisées pour leur fabrication.



Esecuzione perfetta

Esecuzione perfetta con la garanzia del produttore e collaudato effettuato su strumenti di controllo di alta precisione Zoller Genius e Walter Helicheck con emissione di certificato su richiesta.



Rivestimento PVD

Rivestimento PVD eseguito nel nostro centro di rivestimento interno in Lanzo Torinese con la tecnologia Balzers sia per HSS che HM come Alcrona, Futura, Alnova, Latuma, TiN e Tisaflex.



Trattamento 4S

Trattamento 4S di super finitura superficiale del filo tagliente pre e post rivestimento, eseguito con impianto OTEC e verificato con strumento di misura Alicona.



Consegna rapida

Consegna rapida entro 10 giorni lavorativi dal ricevimento degli utensili per riaffilatura e rivestimento.

Perfect execution

A perfect execution with the manufacturer's warranty and testing carried out with high-precision measurement instruments of Zoller Genius and Walter Helicheck, with issuing of certificate on request.

PVD Coating

PVD coating in our in-house coating centre in Lanzo Torinese is carried out using Balzers technology, such as Alcrona, Futura, Alnova, Latuma, TiN and Tisaflex, both for HSS and HM tools.

4S Treatment

4S super-finishing surface treatment of cutting edge before and after the coating process, is carried out using an OTEC system and checked with an Alicona measuring instrument.

Fast delivery

Fast delivery within 10 working days from receipt of tools for resharpening and coating.

Perfekte Ausführung

Perfekte Ausführung mit der Garantie des Herstellers und Kontrolle mittels der Messmaschinen „Genius“ der Firma Zoller und „Helicheck“ der Firma Walter Maschinenbau mit Ausstellung des Zertifikates auf Anfrage.

PVD-Beschichtung

Durchgeführt in unserem internen Beschichtungszentrum in Lanzo Torinese, mit der Oerlikon Balzers Technologie sowohl für HSS als auch für HM wie Alcrona, Futura, Alnova, Latuma, TiN und Tisaflex

4S-Behandlung

4S-Behandlung mit dem Superfinish Verfahren für die Feinbearbeitung der Schneidkantenoberfläche der Werkzeuge vor und nach der Beschichtung mittels Anlage der Firma OTEC Präzisionsfinish GmbH und mit Messinstrumenten der Firma Alicona überprüft.

Schnelle Lieferung

Schnelle Lieferung innerhalb von 10 Werktagen ab Empfang der Werkzeuge.

Exécution parfaite

Exécution parfaite avec garantie du fabricant et essais sur des instruments de contrôle de haute précision Zoller Genius, Walter Helicheck et Alicona avec certificat délivré sur demande.

Revêtement PVD

Revêtement PVD effectué dans notre centre à Lanzo Torinese avec la technologie Balzers pour HSS et HM comme Alcrona, Futura, Alnova, Latuma, TiN et Tisaflex.

Traitement 4S

Traitement 4S de super finition de la surface de l'arête coupe avant et après le revêtement, effectué avec l'équipement OTEC et vérifié avec l'instrument de mesure Alicona.

Livraison rapide

Livraison rapide dans les 10 jours ouvrables suivant la réception des outils.



ITALY

Silmax SpA
Via Fucine, 9
10074 Lanzo Torinese (TO)
Tel.: +39 0123 940 301
Fax: +39 0123 940 399
silmax@silmax.it

SLOVAKIA

Silmax Slovakia S.R.O
Cédrová 4377/18
Dubnica nad Váhom, 018 41
Tel.: +39 348 688 3691
odbyt@silmax.com

CHINA

Silmax Precision Tools (Wuxi) Co., Ltd
Room 101, Building 4#,
Yunzhi Technology Park,
LIANDO U VALLEY, No. 566
Xitai Road, Xinwu District
Wuxi City - 214112
Tel: +86 051 0 8190 5985
qiqing.li@silmax.com

INDIA

Silmax Tools India Pvt Ltd,
No. 514, First Floor, 16th Cross
Indiranagar 2nd Stage
Bangalore - 560038, Karnataka
Tel.: +91 802 525 2555
sales@silmax.in



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09/2023

UFFICIO VENDITE

SALES OFFICE
vendite@silmax.it
Tel.: +39 0123 940 332
Fax: +39 0123 940 399

UFFICIO TECNICO

TECHNICAL SUPPORT
assistenza@silmax.it
Tel.: +39 0123 940 349
Tel.: +39 0123 940 301

silmax.it

