

# SILMAX

QUALITY AS A STANDARD

## MASCHI

TAPS

GEWINDERBOHRER

TARAUDS



SILMAX.IT



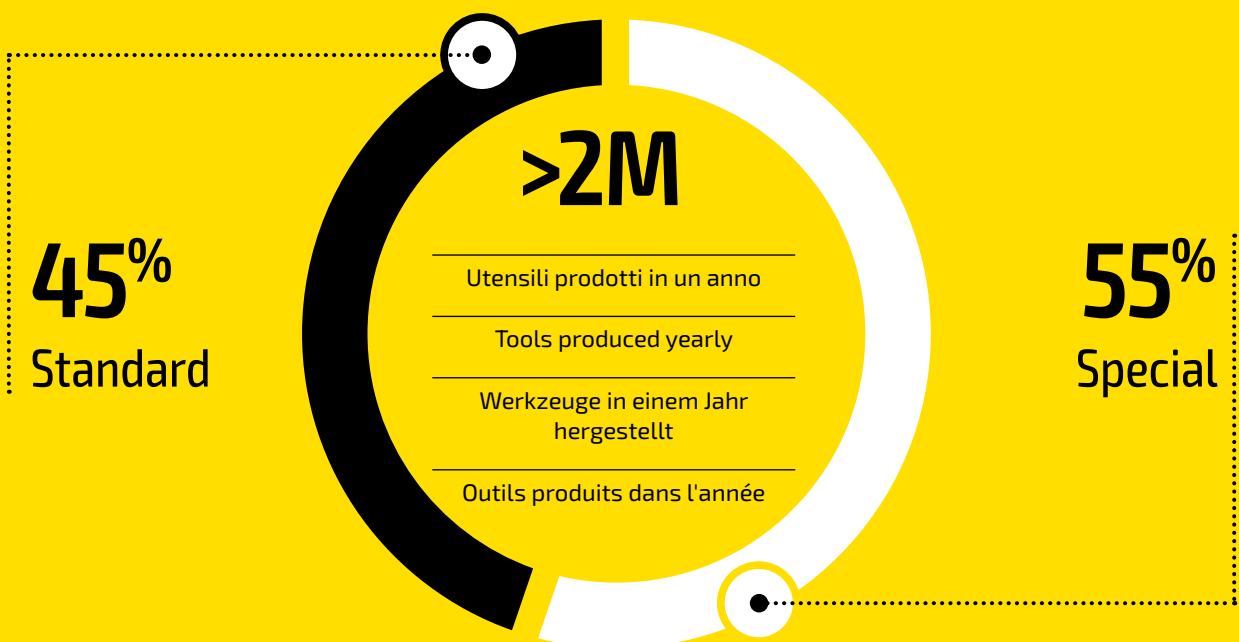
# PRODOTTI SPECIALI

SPECIAL TOOLS / SPEZIELLE PRODUKTE / PRODUITS SPÉCIAUX



# I NUMERI DI SILMAX

SILMAX FIGURES / SILMAX ZAHLEN / CHIFFRES SILMAX



# I NOSTRI MERCATI

OUR MARKETS / UNSERE MÄRKTE / LES PRINCIPAUX SECTEURS

1

## Aereonautica

Aerospace  
Luftfahrtbereich  
Aéronautique



2

## Stampi

Mold  
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



# CATALOGHI SILMAX

SILMAX CATALOGUES / SILMAX-KATALOGE / CATALOGUES SILMAX



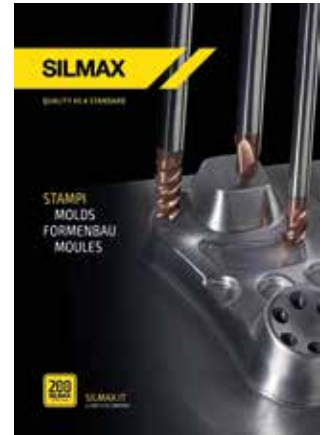
**Catalogo generale**  
General Catalog



**Universali**  
Universal Line



**Titanio Superleghe, Acciaio Inox**  
Titanium Super Alloys, Stainless Steel



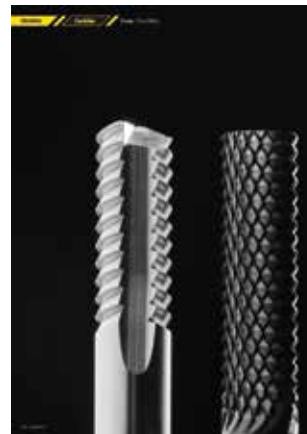
**Stampi**  
Molds



**Alto Rendimento**  
High Performance



**Leghe leggere**  
Light Alloys



**Materiali compositi**  
Composite Materials



**Tasche**  
Pockets



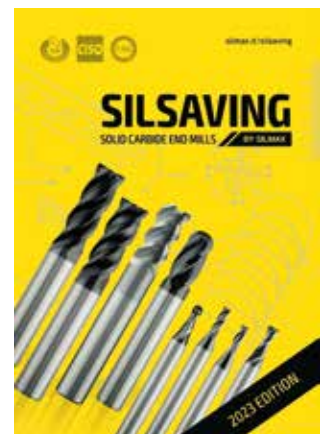
**Punte**  
Drilling



**Punte a cannone**  
Gun drills



**Aerospace**  
Aerospace



**Silsaving**  
Silsaving

# LA NUOVA GAMMA MASCHI

THE NEW TAP RANGE / DAS NEUE SORTIMENT AN GEWINDEWERKZEUGEN /  
LA NOUVELLE LINE DE TARAUDÉS

**La gamma Silmax dedicata alla maschiatura** si caratterizza per un'offerta ampia e variegata.

Trovano spazio nel nostro catalogo soluzioni sia in **acciaio al cobalto (HSSE)** sia in **acciaio sinterizzato (HSS PM, powder metal)**.

Le geometrie degli utensili, le ottime finiture del filo tagliente, le ricoperture ottimizzate permettono un incremento di produttività ed una maggiore durata dell'utensile.

La gamma permette di soddisfare le principali esigenze di maschiatura garantendo:

- **Processi sicuri**
- **Precisione di esecuzione**
- **Resistenza all'usura**

**Silmax** bietet ein breites und vielfältiges **Sortiment an Gewindewerkzeugen an.**

In unserem Katalog werden sowohl Lösungen in **Kobaltstahl (HSSE)** als auch in **Sinterstahl (HSS PM, Powder Metal)** angeboten.

Die Werkzeuggeometrien, das Feinstschlichten der Schneidkante, die optimierten Beschichtungen gewährleisten eine Produktivitätssteigerung sowie eine erhöhte Standzeit der Werkzeuge.

Die Produktpalette wird den Erfordernissen aller Bereiche in denen diese Gewindewerkzeuge zum Einsatz kommen gerecht und garantiert:

- **Prozesssicherheit**
- **Genauigkeit der Ausführung**
- **Verschleißbeständigkeit**

**Silmax range specifically studied for tapping** includes a wide and varied assortment.

Our catalogue offers both **cobalt high speed steel (HSSE) and sintered steel (HSS PM, powder metal)** solutions.

The tool geometries, the excellent cutting-edge finishes and the optimised coatings enable to increase productivity and obtain a longer tool life.

The range allows to meet the main tapping requirements, while guaranteeing:

- **Safe processes**
- **Precision of execution**
- **Wear resistance**

**La gamme Silmax dédiée au taraudage** est caractérisée par un assortiment large et varié.

Notre catalogue offre des solutions soit en **acier au cobalt (HSSE)**, soit en **acier fritté (HSS PM, powder metal)**.

Les géométries des outils, les excellentes finitions de l'arête de coupe, les revêtements optimisés permettent une augmentation de productivité et une plus longue durée de l'outil.

La gamme permet de satisfaire les principales exigences de taraudage en garantissant:

- **Processus sûrs**
- **Précision d'exécution**
- **Résistance à l'usure.**

# TAP Maschiatura

TAPPING / GEWINDE / TARAUDAGE

 $\varnothing$   
(D mm)

Descrizione




Description

Beschreibung

Description

## LINEA PERFORMANCE

PERFORMANCE LINE / PERFORMANCE-LINIE / LIGNE PERFORMANCE

	<b>T00031</b>	M1 ÷ M36	Maschi a macchina HSS-PmCo per fori passanti. Scanalatura diritta, imbocco corretto	HSS-PmCo machine taps for through holes. Straight flute, corrected entry	HSS-PmCo Maschinengewindebohrer für Durchgangsgewinde. Gerade genutet, Schälanschnitt	Tarauds machine HSS-PmCo pour trous débouchants. Rainure droite, entrée corrigée
	<b>T00032</b>	M2 ÷ M42	Maschi a macchina HSS-PmCo per fori ciechi. Elica 45°	HSS-PmCo machine taps for blind holes. 45° Helix	HSS-PmCo Maschinengewindebohrer für Grundgewinde 45° Spirale	Tarauds machine HSS-PmCo pour trous borgnes. Hélice 45°
	<b>T00034</b>	M2 ÷ M20	Maschi a rullare HSS-PmCo con canalini di lubrificazione	HSS-PmCo forming taps with lubrication grooves	HSS-PmCo Maschinengewindeformer mit IK	Tarauds à rouler HSS-PmCo avec goujures de lubrification

## LINEA STANDARD

STANDARD LINE / STANDARD-LINIE / LIGNE STANDARD

	<b>T00021</b>	M2 ÷ M36	Maschi a macchina HSSE per fori passanti. Scanalatura diritta, imbocco corretto	HSSE machine taps for through holes. Straight flute, corrected entry	HSS-Maschinengewindebohrer für Durchgangsgewinde. Gerade genutet, Schälanschnitt	Tarauds machine HSSE pour trous débouchants. Rainure droite, entrée corrigée
	<b>T00022</b>	M2 ÷ M36	Maschi a macchina HSSE per fori ciechi. Elica 40°	HSSE machine taps for blind holes. 40° Helix	HSS-Maschinengewindebohrer für Grundgewinde. 40° Spirale	Tarauds machine HSSE pour trous borgnes. Hélice 40°
	<b>T00023</b>	M2 ÷ M33	Maschi a macchina HSSE per fori ciechi. Elica 15°	HSSE machine taps for blind holes. 15° Helix	HSS-Maschinengewindebohrer für Grundgewinde. 15° Spirale	Tarauds machine HSSE pour trous borgnes. Hélice 15°
	<b>T00024</b>	M2 ÷ M20	Maschi a rullare HSSE con canalini di lubrificazione	HSSE forming taps with lubrication grooves	HSS-Maschinengewindeformer mit IK	Tarauds à rouler HSSE avec goujures de lubrification
	<b>T00025</b>	1/8" ÷ 1 1/2"	Maschi a macchina HSSE per fori ciechi. Elica 40°, rastremati	HSSE machine taps for blind holes. 40° Helix, tapered	HSS-Maschinengewindebohrer für Grundgewinde. 40° Spirale, verstärkt	Tarauds machine HSSE pour trous borgnes. Hélice 40°, conique
	<b>T00010</b>	M2 ÷ M20	Maschi a mano HSSE per fori ciechi e passanti. Scanalatura diritta, per materiali tenaci	HSSE hand taps for blind and through holes. Straight flute for tough materials	HSSE-Handgewindebohrer für Sack- und Durchgangslöcher. Gerade genutet, für zähe Materialien	Tarauds à main HSSE pour trous borgnes et débouchants. Rainure droite pour matériaux résistants

Acciaio  
Steel  
Stahl  
Acier

1

Acciai Temprati  
Hardened Steel  
Gehärtete Stähle  
Aciers Trempés

2

Ghise  
Cast Iron  
Guss  
Fontes

3

Acciaio Inox  
Stainless Steel  
Edelstahl  
Acier Inoxydable

4

PH Duplex

5

Titanio  
Titanium  
Titan  
Titane

6

Leghe Leggere  
Light Alloys  
Leichte Legierungen  
Alliages Legers

7

Superleghe  
Superalloys  
Superlegierungen  
Superalliages

8

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# MASCHI: LINEA PERFORMANCE

TAP-HIGH PERFORMANCE LINE / GEWINDEBOHRER PERFORMANCE-LINIE / TARAUDS LIGNE PERFORMANCE

La linea si compone di **utensili di ultima generazione**, tutta la gamma viene costantemente aggiornata in base alle ultime novità tecnologiche. Gli utensili sono stati progettati per lavorare, con **parametri molto elevati**, un'ampia gamma di **materiali** inclusi i materiali di più difficile lavorabilità. Tutti gli aspetti di ogni singola serie sono stati ottimizzati in termini di:

- **Geometria delle gole** per assicurare un processo sicuro per ogni tipologia di materiale. Un'ottima evacuazione del truciolo permette un incremento di produttività.
- **Arrotondamento del filo tagliente** appositamente sviluppato per assicurare una formazione ottimale del truciolo.
- **Rivestimento** per migliorare la resistenza all'usura ed una riduzione delle forze di taglio. Il rivestimento ed i trattamenti delle superfici permettono una diminuzione degli attriti ed una diminuzione nello sviluppo di calore.
- **Materiale di base di alta qualità in HSS PM** per garantire le massime performance.

Die Linie besteht aus **Werkzeugen neuester Generation**, das gesamte Sortiment wird ständig gemäss der letzten technologischen Innovationen aktualisiert. Die Werkzeuge sind eigens dafür entwickelt worden, um mit **sehr hohen Standards** ein **reichhaltiges Spektrum an Materialien** zu bearbeiten, auch wenn es sich um schwer bearbeitbare Werkstoffe handelt. Jede einzelne Serie wurde im Hinblick auf folgende Aspekte optimiert:

- **Nutgeometrien** um einen sicheren Prozess für jede Art von Material zu gewährleisten. Eine optimale Spanabfuhr ermöglicht eine Produktivitätssteigerung.
- **Speziell abgerundete Schneidkante** für optimale Zerspanung.
- **Beschichtung** zur Verbesserung der Verschleißbeständigkeit und Reduzierung der Schnittkraft. Beschichtung und Oberflächenbehandlungen erlauben eine Verringerung der Reibung und eine Abnahme in der Wärmeentwicklung.
- **Hochwertiger HSS-PM Grundwerkstoff** um hochgradige Leistungsfähigkeit zu garantieren.

The line consists of **state-of-the-art tools**.

The whole range is constantly updated based on the latest technological innovations.

These tools have been designed to work, at **very high parameters**, a **broad spectrum of materials**, including the most difficult-to-machine materials. All the aspects of each single series have been optimised in terms of:

- **Groove geometry** to ensure a safe process for all types of materials. An excellent chip removal enables to increase productivity.
- **Rounding of cutting edges** expressly made to ensure an optimal chip formation.
- **Coating** to improve wear resistance and reduce cutting forces. The coating and surface treatments allow a reduction of frictions and a lower heat generation.
- **High-quality HSS PM** base material to guarantee the maximum performances.

La ligne comprend des **outils de dernière génération**. Toute la gamme est continuellement actualisée selon les plus récentes innovations technologiques. Les outils ont été conçus pour usiner, avec des **paramètres très élevés**, un large éventail de matériaux, y compris les matériaux plus difficiles à couper. Tous les aspects de chaque série ont été optimisés pour ce qui concerne:

- **Géométrie des rainures** pour assurer un processus sûr pour tous les types de matériaux. Un excellent enlèvement de copeaux permet une augmentation de productivité.
- **Arrondi de l'arête de coupe** spécialement conçu pour assurer une formation optimale des copeaux.
- **Revêtement** pour améliorer la résistance à l'usure et réduire les forces de coupe. Le revêtement et les traitements des surfaces permettent une diminution des frottements et du développement de chaleur.
- **Matériau de base de haute qualité en HSS PM** pour garantir des performances maximales.



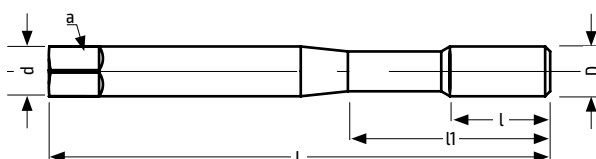


# LINEA PERFORMANCE

PERFORMANCE LINE / PERFORMANCE-LINIE / LIGNE PERFORMANCE

## T00031

**Maschi a macchina HSS-PmCo per fori passanti**  
**Scanalatura diritta, imbocco corretto**  
 HSS-PmCo machine taps for through holes  
 Straight flute, corrected entry  
 HSS-PmCo Maschinengewindebohrer für Durchgangsgewinde  
 Gerade genutet, Schälanschnitt  
 Tarauds machine HSS-PmCo pour trous débouchants  
 Rainure droite, entrée corrigée



D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	THREADMAX	Stock
M1	0,25	40	5,5	8,0	2,5	2,1	2	DIN 371	0,75	T00031E00100001	○
M1,2	0,25	40	5,5	8,0	2,5	2,1	2	DIN 371	0,95	T00031E00120001	○
M1,4	0,30	40	7,0	10,0	2,5	2,1	2	DIN 371	1,10	T00031E00140001	○
M1,6	0,35	40	8,0	11,0	2,5	2,1	2	DIN 371	1,25	T00031E00160001	○
M1,7	0,35	40	8,0	11,0	2,5	2,1	2	DIN 371	1,35	T00031E00170001	○
M1,8	0,35	40	8,0	11,0	2,5	2,1	2	DIN 371	1,45	T00031E00180001	○
M2	0,40	45	7,0	11,0	2,8	2,1	3	DIN 371	1,60	T00031E00200001	●
M2,5	0,45	50	9,0	15,0	2,8	2,1	3	DIN 371	2,05	T00031E00250001	●
M3	0,50	56	10,0	18,0	3,5	2,7	3	DIN 371	2,50	T00031E00300001	●
M4	0,70	63	12,0	21,0	4,5	3,4	3	DIN 371	3,30	T00031E00400001	●
M5	0,80	70	14,0	25,0	6,0	4,9	3	DIN 371	4,20	T00031E00500001	●
M6	1,00	80	16,0	29,0	6,0	4,9	3	DIN 371	5,00	T00031E00600001	●
M8	1,25	90	18,0	33,0	8,0	6,2	3	DIN 371	6,80	T00031E00800001	●
M10	1,50	100	20,0	36,0	10,0	8,0	3	DIN 371	8,50	T00031E01000001	●
M12	1,75	110	24,0	-	9,0	7,0	4	DIN 376	10,20	T00031E01200001	●
M14	2,00	110	25,0	-	11,0	9,0	4	DIN 376	12,00	T00031E01400001	○
M16	2,00	110	28,0	-	12,0	9,0	4	DIN 376	14,00	T00031E01600001	●
M18	2,50	125	32,0	-	14,0	11,0	4	DIN 376	15,50	T00031E01800001	○
M20	2,50	140	32,0	-	16,0	12,0	4	DIN 376	17,50	T00031E02000001	●
M24	3,00	160	36,0	-	18,0	14,5	4	DIN 376	21,00	T00031E02400001	●
M27	3,00	160	36,0	-	20,0	16,0	4	DIN 376	24,00	T00031E02700001	○
M30	3,50	180	40,0	-	22,0	18,0	4	DIN 376	26,50	T00031E03000001	●
M33	3,50	180	40,0	-	25,0	20,0	5	DIN 376	29,50	T00031E03300001	○
M36	4,00	200	55,0	-	28,0	22,0	5	DIN 376	32,00	T00031E03600001	○

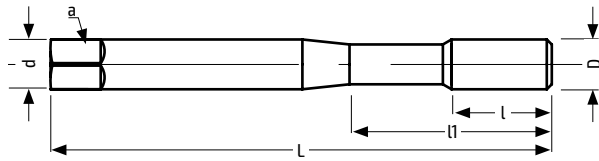
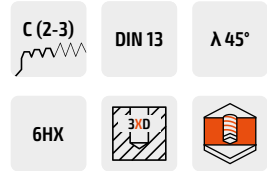
00031	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Threadmax	25-35	20-30	10-20	25-35	10-20	10-20	6-8	30-40	25-30	12-18	12-18

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date

# T00032

**Maschi a macchina HSS-PmCo per fori ciechi. Elica 45°**  
HSS-PmCo machine taps for blind holes. 45° Helix  
HSS-PmCo Maschinengewindebohrer für Grundgewinde. 45° Spirale  
Tarauds machine HSS-PmCo pour trous borgnes. Hélice 45°



D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	THREADMAX	Stock
M2	0,40	45	6,0	12,0	2,8	2,1	3	DIN 371	1,60	T00032E00200001	●
M2,5	0,45	50	6,5	15,0	2,8	2,1	3	DIN 371	2,05	T00032E00250001	●
M3	0,50	56	7,0	15,0	3,5	2,7	3	DIN 371	2,50	T00032E00300001	●
M4	0,70	63	8,5	21,0	4,5	3,4	3	DIN 371	3,30	T00032E00400001	●
M5	0,80	70	10,0	24,5	6,0	4,9	3	DIN 371	4,20	T00032E00500001	●
M6	1,00	80	12,0	29,0	6,0	4,9	3	DIN 371	5,00	T00032E00600001	●
M8	1,25	90	14,0	33,0	8,0	6,2	3	DIN 371	6,80	T00032E00800001	●
M10	1,50	100	17,0	39,0	10,0	8,0	3	DIN 371	8,50	T00032E01000001	●
M12	1,75	110	18,0	-	9,0	7,0	4	DIN 376	10,20	T00032E01200001	●
M14	2,00	110	20,5	-	11,0	9,0	4	DIN 376	12,00	T00032E01400001	○
M16	2,00	110	20,5	-	12,0	9,0	4	DIN 376	14,00	T00032E01600001	●
M18	2,50	125	25,5	-	14,0	11,0	4	DIN 376	15,50	T00032E01800001	○
M20	2,50	140	25,5	-	16,0	12,0	4	DIN 376	17,50	T00032E02000001	●
M24	3,00	160	32,0	-	18,0	14,5	4	DIN 376	21,00	T00032E02400001	●
M27	3,00	160	32,0	-	20,0	16,0	5	DIN 376	24,00	T00032E02700001	○
M30	3,50	180	37,0	-	22,0	18,0	5	DIN 376	26,50	T00032E03000001	●
M33	3,50	180	37,0	-	25,0	20,0	5	DIN 376	29,50	T00032E03300001	○
M36	4,00	200	42,0	-	28,0	22,0	5	DIN 376	32,00	T00032E03600001	○
M42	4,50	200	45,0	-	32,0	24,0	5	DIN 376	37,50	T00032E04200001	○

00032	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Threadmax	20-30	15-25	5-15	20-30	10-15	10-15	5-7	25-35	25-35	-	-

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date

# LINEA PERFORMANCE

PERFORMANCE LINE / PERFORMANCE-LINIE / LIGNE PERFORMANCE

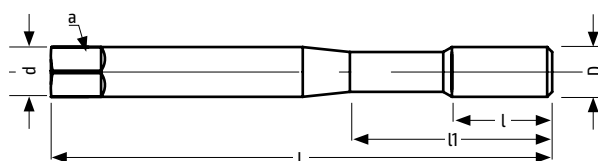
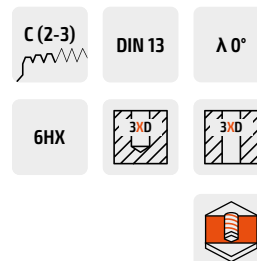
## T00034

Maschi a rullare HSS-PmCo con canali di lubrificazione

HSS-PmCo forming taps with lubrication grooves

HSS-PmCo Maschinengewindeformer mit IK

Tarauts à rouler HSS-PmCo avec goujures de lubrification



D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	THREADMAX	Stock
M2	0,40	45	7,0	11,0	2,8	2,1	3	DIN 2174 (371)	1,85	T00034G00200001	●
M2,5	0,45	50	9,0	15,0	2,8	2,1	3	DIN 2174 (371)	2,30	T00034G00250001	●
M3	0,50	56	10,0	18,0	3,5	2,7	4	DIN 2174 (371)	2,80	T00034G00300001	●
M3,5	0,60	56	11,0	20,0	4,0	3,0	4	DIN 2174 (371)	3,25	T00034G00350001	○
M4	0,70	63	12,0	21,0	4,5	3,4	5	DIN 2174 (371)	3,70	T00034G00400001	●
M5	0,80	70	14,0	24,5	6,0	4,9	5	DIN 2174 (371)	4,65	T00034G00500001	●
M6	1,00	80	16,0	29,0	6,0	4,9	5	DIN 2174 (371)	5,55	T00034G00600001	●
M8	1,25	90	18,0	33,0	8,0	6,2	5	DIN 2174 (371)	7,40	T00034G00800001	●
M10	1,50	100	20,0	36,0	10,0	8,0	5	DIN 2174 (371)	9,30	T00034G01000001	●
M12	1,75	110	24,0	-	9,0	7,0	5	DIN 2174 (376)	11,20	T00034G01200001	●
M14	2,00	110	25,0	-	11,0	9,0	6	DIN 2174 (376)	13,10	T00034G01400001	○
M16	2,00	110	28,0	-	12,0	9,0	6	DIN 2174 (376)	15,10	T00034G01600001	●
M18	2,50	125	28,0	-	14,0	11,0	8	DIN 2174 (376)	16,90	T00034G01800001	○
M20	2,50	140	30,0	-	16,0	12,0	8	DIN 2174 (376)	18,90	T00034G02000001	○

00034	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Threadmax	35-40	30-35	15-20	-	15-20	15-20	-	35-40	40-45	-	5-10

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date



# MASCHI: LINEA STANDARD

TAP STANDARD LINE / GEWINDEBOHRER STANDARD /  
TAURADS STANDARD LIGNE

La linea si compone di **utensili performanti**, progettati per lavorare nelle svariate applicazioni di maschiatura garantendo la più elevata redditività del processo.

Tutta la gamma garantisce **l'elevata qualità del prodotto Silmax**, con un posizionamento di prezzo competitivo nel mercato dei prodotti premium.

**Le geometrie utensile sono state ottimizzate** per assicurare un processo sicuro e versatilità di utilizzo in ogni situazione.

Die Linie besteht aus **leistungsstarken Werkzeugen** die für das **Gewindebohren** in verschiedenen Anwendungsbereichen entwickelt wurden, um die höchste Wirtschaftlichkeit des Prozesses zu gewährleisten.

Die gesamte Produktpalette garantiert **die hohe Qualität des Silmax-Produktes** mit einer wettbewerbsfähigen Preispositionierung auf dem Markt für Premium Produkte.

Die **Werkzeuggeometrien wurden optimiert**, um einen sicheren Prozess und eine vielseitige Anwendung in jeder Situation zu gewährleisten.

The line is made up of **high-performance tools**, designed for machining in the various tapping applications, thus ensuring the highest profitability of process.

The whole range guarantees **the high quality of Silmax products**, with a competitive price positioning in the market of premium products.

**Tool geometries have been optimised** to enable a safe process and versatility of use in all situations.

La ligne est composée d'**outils de haute performance**, conçus pour usiner dans les plus différentes **applications de taraudage**, en assurant la rentabilité la plus élevée du processus.

Toute la gamme garantit **l'haute qualité des produits Silmax**, avec un positionnement de prix concurrentiel sur le marché des produits premium.

**Les géométries des outils ont été optimisées** pour assurer un processus sûr et une polyvalence d'utilisation dans toutes les situations.



## LINEA STANDARD

STANDARD LINE / STANDARD-LINIE/ LIGNE STANDARD

T00021

Maschi a macchina HSSE per fori passanti

Scanalatura diritta, imbocco corretto

HSSE machine taps for through holes

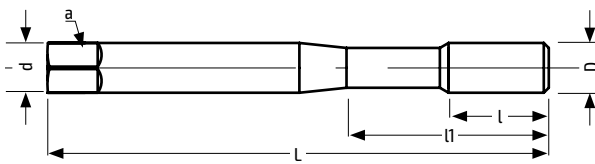
Straight flute, corrected entry

HSS-Maschinengewindebohrer für Durchgangsgewinde

Gerade genutet, Schälanschnitt

Tarauds machine hsse pour trous débouchants

Rainure droite, entrée corrigée



D	P	L js16	l	li	d h9	a h12	z	Norm	Dpr Preforo Drill size	Vaporizzato Vaporized	Balinit® TiN	Stock
M2	0,40	45	7,0	11,0	2,8	2,1	2	DIN 371	1,60	T00021V00200001	T00021T00200001	●
M2,2	0,45	45	8,0	13,0	2,8	2,1	2	DIN 371	1,75	T00021V00220001	T00021T00220001	○
M2,3	0,40	45	8,0	13,0	2,8	2,1	2	DIN 371	1,90	T00021V00230001	T00021T00230001	○
M2,5	0,45	50	9,0	15,0	2,8	2,1	3	DIN 371	2,05	T00021V00250001	T00021T00250001	●
M2,6	0,45	50	9,0	15,0	2,8	2,1	3	DIN 371	2,10	T00021V00260001	T00021T00260001	●
M3	0,50	56	10,0	18,0	3,5	2,7	3	DIN 371	2,50	T00021V00300001	T00021T00300001	●
M3,5	0,60	56	11,0	20,0	4,0	3,0	3	DIN 371	2,90	T00021V00350001	T00021T00350001	○
M4	0,70	63	12,0	21,0	4,5	3,4	3	DIN 371	3,30	T00021V00400001	T00021T00400001	●
M5	0,80	70	14,0	25,0	6,0	4,9	3	DIN 371	4,20	T00021V00500001	T00021T00500001	●
M6	1,00	80	16,0	29,0	6,0	4,9	3	DIN 371	5,00	T00021V00600001	T00021T00600001	●
M7	1,00	80	16,0	29,0	7,0	5,5	3	DIN 371	6,00	T00021V00700001	T00021T00700001	○
M8	1,25	90	18,0	33,0	8,0	6,2	3	DIN 371	6,80	T00021V00800001	T00021T00800001	●
M9	1,25	90	18,0	33,0	9,0	7,0	3	DIN 371	7,80	T00021V00900001	T00021T00900001	○
M10	1,50	100	20,0	36,0	10,0	8,0	3	DIN 371	8,50	T00021V01000001	T00021T01000001	●
M11	1,50	100	22,0	-	8,0	6,2	3	DIN 371	9,50	T00021V01100001	T00021T01100001	○
M12	1,75	110	24,0	-	9,0	7,0	4	DIN 376	10,20	T00021V01200001	T00021T01200001	●
M14	2,00	110	25,0	-	11,0	9,0	4	DIN 376	12,00	T00021V01400001	T00021T01400001	○
M16	2,00	110	28,0	-	12,0	9,0	4	DIN 376	14,00	T00021V01600001	T00021T01600001	●
M18	2,50	125	32,0	-	14,0	11,0	4	DIN 376	15,50	T00021V01800001	T00021T01800001	○
M20	2,50	140	32,0	-	16,0	12,0	4	DIN 376	17,50	T00021V02000001	T00021T02000001	●
M22	2,50	140	32,0	-	18,0	14,5	4	DIN 376	19,50	T00021V02200001	T00021T02200001	○
M24	3,00	160	36,0	-	18,0	14,5	4	DIN 376	21,00	T00021V02400001	T00021T02400001	○
M27	3,00	160	36,0	-	20,0	16,0	4	DIN 376	24,00	T00021V02700001	T00021T02700001	○
M30	3,50	180	40,0	-	22,0	18,0	4	DIN 376	26,50	T00021V03000001	T00021T03000001	○
M33	3,50	180	40,0	-	25,0	20,0	5	DIN 376	29,50	-	T00021T03300001	○
M36	4,00	200	55,0	-	28,0	22,0	5	DIN 376	32,00	-	T00021T03600001	○

00021	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Vapo	15-20	12-15	3-5	15-20	5-7	5-7	2-3	20-25	15-18	-	-
TiN	25-30	20-25	10-15	25-30	10-15	10-15	6-8	30-35	25-30	-	-

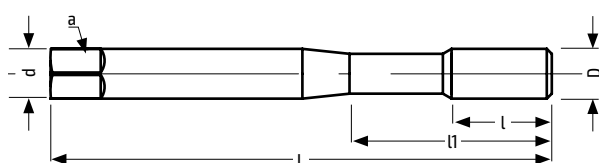
● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date



# T00022

**Maschi a macchina HSSE per fori ciechi. Elica 40°**  
 HSSE machine taps for blind bores. 40° Helix  
 HSS-Maschinengewindebohrer für Grundgewinde. 40° Spirale  
 Tarauds machine HSSE pour trous borgnes. Hélice 40°



D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	Vaporizzato Vaporized	Balinit® TiN	Stock
M2	0,40	45	6,0	12,0	2,8	2,1	3	DIN 371	1,60	T00022V00200001	T00022T00200001	●
M2,5	0,45	50	6,5	15,0	2,8	2,1	3	DIN 371	2,05	T00022V00250001	T00022T00250001	●
M3	0,50	56	7,0	15,0	3,5	2,7	3	DIN 371	2,50	T00022V00300001	T00022T00300001	●
M3,5	0,60	56	8,0	19,0	4,0	3,0	3	DIN 371	2,90	T00022V00350001	T00022T00350001	○
M4	0,70	63	8,5	21,0	4,5	3,4	3	DIN 371	3,30	T00022V00400001	T00022T00400001	●
M5	0,80	70	10,0	25,0	6,0	4,9	3	DIN 371	4,20	T00022V00500001	T00022T00500001	●
M6	1,00	80	12,0	29,0	6,0	4,9	3	DIN 371	5,00	T00022V00600001	T00022T00600001	●
M7	1,00	80	12,0	29,0	7,0	5,5	3	DIN 371	6,00	T00022V00700001	T00022T00700001	○
M8	1,25	90	15,0	33,0	8,0	6,2	3	DIN 371	6,80	T00022V00800001	T00022T00800001	●
M9	1,25	90	15,0	33,0	9,0	7,0	3	DIN 371	7,80	T00022V00900001	T00022T00900001	○
M10	1,50	100	17,5	38,0	10,0	8,0	3	DIN 371	8,50	T00022V01000001	T00022T01000001	●
M11	1,50	100	17,5	-	8,0	6,2	3	DIN 371	9,50	T00022V01100001	T00022T01100001	○
M12	1,75	110	18,0	-	9,0	7,0	4	DIN 376	10,20	T00022V01200001	T00022T01200001	●
M14	2,00	110	20,5	-	11,0	9,0	4	DIN 376	12,00	T00022V01400001	T00022T01400001	○
M16	2,00	110	20,5	-	12,0	9,0	4	DIN 376	14,00	T00022V01600001	T00022T01600001	●
M18	2,50	125	25,5	-	14,0	11,0	4	DIN 376	15,50	T00022V01800001	T00022T01800001	○
M20	2,50	140	29,5	-	16,0	12,0	4	DIN 376	17,50	T00022V02000001	T00022T02000001	●
M22	2,50	140	29,5	-	18,0	14,5	4	DIN 376	19,50	T00022V02200001	T00022T02200001	○
M24	3,00	160	35,5	-	18,0	14,5	4	DIN 376	21,00	T00022V02400001	T00022T02400001	●
M27	3,00	160	37,5	-	20,0	16,0	5	DIN 376	24,00	T00022V02700001	T00022T02700001	○
M30	3,50	180	42,0	-	22,0	18,0	5	DIN 376	26,50	T00022V03000001	T00022T03000001	●
M33	3,50	180	43,5	-	25,0	20,0	5	DIN 376	29,50	T00022V03300001	T00022T03300001	○
M36	4,00	200	47,0	-	28,0	22,0	5	DIN 376	32,00	T00022V03600001	T00022T03600001	○

00022	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Vapo	12-15	10-12	6-8	12-15	6-8	6-8	-	15-18	15-18	-	-
TiN	20-25	15-20	5-10	20-25	8-10	8-10	-	25-30	25-30	-	-

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date

## T00023

Maschi a macchina HSSE per fori ciechi. Elica 15°

HSSE machine taps for blind bores. 15° Helix

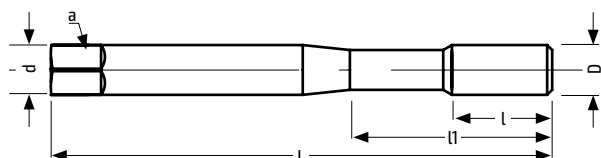
HSS-Maschinengewindebohrer für Grundgewinde. 15° Spirale

Tarauds machine HSSE pour trous borgnes. Hélice 15°



DIN 13

λ 15°

ISO2  
6H

D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	Vaporizzato Vaporized	Balinit® TiN	Stock
M2	0,40	45	7,0	11,0	2,8	2,1	3	DIN 371	1,60	T00023V00200001	T00023T00200001	●
M2,5	0,45	50	9,0	15,0	2,8	2,1	3	DIN 371	2,05	T00023V00250001	T00023T00250001	●
M3	0,50	56	10,0	18,0	3,5	2,7	3	DIN 371	2,50	T00023V00300001	T00023T00300001	●
M3,5	0,60	56	11,0	20,0	4,0	3,0	3	DIN 371	2,90	T00023V00350001	T00023T00350001	○
M4	0,70	63	12,0	21,0	4,5	3,4	3	DIN 371	3,30	T00023V00400001	T00023T00400001	●
M5	0,80	70	14,0	25,0	6,0	4,9	3	DIN 371	4,20	T00023V00500001	T00023T00500001	●
M6	1,00	80	16,0	29,0	6,0	4,9	3	DIN 371	5,00	T00023V00600001	T00023T00600001	●
M7	1,00	80	16,0	29,0	7,0	5,5	3	DIN 371	6,00	T00023V00700001	T00023T00700001	○
M8	1,25	90	18,0	33,0	8,0	6,2	3	DIN 371	6,80	T00023V00800001	T00023T00800001	●
M9	1,25	90	18,0	33,0	9,0	7,0	3	DIN 371	7,80	T00023V00900001	T00023T00900001	○
M10	1,50	100	20,0	36,0	10,0	8,0	3	DIN 371	8,50	T00023V01000001	T00023T01000001	●
M12	1,75	110	24,0	-	9,0	7,0	3	DIN 376	10,20	T00023V01200001	T00023T01200001	●
M14	2,00	110	25,0	-	11,0	9,0	3	DIN 376	12,00	T00023V01400001	T00023T01400001	○
M16	2,00	110	28,0	-	12,0	9,0	3	DIN 376	14,00	T00023V01600001	T00023T01600001	●
M18	2,50	125	32,0	-	14,0	11,0	3	DIN 376	15,50	T00023V01800001	T00023T01800001	○
M20	2,50	140	32,0	-	16,0	12,0	4	DIN 376	17,50	T00023V02000001	T00023T02000001	●
M22	2,50	140	32,0	-	18,0	14,5	4	DIN 376	19,50	T00023V02200001	T00023T02200001	○
M24	3,00	160	36,0	-	18,0	14,5	4	DIN 376	21,00	T00023V02400001	T00023T02400001	○
M27	3,00	160	36,0	-	20,0	16,0	4	DIN 376	24,00	T00023V02700001	T00023T02700001	○
M30	3,50	180	40,0	-	22,0	18,0	4	DIN 376	26,50	T00023V03000001	T00023T03000001	○
M33	3,50	180	40,0	-	25,0	20,0	5	DIN 376	29,50	T00023V03300001	T00023T03300001	○

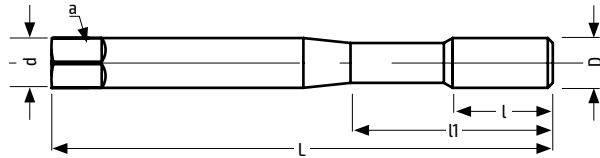
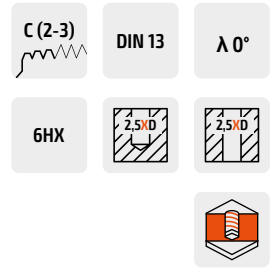
00023	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Vapo	12-15	10-12	-	12-15	-	-	-	15-18	12-15	-	-
TiN	20-25	15-20	5-10	20-25	-	-	-	25-30	20-25	-	-

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date

# T00024

**Maschi a rullare HSSE con canalini di lubrificazione**  
HSSE forming taps with lubrication grooves  
HSS-Maschinengewindeformer mit IK  
Tarauds à rouler HSSE avec goujures de lubrification



D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	Balinit® TiN	Stock
M2	0,40	45	7,0	11,0	2,8	2,1	3	DIN 371	1,85	T00024T00200001	●
M2,5	0,45	50	9,0	15,0	2,8	2,1	3	DIN 371	2,30	T00024T00250001	●
M3	0,50	56	10,0	18,0	3,5	2,7	4	DIN 371	2,80	T00024T00300001	●
M3,5	0,60	56	11,0	20,0	4,0	3,0	4	DIN 371	3,25	T00024T00350001	○
M4	0,70	63	12,0	21,0	4,5	3,4	5	DIN 371	3,70	T00024T00400001	●
M5	0,80	70	14,0	25,0	6,0	4,9	5	DIN 371	4,65	T00024T00500001	●
M6	1,00	80	16,0	29,0	6,0	4,9	5	DIN 371	5,55	T00024T00600001	●
M8	1,25	90	18,0	33,0	8,0	6,2	5	DIN 371	7,40	T00024T00800001	●
M10	1,50	100	20,0	36,0	10,0	8,0	5	DIN 371	9,30	T00024T01000001	●
M12	1,75	110	24,0	-	9,0	7,0	5	DIN 376	11,20	T00024T01200001	●
M14	2,00	110	25,0	-	11,0	9,0	6	DIN 376	13,10	T00024T01400001	○
M16	2,00	110	28,0	-	12,0	9,0	6	DIN 376	15,10	T00024T01600001	●
M18	2,50	125	28,0	-	14,0	11,0	8	DIN 376	16,90	T00024T01800001	○
M20	2,50	140	30,0	-	16,0	12,0	8	DIN 376	18,90	T00024T02000001	○

00024	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
TiN	35-40	-	-	-	15-20	15-20	-	35-40	40-45	-	-

● Disponibilità pronta consegna Available for prompt delivery

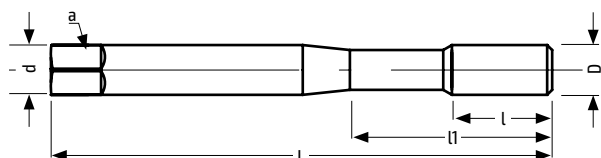
○ Consegna 5 giorni data ordine Delivery 5 days order date

## T00025

Maschi a macchina HSS-E per fori ciechi. Elica 40°, rastremati

HSS-E machine taps for blind holes. 40° Helix, tapered  
HSS-Maschinengewindebohrer für Grundgewinde. 40° Spirale, verstärkt  
Tarauds machine HSS-E pour trous borgnes. Hélice 40°, conique

λ 40°

ISO  
228ISO  
5969

D	P Sp/1	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	Vaporizzato Vaporized	Balinit® TiN	Stock
1/8"	28	90	17,0	-	7,0	5,5	3	DIN 5156	8,80	T00025V01800001	T00025T01800001	●
1/4"	19	100	23,0	-	11,0	9,0	4	DIN 5156	11,80	T00025V01400001	T00025T01400001	○
3/8"	19	100	23,0	-	12,0	9,0	4	DIN 5156	15,25	T00025V03800001	T00025T03800001	○
1/2"	14	125	29,0	-	16,0	12,0	5	DIN 5156	19,00	T00025V01200001	T00025T01200001	●
5/8"	14	125	29,0	-	18,0	14,5	5	DIN 5156	21,00	T00025V05800001	T00025T05800001	●
3/4"	14	140	29,0	-	20,0	16,0	5	DIN 5156	24,50	T00025V03400001	T00025T03400001	○
7/8"	14	150	32,0	-	22,0	18,0	5	DIN 5156	28,25	T00025V07800001	T00025T07800001	●
1"	11	160	34,5	-	25,0	20,0	5	DIN 5156	30,75	T00025V01000001	T00025T01000001	●
1 1/8"	11	170	34,5	-	28,0	22,0	5	DIN 5156	35,50	T00025V01180001	-	●
1 1/4"	11	170	34,5	-	32,0	24,0	5	DIN 5156	39,50	T00025V01140001	-	○
1 1/2"	11	190	37,5	-	36,0	29,0	6	DIN 5156	42,25	T00025V01120001	-	●

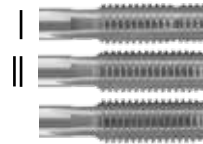
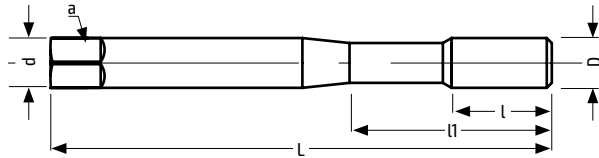
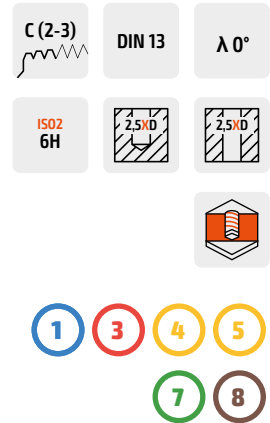
00025	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	Vc [m/min]										
Vapo	12-15	10-12	6-8	12-15	6-8	6-8	-	15-18	15-18	-	-
TiN	20-25	15-20	5-10	20-25	8-10	8-10	-	25-30	25-30	-	-

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date

# T00010

**Maschi a mano HSSE per fori ciechi e passanti**  
**Scanalatura diritta, per materiali tenaci**  
**HSSE hand taps for blind and through holes**  
 Straight flute for tough materials  
**HSSE-Handgewindebohrer für Sack- und Durchgangslöcher**  
 Gerade genutet, für zähe Materialien  
**Tarauds à main HSSE pour trous borgnes et débouchants**  
 Rainure droite pour matériaux résistants



D	P	L js16	l	l1	d h9	a h12	z	Norm	Dpr Preforo Drill size	Uncoated	Stock
M2	0,4	36	7,5	13	2,8	2,1	3	DIN352	1,6	T00010U00200001	○
M3	0,5	40	10	18	3,5	2,7	3	DIN352	2,5	T00010U00300001	●
M4	0,7	45	12	21	4,5	3,4	3	DIN352	3,3	T00010U00400001	●
M5	0,8	50	14	24	6	4,9	3	DIN352	4,2	T00010U00500001	●
M6	1	56	16	28	6	4,9	3	DIN352	5	T00010U00600001	●
M8	1,25	63	22	-	6	4,9	4	DIN352	6,8	T00010U00800001	●
M10	1,5	70	24	-	7	5,5	4	DIN352	8,5	T00010U01000001	●
M12	1,75	75	28	-	9	7	4	DIN352	10,2	T00010U01200001	●
M14	2	80	30	-	11	9	4	DIN352	12	T00010U01400001	○
M16	2	80	32	-	12	9	4	DIN352	14	T00010U01600001	○
M18	2,5	95	34	-	14	11	4	DIN352	15,5	T00010U01800001	○
M20	2,5	95	34	-	16	12	4	DIN352	17,5	T00010U02000001	○

00010	Acciaio Steel <800N/mm <sup>2</sup>	Acciaio Steel <1000N/mm <sup>2</sup>	Acciaio Steel <1300N/mm <sup>2</sup>	Ghisa Cast Iron	Inox Ferritico Ferritic Stainless Steel	Inox Austenitico Austenitic Stainless Steel	PH-Duplex	Alluminio Aluminium	Rame Copper	Titanio Titanium	Superleghe Superalloys
	•	•	•	•	•	•	•	•	•	-	-

● Disponibilità pronta consegna Available for prompt delivery

○ Consegna 5 giorni data ordine Delivery 5 days order date

# Notes

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## SIL SERVICE



### 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, Bohrer 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'alésaires 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 collaudo effettuato su strumenti di controllo di alta precisione Zoller Genius e Walter Helicheck con emissione di certificato su richiesta.

### 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.

### 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.

### 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.



### 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.

### 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.

### 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.

### 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.



### 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.

### 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.

### 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.

### 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.



### Consegna rapida

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

### Fast delivery

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

### Schnelle Lieferung

Schnelle Lieferung innerhalb von 10 Werktagen ab Empfang der Werkzeuge.

### Livraison rapide

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



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05/2023

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