

>> VHM-MASCHINENGEWINDE-BOHRER MIT INNENKÜHLUNG, GERADE GENUTET, FÜR METRISCHES ISO-GEWINDE DIN 13

Einsatzbereich:

Maschinengewindebohrer für Durchgangsgewinde. Besonders geeignet für hochlegierte und hochfeste Stähle < 62 HRC, Aluminium-Legierungen (kurzspanend, AISi > 10%), Messing, Grauguss, Sphäroguss und Temperguss.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, STRAIGHT FLUTED, FOR METRIC ISO-THREADS DIN 13


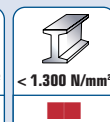
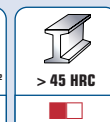
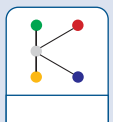
Range of application:

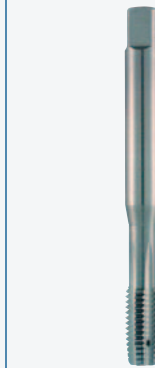
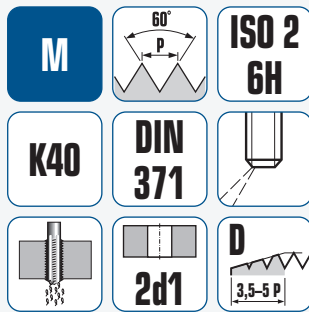
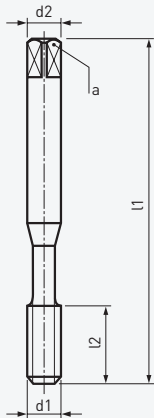
Machine taps for through hole threads. Especially suitable for high-alloyed steels and steels with high tensile strength < 62 HRC, aluminium alloys (short chipping, AISi > 10%), brass, grey cast iron, spheroidal graphite and malleable cast iron.

MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE DIRITTE, PER FILETTATURA METRICA ISO, DIN 13

Impiego:

Maschi a macchina per fori passanti, particolarmente adatti per acciai altamente legati e ad alta resistenza < 62 HRC, leghe alluminio (a truciolo corto AISi > 10%), ottone, ghisa grigia, ghisa sferoidale e ghisa malleabile.


 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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HYPERLOX™

d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{H12} mm		Code 4785 Art.-Nr.	€	Code 4787 Art.-Nr.	€
M 6	1	80	16	6	4,9	Ø 5,0 mm	0 4785006001 00	174,40	0 4787006001 00	225,90
M 8	1,25	90	18	8	6,2	Ø 6,8 mm	0 4785008001 00	211,60	0 4787008001 00	274,50
M 10	1,5	100	20	10	8	Ø 8,5 mm	0 4785010001 00	277,40	0 4787010001 00	367,10

Leistungsmerkmale HYPERLOX™:

HD (heavy duty) Supernitrid, insbesondere für die Hartbearbeitung und Bearbeitung von schwer zerspanbaren Werkstoffen

- ▶ feinste Schichtstruktur: extreme Zähigkeit bei sehr hoher Härte
- ▶ höchste Oxidationsbeständigkeit und Warmhärte
- ▶ extrem gute Haftung, d.h. besonders geeignet bei extremen Scherkräften, z.B. bei der Bearbeitung von „schmierend“ schwer-zerspanbaren Werkstoffen.
- ▶ trocken und nass einsetzbar bei „höchster Produktivität“
- ▶ extrem glatte Oberfläche

Performance Characteristics HYPERLOX™:

Supernitride especially suited for tapping of hardened steel

- ▶ fine grained coating architecture: very high toughness at very high hardness
- ▶ high oxidation resistance and red hardness
- ▶ high thermal stability
- ▶ extremely high adhesion, well suited for strong shear forces, e.g. for machining materials with “lubricating” and difficult cutting properties
- ▶ applicable for dry and wet machining at „highest productivity“
- ▶ extremely smooth surface for “frictionless” chip removal in the flute
- ▶ high performance coating (surface quality)

Prestazioni caratteristiche HYPERLOX™:

Supernitride HD (Heavy Duty), particolarmente adatto per lavorazioni impegnative e di materiali di difficile lavorabilità

- ▶ fine struttura del rivestimento: con grande resistenza ed elevata durezza
- ▶ elevata resistenza all'ossidazione e ad alte temperature
- ▶ elevata adesione: particolarmente adatto in presenza di forze divergenti ad es. di materiali “autoingrassanti” di difficile lavorabilità
- ▶ impiego sia a secco che con lubrificazione: elevata produttività
- ▶ superficie estremamente liscia



>> VHM-MASCHINGEWINDE-BOHRER MIT INNENKÜHLUNG, GERADE GENUTET, FÜR METRISCHES ISO-GEWINDE DIN 13

Einsatzbereich:

Maschinengewindebohrer für Durchgangsgewinde. Besonders geeignet für hochlegierte und hochfeste Stähle < 62 HRC, Aluminium-Legierungen (kurzspanend, AISi > 10%), Messing, Grauguss, Sphäroguss und Temperguss.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, STRAIGHT FLUTED, FOR METRIC ISO-THREADS DIN 13







Range of application:

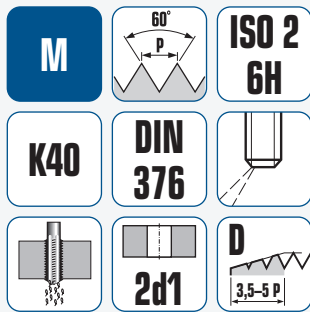
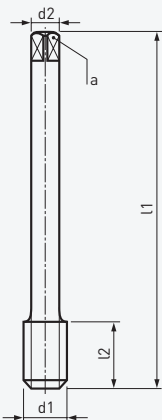
Machine taps for through hole threads. Especially suitable for high-alloyed steels and steels with high tensile strength < 62 HRC, aluminium alloys (short chipping, AISi > 10%), brass, grey cast iron, spheroidal graphite and malleable cast iron.

MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE DIRITTE, PER FILETTATURA METRICA ISO, DIN 13

Impiego:

Maschi a macchina per fori passanti, particolarmente adatti per acciai altamente legati e ad alta resistenza < 62 HRC, leghe alluminio (a truciolo corto AISi > 10%), ottone, ghisa grigia, ghisa sferoidale e ghisa malleabile.


 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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HYPERLOX™

d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{K12} mm		Code 4785 Art.-Nr.	€	Code 4787 Art.-Nr.	€
M 12	1,75	110	22	9	7	Ø 10,2 mm	0 4785012001 00	391,70	0 4787012001 00	529,00
M 16	2	110	28	12	9	Ø 14,0 mm	0 4785016001 00	614,70	0 4787016001 00	829,10

Leistungsmerkmale HYPERLOX™:

HD (heavy duty) Supernitrid, insbesondere für die Hartbearbeitung und Bearbeitung von schwer zerspanbaren Werkstoffen

- ▶ feinste Schichtstruktur: extreme Zähigkeit bei sehr hoher Härte
- ▶ höchste Oxidationsbeständigkeit und Warmhärte
- ▶ extrem gute Haftung, d.h. besonders geeignet bei extremen Scherkräften, z.B. bei der Bearbeitung von „schmierend“ schwer-zerspanbaren Werkstoffen.
- ▶ trocken und nass einsetzbar bei „höchster Produktivität“
- ▶ extrem glatte Oberfläche

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- ▶ fine grained coating architecture: very high toughness at very high hardness
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- ▶ elevata resistenza all'ossidazione e ad alte temperature
- ▶ elevata adesione: particolarmente adatto in presenza di forze divergenti ad es. di materiali "autoingrassanti" di difficile lavorabilità
- ▶ impiego sia a secco che con lubrificazione: elevata produttività
- ▶ superficie estremamente liscia



>> VHM-MASCHINENGEWINDE-BOHRER MIT INNENKÜHLUNG, GERADE GENUTET, FÜR METRISCHES ISO-GEWINDE DIN 13

Einsatzbereich:

Maschinengewindebohrer für Grundgewinde. Besonders geeignet für hochlegierte und hochfeste Stähle < 62 HRC, Aluminium-Legierungen (kurzspanend, AISi > 10%), Messing, Grauguss, Sphäroguss und Temperguss.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, STRAIGHT FLUTED, FOR METRIC ISO-THREADS DIN 13



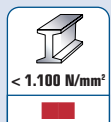
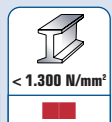
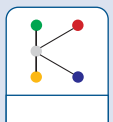
Range of application:

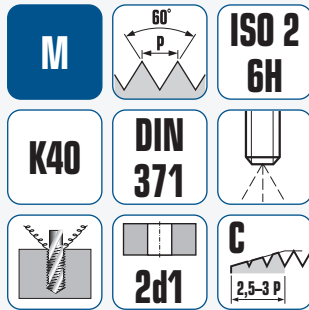
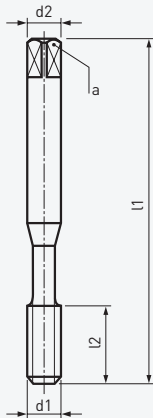
Machine taps for blind hole threads. Especially suitable for high-alloyed steels and steels with high tensile strength < 62 HRC, aluminium alloys (short chipping, AISi > 10%), brass, grey cast iron, spheroidal graphite and malleable cast iron.

MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE DIRITTE, PER FILETTATURA METRICA ISO, DIN 13

Impiego:

Maschi a macchina per fori ciechi, particolarmente adatti per acciai altamente legati e ad alta resistenza < 62 HRC, leghe alluminio (a truciolo corto AISi > 10%), ottone, ghisa grigia, ghisa sferoidale e ghisa malleabile.


 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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HYPERLOX™

d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{h12} mm		Code 4775 Art.-Nr.	€	Code 4777 Art.-Nr.	€
M 3	0,5	56	10	3,5	2,7	Ø 2,5 mm	0 4775003001 00	111,50	0 4777003001 00	140,10
M 4	0,7	63	12	4,5	3,4	Ø 3,3 mm	0 4775004001 00	111,50	0 4777004001 00	140,10
M 5	0,8	70	14	6	4,9	Ø 4,2 mm	0 4775005001 00	145,90	0 4777005001 00	188,70
M 6	1	80	16	6	4,9	Ø 5,0 mm	0 4775006001 00	145,90	0 4777006001 00	188,70
M 8	1,25	90	18	8	6,2	Ø 6,8 mm	0 4775008001 00	183,00	0 4777008001 00	237,30
M 10	1,5	100	20	10	8	Ø 8,5 mm	0 4775010001 00	251,60	0 4777010001 00	328,80

Innenkühlung ab ≥ M 6 | Internal coolant supply beginning ≥ M 6 | Con fori di lubrificazione da ≥ M 6



>> VHM-MASCHINGEWINDE-BOHRER MIT INNENKÜHLUNG, GERADE GENUTET, FÜR METRISCHES ISO-GEWINDE DIN 13

Einsatzbereich:

Maschinengewindebohrer für Grundgewinde. Besonders geeignet für hochlegierte und hochfeste Stähle < 62 HRC, Aluminium-Legierungen (kurzspanend, AISi > 10%), Messing, Grauguss, Sphäroguss und Temperguss.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, STRAIGHT FLUTED, FOR METRIC ISO-THREADS DIN 13







Range of application:

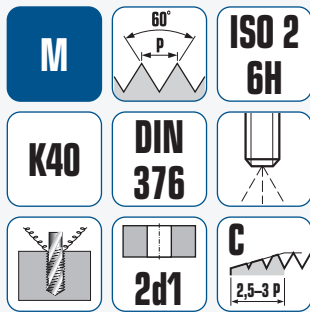
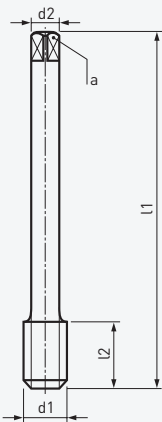
Machine taps for blind hole threads. Especially suitable for high-alloyed steels and steels with high tensile strength < 62 HRC, aluminium alloys (short chipping, AISi > 10%), brass, grey cast iron, spheroidal graphite and malleable cast iron.

MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE DIRITTE, PER FILETTATURA METRICA ISO, DIN 13

Impiego:

Maschi a macchina per fori ciechi, particolarmente adatti per acciai altamente legati e ad alta resistenza < 62 HRC, leghe alluminio (a truciolo corto AISi > 10%), ottone, ghisa grigia, ghisa sferoidale e ghisa malleabile.


 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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HYPERLOX™

d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{K12} mm		Code 4775 Art.-Nr.	€	Code 4777 Art.-Nr.	€
M 12	1,75	110	22	9	7	Ø 10,2 mm	0 4775012001 00	357,40	0 4777012001 00	483,20
M 16	2	110	28	12	9	Ø 14,0 mm	0 4775016001 00	560,40	0 4777016001 00	757,70



>> VHM-MASCHINGEWINDE-BOHRER MIT INNENKÜHLUNG, SPIRAL-GENUTET, FÜR METRISCHES ISO-GEWINDE DIN 13

Einsatzbereich:

Universal-Maschinengewindebohrer für Grundgewinde. Besonders geeignet für Baustähle, Einsatzstähle, Vergütungsstähle sowie rost- und säurebeständige Stähle.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, SPIRAL FLUTED, FOR METRIC ISO-THREADS DIN 13


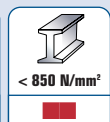
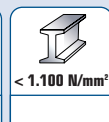
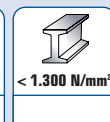
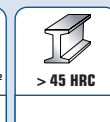
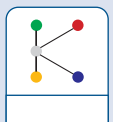
Range of application:

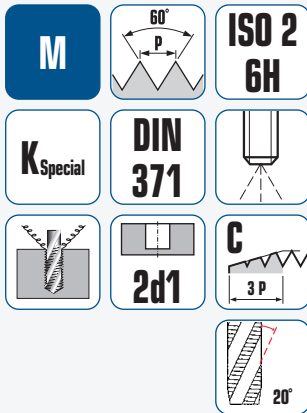
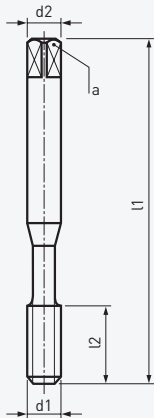
Universal machine taps for blind hole threads. Especially suitable for structural steels, case hardening steels, heat treatable steels as well as stainless and acid-resistant steels.

MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE ELICOIDALI, PER FILETTATURA METRICA ISO, DIN 13


Impiego:

Maschi a macchina impiego generale per fori ciechi, particolarmente adatti per acciai da costruzione, acciai bonificati, acciai inossidabili, acciai resistenti agli acidi.

 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{h12} mm		Code 4792 Art.-Nr.	€
M 6	1	80	16	6	4,9	Ø 5,0 mm	0 4792006001 00	154,40
M 8	1,25	90	18	8	6,2	Ø 6,8 mm	0 4792008001 00	205,90
M 10	1,5	100	20	10	8	Ø 8,5 mm	0 4792010001 00	280,20



>> VHM-MASCHINENGEWINDE-BOHRER MIT INNENKÜHLUNG, SPIRAL-GENUTET, FÜR METRISCHES ISO-GEWINDE DIN 13

Einsatzbereich:

Universal-Maschinengewindebohrer für Grundgewinde. Besonders geeignet für Baustähle, Einsatzstähle, Vergütungsstähle sowie rost- und säurebeständige Stähle.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, SPIRAL FLUTED, FOR METRIC ISO-THREADS DIN 13







Range of application:

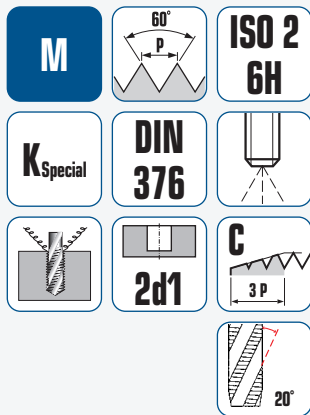
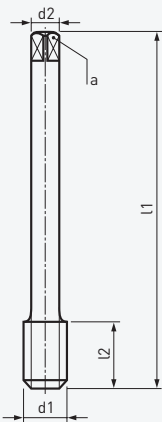
Universal machine taps for blind hole threads. Especially suitable for structural steels, case hardening steels, heat treatable steels as well as stainless and acid-resistant steels.

MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE ELICOIDALI, PER FILETTATURA METRICA ISO, DIN 13


Impiego:

Maschi a macchina impiego generale per fori ciechi, particolarmente adatti per acciai da costruzione, acciai bonificati, acciai inossidabili, acciai resistenti agli acidi.

 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{K12} mm		Code 4792 Art.-Nr.	€
M 12	1,75	110	22	9	7	∅ 10,2 mm	0 4792012001 00	394,60
M 16	2	110	28	12	9	∅ 14,0 mm	0 4792016001 00	646,20



>> VHM-MASCHINENGEWINDE-BOHRER MIT INNENKÜHLUNG, GERADE GENUTET, FÜR METR. ISO-FEINGEWINDE DIN 13

Einsatzbereich:

Maschinengewindebohrer für Grundgewinde. Besonders geeignet für hochlegierte und hochfeste Stähle < 62 HRC, Aluminium-Legierungen (kurzspanend, AISi > 10%), Messing, Grauguss, Sphäroguss und Temperguss.

SOLID CARBIDE TAPS WITH INTERNAL COOLANT SUPPLY, STRAIGHT FLUTED, FOR METR. ISO FINE THREADS DIN 13


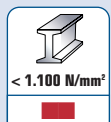
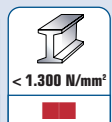
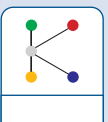
Range of application:

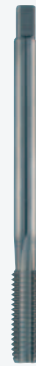
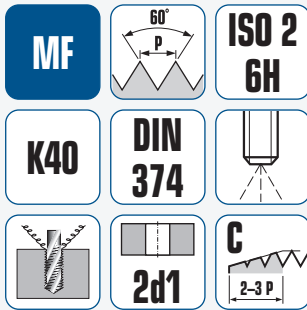
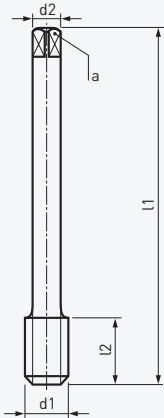
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MASCHI MDI CON FORI DI LUBRIFICAZIONE, SCANALATURE DIRITTE, PER FILETTATURA METRICA ISO FINE, DIN 13

Impiego:

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 < 400 N/mm ²	 < 850 N/mm ²	 < 1.100 N/mm ²	 < 1.300 N/mm ²	 > 45 HRC	INOX < 850 N/mm ²	INOX > 850 N/mm ²	GRAUGUSS CAST IRON GHISA GRIGIA	Ti	Cu, Ms	Al	
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HYPERLOX™

d1 mm	P mm	l1 mm	l2 mm	d2 mm	a _{h12} mm		Code 4755 Art.-Nr.	€	Code 4757 Art.-Nr.	€
MF 8	1	90	16	6	4,9	Ø 7,0 mm	0 4755008001 00	240,20	0 4757008001 00	326,00
MF 10	1	90	16	7	5,5	Ø 9,0 mm	0 4755010001 00	300,20	0 4757010001 00	406,00
MF 12	1,5	100	22	9	7	Ø 10,5 mm	0 4755012001 00	388,80	0 4757012001 00	526,10

