



NEUWERK

02 PRODUKTKATALOG

Ein wundervolles Gebiet



UNSER UNTERNEHMEN OUR COMPANY

Unser junges Unternehmen produziert und vertreibt Werkzeuge für Gewindeschneiden, für den Export in Europäische und Asiatische Länder ganz bestimmt.

Programm enthalten, um die maximale Konzentration Von Technik und Wirtschaft des Produkts haben. Starke Neigung der speziellen Wunsch des Kunden.

Dynamik und Kompetenz : sind unsere Features mehr zu unseren internationalen Kunden aufgebaut.

We are a young Company manufacturing and trading tools for threading, totally focused and orientated to the export in European and Asian countries.

Our dedicated range is meant to have the Maximum concentration of technology and economy of the product. Strongly Equipped to the special request customer.

Dynamism and competence are our features more appreciated from our International Customers.



Liebe Kunden,

Wir freuen uns, Ihnen unseren neuen Katalog vorstellen zu können, der ab Januar 2020 gültig sein wird.

Sie werden sicherlich bemerken dass unser Gewindebohrer Assortiment viel breiter geworden ist und durch der Einsatz von neue Geometrie von Produkte. Wir sind zuversichtlich, dass Sie unsere neuen Produkte ausprobieren möchten, gefolgt von Ihren Einkäufen.

Aufmerksamkeit in der Produktionsphase, Dienstleistungen vorgeschlagen und das günstig Preis-Leistungs-Verhältnis stellen sicher, dass das Produkt Neuwerk am Markt behaupten kann.

Wir danken Ihnen für Ihre Präferenz!

Dear Customers,

We are proud to introduce our new Catalogue N2, valid from January 2020. As you may notice, the production has grown, and it brought new family taps, in order to achieve better processing. We are sure that the products provided by our company will suit your needs.

The attention in producing the taps, combined with the service we provide and the beneficial connection between quality and price, are allowing our product Neuwerk to succeed and grow over time.

Thank you for choosing us!



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UNSERE SONDERSTAEHLE, HOHE LEISTUNG, FUER DIE HERSTELLUNG UNSERE GEWINDEBOHRER.

OUR SPECIAL HIGH PERFORMING STEELS PRESENTED AS BELOW.

- **HSSE und HSSV3:** Stähle, 5% Kobalt, oder 3% Vanadium zum Gewinden von Materialien bis $R < 1000 \text{ N/mm}^2$
- **HSSE-Co:** Stahl mit 8% Kobalt für hohe Temperaturen entwickelt
- **HSSE/PM:** Legierte Pulver, Sinter, für Materialien mit $R < 1400 \text{ N/mm}^2$
- **HSSE end HSSV3:** Steels with 5% Cobalt or 3% Vanadium suitable to machine material $R < 1000 \text{ N/mm}^2$
- **HSSE-Co:** Steels with 8% Cobalt suitable to machine high resistance steels
- **HSSE/PM:** Steels suitable to machine material $R < 1400 \text{ N/mm}^2$

UNSERE OBERFLÄCHEN UND BESCHICHTUNGEN: OUR TREATMENT AND COATING BY ITS COLORS:

• VA	= Vaporisiert / steam tempered	Schwarz / black
• T	= Titannitrid beschichtet / titanium nitride coated	Gold-Gelb / golden
• TL	= Titan-Aluminium-Nitrid / Titanium aluminium nitride	Violett-Grau / violet grey
• TN	= Titancarbonitrid / TN	Blau-Grau / bluish grey
• TW	= TiN+WC/C / TiN+WC/C	Dunkel-Grau / dark grey
• T8	= Sonder TiN / Special TiN	Gold Gelb / golden
• TLW	= TL+WC/C / TL+WC/C	Dunkel-Grau / dark grey

Die Technische Angaben und Informationen können von uns ohne vorherige Ankündigung geändert werden. Die Zeichnungen sind unverbindlich.

Technical features and information in this catalogue are subjected to change without prior notice.

Drawings are indicatives and not binding.

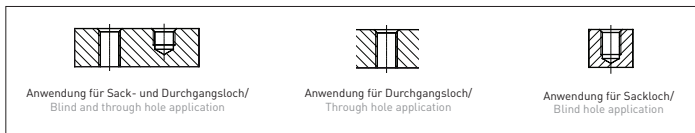


Warnung: Die Gewindebohrer koennten, während der Benutzung, gechipt werden und daher wird empfohlen, die Verwendung von Brillen oder Schutzschild während des Gewindeschneidens, manuell oder automatisch.

Warning: taps may splint during applications and cause danger; protective glasses or shield to be recommended during usage and application, manual or automatic.

EINSATZGEBIET

APPLICATION TABLE



Seitenzahl
Page number

Bezeichnung/ Description
Lochform/ Hole Type
Bestell - Nr. / Cat. No.
DIN
Nutart / Notiz / Flute Tipe / Notes
M
MF
UNC
UNF
G
8UN
JIS
Schaelanschnitt / Chamfer
Materialen / Tap'steel
Beschichtung / Coating
Gewindetiefe / Thread dept

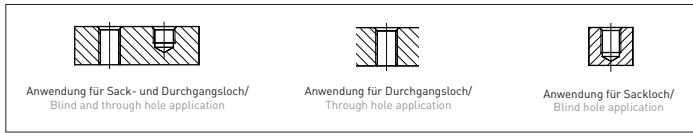
- Empfohlene Verwendung - Schnittgeschwindigkeit m/min
- Recommended Use - cutting speed m/min
- Akzeptable Verwendung - Schnittgeschwindigkeit m/min
- Acceptable Use - cutting speed m/min

1. Stahlwerkstoffe Steel	1.1	Baustahl unleg./ Weicheisen	Magnetic soft steel	HB < 120	Rm N/mm² < 400
	1.2	Baustahl /Einsatzstahl	Structural, case carburizing and free cutting steel	< 200	< 700
	1.3	Bau-/Kohlenstoffstahl / Stahl niedrigleg	Plain carbon steel	< 250	< 850
	1.4	Kohlenstoffstahl / Stahl niedrigleg	Alloyed steel - Tempered steel, steel casTgs	< 250	< 850
	1.5	Stahl legiert /hochlegiert	Alloyed steel - Tempered steel	250 ÷ 350	850 ÷ 1200
	1.6	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	38 ÷ 45 HRC	1200 ÷ 1400
	1.7	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	45 ÷ 49 HRC	1400 ÷ 1600
	1.8	Stahl gehartet	Hardened steel	49 ÷ 62 HRC	
2. Rostfreier Stahl Stainless Steel	2.1	Rostfreier Stahl	Free machining stainless steel	< 250	< 850
	2.2	Stahl austenitisch, ferritisch	Austenitic	< 250	< 850
	2.3	Stahl martensitisch	Ferritic, Ferritic + Austenitic, Martensitic	< 320	< 1100
	2.4	Stahl austenitisch, ferritisch	Cr-Ni alloys high temperatures resistant	330 ÷ 410	1100 ÷ 1400
3. Gusseisen Cast iron	3.1	Grauguss-lamellar	Lamellar grey cast iron	< 180	< 600
	3.3	Kugelgraphitguss	Lamellar grey cast iron	330 ÷ 410	600 ÷ 1000
	3.4	Temperguss weiB/Schwarz	Malleable cast iron	< 300	< 1000
	3.5	Vermihulargusse/ADI/Hartguss	Compacted cast iron with vermicular graphite	< 210	700 ÷ 1000
4. Aluminium / Magnesium Al, Mg	4.1	Aluminium/magnesium	Aluminium / Magnesium unalloyed	< 100	< 350
	4.2	Aluminium Si-Gehalt < 0,5%	Al alloys, Si < 0,5% - Long chipping	< 150	< 500
	4.3	Aluminium Si-Gehalt <10%	Al alloys, Si < 10% - Medium chipping	< 150	< 500
	4.4	Aluminium Si-Gehalt >10%	Al alloys, Si > 10% - Short chipping	< 180	< 600
	4.5	Magnesium und Magnesiumlegierungen	Magnesium standard alloys		120 ÷ 300
	4.6	Magnesiumlegierungen	High strength magnesium alloys	70 ÷ 120	240 ÷ 400
5. Kupfer Cooper	5.1	Kupfer	Cooper unalloyed - Long chipping	< 100	< 350
	5.2	Kupfer (langspanend)	Cooper alloys, soft brass - Long chipping	< 200	< 700
	5.3	Kupfer (kurzspanend)	Cooper alloys, hard brass, bronze - Short chipping	< 200	< 700
	5.4	Bronze hohe Festigkeit	High strength bronze	< 440	< 1500
6. Titan Titanium	6.1	Titan unlegiert	Titanium unalloyed	< 200	< 700
	6.2	Titan legiert	Titanium alloys	< 270	< 900
	6.3	Titan legiert	Titanium alloys	< 410	< 1400
7. Nickel Nickel	7.1	Nickel unlegiert	Nickel unalloyed	< 150	< 500
	7.2	Nickel legiert	Nickel alloys	< 270	< 900
	7.3	Nickel legiert	Nickel alloys	< 470	< 1600
8. Kunststoffe Synthetic Material	8.1	Thermoplaste	Thermoplastics - Extra long chipping		< 80
	8.2	Duroplaste (kurzspanend)	ThermosetTg plastics - Short chipping		< 110
	8.3	Faserverstärkte Kunststoffe	Reinforced plastic materials	240 ÷ 440	800 ÷ 1500
9. Sonderwerkstoffe Special materials	9.1	Keramikmaterialen	TIC - Hard materialsM< 51 HRC	< 1700	
	9.2	Kobalt Legierungen	Alloys on cobalt base	< 350	< 1200
	9.3	Wolfram Legierungen	Tungsten alloys	< 52 HRC	< 1800
10. Graphit / Graphite	10.1	Graphit	Graphite		< 100

	Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13		Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13	Metrisches ISO - Feingewinde DIN 13 / ISO Metric fine thread DIN 13			Rohrgewinde DIN EN ISO 228/British standard pipe thread DIN EN ISO 228	Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13		
										
	620TNM	621TLM	621TLKKM	620TNMF	621TLMF	621TLKKMF	720TNG	420VAM	420TM	420VAM
										
	371/376	371/376	371/376	374	374	374	2189	371	371	376
	9	10	10					11	11	12
				49	50	50				
							101			
	C/2-3							B/4-5		
	HSSE	HSSE/PM	HSSE/PM	HSSE	HSSE/PM	HSSE/PM	HSSE	HSSE	HSSE	HSSE
	TiCN	TL	TL	TiCN	TL	TL	TiCN	VA	T	VA
	3xD		3,5xD	3xD		3,5xD	3xD	3xD		
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4.6	● 20-30			● 20-30			● 20-30			
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6.3										
7.1								● 6-8		● 6-8
7.2										
7.3										
8.1										
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8.3										
9.1										
9.2										
9.3										
10.1	● 15-20		● 15-20	● 15-20		● 15-20	● 15-20			

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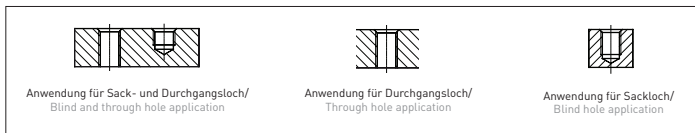
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	1.4	Kohlenstoffstahl / Stahl niedrigleg	Alloyed steel - Tempered steel, steel casTgs	< 250	< 850
	1.5	Stahl legiert /hochlegiert	Alloyed steel - Tempered steel	250 ÷ 350	850 ÷ 1200
	1.6	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	38 ÷ 45 HRC	1200 ÷ 1400
	1.7	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	45 ÷ 49 HRC	1400 ÷ 1600
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	2.2	Stahl austenitisch, ferritisch	Austenitic	< 250	< 850
	2.3	Stahl martensitisch	Ferritic, Ferritic + Austenitic, Martensitic	< 320	< 1100
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	3.4	Temperguss weiB/Schwarz	Malleable cast iron	< 300	< 1000
	3.5	Vermihulargusse/ADI/Hartguss	Compacted cast iron with vermicular graphite	< 210	700 ÷ 1000
4. Aluminium / Magnesium Al, Mg	4.1	Aluminium/magnesium	Aluminium / Magnesium unalloyed	< 100	< 350
	4.2	Aluminium Si-Gehalt < 0,5%	Al alloys, Si < 0,5% - Long chipping	< 150	< 500
	4.3	Aluminium Si-Gehalt <10%	Al alloys, Si < 10% - Medium chipping	< 150	< 500
	4.4	Aluminium Si-Gehalt >10%	Al alloys, Si > 10% - Short chipping	< 180	< 600
	4.5	Magnesium und Magnesiumlegierungen	Magnesium standard alloys		120 ÷ 300
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9. Sonderwerkstoffe Special materials	9.1	Keramikmaterialen	TIC - Hard materialsM< 51 HRC	< 1700	
	9.2	Kobalt Legierungen	Alloys on cobalt base	< 350	< 1200
	9.3	Wolfram Legierungen	Tungsten alloys	< 52 HRC	< 1800
10. Graphit / Graphite	10.1	Graphit	Graphite		< 100

	Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13				Metrisches ISO - Feingewinde DIN 13 / ISO Metric fine thread DIN 13					Globgewinde ASME B1.1 / Unified coarse thread ASME B1.1
										
	420TM	422TLWM	421TWM	421TLWM	420VAMF	420TMF	422TLWMF	421TWMF	421TLWMF	420VAUNC
										
	376	371/376	371/376	371/376	374	374	374	374	374	371
	12	15	15	15						
					51	51	53	53	53	
										74
	B/4-5	B/4-5	B/4-5	B/4-5	B/4-5	B/4-5	B/4-5	B/4-5	B/4-5	B/4-5
	HSSE	HSSV3	HSSE/PM	HSSE/PM	HSSE	HSSE	HSSV3	HSSE/PM	HSSE/PM	HSSE
	T	TLW	TW	TLW	VA	T	TLW	TW	TLW	VA
	3xD	3xD	3xD	3xD	3xD	3xD	3xD	3xD	3xD	3xD
1.1	■ 20-30		■ 20-30		■ 10-15	■ 20-30		■ 20-30		■ 10-15
1.2	■ 20-30		■ 20-30		■ 10-15	■ 20-30		■ 20-30		■ 10-15
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1.4	■ 15-20	■ 15-20	■ 15-20		● 8-10	■ 15-20	■ 15-20	■ 15-20		● 8-10
1.5		● 5-12	■ 5-12	■ 5-12			● 5-12	■ 5-12	■ 5-12	
1.6				■ 5-8					■ 5-8	
1.7										
1.8										
2.1		■ 10-15	■ 10-15				■ 10-15	■ 10-15		
2.2		■ 8-10	■ 8-10				■ 8-10	■ 8-10		
2.3		■ 6-8	■ 6-8				■ 6-8	■ 6-8		
2.4		● 6-8					● 6-8			
3.1										
3.3	● 10-15		■ 10-15	■ 15-20		● 10-15		■ 10-15	■ 15-20	
3.4	■ 15-20		■ 15-20	■ 20-25		■ 15-20		■ 15-20	■ 20-25	
3.5										
4.1	● 20-25				■ 10-15	● 20-25				■ 10-15
4.2	■ 25-30		■ 25-30		■ 15-20	■ 25-30		■ 25-30		■ 15-20
4.3	● 20-25		■ 20-25			● 20-25		■ 20-25		
4.4				● 25-30					● 25-30	
4.5										
4.6										
5.1	● 15-20				■ 8-12	● 15-20				■ 8-12
5.2	■ 20-25		■ 20-25		■ 10-15	■ 20-25		■ 20-25		■ 10-15
5.3				■ 25-30					■ 25-30	
5.4										
6.1					● 5-8					● 5-8
6.2										
6.3										
7.1					● 6-8					● 6-8
7.2										
7.3										
8.1										
8.2										
8.3										
9.1										
9.2										
9.3										
10.1										

EINSATZGEBIET

APPLICATION TABLE



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Beschichtung / Coating
Gewindetiefe / Thread dept

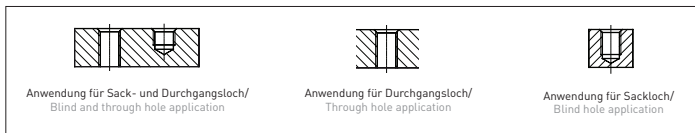
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- Recommended Use - cutting speed m/min
- Akzeptable Verwendung - Schnittgeschwindigkeit m/min
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1. Stahlwerkstoffe Steel	1.1	Baustahl unleg./ Weicheisen	Magnetic soft steel	HB < 120	Rm N/mm² < 400
	1.2	Baustahl /Einsatzstahl	Structural, case carburizing and free cutting steel	< 200	< 700
	1.3	Bau-/Kohlenstoffstahl / Stahl niedrigleg	Plain carbon steel	< 250	< 850
	1.4	Kohlenstoffstahl / Stahl niedrigleg	Alloyed steel - Tempered steel, steel casTgs	< 250	< 850
	1.5	Stahl legiert /hochlegiert	Alloyed steel - Tempered steel	250 ÷ 350	850 ÷ 1200
	1.6	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	38 ÷ 45 HRC	1200 ÷ 1400
	1.7	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	45 ÷ 49 HRC	1400 ÷ 1600
	1.8	Stahl gehartet	Hardened steel	49 ÷ 62 HRC	
2. Rostfreier Stahl Stainless Steel	2.1	Rostfreier Stahl	Free machining stainless steel	< 250	< 850
	2.2	Stahl austenitisch, ferritisch	Austenitic	< 250	< 850
	2.3	Stahl martensitisch	Ferritic, Ferritic + Austenitic, Martensitic	< 320	< 1100
	2.4	Stahl austenitisch, ferritisch	Cr-Ni alloys high temperatures resistant	330 ÷ 410	1100 ÷ 1400
3. Gusseisen Cast iron	3.1	Grauguss-lamellar	Lamellar grey cast iron	< 180	< 600
	3.3	Kugelgraphitguss	Lamellar grey cast iron	330 ÷ 410	600 ÷ 1000
	3.4	Temperguss weiB/Schwarz	Malleable cast iron	< 300	< 1000
	3.5	Vermihulargusse/ADI/Hartguss	Compacted cast iron with vermicular graphite	< 210	700 ÷ 1000
4. Aluminium / Magnesium Al, Mg	4.1	Aluminium/magnesium	Aluminium / Magnesium unalloyed	< 100	< 350
	4.2	Aluminium Si-Gehalt < 0,5%	Al alloys, Si < 0,5% - Long chipping	< 150	< 500
	4.3	Aluminium Si-Gehalt <10%	Al alloys, Si < 10% - Medium chipping	< 150	< 500
	4.4	Aluminium Si-Gehalt >10%	Al alloys, Si > 10% - Short chipping	< 180	< 600
	4.5	Magnesium und Magnesiumlegierungen	Magnesium standard alloys		120 ÷ 300
	4.6	Magnesiumlegierungen	High strength magnesium alloys	70 ÷ 120	240 ÷ 400
5. Kupfer Cooper	5.1	Kupfer	Cooper unalloyed - Long chipping	< 100	< 350
	5.2	Kupfer (langspanend)	Cooper alloys, soft brass - Long chipping	< 200	< 700
	5.3	Kupfer (kurzspanend)	Cooper alloys, hard brass, bronze - Short chipping	< 200	< 700
	5.4	Bronze hohe Festigkeit	High strength bronze	< 440	< 1500
6. Titan Titanium	6.1	Titan unlegiert	Titanium unalloyed	< 200	< 700
	6.2	Titan legiert	Titanium alloys	< 270	< 900
	6.3	Titan legiert	Titanium alloys	< 410	< 1400
7. Nickel Nickel	7.1	Nickel unlegiert	Nickel unalloyed	< 150	< 500
	7.2	Nickel legiert	Nickel alloys	< 270	< 900
	7.3	Nickel legiert	Nickel alloys	< 470	< 1600
8. Kunststoffe Synthetic Material	8.1	Thermoplaste	Thermoplastics - Extra long chipping		< 80
	8.2	Duroplaste (kurzspanend)	ThermosetTg plastics - Short chipping		< 110
	8.3	Faserverstärkte Kunststoffe	Reinforced plastic materials	240 ÷ 440	800 ÷ 1500
9. Sonderwerkstoffe Special materials	9.1	Keramikmaterialen	TIC - Hard materialsM< 51 HRC	< 1700	
	9.2	Kobalt Legierungen	Alloys on cobalt base	< 350	< 1200
	9.3	Wolfram Legierungen	Tungsten alloys	< 52 HRC	< 1800
10. Graphit / Graphite	10.1	Graphit	Graphite		< 100

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EINSATZGEBIET

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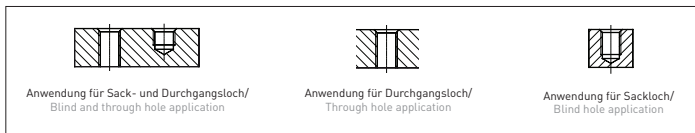
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1. Stahlwerkstoffe Steel	1.1	Baustahl unleg./ Weicheisen	Magnetic soft steel	HB < 120	Rm N/mm² < 400
	1.2	Baustahl /Einsatzstahl	Structural, case carburizing and free cutting steel	< 200	< 700
	1.3	Bau-/Kohlenstoffstahl / Stahl niedrigleg	Plain carbon steel	< 250	< 850
	1.4	Kohlenstoffstahl / Stahl niedrigleg	Alloyed steel - Tempered steel, steel casTgs	< 250	< 850
	1.5	Stahl legiert /hochlegiert	Alloyed steel - Tempered steel	250 ÷ 350	850 ÷ 1200
	1.6	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	38 ÷ 45 HRC	1200 ÷ 1400
	1.7	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	45 ÷ 49 HRC	1400 ÷ 1600
	1.8	Stahl gehartet	Hardened steel	49 ÷ 62 HRC	
2. Rostfreier Stahl Stainless Steel	2.1	Rostfreier Stahl	Free machining stainless steel	< 250	< 850
	2.2	Stahl austenitisch, ferritisch	Austenitic	< 250	< 850
	2.3	Stahl martensitisch	Ferritic, Ferritic + Austenitic, Martensitic	< 320	< 1100
	2.4	Stahl austenitisch, ferritisch	Cr-Ni alloys high temperatures resistant	330 ÷ 410	1100 ÷ 1400
3. Gusseisen Cast iron	3.1	Grauguss-lamellar	Lamellar grey cast iron	< 180	< 600
	3.3	Kugelgraphitguss	Lamellar grey cast iron	330 ÷ 410	600 ÷ 1000
	3.4	Temperguss weiB/Schwarz	Malleable cast iron	< 300	< 1000
	3.5	Vermihulargusse/ADI/Hartguss	Compacted cast iron with vermicular graphite	< 210	700 ÷ 1000
4. Aluminium / Magnesium Al, Mg	4.1	Aluminium/magnesium	Aluminium / Magnesium unalloyed	< 100	< 350
	4.2	Aluminium Si-Gehalt < 0,5%	Al alloys, Si < 0,5% - Long chipping	< 150	< 500
	4.3	Aluminium Si-Gehalt <10%	Al alloys, Si < 10% - Medium chipping	< 150	< 500
	4.4	Aluminium Si-Gehalt >10%	Al alloys, Si > 10% - Short chipping	< 180	< 600
	4.5	Magnesium und Magnesiumlegierungen	Magnesium standard alloys		120 ÷ 300
5. Kupfer Cooper	4.6	Magnesiumlegierungen	High strength magnesium alloys	70 ÷ 120	240 ÷ 400
	5.1	Kupfer	Cooper unalloyed - Long chipping	< 100	< 350
	5.2	Kupfer (langspanend)	Cooper alloys, soft brass - Long chipping	< 200	< 700
	5.3	Kupfer (kurzspanend)	Cooper alloys, hard brass, bronze - Short chipping	< 200	< 700
	5.4	Bronze hohe Festigkeit	High strength bronze	< 440	< 1500
6. Titan Titanium	6.1	Titan unlegiert	Titanium unalloyed	< 200	< 700
	6.2	Titan legiert	Titanium alloys	< 270	< 900
	6.3	Titan legiert	Titanium alloys	< 410	< 1400
7. Nickel Nickel	7.1	Nickel unlegiert	Nickel unalloyed	< 150	< 500
	7.2	Nickel legiert	Nickel alloys	< 270	< 900
	7.3	Nickel legiert	Nickel alloys	< 470	< 1600
8. Kunststoffe Synthetic Material	8.1	Thermoplaste	Thermoplastics - Extra long chipping		< 80
	8.2	Duroplaste (kurzspanend)	ThermosetTg plastics - Short chipping		< 110
	8.3	Faserverstärkte Kunststoffe	Reinforced plastic materials	240 ÷ 440	800 ÷ 1500
9. Sonderwerkstoffe Special materials	9.1	Keramikmaterialen	TIC - Hard materialsM< 51 HRC	< 1700	
	9.2	Kobalt Legierungen	Alloys on cobalt base	< 350	< 1200
	9.3	Wolfram Legierungen	Tungsten alloys	< 52 HRC	< 1800
10. Graphit / Graphite	10.1	Graphit	Graphite		< 100

	Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13				Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13				Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13	
										
	H15VAM	H15TM	H15VAM	H15TM	H40VAM	H40TM	H40VAM	H40TM	H42TLWM	H41TWM
										
	371	371	376	376	371	371	376	376	371/376	371/376
	15°	15°	15°	15°	40°	40°	40°	40°	48°	45°
	19	19	19	19	24	24	25	25	30	31
	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3
	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSV3	HSSE/PM
	VA	T	VA	T	VA	T	VA	T	TLW	TW
	1,5xD	1,5xD	1,5xD	1,5xD	2,5xD	2,5xD	2,5xD	2,5xD	3,5xD	3,5xD
1.1	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 10-15	■ 20-30		■ 20-30
1.2	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 10-15	■ 20-30		■ 20-30
1.3	■ 10-12	■ 20-25	■ 10-12	■ 20-25	■ 10-12	■ 20-25	■ 10-12	■ 20-25	■ 20-25	■ 20-25
1.4	● 8-10	■ 15-20	● 8-10	■ 15-20	● 8-10	■ 15-20	● 8-10	■ 15-20	■ 15-20	■ 15-20
1.5									● 5-12	■ 5-12
1.6										
1.7										
1.8										
2.1									■ 10-15	■ 10-15
2.2									■ 8-10	■ 8-10
2.3									■ 6-8	■ 6-8
2.4									● 6-8	
3.1										
3.3		● 10-15		● 10-15		● 10-15		● 10-15		■ 10-15
3.4	■ 15-20	■ 15-20	■ 15-20	■ 15-20		■ 15-20		■ 15-20		■ 15-20
3.5										
4.1	■ 10-15	● 20-25	■ 10-15	● 20-25	■ 10-15	● 20-25	■ 10-15	● 20-25		
4.2	■ 15-20	■ 25-30	■ 15-20	■ 25-30	■ 15-20	■ 25-30	■ 15-20	■ 25-30		● 25-30
4.3		● 20-25		● 20-25		● 20-25		● 20-25		● 20-25
4.4										
4.5										
4.6										
5.1	■ 8-12	● 15-20	■ 8-12	● 15-20	■ 8-12	● 15-20	■ 8-12	● 15-20		
5.2	■ 10-15	■ 20-25	■ 10-15	■ 20-25	■ 10-15	■ 20-25	■ 10-15	■ 20-25		● 20-25
5.3										
5.4										
6.1	● 5-8		● 5-8							
6.2										
6.3										
7.1	● 6-8		● 6-8							
7.2										
7.3										
8.1										
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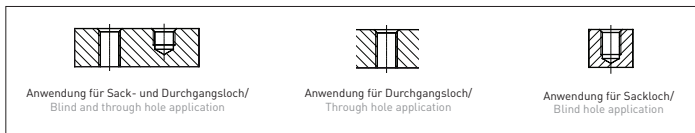
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	1.2	Baustahl /Einsatzstahl	Structural, case carburizing and free cutting steel	< 200	< 700
	1.3	Bau-/Kohlenstoffstahl / Stahl niedrigleg	Plain carbon steel	< 250	< 850
	1.4	Kohlenstoffstahl / Stahl niedrigleg	Alloyed steel - Tempered steel, steel casTgs	< 250	< 850
	1.5	Stahl legiert /hochlegiert	Alloyed steel - Tempered steel	250 ÷ 350	850 ÷ 1200
	1.6	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	38 ÷ 45 HRC	1200 ÷ 1400
	1.7	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	45 ÷ 49 HRC	1400 ÷ 1600
	1.8	Stahl gehartet	Hardened steel	49 ÷ 62 HRC	
2. Rostfreier Stahl Stainless Steel	2.1	Rostfreier Stahl	Free machining stainless steel	< 250	< 850
	2.2	Stahl austenitisch, ferritisch	Austenitic	< 250	< 850
	2.3	Stahl martensitisch	Ferritic, Ferritic + Austenitic, Martensitic	< 320	< 1100
	2.4	Stahl austenitisch, ferritisch	Cr-Ni alloys high temperatures resistant	330 ÷ 410	1100 ÷ 1400
3. Gusseisen Cast iron	3.1	Grauguss-lamellar	Lamellar grey cast iron	< 180	< 600
	3.3	Kugelgraphitguss	Lamellar grey cast iron	330 ÷ 410	600 ÷ 1000
	3.4	Temperguss weiB/Schwarz	Malleable cast iron	< 300	< 1000
	3.5	Vermihulargusse/ADI/Hartguss	Compacted cast iron with vermicular graphite	< 210	700 ÷ 1000
4. Aluminium / Magnesium Al, Mg	4.1	Aluminium/magnesium	Aluminium / Magnesium unalloyed	< 100	< 350
	4.2	Aluminium Si-Gehalt < 0,5%	Al alloys, Si < 0,5% - Long chipping	< 150	< 500
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5. Kupfer Cooper	4.6	Magnesiumlegierungen	High strength magnesium alloys	70 ÷ 120	240 ÷ 400
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	8.3	Faserverstärkte Kunststoffe	Reinforced plastic materials	240 ÷ 440	800 ÷ 1500
9. Sonderwerkstoffe Special materials	9.1	Keramikmaterialen	TIC - Hard materialsM< 51 HRC	< 1700	
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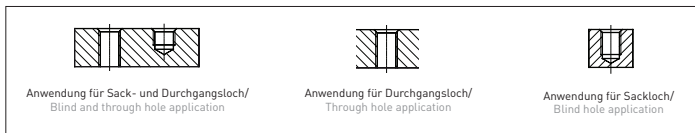
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	9.3	Wolfram Legierungen	Tungsten alloys	< 52 HRC	< 1800
10. Graphit / Graphite	10.1	Graphit	Graphite		< 100

	Feingewinde ASME B1.1 / Unified coarse fine ASME B1.1				Rohrgewinde DIN EN ISO 228/ British standard pipe thread DIN EN ISO 228			UN-Gewinde ASME B1.1 8 GANG / Unified thread ASME B1.1 8 thread series	Metrisches ISO - Regelgewinde DIN 13 / ISO Metric coarse thread DIN 13	
										
	H40VAUNF	H40TUNF	H40VAUNF	H40TUNF	H40VAG	H40TG	H42TLWG	H408UN	GF0TM	GF1TM
										
	371	371	374	374	2189	2189	2189	~374	371/376	371/376
	40°	40°	40°	48°	40°	40°	48°	40°		
									38	39
	93	93	93	93						
					105	105	106			
								98		
	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3	C/2-3
	HSSE	HSSE	HSSE	HSSE	HSSE	HSSE	HSSV3	HSSE	HSSE-Co	HSSE/PM
	VA	T	VA	T	VA	T	TLW	-	T	T8
	2,5xD	2,5xD	2,5xD	3,5xD	2,5xD	2,5xD	3,5xD	2,5xD	3xD	3xD
1.1	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 20-25	● 10-15	■ 20-30	■ 30-40
1.2	■ 10-15	■ 20-30	■ 10-15	■ 20-30	■ 10-15	■ 20-30		■ 10-15	■ 20-30	■ 30-40
1.3	■ 10-12	■ 20-25	■ 10-12	■ 20-25	■ 10-12	■ 20-25		■ 10-12	■ 20-25	■ 30-35
1.4	● 8-10	■ 15-20	● 8-10	■ 15-20	● 8-10	■ 15-20	■ 15-20	● 8-10	● 15-20	■ 25-30
1.5							● 5-12			● 10-15
1.6										
1.7										
1.8										
2.1							■ 10-15		■ 10-15	■ 10-15
2.2							■ 8-10		■ 10-12	■ 10-12
2.3							■ 6-8		● 6-10	■ 6-10
2.4							● 6-8			● 6-8
3.1										
3.3		● 10-15		● 10-15		● 10-15				
3.4		■ 15-20		■ 15-20		■ 15-20				
3.5										
4.1	■ 10-15	● 20-25	■ 10-15	● 20-25	■ 10-15	● 20-25		● 10-15	■ 35-40	■ 35-40
4.2	■ 15-20	■ 25-30	■ 15-20	■ 25-30	■ 15-20	■ 25-30		■ 15-20	■ 40-45	■ 40-45
4.3		● 20-25		● 20-25		● 20-25			■ 35-40	■ 35-40
4.4										
4.5										
4.6										
5.1	■ 8-12	● 15-20	■ 8-12	● 15-20	■ 8-12	● 15-20		● 8-12	● 15-20	● 15-20
5.2	■ 10-15	■ 20-25	■ 10-15	■ 20-25	■ 10-15	■ 20-25		● 10-15	● 15-20	● 15-20
5.3										
5.4										
6.1										
6.2										
6.3										
7.1										■ 15-20
7.2										● 5-8
7.3										
8.1										
8.2										
8.3										
9.1										
9.2										
9.3										
10.1										

EINSATZGEBIET

APPLICATION TABLE



Seitenzahl
Page number

Bezeichnung/ Description
Lochform/ Hole Type
Bestell - Nr. / Cat. No.
DIN
Nutart / Notiz / Flute Tipe / Notes
M
MF
UNC
UNF
G
8UN
JIS
Schaelanschnitt / Chamfer
Materialen / Tap'steel
Beschichtung / Coating
Gewindetiefe / Thread dept

- Empfohlene Verwendung - Schnittgeschwindigkeit m/min
- Recommended Use - cutting speed m/min
- Akzeptable Verwendung - Schnittgeschwindigkeit m/min
- Acceptable Use - cutting speed m/min

1. Stahlwerkstoffe Steel	1.1	Baustahl unleg./ Weicheisen	Magnetic soft steel	HB < 120	Rm N/mm² < 400
	1.2	Baustahl /Einsatzstahl	Structural, case carburizing and free cutting steel	< 200	< 700
	1.3	Bau-/Kohlenstoffstahl / Stahl niedrigleg	Plain carbon steel	< 250	< 850
	1.4	Kohlenstoffstahl / Stahl niedrigleg	Alloyed steel - Tempered steel, steel casTgs	< 250	< 850
	1.5	Stahl legiert /hochlegiert	Alloyed steel - Tempered steel	250 ÷ 350	850 ÷ 1200
	1.6	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	38 ÷ 45 HRC	1200 ÷ 1400
	1.7	Stahl legiert /hochlegiert	Alloyed steel - High strength steel	45 ÷ 49 HRC	1400 ÷ 1600
	1.8	Stahl gehartet	Hardened steel	49 ÷ 62 HRC	
2. Rostfreier Stahl Stainless Steel	2.1	Rostfreier Stahl	Free machining stainless steel	< 250	< 850
	2.2	Stahl austenitisch, ferritisch	Austenitic	< 250	< 850
	2.3	Stahl martensitisch	Ferritic, Ferritic + Austenitic, Martensitic	< 320	< 1100
	2.4	Stahl austenitisch, ferritisch	Cr-Ni alloys high temperatures resistant	330 ÷ 410	1100 ÷ 1400
3. Gusseisen Cast iron	3.1	Grauguss-lamellar	Lamellar grey cast iron	< 180	< 600
	3.3	Kugelgraphitguss	Lamellar grey cast iron	330 ÷ 410	600 ÷ 1000
	3.4	Temperguss weiB/Schwarz	Malleable cast iron	< 300	< 1000
	3.5	Vermihulargusse/ADI/Hartguss	Compacted cast iron with vermicular graphite	< 210	700 ÷ 1000
4. Aluminium / Magnesium Al, Mg	4.1	Aluminium/magnesium	Aluminium / Magnesium unalloyed	< 100	< 350
	4.2	Aluminium Si-Gehalt < 0,5%	Al alloys, Si < 0,5% - Long chipping	< 150	< 500
	4.3	Aluminium Si-Gehalt <10%	Al alloys, Si < 10% - Medium chipping	< 150	< 500
	4.4	Aluminium Si-Gehalt >10%	Al alloys, Si > 10% - Short chipping	< 180	< 600
	4.5	Magnesium und Magnesiumlegierungen	Magnesium standard alloys		120 ÷ 300
	4.6	Magnesiumlegierungen	High strength magnesium alloys	70 ÷ 120	240 ÷ 400
5. Kupfer Cooper	5.1	Kupfer	Cooper unalloyed - Long chipping	< 100	< 350
	5.2	Kupfer (langspanend)	Cooper alloys, soft brass - Long chipping	< 200	< 700
	5.3	Kupfer (kurzspanend)	Cooper alloys, hard brass, bronze - Short chipping	< 200	< 700
	5.4	Bronze hohe Festigkeit	High strength bronze	< 440	< 1500
6. Titan Titanium	6.1	Titan unlegiert	Titanium unalloyed	< 200	< 700
	6.2	Titan legiert	Titanium alloys	< 270	< 900
	6.3	Titan legiert	Titanium alloys	< 410	< 1400
7. Nickel Nickel	7.1	Nickel unlegiert	Nickel unalloyed	< 150	< 500
	7.2	Nickel legiert	Nickel alloys	< 270	< 900
	7.3	Nickel legiert	Nickel alloys	< 470	< 1600
8. Kunststoffe Synthetic Material	8.1	Thermoplaste	Thermoplastics - Extra long chipping		< 80
	8.2	Duroplaste (kurzspanend)	ThermosetTg plastics - Short chipping		< 110
	8.3	Faserverstärkte Kunststoffe	Reinforced plastic materials	240 ÷ 440	800 ÷ 1500
9. Sonderwerkstoffe Special materials	9.1	Keramikmaterialen	TIC - Hard materialsM< 51 HRC	< 1700	
	9.2	Kobalt Legierungen	Alloys on cobalt base	< 350	< 1200
	9.3	Wolfram Legierungen	Tungsten alloys	< 52 HRC	< 1800
10. Graphit / Graphite	10.1	Graphit	Graphite		< 100

NOTIZIEN
NOTE

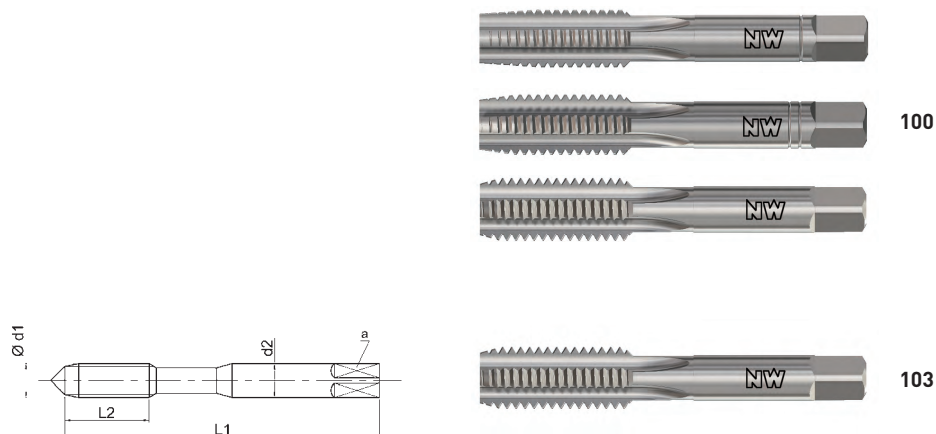


MASCHINENGWINDEBOHRER
MACHINE TAPS



M HANGEWINDEBOHRER - HAND TAPS

Metrisches ISO - Regelgewinde DIN 13 - ISO Metric Coarse Thread, DIN 13
Baumaße DIN 352 - Dimensions DIN 352



Bestell - Nr. - Cat. No.	100	103		
Norm - Standard	DIN 352	DIN 352		
Schneidstoff - Tool material	HSS	HSS		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6H	6H		
Anschnittform - Chamfer form	C/2-3	C/2-3		

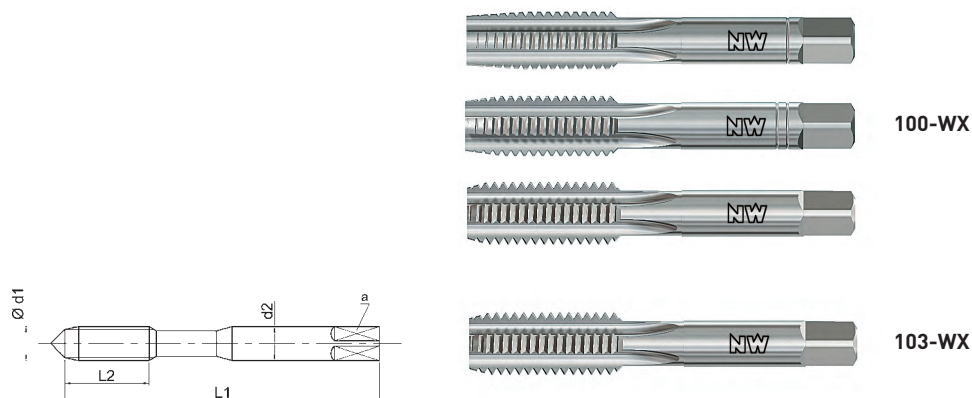
Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	2.1 - 2.2 - 2.3 - 3.1 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.4		
	4.1 - 4.2 - 4.3 - 4.4	4.1 - 4.2 - 4.3 - 4.4		
	5.1 - 5.2 - 5.3	5.1 - 5.2 - 5.3		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M3	0,5	40	9	3,5	2,7	2,5	100M03050	103M03050
M4	0,7	45	11	4,5	3,4	3,3	100M04070	103M04070
M5	0,8	50	13	6	4,9	4,2	100M05080	103M05080
M6	1	56	15	6	4,9	5	100M6100	103M06100
M8	1,25	63	19	6	4,9	6,8	100M08125	103M08125
M10	1,5	70	22	7	5,5	8,5	100M10150	103M10150
M12	1,75	75	28	9	7	10,3	100M12175	103M12175
M14	2	80	30	11	9	12	100M14200	103M14200
M16	2	80	30	12	9	14	100M16200	103M16200
M18	2,5	95	34	14	11	15,5	100M18250	103M18250
M20	2,5	95	34	16	12	17,5	100M20250	103M20250
M22	2,5	100	34	18	14,5	19,5	100M22250	103M22250
M24	3	110	38	18	14,5	21	100M24300	103M24300
M27	3	110	38	20	16	24	100M27300	103M27300
M30	3,5	125	45	22	18	26,5	100M30350	103M30350

M HANGEWINDEBOHRER - HAND TAPS

Metrisches ISO - Regelgewinde DIN 13 - ISO Metric Coarse Thread, DIN 13
Baumaße DIN 352 - Dimensions DIN 352

Für Rostfreie Stähle - For Stainless Steel



Bestell - Nr. - Cat. No.	100-WX	103-WX		
Norm - Standard	DIN 352	DIN 352		
Schneidstoff - Tool material	HSS	HSS		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3 - 3.1 - 3.2 - 3.3	2.1 - 2.2 - 2.3 - 3.1 - 3.2 - 3.3		
	4.1 - 4.2 - 4.3 - 4.4	4.1 - 4.2 - 4.3 - 4.4		
	5.1 - 5.2 - 5.3	5.1 - 5.2 - 5.3		

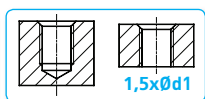
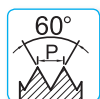
Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M3	0,5	40	9	3,5	2,7	2,5	100M03050-WX	103M03050-WX
M4	0,7	45	11	4,5	3,4	3,3	100M04070-WX	103M04070-WX
M5	0,8	50	13	6	4,9	4,2	100M05080-WX	103M05080-WX
M6	1	56	15	6	4,9	5	100M06100-WX	103M06100-WX
M8	1,25	63	19	6	4,9	6,8	100M08125-WX	103M08125-WX
M10	1,5	70	22	7	5,5	8,5	100M10150-WX	103M10150-WX

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

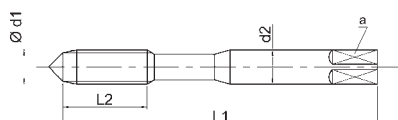
Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gerade genutet
Straight flute

HSSE



DIN 371



Bestell - Nr. - Cat. No.	SF			
Norm - Standard	DIN 371			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	-			
Toleranz - Tolerance	6H			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 3.4			
	4.2 - 4.3			
	5.2 - 5.3			
	8.2			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M2	0,4	45	10	2,8	2,1	1,6	SFM02040
M2,5	0,45	50	13	2,8	2,1	2,05	SFM025045
M3	0,5	56	10	3,5	2,7	2,5	SFM03050
M4	0,7	63	13	4,5	3,4	3,3	SFM04070
M5	0,8	70	15	6	4,9	4,2	SFM05080
M6	1	80	16	6	4,9	5	SFM06100
M8	1,25	90	18	8	6,2	6,8	SFM08125
M10	1,5	100	20	10	8	8,5	SFM10150

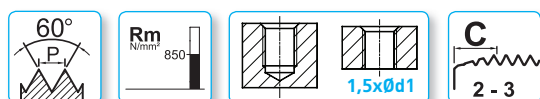
M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelfgewinde DIN 13
ISO Metric coarse thread DIN 13

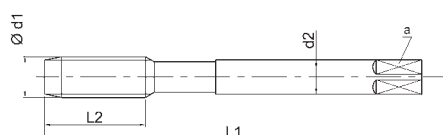
Gerade genutet
Straight flute



HSSE



DIN 376



Bestell - Nr. - Cat. No.	SFRS X Ød1 ≤ M8 - M10	SF X Ød1 ≥ M12		
Norm - Standard	DIN 376	DIN 376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6H	6H		
Anschnittform - Chamfer form	C/2-3	C/2-3		
Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 3.4	1.1 - 1.2 - 1.3 - 1.4 - 3.4		
	4.2 - 4.3	4.2 - 4.3		
	5.2 - 5.3	5.2 - 5.3		
	8.2	8.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M8	1,25	90	18	6	4,9	6,8	SFRSM08125
M10	1,5	100	20	7	5,5	8,5	SFRSM10150
M12	1,75	110	25	9	7	10,3	SFM12175
M14	2	110	28	11	9	12	SFM14200
M16	2	110	28	12	9	14	SFM16200
M18	2,5	125	33	14	11	15,5	SFM18250
M20	2,5	140	33	16	12	17,5	SFM20250
M22	2,5	140	33	18	14,5	19,5	SFM22250
M24	3	160	39	18	14,5	21	SFM24300
M27	3	160	39	20	16	24	SFM27300
M30	3,5	180	46	22	18	26,5	SFM30350

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Synkronisiertes Threading
Synchronized Threading

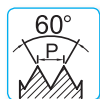
HSSE/PM



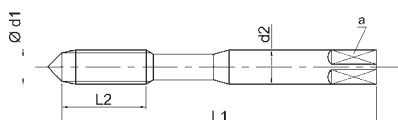
SRSFTLW



SRSFTLWKK



~ DIN 371



Bestell - Nr. - Cat. No.	SRSFTLW	SRSFTLWKK		
Norm - Standard	~ DIN 371	~ DIN 371		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TLW	TLW		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.5 - 1.6 - 3.1 - 3.2 - 3.3 - 3.4 - 3.5	1.5 - 1.6 - 3.1 - 3.2 - 3.3 - 3.4 - 3.5		
	4.3 - 4.4 - 4.5 - 4.6	4.3 - 4.4 - 4.5 - 4.6		
	5.3 - 5.4 - 8.2 - 8.3	5.3 - 5.4 - 8.2 - 8.3		
	10.1	10.1		

Ød1	p	L1	L2	Ød2 - h6	a	
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5
M12	1,75	110	18	12	9	10,3
M16	2	110	20	16	12	14

Identnummer - Code	
SRSFTLWM06100	SRSFTLWKKM06100
SRSFTLWM08125	SRSFTLWKKM08125
SRSFTLWM10150	SRSFTLWKKM10150
SRSFTLWM12175	SRSFTLWKKM12175
SRSFTLWM16200	SRSFTLWKKM16200

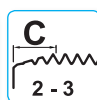
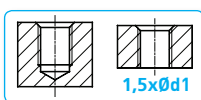
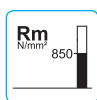
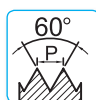
M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Für Hohe Festigkeit
For High Strength

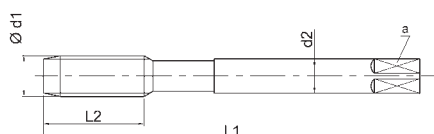
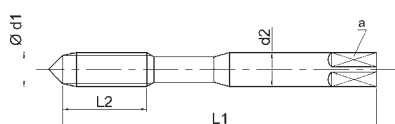


HSSE/PM



DIN 371 $d1 \leq 10\text{mm}$.

DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	021TLW			
Norm - Standard	DIN 371/376			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	6HX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.5 - 1.6			
	4.3 - 4.4 - 4.5 - 4.6			
	5.3 - 5.4			
	8.2 - 8.3 - 10.1			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M4	0,7	63	13	4,5	3,4	3,3	021TLWM04070
M5	0,8	70	13	6	4,9	4,2	021TLWM05080
M6	1	80	16	6	4,9	5	021TLWM06100
M8	1,25	90	18	8	6,2	6,8	021TLWM08125
M10	1,5	100	20	10	8	8,5	021TLWM10150
M12	1,75	110	25	9	7	10,3	021TLWM12175
M14	2	110	28	11	9	12	021TLWM14200
M16	2	110	28	12	9	14	021TLWM16200

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

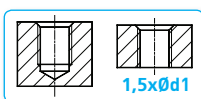
Für Hohe Festigkeit
For High Strength

HSSE/PM

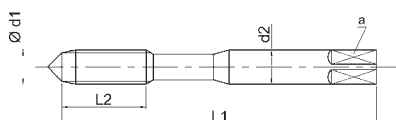


421EXTTL

≤ 52HRC



~ DIN 371



Bestell - Nr. - Cat. No.	421EXTTL			
Norm - Standard	~ DIN 371			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TL			
Toleranz - Tolerance	6HX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.6 - 1.7			
	5.4			
	9.1 - 9.3			

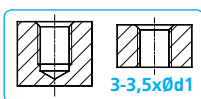
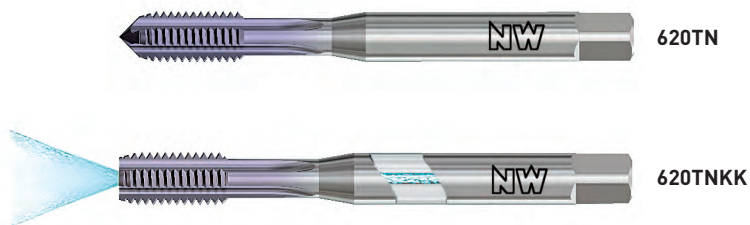
Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M6	1	80	18	6	4,9	5	421EXTTLM06100
M8	1,25	90	25	8	6,2	6,8	421EXTTLM08125
M10	1,5	100	20	10	8	8,5	421EXTTLM10150
M12	1,75	110	30	12	9	10,3	421EXTTLM12175

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

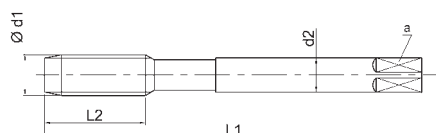
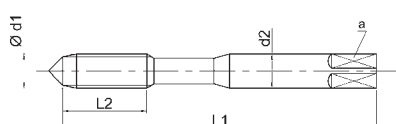
Gerade genutet für Guss
Straight flute for Cast-Iron

HSSE



DIN 371 $d1 \leq 10\text{mm}$.

DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	620TN	620TNKK		
Norm - Standard	DIN 371	DIN 376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	TN	TN		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	3.1 - 3.3 - 3.4 - 3.5	3.1 - 3.3 - 3.4 - 3.5		
	4.3 - 4.4 - 4.5 - 4.6	4.3 - 4.4 - 4.5 - 4.6		
	5.3 - 8. 2	5.3 - 8. 2		
	10.1	10.1		

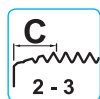
Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M6	1	80	16	6	4,9	5	620TNM06100	620TNKKM06100
M8	1,25	90	18	8	6,2	6,8	620TNM08125	620TNKKM08125
M10	1,5	100	20	10	8	8,5	620TNM10150	620TNKKM10150
M12	1,75	110	25	9	7	10,3	620TNM12175	620TNKKM12175
M14	2	110	28	11	9	12	620TNM14200	620TNKKM14200
M16	2	110	28	12	9	14	620TNM16200	620TNKKM16200
M18	2,5	125	33	14	11	15,5	620TNM18250	620TNKKM18250
M20	2,5	140	33	16	12	17,5	620TNM20250	620TNKKM20250

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

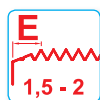
Gerade genutet für Guss
Straight flute for Cast-Iron

HSSE/PM

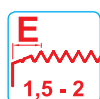


621TL

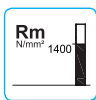
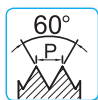
3xØd1



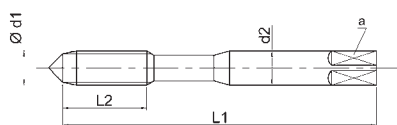
621TL-CHE



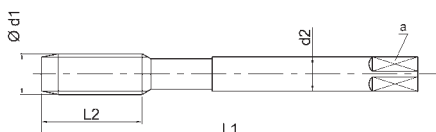
621TLKK-CHE



DIN 371 d1 ≤ 10mm.



DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	621TL	621TL-CHE	621TLKK-CHE	
Norm - Standard	DIN 371/376	DIN 371/376	DIN 371/376	
Schneidstoff - Tool material	HSSE/PM	HSSE/PM	HSSE/PM	
Oberfläche - Surface	TL	TL	TL	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	C/2-3	E/1,5-2	E/1,5-2	

Einsatzgebiet - Application	3.1 - 3.2 - 3.3 - 3.4 - 3.5	3.1 - 3.2 - 3.3 - 3.4 - 3.5	3.1 - 3.2 - 3.3 - 3.4 - 3.5	
	4.4	4.4	4.4	
	5.3 - 5.4	5.3 - 5.4	5.3 - 5.4	
	10.1	10.1	10.1	

Ød1	p	L1	L2	Ød2	a	
M6	1	80	16	6	4,9	5
M8	1,25	90	18	8	6,2	6,8
M10	1,5	100	20	10	8	8,5
M12	1,75	110	25	9	7	10,3
M14	2	110	28	11	9	12
M16	2	110	28	12	9	14

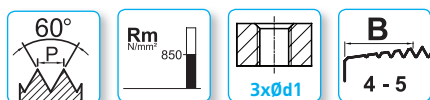
Identnummer - Code		
621TLM06100	621TLM06100-CHE	621TLKKM06100-CHE
621TLM08125	621TLM08125-CHE	621TLKKM08125-CHE
621TLM10150	621TLM10150-CHE	621TLKKM10150-CHE
621TLM12175	621TLM12175-CHE	621TLKKM12175-CHE
621TLM14200	621TLM14200-CHE	621TLKKM14200-CHE
621TLM16200	621TLM16200-CHE	621TLKKM16200-CHE

M MASCHINENGWINDEBOHRER - MACHINE TAPS

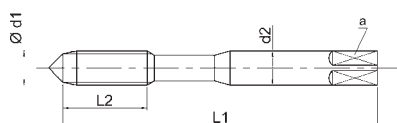
Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

HSSE



DIN 371



Bestell - Nr. - Cat. No.	420	420VA	420T	420TLW
Norm - Standard	DIN 371	DIN 371	DIN 371	DIN 371
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	6H/ISO2
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	B/4-5

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2 - 6.1 - 7.1	4.1 - 4.2 - 4.3	4.2 - 4.3
			5.1 - 5.2	5.2

Ød1	p	L1	L2	Ød2	a		Identnummer - Code			
M2	0,4	45	10	2,8	2,1	1,6	420M02040	420VAM02040	420TM02040	420TLWM02040
M3	0,5	56	10	3,5	2,7	2,5	420M03050	420VAM03050	420TM03050	420TLWM03050
M4	0,7	63	13	4,5	3,4	3,3	420M04070	420VAM04070	420TM04070	420TLWM04070
M5	0,8	70	15	6	4,9	4,2	420M05080	420VAM05080	420TM05080	420TLWM05080
M6	1	80	16	6	4,9	5	420M06100	420VAM06100	420TM06100	420TLWM06100
M8	1,25	90	18	8	6,2	6,8	420M08125	420VAM08125	420TM08125	420TLWM08125
M10	1,5	100	20	10	8	8,5	420M10150	420VAM10150	420TM10150	420TLWM10150

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

HSSE



420



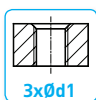
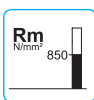
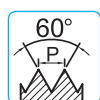
420VA



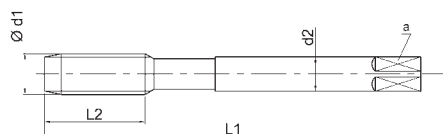
420T



420TLW



DIN 376



Bestell - Nr. - Cat. No.	420	420VA	420T	420TLW
Norm - Standard	DIN 376	DIN 376	DIN 376	DIN 376
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	6H/ISO2
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	B/4-5

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2 - 6.1 - 7.1	4.1 - 4.2 - 4.3	4.2 - 4.3
			5.1 - 5.2	5.2

Ød1	p	L1	L2	Ød2	a		Identnummer - Code			
M8	1,25	90	18	6	4,9	6,8	420RSM08125	420RSVAM08125	420RSTM08125	420RSTLWM08125
M10	1,5	100	20	7	5,5	8,5	420RSM10150	420RSVAM10150	420RSTM10150	420RSTLWM10150
M12	1,75	110	25	9	7	10,3	420M12175	420VAM12175	420TM12175	420TLWM12175
M14	2	110	28	11	9	12	420M14200	420VAM14200	420TM14200	420TLWM14200
M16	2	110	28	12	9	14	420M16200	420VAM16200	420TM16200	420TLWM16200
M18	2,5	125	33	14	11	15,5	420M18250	420VAM18250	420TM18250	420TLWM18250
M20	2,5	140	33	16	12	17,5	420M20250	420VAM20250	420TM20250	420TLWM20250
M22	2,5	140	33	18	14,5	19,5	420M22250	420VAM22250	420TM22250	420TLWM22250
M24	3	160	39	18	14,5	21	420M24300	420VAM24300	420TM24300	420TLWM24300
M27	3	160	39	20	16	24	420M27300	420VAM27300	420TM27300	420TLWM27300
M30	3,5	180	16	22	18	26,5	420M30350	420VAM30350	420TM30350	420TLWM30350

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

Toleranz: 6G - 6H+0,1
Tolerance: 6G - 6H+0,1

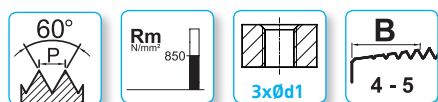


420-6G
420-6H+0,1



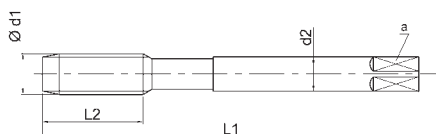
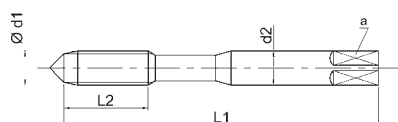
420-6G
420-6H+0,1

HSSE



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	420-6G	420-6H+0,1		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6G/ISO3	6H+0,1		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	4.1 - 4.2		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M3	0,5	56	10	3,5	2,7	2,5	420M03050-6G	420M03050-6H+0,1
M4	0,7	63	13	4,5	3,4	3,3	420M04070-6G	420M04070-6H+0,1
M5	0,8	70	13	6	4,9	4,2	420M05080-6G	420M05080-6H+0,1
M6	1	80	16	6	4,9	5	420M06100-6G	420M06100-6H+0,1
M8	1,25	90	18	8	6,2	6,8	420M08125-6G	420M08125-6H+0,1
M10	1,5	100	20	10	8	8,5	420M10150-6G	420M10150-6H+0,1
M12	1,75	110	25	9	7	10,3	420M12175-6G	420M12175-6H+0,1
M14	2	110	28	11	9	12	420M14200-6G	420M14200-6H+0,1
M16	2	110	28	12	9	14	420M16200-6G	420M16200-6H+0,1

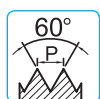
M MASCHINENGewindeBohrer - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

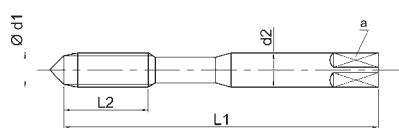
Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

Linksgewinde
Left Threading

HSSE



DIN 371 d1 ≤ 10mm.



DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	420LH	420TLH		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	T		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	4.1 - 4.2		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M6	1	80	16	6	4,9	5	420M06100LH	420TM06100LH
M8	1,25	90	18	8	6,2	6,8	420M08125LH	420TM08125LH
M10	1,5	100	20	10	8	8,5	420M10150LH	420TM10150LH
M12	1,75	110	25	9	7	10,3	420M12175LH	420TM12175LH
M14	2	110	28	11	9	12	420M14200LH	420TM14200LH
M16	2	110	28	12	9	14	420M16200LH	420TM16200LH

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Grüner, Blauer, Roter Ring mit gerader Nutenform mit Schälanschnitt
Green, Blue, Red Rings Straight flutes with spiral point

Universal



421TW

HSSE/PM



Superb-X INOX



422TLW

HSSEV3

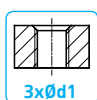
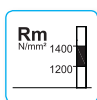
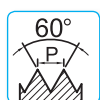


Hard



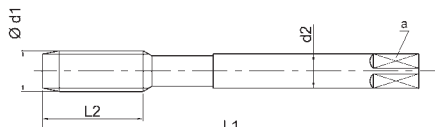
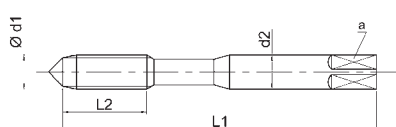
421TLW

HSSE/PM



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	421TW	422TLW	421TLW	
Norm - Standard	DIN 371/376	DIN 371/376	DIN 371/376	
Schneidstoff - Tool material	HSSE/PM	HSSEV3	HSSE/PM	
Oberfläche - Surface	TW	TLW	TLW	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5	1.5 - 1.6	
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3 - 2.4	3.3 - 3.4	
	3.3 - 3.4 - 4.2 - 4.3		4.4	
	5.2		5.3	

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	10	3,5	2,7	2,5
M4	0,7	63	13	4,5	3,4	3,3
M5	0,8	70	13	6	4,9	4,2
M6	1	80	15	6	4,9	5
M8	1,25	90	18	8	6,2	6,8
M10	1,5	100	20	10	8	8,5
M12	1,75	110	25	9	7	10,3
M14	2	110	28	11	9	12
M16	2	110	28	12	9	14

Identnummer - Code		
421TWM03050	422TLWM03050	421TLWM03050
421TWM04070	422TLWM04070	421TLWM04070
421TWM05080	422TLWM05080	421TLWM05080
421TWM06100	422TLWM06100	421TLWM06100
421TWM08125	422TLWM08125	421TLWM08125
421TWM10150	422TLWM10150	421TLWM10150
421TWM12175	422TLWM12175	421TLWM12175
421TWM14200	422TLWM14200	421TLWM14200
421TWM16200	422TLWM16200	421TLWM16200

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gerade genutzt mit Schälanschnitt
Straight flutes with spiral point

Für weiches material
For soft material

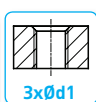
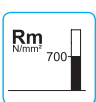
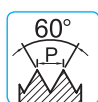
HSSE



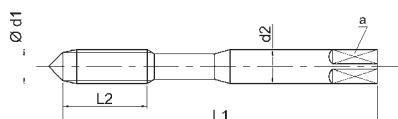
420AZ



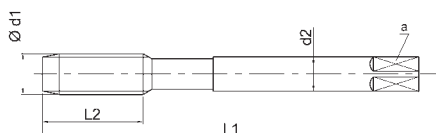
420TLW-AZ



DIN 371 d1 ≤ 10mm.



DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	420-AZ	420TLW-AZ		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TLW		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1	1.1		
	4.1 - 4.2	4.1 - 4.2		
	5.1 - 5.2	5.1 - 5.2		
	6.1 - 7.1 - 8.1			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M4	0,7	63	13	4,5	3,4	3,3	420M04070-AZ	420TLWM04070-AZ
M5	0,8	70	13	6	4,9	4,2	420M05080-AZ	420TLWM05080-AZ
M6	1	80	16	6	4,9	5	420M06100-AZ	420TLWM06100-AZ
M8	1,25	90	18	8	6,2	6,8	420M08125-AZ	420TLWM08125-AZ
M10	1,5	100	20	10	8	8,5	420M10150-AZ	420TLWM10150-AZ
M12	1,75	110	25	9	7	10,3	420M12175-AZ	420TLWM12175-AZ
M14	2	110	28	11	9	12	420M14200-AZ	420TLWM14200-AZ
M16	2	110	28	12	9	14	420M16200-AZ	420TLWM16200-AZ

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 15°
Spiral flutes 15°

Titanlegierungen
Titanium alloys



HLF151TN

HSSE/PM

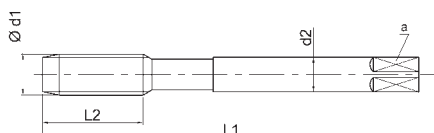
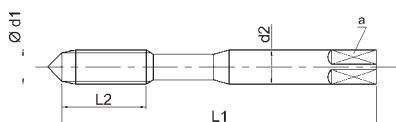


HLF151TN-J



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	HLF151TN	HLF151TN-J		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TN	TN		
Toleranz - Tolerance	6HX	4H		
Anschnittform - Chamfer form	D	D		

Einsatzgebiet - Application	1.6 - 2.4	1.6 - 2.4		
	3.3 - 3.4	3.3 - 3.4		
	4.4 - 5.3 - 5.4 - 6.2 - 6.3	4.4 - 5.3 - 5.4 - 6.2 - 6.3		
	7.2 - 9.2	7.2 - 9.2		

Ød1	p	L1	L2	Ød2	a		x MJ	Identnummer - Code	
M3	0,5	56	10	3,5	2,7	2,5	2,6	HLF151TNM03050	HLF151TNMJ03050
M4	0,7	63	13	4,5	3,4	3,3	3,4	HLF151TNM04070	HLF151TNMJ04070
M5	0,8	70	13	6	4,9	4,2	4,3	HLF151TNM05080	HLF151TNMJ05080
M6	1	80	16	6	4,9	5	5,1	HLF151TNM06100	HLF151TNMJ06100
M8	1,25	90	18	8	6,2	6,8	7,1	HLF151TNM08125	HLF151TNMJ08125
M10	1,5	100	20	10	8	8,5	9,1	HLF151TNM10150	HLF151TNMJ10150
M12	1,75	110	25	9	7	10,3	10,4	HLF151TNM12175	HLF151TNMJ12175
M16	2	110	28	12	9	14	14,2	HLF151TNM16200	HLF151TNMJ16200

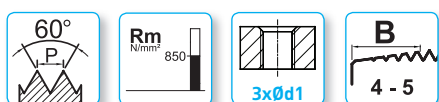
M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

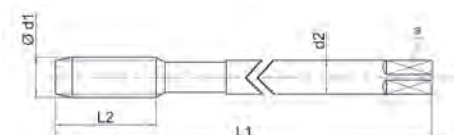
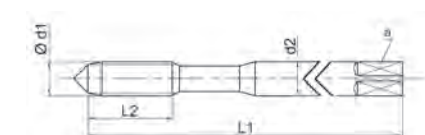
Extra Lang
Extra Long

HSSE



Neuwerk

Neuwerk



Bestell - Nr. - Cat. No.	420ELTN			
Norm - Standard	Neuwerk			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	TL			
Toleranz - Tolerance	6H/ISO2			
Anschnittform - Chamfer form	B/4-5			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4			
	2.1 - 2.2 - 3.3 - 3.4			
	4.2 - 4.3			
	5.2			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M6	1	160	18	6	4,9	5	420ELTNM06100
M8	1,25	180	20	8	6,2	6,8	420ELTNM08125
M10	1,5	180	20	10	8	8,5	420ELTNM10150
M12	1,75	225	24	9	7	10,3	420ELTNM12175
M16	2	225	32	12	9	14	420ELTNM16200

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 15°
Spiral flutes 15°



H15



H15VA



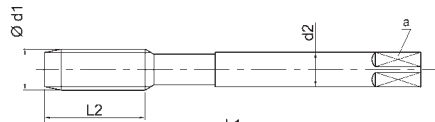
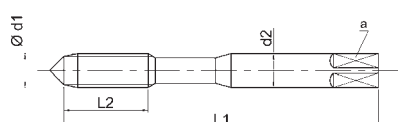
H15T

HSSE



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H15	H15VA	H15T	
Norm - Standard	DIN 371/376	DIN 371/376	DIN 371/376	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	6H	6H	6H	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	
	5.1 - 5.2	5.1 - 5.2	4.1 - 4.2 - 4.3	
		6.1 - 7.1	5.1 - 5.2	

Ød1	p	L1	L2	Ød2	a		Identnummer - Code		
M2	0,4	45	10	2,8	2,1	1,6	H15M02040	H15VAM02040	H15TM02040
M3	0,5	56	10	3,5	2,7	2,5	H15M03050	H15VAM03050	H15TM03050
M4	0,7	63	13	4,5	3,4	3,3	H15M04070	H15VAM04070	H15TM04070
M5	0,8	70	13	6	4,9	4,2	H15M05080	H15VAM05080	H15TM05080
M6	1	80	16	6	4,9	5	H15M06100	H15VAM06100	H15TM06100
M8	1,25	90	18	8	6,2	6,8	H15M08125	H15VAM08125	H15TM08125
M10	1,5	100	20	10	8	8,5	H15M10150	H15VAM10150	H15TM10150
M12	1,75	110	25	9	7	10,3	H15M12175	H15VAM12175	H15TM12175
M14	2	110	28	11	9	12	H15M14200	H15VAM14200	H15TM14200
M16	2	110	28	12	9	14	H15M16200	H15VAM16200	H15TM16200
M18	2,5	125	33	14	11	15,5	H15M18250	H15VAM18250	H15TM18250
M20	2,5	140	33	16	12	17,5	H15M20250	H15VAM20250	H15TM20250
M22	2,5	140	33	18	14,5	19,5	H15M22250	H15VAM22250	H15TM22250
M24	3	160	39	18	14,5	21	H15M24300	H15VAM24300	H15TM24300
M27	3	160	39	20	16	24	H15M27300	H15VAM27300	H15TM27300

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 15°
Spiral flutes 15°

Toleranz: 6G - 6H+0,1
Tolerance: 6G - 6H+0,1

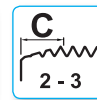
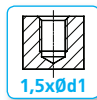
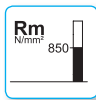
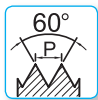
HSSE



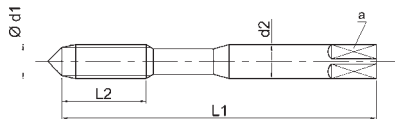
H15-6G



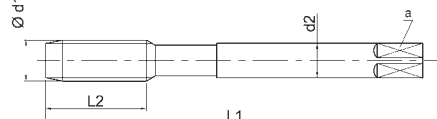
H15-6H+0,1



DIN 371 d1 ≤ 10mm.



DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H15-6G	H15-6H+0,1		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6G	6H+0,1		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	4.1 - 4.2		
	5.1 - 5.2	5.1 - 5.2		

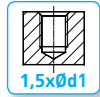
Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M3	0,5	56	10	3,5	2,7	2,5	H15M03050-6G	H15M03050-6H+0,1
M4	0,7	63	13	4,5	3,4	3,3	H15M04070-6G	H15M04070-6H+0,1
M5	0,8	70	13	6	4,9	4,2	H15M05080-6G	H15M05080-6H+0,1
M6	1	80	16	6	4,9	5	H15M06100-6G	H15M06100-6H+0,1
M8	1,25	90	18	8	6,2	6,8	H15M08125-6G	H15M08125-6H+0,1
M10	1,5	100	20	10	8	8,5	H15M10150-6G	H15M10150-6H+0,1
M12	1,75	110	25	9	7	10,3	H15M12175-6G	H15M12175-6H+0,1
M14	2	110	28	11	9	12	H15M14200-6G	H15M14200-6H+0,1
M16	2	110	28	12	9	14	H15M16200-6G	H15M16200-6H+0,1
M18	2,5	125	33	14	11	15,5	H15M18250-6G	H15M18250-6H+0,1
M20	2,5	140	33	16	12	17,5	H15M20250-6G	H15M20250-6H+0,1
M22	2,5	140	33	18	14,5	19,5	H15M22250-6G	H15M22250-6H+0,1
M24	3	160	39	18	14,5	21	H15M24300-6G	H15M24300-6H+0,1
M27	3	160	39	20	16	24	H15M27300-6G	H15M27300-6H+0,1

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

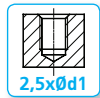
Spiralnuten 15°
Spiral flutes 15°

HOCHFESTE STAHL
HARD MATERIALS



H151TLW

HSSE/PM

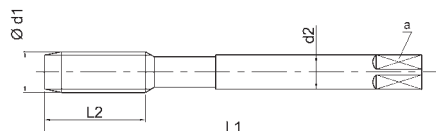
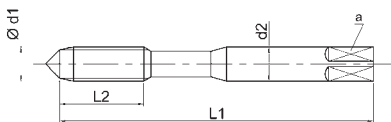


H151TLWKK



DIN 371 $d1 \leq 10\text{mm}$.

DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	H151TLW	H151TLWKK		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TLW	TLW		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.5 - 1.6	1.5 - 1.6		
	3.3 - 3.4	3.3 - 3.4		
	4.4 - 4.5 - 4.6	4.4 - 4.5 - 4.6		
	5.3	5.3		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M3	0,5	56	5	3,5	2,7	2,5	H151TLWM03050	-
M4	0,7	63	7	4,5	3,4	3,3	H151TLWM04070	-
M5	0,8	70	8	6	4,9	4,2	H151TLWM05080	-
M6	1	80	10	6	4,9	5	H151TLWM06100	H151TLWKKM06100
M8	1,25	90	13	8	6,2	6,8	H151TLWM08125	H151TLWKKM08125
M10	1,5	100	15	10	8	8,5	H151TLWM10150	H151TLWKKM10150
M12	1,75	110	18	9	7	10,3	H151TLWM12175	H151TLWKKM12175
M14	2	110	20	11	9	12	H151TLWM14200	H151TLWKKM14200
M16	2	110	20	12	9	14	H151TLWM16200	H151TLWKKM16200

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 15°
Spiral flutes 15°

TITANLEGIERUNGEN TITANIUM ALLOYS

HSSE/PM



ABGERUNDETE PROFIL
WITH ROUNDED CREST



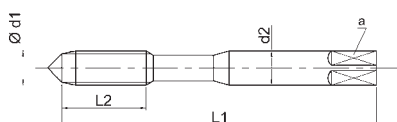
H151TN



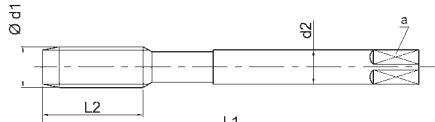
H151TNJ



DIN 371 d1 ≤ 10mm.



DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H151TN	H151TNJ		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TN	TN		
Toleranz - Tolerance	6HX	4H		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.6 - 2.4	6.1		
	3.3 - 3.4			
	4.4 - 5.3 - 5.4 - 6.2 - 6.3			
	7.2 - 9.2			

Ød1	p	L1	L2	Ød2	a		x MJ
M3	0,5	56	5	3,5	2,7	2,5	2,6
M4	0,7	63	7	4,5	3,4	3,3	3,4
M5	0,8	70	8	6	4,9	4,2	4,3
M6	1	80	10	6	4,9	5	5,1
M8	1,25	90	13	8	6,2	6,8	7,1
M10	1,5	100	15	10	8	8,5	9,1
M12	1,75	110	18	9	7	10,3	10,4
M16	2	110	20	12	9	14	14,2

Identnummer - Code	
H151TNM03050	H151TNMJ03050
H151TNM04070	H151TNMJ04070
H151TNM05080	H151TNMJ05080
H151TNM06100	H151TNMJ06100
H151TNM08125	H151TNMJ08125
H151TNM10150	H151TNMJ10150
H151TNM12175	H151TNMJ12175
H151TNM16200	H151TNMJ16200

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 10°
Spiral flutes 10°

NICKELLEGIERUNGEN NICKEL ALLOYS

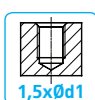
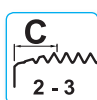
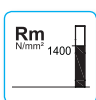
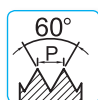


H101NI

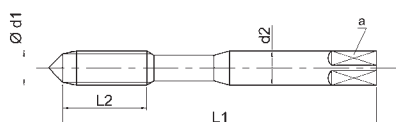
HSSE/PM



H101TNNI



NEUWERK



Bestell - Nr. - Cat. No.	H101NI	H101TNNI		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	-	TN		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	7.3 - 9.3	1.6 - 5.4		
		7.2 - 9.1		

Ød1	p	L1	L2	Ød2	a	
M4	0,7	63	13	4,5	3,4	3,3
M5	0,8	70	15	6	4,9	4,2
M6	1	80	18	6	4,9	5
M8	1,25	90	25	8	6,2	6,8
M10	1,5	100	30	10	8	8,5
M12	1,75	110	30	12	9	10,3

Identnummer - Code	
H101M04070NI	H101TNM04070NI
H101M05080NI	H101TNM05080NI
H101M06100NI	H101TNM06100NI
H101M08125NI	H101TNM08125NI
H101M10150NI	H101TNM10150NI
H101M12175NI	H101TNM12175NI

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 40°
Spiral Flutes 40°

HSSE



H40



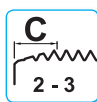
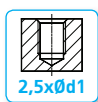
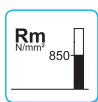
H40VA



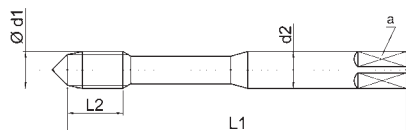
H40T



H40TLW



DIN 371



Bestell - Nr. - Cat. No.	H40	H40VA	H40T	H40TLW
Norm - Standard	DIN 371	DIN 371	DIN 371	DIN 371
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	6H/ISO2
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	C/2-3

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2 - 4.3	3.3 - 3.4 - 4.1 - 4.2 - 4.3	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	4.2 - 4.3
				5.2

Ød1	p	L1	L2	Ød2	a		Identnummer - Code			
M2	0,4	45	7	2,8	2,1	1,6	H40M02040	H40VAM02040	H40TM02040	-
M3	0,5	56	5	3,5	2,7	2,5	H40M03050	H40VAM03050	H40TM03050	H40TLWM03050
M4	0,7	63	7	4,5	3,4	3,3	H40M04070	H40VAM04070	H40TM04070	H40TLWM04070
M5	0,8	70	8	6	4,9	4,2	H40M05080	H40VAM05080	H40TM05080	H40TLWM05080
M6	1	80	10	6	4,9	5	H40M06100	H40VAM06100	H40TM06100	H40TLWM06100
M8	1,25	90	13	8	6,2	6,8	H40M08125	H40VAM08125	H40TM08125	H40TLWM08125
M10	1,5	100	15	10	8	8,5	H40M10150	H40VAM10150	H40TM10150	H40TLWM10150

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 40°
Spiral Flutes 40°



H40



H40VA

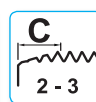
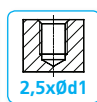
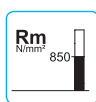
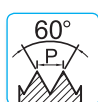


H40T

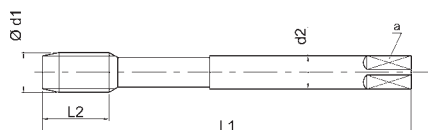


H40TLW

HSSE



DIN 376



Bestell - Nr. - Cat. No.	H40	H40VA	H40T	H40TLW
Norm - Standard	DIN 376	DIN 376	DIN 376	DIN 376
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	6H/ISO2
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	C/2-3

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2 - 4.3	3.3 - 3.4 - 4.1 - 4.2 - 4.3	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	4.2 - 4.3
				5.2

Ød1	p	L1	L2	Ød2	a	
M8	1,25	90	13	6	4,9	6,8
M10	1,5	100	15	7	5,5	8,5
M12	1,75	110	18	9	7	10,3
M14	2	110	20	11	9	12
M16	2	110	20	12	9	14
M18	2,5	125	25	14	11	15,5
M20	2,5	140	25	16	12	17,5
M22	2,5	140	25	18	14,5	19,5
M24	3	160	30	18	14,5	21
M27	3	160	30	20	16	24

Identnummer - Code			
H40RSM08125	H40RSVAM08125	H40RSTM08125	H40RSTLWM08125
H40RSM10150	H40RSVAM10150	H40RSTM10150	H40RSTLWM10150
H40M12175	H40VAM12175	H40TM12175	H40TLWM12175
H40M14200	H40VAM14200	H40TM14200	H40TLWM14200
H40M16200	H40VAM16200	H40TM16200	H40TLWM16200
H40M18250	H40VAM18250	H40TM18250	H40TLWM18250
H40M20250	H40VAM20250	H40TM20250	H40TLWM20250
H40M22250	H40VAM22250	H40TM22250	H40TLWM22250
H40M24300	H40VAM24300	H40TM24300	H40TLWM24300
H40M27300	H40VAM27300	H40TM27300	H40TLWM27300

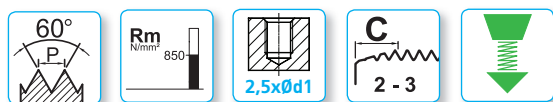
M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 40°
Spiral Flutes 40°

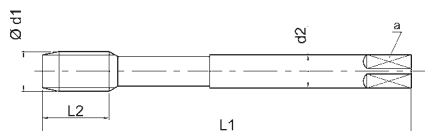
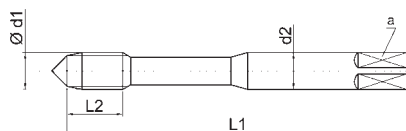
Toleranz: 6G - 6H+0,1
Tolerance: 6G - 6H+0,1

HSSE



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H40-6G	H40-6H+0,1		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6H/ISO3	6H+0,1		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	5	3,5	2,7	2,5
M4	0,7	63	7	4,5	3,4	3,3
M5	0,8	70	8	6	4,9	4,2
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5
M12	1,75	110	18	9	7	10,3
M14	2	110	20	11	9	12
M16	2	110	20	12	9	14

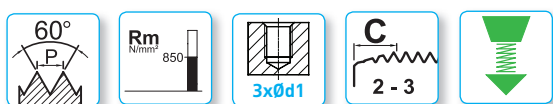
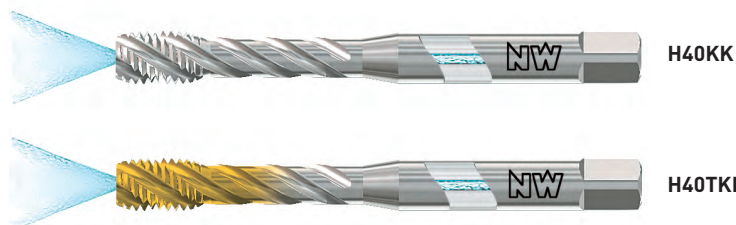
Identnummer - Code	
H40M03050-6G	H40M03050-6H+0,1
H40M04070-6G	H40M04070-6H+0,1
H40M05080-6G	H40M05080-6H+0,1
H40M06100-6G	H40M06100-6H+0,1
H40M08125-6G	H40M08125-6H+0,1
H40M10150-6G	H40M10150-6H+0,1
H40M12175-6G	H40M12175-6H+0,1
H40M14200-6G	H40M14200-6H+0,1
H40M16200-6G	H40M16200-6H+0,1

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

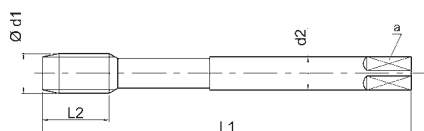
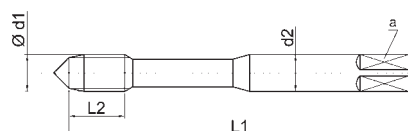
Spiralnuten 40°
Spiral Flutes 40°

HSSE



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H40KK	H40TKK		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	T		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a	
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5
M12	1,75	110	18	9	7	10,3
M14	2	110	20	11	9	12
M16	2	110	20	12	9	14
M18	2,5	125	25	14	11	15,5
M20	2,5	140	25	16	12	17,5
M22	2,5	140	25	18	14,5	19,5
M24	3	160	30	18	14,5	21

Identnummer - Code	
H40KKM06100	H40TKKM06100
H40KKM08125	H40TKKM08125
H40KKM10150	H40TKKM10150
H40KKM12175	H40TKKM12175
H40KKM14200	H40TKKM14200
H40KKM16200	H40TKKM16200
H40KKM18250	H40TKKM18250
H40KKM20250	H40TKKM20250
H40KKM22250	H40TKKM22250
H40KKM24300	H40TKKM24300

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

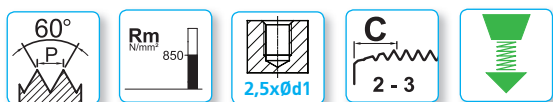
Spiralnuten 40°
Spiral Flutes 40°

Extra Lang
Extra Long

HSSE

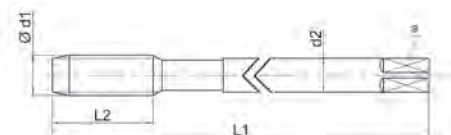
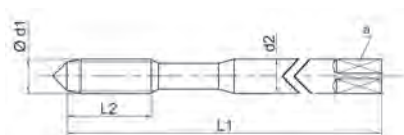


H40ELTN



~ DIN371 x d1 ≤ 10mm

~ DIN376 x d1 ≥ 12mm



Bestell - Nr. - Cat. No.	H40ELTN			
Norm - Standard	NEUWERK			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	TN			
Toleranz - Tolerance	6H/ISO2			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4			
	2.1 - 2.2 - 3.3 - 3.4			
	4.2 - 4.3			
	5.2			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M6	1	160	10	6	4,9	5	H40ELTNM06100
M8	1,25	180	13	8	6,2	6,8	H40ELTNM08125
M10	1,5	180	16	10	8	8,5	H40ELTNM10150
M12	1,75	225	23	9	7	10,3	H40ELTNM12175
M16	2	225	23	12	9	14	H40ELTNM16200

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 45°
Spiral Flutes 45°

HSSE



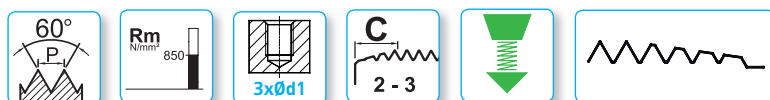
H45



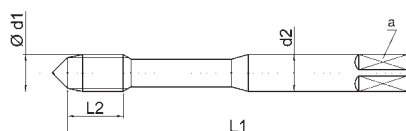
H45VA



H45T



DIN 371



Bestell - Nr. - Cat. No.	H45	H45VA	H45T	
Norm - Standard	DIN 371	DIN 371	DIN 371	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4 - 1.5	
	4.2	2.1 - 2.2	4.3	
	5.1 - 5.2		5.2	

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	5	3,5	2,7	2,5
M4	0,7	63	7	4,5	3,4	3,3
M5	0,8	70	8	6	4,9	4,2
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5

Identnummer - Code		
H45M03050	H45VAM03050	H45TM03050
H45M04070	H45VAM04070	H45TM04070
H45M05080	H45VAM05080	H45TM05080
H45M06100	H45VAM06100	H45TM06100
H45M08125	H45VAM08125	H45TM08125
H45M10150	H45VAM10150	H45TM10150

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

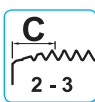
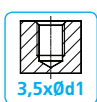
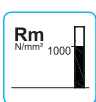
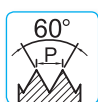
Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Blauer Ring Mit Gerade Spiralnuten 48°
Blue Ring Spiral Flutes 48°

HSSV3

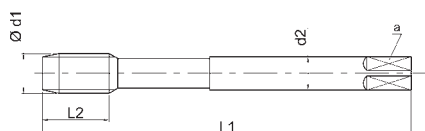
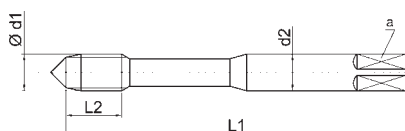


Superb-48° - x INOX
H42TLW



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H42TLW			
Norm - Standard	DIN 371/376			
Schneidstoff - Tool material	HSSV3			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	6HX			
Anschnittform - Chamfer form	C/2-3			

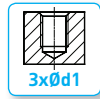
Einsatzgebiet - Application	1.3 - 1.4 - 1.5			
	2.1 - 2.2 - 2.3 - 2.4			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M3	0,5	56	5	3,5	2,7	2,5	H42TLWM03050
M4	0,7	63	7	4,5	3,4	3,3	H42TLWM04070
M5	0,8	70	8	6	4,9	4,2	H42TLWM05080
M6	1	80	10	6	4,9	5	H42TLWM06100
M8	1,25	90	13	8	6,2	6,8	H42TLWM08125
M10	1,5	100	15	10	8	8,5	H42TLWM10150
M12	1,75	110	18	9	7	10,3	H42TLWM12175
M14	2	110	20	11	9	12	H42TLWM14200
M16	2	110	20	12	9	14	H42TLWM16200
M18	2,5	125	25	14	11	15,5	H42TLWM18250
M20	2,5	140	25	16	12	17,5	H42TLWM20250

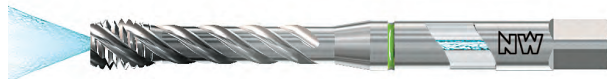
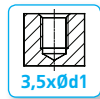
M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

Grün Ring Mit Gerade Spiralnuten 45°
Green Ring Spiral Flutes 45°

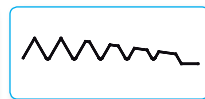


Universal 45°
H41TW



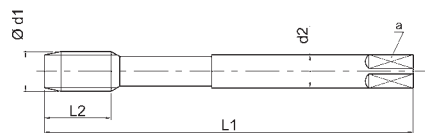
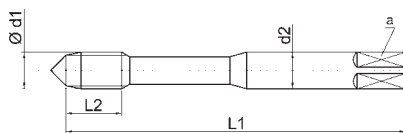
Universal 45°
H41TWKK

HSSE/PM



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H41TW	H41TWKK		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TW	TW		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	3.3 - 3.4 - 4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3		
	5.2	5.2		

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	5	3,5	2,7	2,5
M4	0,7	63	7	4,5	3,4	3,3
M5	0,8	70	8	6	4,9	4,2
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5
M12	1,75	110	18	9	7	10,3
M14	2	110	20	11	9	12
M16	2	110	20	12	9	14
M18	2,5	125	25	14	11	15,5
M20	2,5	140	25	16	12	17,5

Identnummer - Code	
H41TWM03050	-
H41TWM04070	-
H41TWM05080	-
H41TWM06100	H41TWKKM06100
H41TWM08125	H41TWKKM08125
H41TWM10150	H41TWKKM10150
H41TWM12175	H41TWKKM12175
H41TWM14200	H41TWKKM14200
H41TWM16200	H41TWKKM16200
H41TWM18250	H41TWKKM18250
H41TWM20250	H41TWKKM20250

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Roter Ring Mit Gerade Spiralnuten 40°
Red Ring Spiral Flutes 40°

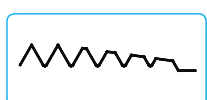
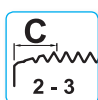
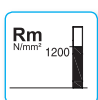
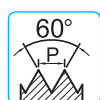
HSSE/PM



Hard - 40°
H41TLW

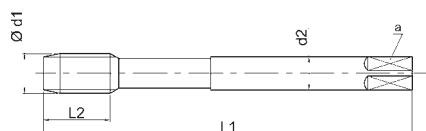
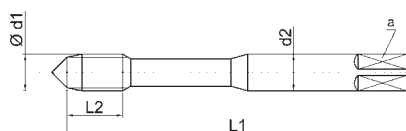


Hard - 40°
H41TLWKK



DIN 371 d1 ≤ 10mm.

DIN 376 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H41TLW	H41TLWKK		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TLW	TLW		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.4 - 1.5	1.4 - 1.5		
	3.3 - 3.4	3.3 - 3.4		

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	5	3,5	2,7	2,5
M4	0,7	63	7	4,5	3,4	3,3
M5	0,8	70	8	6	4,9	4,2
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5
M12	1,75	110	18	9	7	10,3
M14	2	110	20	11	9	12
M16	2	110	20	12	9	14

Identnummer - Code	
H41TLWM03050	-
H41TLWM04070	-
H41TLWM05080	-
H41TLWM06100	H41TLWKKM06100
H41TLWM08125	H41TLWKKM08125
H41TLWM10150	H41TLWKKM10150
H41TLWM12175	H41TLWKKM12175
H41TLWM14200	H41TLWKKM14200
H41TLWM16200	H41TLWKKM16200

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 40°
Spiral Flutes 40°

LINKSGEWINDE
LEFT THREADING

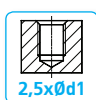
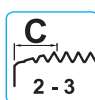
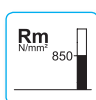
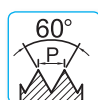


H40LH

HSSE

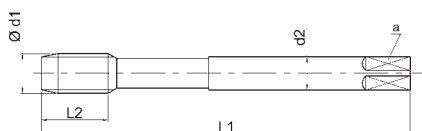
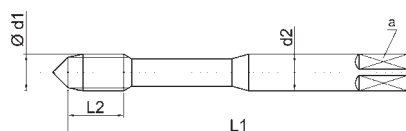


H40TWH



DIN 371 $d_1 \leq 10\text{mm}$.

DIN 376 $d_1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	H40LH	H40TWH		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TW		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	2.1 - 2.2 - 3.3 - 3.4		
	5.1 - 5.2	4.2 - 4.3		
		5.2		

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	5	3,5	2,7	2,5
M4	0,7	63	7	4,5	3,4	3,3
M5	0,8	70	8	6	4,9	4,2
M6	1	80	10	6	4,9	5
M8	1,25	90	13	8	6,2	6,8
M10	1,5	100	15	10	8	8,5
M12	1,75	110	18	9	7	10,3
M14	2	110	20	11	9	12
M16	2	110	20	12	9	14

Identnummer - Code	
H40M03050LH	H40TWM03050LH
H40M04070LH	H40TWM04070LH
H40M05080LH	H40TWM05080LH
H40M06100LH	H40TWM06100LH
H40M08125LH	H40TWM08125LH
H40M10150LH	H40TWM10150LH
H40M12175LH	H40TWM12175LH
H40M14200LH	H40TWM14200LH
H40M16200LH	H40TWM16200LH

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelfgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 45°
Spiral Flutes 45°

HSSE



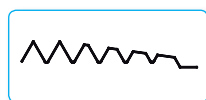
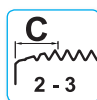
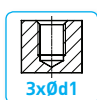
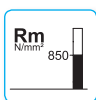
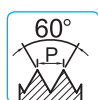
H46T



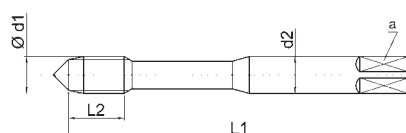
H46TLW



H46TKK



DIN 371



Bestell - Nr. - Cat. No.	H46T	H46TLW	H46TKK	
Norm - Standard	DIN 371	DIN 371	DIN 371	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	T	TLW	T	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5	
	4.3	2.1 - 2.2 - 2.3	4.3	
	5.2		5.2	

Ød1	p	L1	L2	Ød2	a		Identnummer - Code		
M3	0,5	56	5	3,5	2,7	2,5	H46TM03050	H46TLWM03050	-
M4	0,7	63	7	4,5	3,4	3,3	H46TM04070	H46TLWM04070	-
M5	0,8	70	8	6	4,9	4,2	H46TM05080	H46TLWM05080	-
M6	1	80	10	6	4,9	5	H46TM06100	H46TLWM06100	H46TKKM06100
M8	1,25	90	13	8	6,2	6,8	H46TM08125	H46TLWM08125	H46TKKM08125
M10	1,5	100	15	10	8	8,5	H46TM10150	H46TLWM10150	H46TKKM10150

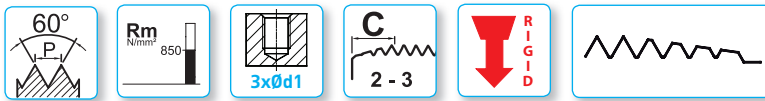
M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

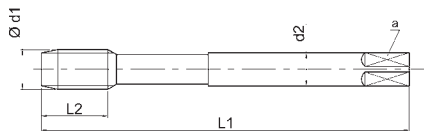
Spiralnuten 45°
Spiral Flutes 45°



HSSE 



DIN 376



Bestell - Nr. - Cat. No.	H46T	H46TLW	H46TKK	
Norm - Standard	DIN 376	DIN 376	DIN 376	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	T	TLW	T	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5	
	4.3	2.1 - 2.2 - 2.3	4.3	
	5.2		5.2	

Ød1	p	L1	L2	Ød2	a		Identnummer - Code		
M12	1,75	110	18	9	7	10,3	H46TM12175	H46TLWM12175	H46TKKM12175
M14	2	110	20	11	9	12	H46TM14200	H46TLWM14200	H46TKKM14200
M16	2	110	20	12	9	14	H46TM16200	H46TLWM16200	H46TKKM16200
M18	2,5	125	25	14	11	15,5	H46TM18250	H46TLWM18250	H46TKKM18250
M20	2,5	140	25	16	12	17,5	H46TM20250	H46TLWM20250	H46TKKM20250
M22	2,5	140	25	18	14,5	19,5	H46TM22250	H46TLWM22250	H46TKKM22250
M24	3	160	30	18	14,5	21	H46TM24300	H46TLWM24300	H46TKKM24300

M MASCHINENGWINDEBOHRER - MACHINE TAPS

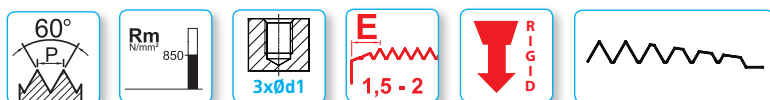
Metrisches ISO - Regeltgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 45°
Spiral Flutes 45°

HSSE

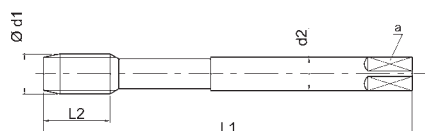
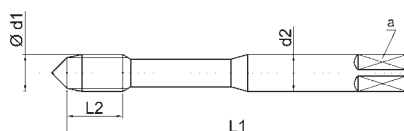


H46TLWE



DIN 371 $d1 \leq 10\text{mm}$.

DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	H46TLWE			
Norm - Standard	DIN 371/376			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	6HX			
Anschnittform - Chamfer form	E			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5			
	2.1 - 2.2 - 2.3			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
M3	0,5	56	5	3,5	2,7	2,5	H46TLWEM03050
M4	0,7	63	7	4,5	3,4	3,3	H46TLWEM04070
M5	0,8	70	8	6	4,9	4,2	H46TLWEM05080
M6	1	80	10	6	4,9	5	H46TLWEM06100
M8	1,25	90	13	8	6,2	6,8	H46TLWEM08125
M10	1,5	100	15	10	8	8,5	H46TLWEM10150
M12	1,75	110	18	9	7	10,3	H46TLWEM12175
M14	2	110	20	11	9	12	H46TLWEM14200
M16	2	110	20	12	9	14	H46TLWEM16200

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Spiralnuten 45°
Spiral Flutes 45°

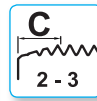
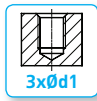
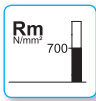
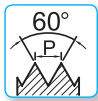
HSSE 



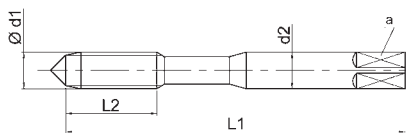
H45-AL



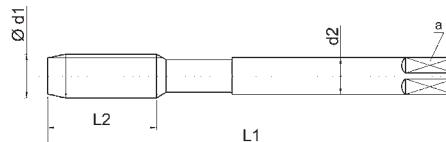
H45TLW-AL



DIN 371 $d1 \leq 10\text{mm}$.



DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	H45-AL	H45TLW-AL		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TLW		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 4.1 - 4.2	1.1 - 4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		
	6.1 - 7.1			
	8.1			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M3	0,5	56	10	3,5	2,7	2,5	H45M03050-AL	H45TLWM03050-AL
M4	0,7	63	13	4,5	3,4	3,3	H45M04070-AL	H45TLWM04070-AL
M5	0,8	70	13	6	4,9	4,2	H45M05080-AL	H45TLWM05080-AL
M6	1	80	16	6	4,9	5	H45M06100-AL	H45TLWM06100-AL
M8	1,25	90	18	8	6,2	6,8	H45M08125-AL	H45TLWM08125-AL
M10	1,5	100	20	10	8	8,5	H45M10150-AL	H45TLWM10150-AL
M12	1,75	110	25	9	7	10,3	H45M12175-AL	H45TLWM12175-AL
M14	2	110	28	11	9	12	H45M14200-AL	H45TLWM14200-AL
M16	2	110	28	12	9	14	H45M16200-AL	H45TLWM16200-AL

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Gewindeformer
Roll Taps

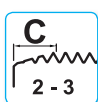
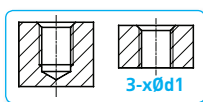
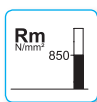
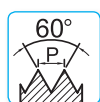
HSSE-CO



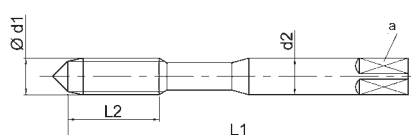
GF0WFT (OHNE KANÄLEN)



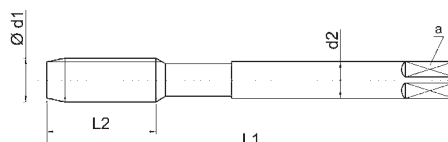
GF0T (MIT KANÄLEN)



DIN 371 $d1 \leq 10\text{mm}$.



DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	GF0WFT	GF0T		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE-CO	HSSE-CO		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	4.1 - 4.2 - 4.3	4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	10	3,5	2,7	2,8
M4	0,7	63	13	4,5	3,4	3,7
M5	0,8	70	13	6	4,9	4,65
M6	1	80	16	6	4,9	5,55
M8	1,25	90	18	8	6,2	7,4
M10	1,5	100	20	10	8	9,3
M12	1,75	110	25	9	7	11,2
M14	2	110	28	11	9	13,1
M16	2	110	28	12	9	15,1

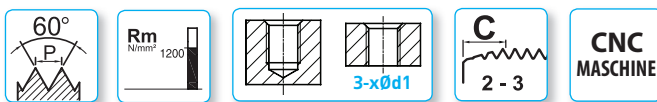
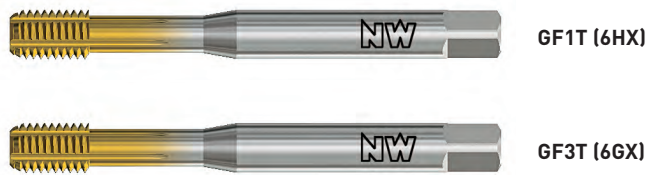
Identnummer - Code	
GF0WFTM03050	GF0TM03050
GF0WFTM04070	GF0TM04070
GF0WFTM05080	GF0TM05080
GF0WFTM06100	GF0TM06100
GF0WFTM08125	GF0TM08125
GF0WFTM10150	GF0TM10150
GF0WFTM12175	GF0TM12175
GF0WFTM14200	GF0TM14200
GF0WFTM16200	GF0TM16200

M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

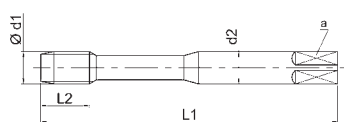
Gewindeformer
Roll Taps

HSSE/PM



DIN 371 $d1 \leq 10\text{mm}$.

DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	GF1T	GF3T		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6GX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	p	L1	L2	Ød2	a	
M3	0,5	56	5	3,5	2,7	2,8
M4	0,7	63	7	4,5	3,4	3,7
M5	0,8	70	8	6	4,9	4,65
M6	1	80	10	6	4,9	5,55
M8	1,25	90	13	8	6,2	7,4
M10	1,5	100	15	10	8	9,3
M12	1,75	110	18	9	7	11,2
M14	2	110	20	11	9	13,1
M16	2	110	20	12	9	15,1

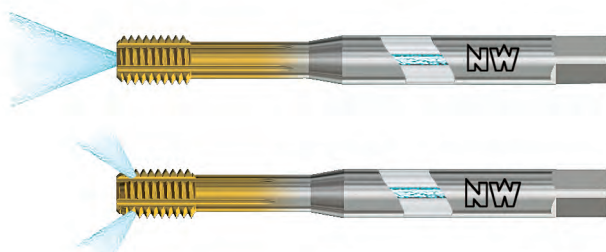
Identnummer - Code	
GF1TM03050	GF3TM03050
GF1TM04070	GF3TM04070
GF1TM05080	GF3TM05080
GF1TM06100	GF3TM06100
GF1TM08125	GF3TM08125
GF1TM10150	GF3TM10150
GF1TM12175	GF3TM12175
GF1TM14200	GF3TM14200
GF1TM16200	GF3TM16200

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

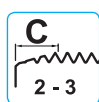
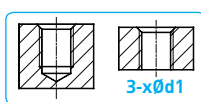
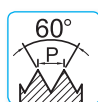
Gewindeformer
Roll Taps

HSSE/PM



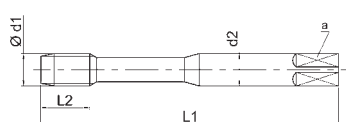
GF1TKK (6HX)

GF1TRKK (6HX)



DIN 371 $d1 \leq 10\text{mm}$.

DIN 376 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	GF1TKK	GF1TRKK		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	p	L1	L2	Ød2	a	
M6	1	80	10	6	49	5,55
M8	1,25	90	13	8	6,2	7,4
M10	1,5	100	15	10	8	9,3
M12	1,75	110	18	9	7	11,2
M14	2	110	20	11	9	13,1
M16	2	110	20	12	9	15,1

Identnummer - Code	
GF1TKKM06100	GF1TRKKM06100
GF1TKKM08125	GF1TRKKM08125
GF1TKKM10150	GF1TRKKM10150
GF1TKKM12175	GF1TRKKM12175
GF1TKKM14200	GF1TRKKM14200
GF1TKKM16200	GF1TRKKM16200

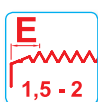
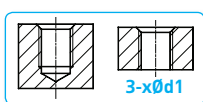
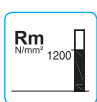
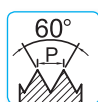
M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

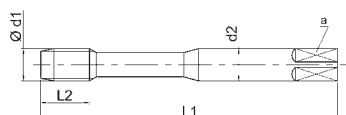
Gewindeformer
Roll Taps



HSSE/PM



DIN 371



Bestell - Nr. - Cat. No.	GF1TE	GF1TKKE		
Norm - Standard	DIN 371	DIN 371		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	E	E		

Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
M6	1	80	10	6	49	5,55	GF1TEM06100	GF1TKKEM06100
M8	1,25	90	13	8	6,2	7,4	GF1TEM08125	GF1TKKEM08125
M10	1,5	100	15	10	8	9,3	GF1TEM10150	GF1TKKEM10150

M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Regelgewinde DIN 13
ISO Metric coarse thread DIN 13

Maschinen-Kombi-Gewindebohrer
Kombi Machine Taps

HSSE



T&D



T&DTW



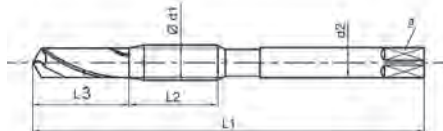
T&D-AL



T&DTW-AL



NEUWERK



Bestell - Nr. - Cat. No.	T&D	T&DTW	T&D-AL	T&DTW-AL
Norm - Standard	NEUWERK	NEUWERK	NEUWERK	NEUWERK
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	TW	-	TW
Toleranz - Tolerance	ISO2/6H	ISO2/6H	ISO2/6H	ISO2/6H
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	C/2-3

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	4.1 - 4.2 - 5.1 - 5.2	4.1 - 4.2 - 5.1 - 5.2
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3	8.1	8.1
	5.2 - 5.3	5.2 - 5.3		

Ød1	p	L1	L2	L3	Ød2	a	Identnummer - Code			
M4	0,7	69	11	11	4,5	3,4	T&DM04070	T&DTWM04070	T&DM04070-AL	T&DTWM04070-AL
M5	0,8	81,5	11	12	6	4,9	T&DM05080	T&DTWM05080	T&DM05080-AL	T&DTWM05080-AL
M6	1	82,5	13	13	6	4,9	T&DM06100	T&DTWM06100	T&DM06100-AL	T&DTWM06100-AL
M8	1,25	101	14	18	6	4,9	T&DM08125	T&DTWM08125	T&DM08125-AL	T&DTWM08125-AL
M10	1,5	107	15	24	7	5,5	T&DM10150	T&DTWM10150	T&DM10150-AL	T&DTWM10150-AL
M12	1,75	120	17	25	9	7	T&DM12175	T&DTWM12175	T&DM12175-AL	T&DTWM12175-AL

GEWINDE - KERNLOCH-Ø UND KERN-Ø MUTTERGEWINDE

TAPPING DRILL SIZES FOR CUTTING TAPS

M	P mm		Muttergewinde Kern Ø min	Muttergewinde Kern Ø max
*M 1	0,25	0,75	0,729	0,785
*M 1,1	0,25	0,85	0,829	0,885
*M 1,2	0,25	0,95	0,929	0,985
*M 1,4	0,30	1,10	1,075	1,142
M 1, 6	0,35	1,25	1,221	1,321
M 1,70	,35	1,35	1,321	1,421
M 1,8	0,35	1,45	1,421	1,521
M 2	0,40	1,60	1,567	1,679
M 2,2	0,45	1,75	1,713	1,838
M 2,3	0,4	1,90	1,813	1,938
M 2,5	0,45	2,05	2,013	2,138
M 2,6	0,45	2,10	2,113	2,238
M 3	0,50	2,50	2,459	2,599
M 3,5	0,60	2,90	2,850	3,010
M 4	0,70	3,30	3,242	3,422
M 4, 5	0,75	3,70	3,688	3,878
M 5	0,80	4,20	4,134	4,334
M 6	1,00	5,00	4,917	5,153
M 7	1,00	6,00	5,917	6,153
M 8	1,25	6,80	6,647	6,912
M 9	1,25	7,80	7,647	7,912
M 10	1,50	8,50	8,376	8,676
M 11	1,50	9,50	9,376	9,676
M 12	1,75	10,30	10,106	10,441
M 14	2,00	12,00	11,835	12,210
M 16	2,00	14,00	13,835	14,210
M 18	2,50	15,50	15,294	15,744
M 20	2,50	17,50	17,294	17,744
M 22	2,50	19,50	19,294	19,744
M 24	3,00	21,00	20,752	21,252
M 27	3,00	24,00	23,752	24,252
M 30	3,50	26,50	26,211	26,771
M 33	3,50	29,50	29,211	29,771
M 36	4,00	32,00	31,670	32,270
M 39	4,00	35,00	34,670	35,270
M 42	4,50	37,50	37,129	37,799
M 45	4,50	40,50	40,129	40,799
M 48	5,00	43,00	42,587	43,297
M 52	5,00	47,00	46,587	47,297
M 56	5,50	50,50	50,046	50,796
M 60	5,50	54,50	54,046	54,796
M 64	6,00	58,00	57,505	58,308
M 68	6,00	62,00	61,505	62,305

* Toleranz - Tolerance: 5H

Luft- und Raumfahrtgewinde

Aerospace threads

MJ	P mm		Muttergewinde Kern Ø min	Muttergewinde Kern Ø max
*MJ 3	0,50	2,60	2,513	2,653
*MJ 4	0,70	3,40	3,318	3,498
*MJ 5	0,80	4,30	4,221	4,421
MJ 6	1	5,10	5,026	5,216
MJ 8	1	7,10	7,026	7,216
MJ 8	1,25	6,90	6,782	6,994
MJ 10	1	9,10	9,026	9,216
MJ 10	1,25	8,90	8,782	8,994
MJ 10	1,5	8,60	8,539	8,775
MJ 12	1,25	10,90	10,782	10,994
MJ 12	1,5	10,60	10,539	10,775
MJ 12	1,75	10,40	10,295	10,560
MJ 14	1,5	12,60	12,539	12,775
MJ 14	2	12,20	12,051	12,351
MJ 16	1,5	14,60	14,539	14,775
MJ 16	2	14,20	14,051	14,351

* Toleranz - Tolerance: 5H

GEWINDE-VORBOHRDURCHMESSER

GEWINDEFORMEN

THREAD PILOT HOLE DIAMETERS

THREAD FORMING

M	P mm		Toll.
2	0,4	1,82	± 0,02
2,2	0,45	2,00	± 0,02
2,3	0,4	2,1	± 0,02
2,5	0,45	2,30	± 0,02
2,6	0,45	2,40	± 0,02
3	0,5	2,8	± 0,03
3,5	0,6	3,25	± 0,03
4	0,7	3,70	± 0,03
5	0,8	4,65	± 0,03
6	1	5,55	± 0,05
8	1,25	7,40	± 0,05
10	1,5	9,30	± 0,05
12	1,75	11,20	± 0,05
14	2	13,10	± 0,05
16	2	15,10	± 0,05
18	2,5	16,90	± 0,05
20	2,5	18,90	± 0,05
22	2,5	20,90	± 0,05
24	3	22,70	± 0,05

NOTIZIEN
NOTE

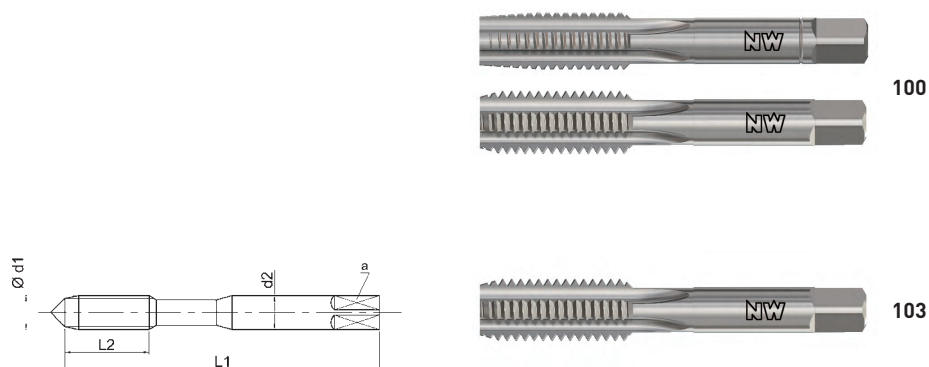


MASCHINENGWINDEBOHRER
MACHINE TAPS



MF HANGEWINDEBOHRER - HAND TAPS

Metrisches ISO-Feingewinde DIN 13 - Handgewindebohrer
ISO metric fine thread DIN13



Bestell - Nr. - Cat. No.	100	103		
Norm - Standard	DIN 2181	DIN 2181		
Schneidstoff - Tool material	HSS	HSS		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	-	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	2.1 - 2.2 - 2.3 - 3.1 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.4		
	4.1 - 4.2 - 4.3 - 4.4	4.1 - 4.2 - 4.3 - 4.4		
	5.1 - 5.2 - 5.3	5.1 - 5.2 - 5.3		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF6	0,75	56	15	6	4,9	5,25	100MF06075	103MF06075
MF8	1	63	19	6	4,9	7	100MF08100	103MF08100
MF10	1	63	20	7	5,5	9	100MF10100	103MF10100
MF10	1,25	70	22	7	5,5	8,75	100MF10125	103MF10125
MF12	1,25	70	22	9	7	10,75	100MF12125	103MF12125
MF12	1,5	70	22	9	7	10,5	100MF12150	103MF12150
MF14	1,5	70	22	11	9	12,5	100MF14150	103MF14150
MF16	1,5	70	22	12	9	14,5	100MF16150	103MF16150
MF18	1,5	80	22	14	11	16,5	100MF18150	103MF18150
MF20	1,5	80	22	16	12	18,5	100MF20150	103MF20150
MF22	1,5	80	22	18	14,5	20,5	100MF22150	103MF22150
MF24	1,5	90	22	18	14,5	22,5	100MF24150	103MF24150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Gerade genutet
Straight flute

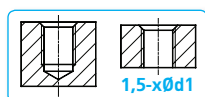


SF

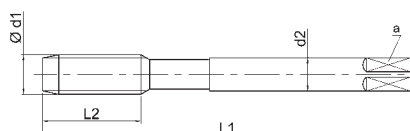


SFLH

HSSE



DIN 374



Bestell - Nr. - Cat. No.	SF	SFLH		
Norm - Standard	DIN 374	DIN 374		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.4	3.4		
	4.2 - 4.3	4.2 - 4.3		
	5.2 - 5.3 - 8.2	5.2 - 5.3 - 8.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF6	0,75	80	16	4,5	3,4	5,25	SFRSMF06075	SFRSMF06075LH
MF8	1	90	18	6	4,9	7	SFRSMF08100	SFRSMF08100LH
MF10	1	90	15	7	5,5	9	SFRSMF10100	SFRSMF10100LH
MF10	1,25	100	20	7	5,5	8,75	SFRSMF10125	SFRSMF10125LH
MF12	1,25	100	22	9	7	10,75	SFMF12125	SFMF12125LH
MF12	1,5	100	22	9	7	10,5	SFMF12150	SFMF12150LH
MF14	1,5	100	22	11	9	12,5	SFMF14150	SFMF14150LH
MF16	1,5	100	22	12	9	14,5	SFMF16150	SFMF16150LH
MF18	1,5	110	25	14	11	16,5	SFMF18150	SFMF18150LH
MF20	1,5	125	25	16	12	18,5	SFMF20150	SFMF20150LH
MF22	1,5	125	25	18	14,5	20,5	SFMF22150	-
MF24	1,5	140	25	18	14,5	22,5	SFMF24150	-
MF27	1,5	140	25	20	16	25,5	SFMF27150	-
MF30	2	150	28	22	18	28	SFMF30200	-

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

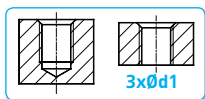
Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Synkronisiertes Threading
Synchronized Threading

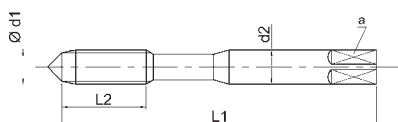
HSSE/PM



SRSFTLW



~ DIN 371



Bestell - Nr. - Cat. No.	SRSFTLW			
Norm - Standard	~ DIN 371			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	6HX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.5 - 1.6 - 3.1 - 3.2 - 3.3 - 3.4 - 3.5			
	4.3 - 4.4 - 4.5 - 4.6			
	5.3 - 5.4 - 8.2 - 8.3			
	10.1			

Ød1	p	L1	L2	Ød2 - h6	a		Identnummer - Code
MF8	1	90	13	8	6,2	7	SRSFTLWMF08100
MF10	1	100	15	10	8	9	SRSFTLWMF10100
MF10	1,25	100	15	10	8	8,75	SRSFTLWMF10125
MF12	1,25	110	18	12	9	10,75	SRSFTLWMF12125
MF12	1,5	110	18	12	9	10,5	SRSFTLWMF12150
MF14	1,5	110	20	12	9	12,5	SRSFTLWMF14150
MF16	1,5	110	20	16	12	14,5	SRSFTLWMF16150

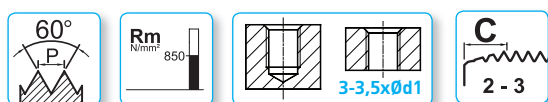
MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

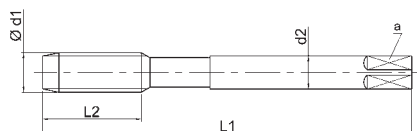
Gerade genutet für Guss
Straight flute for Cast Iron



HSSE



DIN 374



Bestell - Nr. - Cat. No.	620TN	620TNKK		
Norm - Standard	DIN 374	DIN 374		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	TN	TN		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	3.1 - 3.2 - 3.3 - 3.4 - 3.5	3.1 - 3.2 - 3.3 - 3.4 - 3.5		
	4.3 - 4.4 - 4.5 - 4.6	4.3 - 4.4 - 4.5 - 4.6		
	5.3 - 8.2	5.3 - 8.2		
	10.1	10.1		

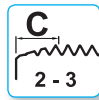
Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF8	1	90	18	6	4,9	7	620TNMF08100	620TNKKMF08100
MF10	1	90	15	7	5,5	9	620TNMF10100	620TNKKMF10100
MF10	1,25	100	20	7	5,5	8,75	620TNMF10125	620TNKKMF10125
MF12	1,25	100	22	9	7	10,75	620TNMF12150	620TNKKMF12150
MF14	1,5	100	22	11	9	12,5	620TNMF14150	620TNKKMF14150
MF16	1,5	100	22	12	9	14,5	620TNMF16150	620TNKKMF16150
MF18	1,5	110	25	14	11	16,5	620TNMF18150	620TNKKMF18150
MF20	1,5	125	25	16	12	18,5	620TNMF20150	620TNKKMF20150
MF22	1,5	125	25	18	14,5	20,5	620TNMF22150	620TNKKMF22150
MF24	1,5	140	25	18	14,5	22,5	620TNMF24150	620TNKKMF24150
MF27	1,5	140	25	20	16	25,5	620TNMF27150	620TNKKMF27150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Gerade genutet für Guss
Straight flute for Cast Iron

HSSE/PM



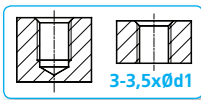
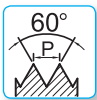
621TL



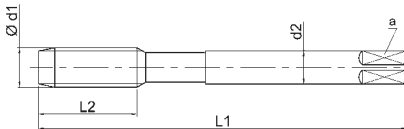
621TLKK



621TL-CHE



DIN 374



Bestell - Nr. - Cat. No.	621TL	621TLKK	621TL-CHE	
Norm - Standard	DIN 374	DIN 374	DIN 374	
Schneidstoff - Tool material	HSSE/PM	HSSE/PM	HSSE/PM	
Oberfläche - Surface	TL	TL	TL	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	C/2-3	C/2-3	E (1-1,5)	

Einsatzgebiet - Application	3.1 - 3.2 - 3.3 - 3.4 - 3.5	3.1 - 3.2 - 3.3 - 3.4 - 3.5	3.1 - 3.2 - 3.3 - 3.4 - 3.5	
	4.4	4.4	4.4	
	5.3 - 5.4	5.3 - 5.4	5.3 - 5.4	
	10.1	10.1	10.1	

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	18	6	4,9	7
MF10	1	90	15	7	5,5	9
MF10	1,25	100	20	7	5,5	8,75
MF12	1,25	100	22	9	7	10,75
MF14	1,5	100	22	11	9	12,5
MF16	1,5	100	22	12	9	14,5
MF18	1,5	110	25	14	11	16,5
MF20	1,5	125	25	16	12	18,5

Identnummer - Code		
621RSTLMF08100	621RSTLKKMF08100	621RSTLMF08100-CHE
621RSTLMF10100	621RSTLKKMF10100	621RSTLMF10100-CHE
621RSTLMF10125	621RSTLKKMF10125	621RSTLMF10125-CHE
621TLMF12150	621TLKKMF12150	621TLMF12150-CHE
621TLMF14150	621TLKKMF14150	621TLMF14150-CHE
621TLMF16150	621TLKKMF16150	621TLMF16150-CHE
621TLMF18150	621TLKKMF18150	621TLMF18150-CHE
621TLMF20150	621TLKKMF20150	621TLMF20150-CHE

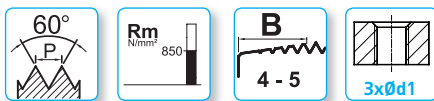
MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

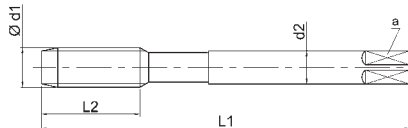
Gerade genutet mit Schälanschnitt
Straight flutes with spiral point



HSSE



DIN 374



Bestell - Nr. - Cat. No.	420	420VA	420T	
Norm - Standard	DIN 374	DIN 374	DIN 374	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	
		6.1 - 7.1		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code		
MF6	0,75	80	16	4,5	3,4	5,25	420RSMF06075	420RSVAMF06075	420RSTMF06075
MF8	1	90	18	6	4,9	7	420RSMF08100	420RSVAMF08100	420RSTMF08100
MF10	1	90	15	7	5,5	9	420RSMF10100	420RSVAMF10100	420RSTMF10100
MF10	1,25	100	20	7	5,5	8,75	420RSMF10125	420RSVAMF10125	420RSTMF10125
MF12	1	100	22	9	7	11	420MF12100	420VAMF12100	420TMF12100
MF12	1,25	100	22	9	7	10,75	420MF12125	420VAMF12125	420TMF12125
MF12	1,5	100	22	9	7	10,5	420MF12150	420VAMF12150	420TMF12150
MF14	1,5	100	22	11	9	12,5	420MF14150	420VAMF14150	420TMF14150
MF16	1,5	100	22	12	9	14,5	420MF16150	420VAMF16150	420TMF16150
MF18	1,5	110	25	14	11	16,5	420MF18150	420VAMF18150	420TMF18150
MF20	1,5	125	25	16	12	18,5	420MF20150	420VAMF20150	420TMF20150
MF22	1,5	125	25	18	14,5	20,5	420MF22150	420VAMF22150	420TMF22150
MF24	1,5	140	25	18	14,5	22,5	420MF24150	420VAMF24150	420TMF24150
MF27	1,5	140	25	20	16	25,5	420MF27150	420VAMF27150	420TMF27150
MF30	1,5	150	28	22	18	28,5	420MF30150	420VAMF30150	420TMF30150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

Toleranz: 6G - 6H+0,1
Tolerance: 6G - 6H+0,1

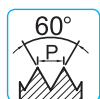
HSSE



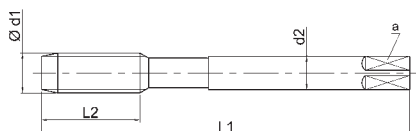
420-6G



420-6H+0,1



DIN 374



Bestell - Nr. - Cat. No.	420-6G	420-6H+0,1		
Norm - Standard	DIN 374	DIN 374		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6G/ISO3	6H+0,1		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	4.1 - 4.2		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	18	6	4,9	7
MF10	1	90	15	7	5,5	9
MF10	1,25	100	20	7	5,5	8,75
MF12	1,25	100	22	9	7	10,75
MF12	1,5	100	22	9	7	10,5
MF14	1,5	100	22	11	9	12,5
MF16	1,5	100	22	12	9	14,5

Identnummer - Code	
420RSMF08100-6G	420RSMF08100-6H+0,1
420RSMF10100-6G	420RSMF10100-6H+0,1
420RSMF10125-6G	420RSMF10125-6H+0,1
420MF12125-6G	420MF12125-6H+0,1
420MF12150-6G	420MF12150-6H+0,1
420MF14150-6G	420MF14150-6H+0,1
420MF16150-6G	420MF16150-6H+0,1

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Grüner, Blauer, Roter Ring mit gerade Nutenform mit Schälanschnitt
Green, Blue, Red Rings Straight flutes with spiral point

Universal



421TW

HSSE/PM



Superb-X INOX



422TLW

HSSEV3

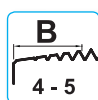
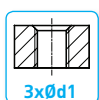
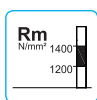
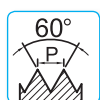


Hard

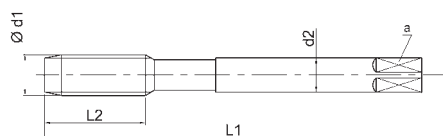


421TLW

HSSE/PM



DIN 374



Bestell - Nr. - Cat. No.	421TW	422TLW	421TLW	
Norm - Standard	DIN 374	DIN 374	DIN 374	
Schneidstoff - Tool material	HSSE/PM	HSSEV3	HSSE/PM	
Oberfläche - Surface	TW	TLW	TLW	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5	1.5 - 1.6	
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3 - 2.4	3.3 - 3.4	
	3.3 - 3.4		4.4	
	5.2		5.3	

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	18	6	4,9	7
MF10	1,25	100	20	7	5,5	8,75
MF12	1,5	100	22	9	7	10,5
MF14	1,5	100	22	11	9	12,5
MF16	1,5	100	22	12	9	14,5
MF18	1,5	110	25	14	11	16,5
MF20	1,5	125	25	16	12	18,5
MF22	1,5	125	25	18	14,5	20,5
MF24	1,5	140	25	18	14,5	22,5

Identnummer - Code		
421TWMF08100	422TLWMF08100	421TLWMF08100
421TWMF10125	422TLWMF10125	421TLWMF10125
421TWMF12150	422TLWMF12150	421TLWMF12150
421TWMF14150	422TLWMF14150	421TLWMF14150
421TWMF16150	422TLWMF16150	421TLWMF16150
421TWMF18150	422TLWMF18150	-
421TWMF20150	422TLWMF20150	-
421TWMF22150	422TLWMF22150	-
421TWMF24150	422TLWMF24150	-

HSSE/PM



HLF151TN



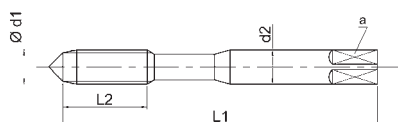
ABGERUNDETE PROFIL
WITH ROUNDED CREST



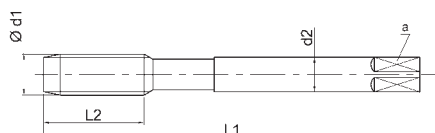
HLF151TN-J



DIN 371 d1 ≤ 10mm.



DIN 374 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	HLF151TN	HLF151TN-J		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TN	TN		
Toleranz - Tolerance	6HX	4H		
Anschnittform - Chamfer form	D	D		

Einsatzgebiet - Application	1.6 - 2.4	6.1		
	3.3 - 3.4			
	4.4 - 5.3 - 5.4 - 6.2 - 6.3			
	7.2 - 9.2			

Ød1	p	L1	L2	Ød2	a		
MF8	1	90	18	8	6,2	7	7,1
MF10	1,25	100	20	10	8	8,75	8,9
MF10	1	100	20	10	8	9	9,1
MF12	1,25	100	22	9	7	10,75	10,9
MF12	1,5	100	22	9	7	10,5	10,6
MF14	1,5	100	22	11	9	12,5	12,6
MF16	1,5	100	22	12	9	14,5	14,6

Identnummer - Code	
HLF151TNMF08100	HLF151TNMJF08100
HLF151TNMF10125	HLF151TNMJF10125
HLF151TNMF10100	HLF151TNMJF10100
HLF151TNMF12125	HLF151TNMJF12125
HLF151TNMF12150	HLF151TNMJF12150
HLF151TNMF14150	HLF151TNMJF14150
HLF151TNMF16150	HLF151TNMJF16150

MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Spiralnuten 15°
Spiral Flutes 15°



H15

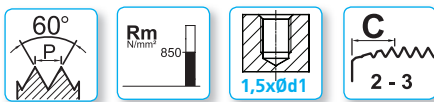


H15VA

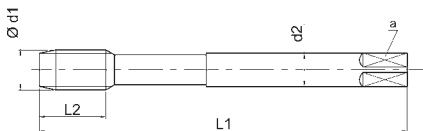


H15T

HSSE 



DIN 374



Bestell - Nr. - Cat. No.	H15	H15VA	H15T	
Norm - Standard	DIN 374	DIN 374	DIN 374	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	
		6.1 - 7.1		

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	18	6	4,9	7
MF10	1,25	100	20	7	5,5	8,75
MF10	1	90	15	7	5,5	9
MF12	1,25	100	22	9	7	10,75
MF12	1,5	100	22	9	7	10,5
MF14	1,5	100	22	11	9	11,5
MF16	1,5	100	22	12	9	14,5
MF18	1,5	110	25	14	11	16,5
MF20	1,5	125	25	16	12	18,5
MF22	1,5	125	25	18	14,5	20,5
MF24	1,5	140	25	18	14,5	22,5
MF27	1,5	140	25	20	16	25,5
MF30	1,5	150	28	22	18	28,5

Identnummer - Code		
H15RSMF08100	H15RSVAMF08100	H15RSTMF08100
H15RSMF10125	H15RSVAMF10125	H15RSTMF10125
H15RSMF10100	H15RSVAMF10100	H15RSTMF10100
H15MF12125	H15VAMF12125	H15TMF12125
H15MF12150	H15VAMF12150	H15TMF12150
H15MF14150	H15VAMF14150	H15TMF14150
H15MF16150	H15VAMF16150	H15TMF16150
H15MF18150	H15VAMF18150	H15TMF18150
H15MF20150	H15VAMF20150	H15TMF20150
H15MF22150	H15VAMF22150	H15TMF22150
H15MF24150	H15VAMF24150	H15TMF24150
H15MF27150	H15VAMF27150	H15TMF27150
H15MF30150	H15VAMF30150	H15TMF30150

MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Spiralnuten 15°
Spiral flutes 15°

TITANLEGIERUNGEN
TITANIUM ALLOYS

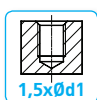
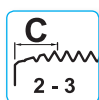
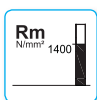
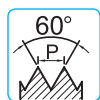
HSSE/PM



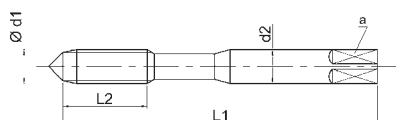
H151TN



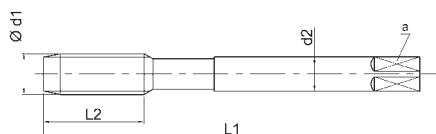
H151TNJ



DIN 374 $d1 \leq 10\text{mm}$.



DIN 374 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	H151TN	H151TNJ		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TN	TN		
Toleranz - Tolerance	6HX	4H		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.6 - 2.4	6.1		
	3.3 - 3.4			
	4.4 - 5.3 - 5.4 - 6.2 - 6.3			
	7.2 - 9.2			

Ød1	p	L1	L2	Ød2	a			x MJ
MF8	1	90	13	8	6,2	7	7,1	
MF10	1,25	100	15	10	8	8,75	8,9	
MF10	1	100	15	10	8	9	9,1	
MF12	1,25	100	13	9	7	10,75	10,9	
MF12	1,5	100	13	9	7	10,5	10,6	
MF14	1,5	100	15	11	9	12,5	12,6	
MF16	1,5	100	15	12	9	14,5	14,6	

Identnummer - Code	
H151TNMF08100	H151TNMJF08100
H151TNMF10125	H151TNMJF10125
H151TNMF10100	H151TNMJF10100
H151TNMF12125	H151TNMJF12125
H151TNMF12150	H151TNMJF12150
H151TNMF14150	H151TNMJF14150
H151TNMF16150	H151TNMJF16150

NICKELLEGIERUNGEN NICKEL ALLOYS

HSSE/PM



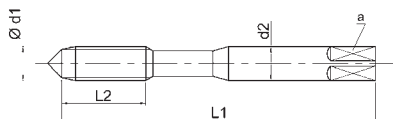
H101NI



H101TNNI



NEUWERK



Bestell - Nr. - Cat. No.	H101NI	H101TNNI		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	-	TN		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		
Einsatzgebiet - Application	7.3 - 9.3	1.6 - 5.4		
		7.2 - 9.1		

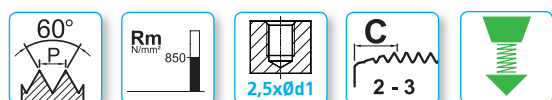
Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF8	1	90	25	8	6,2	7	H101MF08100NI	H101TNMF08100NI
MF10	1,25	100	30	10	8	8,75	H101MF10125NI	H101TNMF10125NI
MF10	1	100	30	10	8	9	H101MF10100NI	H101TNMF10100NI
MF12	1,25	110	30	12	9	10,75	H101MF12125NI	H101TNMF12125NI
MF12	1,5	110	30	12	9	10,5	H101MF12150NI	H101TNMF12150NI
MF14	1,5	110	30	12	9	12,5	H101MF14150NI	H101TNMF14150NI
MF16	1,5	110	30	16	12	14,5	H101MF16150NI	H101TNMF16150NI

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

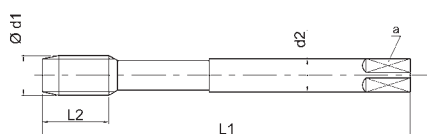
Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Spiralnuten 40°
Spiral Flutes 40°

HSSE



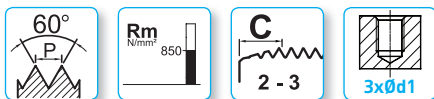
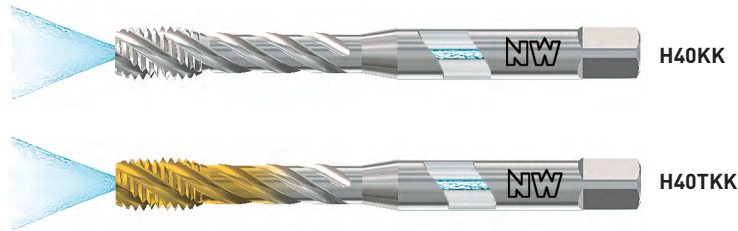
DIN 374



Bestell - Nr. - Cat. No.	H40	H40VA	H40T	H40TLW
Norm - Standard	DIN 374	DIN 374	DIN 374	DIN 374
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	6H/ISO2	6H/ISO2	6H/ISO2	6H/ISO2
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	C/2-3

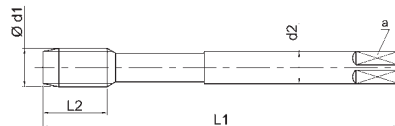
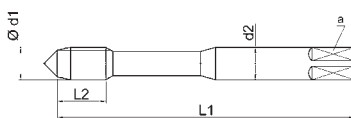
Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2 - 4.3	3.3 - 3.4 - 4.1 - 4.2 - 4.3	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	4.2 - 4.3
				5.2

Ød1	p	L1	L2	Ød2	a		Identnummer - Code			
MF8	1	90	13	6	4,9	7	H40RSMF08100	H40RSVAMF08100	H40RSTMF08100	H40RSTLWMF08100
MF10	1,25	100	15	7	5,5	8,75	H40RSMF10125	H40RSVAMF10125	H40RSTMF10125	H40RSTLWMF10125
MF10	1	90	15	7	5,5	9	H40RSMF10100	H40RSVAMF10100	H40RSTMF10100	H40RSTLWMF10100
MF12	1	100	13	9	7	11	H40MF12100	H40VAMF12100	H40TMF12100	H40TLWMF12100
MF12	1,25	100	13	9	7	10,75	H40MF12125	H40VAMF12125	H40TMF12125	H40TLWMF12125
MF12	1,5	100	13	9	7	10,5	H40MF12150	H40VAMF12150	H40TMF12150	H40TLWMF12150
MF14	1,5	100	15	11	9	12,5	H40MF14150	H40VAMF14150	H40TMF14150	H40TLWMF14150
MF16	1,5	100	15	12	9	14,5	H40MF16150	H40VAMF16150	H40TMF16150	H40TLWMF16150
MF18	1,5	110	17	14	11	16,5	H40MF18150	H40VAMF18150	H40TMF18150	H40TLWMF18150
MF20	1,5	125	17	16	12	18,5	H40MF20150	H40VAMF20150	H40TMF20150	H40TLWMF20150
MF22	1,5	125	18	18	14,5	20,5	H40MF22150	H40VAMF22150	H40TMF22150	H40TLWMF22150
MF24	1,5	140	20	18	14,5	22,5	H40MF24150	H40VAMF24150	H40TMF24150	H40TLWMF24150
MF27	1,5	140	20	20	16	25,5	H40MF27150	H40VAMF27150	H40TMF27150	H40TLWMF27150
MF30	1,5	150	22	22	18	28,5	H40MF30150	H40VAMF30150	H40TMF30150	H40TLWMF30150



DIN 371 d1 ≤ 10mm.

DIN 374 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	H40KK	H40TKK		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	T		
Toleranz - Tolerance	6H/ISO2	6H/ISO2		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF8	1	90	13	8	6,2	7	H40KKMF08100	H40TKKMF08100
MF10	1	90	15	10	8	9	H40KKMF10100	H40TKKMF10100
MF10	1,25	100	15	10	8	8,75	H40KKMF10125	H40TKKMF10125
MF12	1,25	100	13	9	7	10,75	H40KKMF12125	H40TKKMF12125
MF12	1,5	100	13	9	7	10,5	H40KKMF12150	H40TKKMF12150
MF14	1,5	100	15	11	9	12,5	H40KKMF14150	H40TKKMF14150
MF16	1,5	100	15	12	9	14,5	H40KKMF16150	H40TKKMF16150

Toleranz: 6G - 6H+0,1
Tolerance: 6G - 6H+0,1

HSSE



H40-6G



H40-6H+0,1



DIN 374



Bestell - Nr. - Cat. No.	H40-6G	H40-6H+0,1		
Norm - Standard	DIN 374	DIN 374		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	-		
Toleranz - Tolerance	6G/ISO3	6H+0,1		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	4.1 - 4.2		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	13	6	4,9	7
MF10	1	90	15	7	5,5	9
MF10	1,25	100	15	7	5,5	8,75
MF12	1,25	100	15	9	7	10,75
MF12	1,5	100	15	9	7	10,5
MF14	1,5	100	15	11	9	12,5
MF16	1,5	100	15	12	9	14,5

Identnummer - Code	
H40RSMF08100-6G	H40RSMF08100-6H+0,1
H40RSMF10100-6G	H40RSMF10100-6H+0,1
H40RSMF10125-6G	H40RSMF10125-6H+0,1
H40MF12125-6G	H40MF12125-6H+0,1
H40MF12150-6G	H40MF12150-6H+0,1
H40MF14150-6G	H40MF14150-6H+0,1
H40MF16150-6G	H40MF16150-6H+0,1

MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Spiralnuten 45°
Spiral flutes 45°



H45

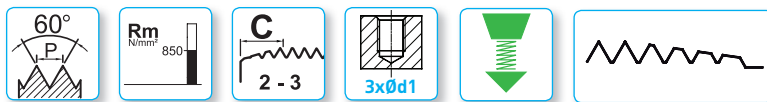


H45VA

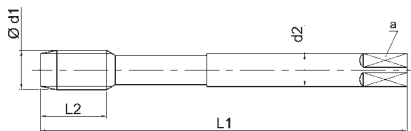


H45T

HSSE 



DIN 374



Bestell - Nr. - Cat. No.	H45	H45VA	H45T	
Norm - Standard	DIN 374	DIN 374	DIN 374	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	6HX	6HX	6HX	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4 - 1.5	
	4.2	2.1 - 2.2	4.3 - 5.2	
	5.1 - 5.2			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code		
MF8	1	90	13	6	4,9	7	H45MF08100	H45VAMF08100	H45TMF08100
MF10	1	90	15	7	5,5	9	H45MF10100	H45VAMF10100	H45TMF10100
MF10	1,25	100	15	7	5,5	8,75	H45MF10125	H45VAMF10125	H45TMF10125
MF12	1	100	13	9	7	11	H45MF12100	H45VAMF12100	H45TMF12100
MF12	1,25	100	13	9	7	10,75	H45MF12125	H45VAMF12125	H45TMF12125
MF12	1,5	100	13	9	7	10,5	H45MF12150	H45VAMF12150	H45TMF12150
MF14	1,5	100	15	11	9	12,5	H45MF14150	H45VAMF14150	H45TMF14150
MF16	1,5	100	15	12	9	14,5	H45MF16150	H45VAMF16150	H45TMF16150
MF18	1,5	110	17	14	11	16,5	H45MF18150	H45VAMF18150	H45TMF18150
MF20	1,5	125	17	16	12	18,5	H45MF20150	H45VAMF20150	H45TMF20150
MF22	1,5	125	18	18	14,5	20,5	H45MF22150	H45VAMF22150	H45TMF22150
MF24	1,5	140	20	18	14,5	22,5	H45MF24150	H45VAMF24150	H45TMF24150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

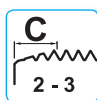
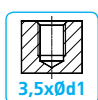
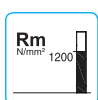
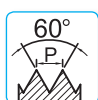
Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Blauer Ring Mit Gerade Spiralnuten 48°
Blue Ring Spiral Flutes 48°

HSSV3



Superb-48°- x INOX
H42TLW



DIN 374



Bestell - Nr. - Cat. No.	H42TLW			
Norm - Standard	DIN 374			
Schneidstoff - Tool material	HSSV3			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	6HX			
Anschnittform - Chamfer form	C/2-3			

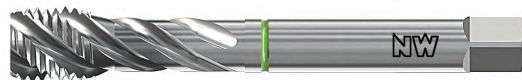
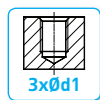
Einsatzgebiet - Application	1.3 - 1.4 - 1.5			
	2.1 - 2.2 - 2.3 - 2.4			

Ød1	p	L1	L2	Ød2	a		Identnummer - Code
MF8	1	90	13	6	4,9	7	H42TLWMF08100
MF10	1	90	15	7	5,5	9	H42TLWMF10100
MF10	1,25	100	15	7	5,5	8,75	H42TLWMF10125
MF12	1,25	100	13	9	7	10,75	H42TLWMF12125
MF12	1,5	100	13	9	7	10,5	H42TLWMF12150
MF14	1,5	100	15	11	9	12,5	H42TLWMF14150
MF16	1,5	100	15	12	9	14,5	H42TLWMF16150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

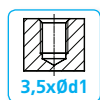
Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Grün Ring Mit Gerade Spiralnuten 45°
Green Ring Spiral Flutes 45°

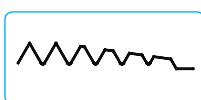
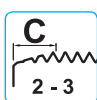
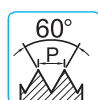


Universal 45°
H41TW

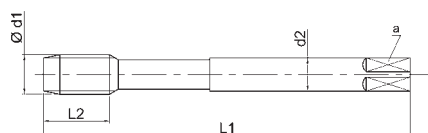
HSSE/PM



Universal 45°
H41TWKK



DIN 374



Bestell - Nr. - Cat. No.	H41TW	H41TWKK		
Norm - Standard	DIN 374	DIN 374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TW	TW		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	3.3 - 3.4 - 4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3		
	5.2	5.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF8	1	90	13	6	4,9	7	H41RSTWMF08100	H41RSTWKKMF08100
MF10	1	90	15	7	5,5	9	H41RSTWMF10100	H41RSTWKKMF10100
MF10	1,25	100	15	7	5,5	8,75	H41RSTWMF10125	H41RSTWKKMF10125
MF12	1	100	15	9	7	11	H41TWMF12100	H41TWKKMF12100
MF12	1,25	100	15	9	7	10,75	H41TWMF12125	H41TWKKMF12125
MF12	1,5	100	15	9	7	10,5	H41TWMF12150	H41TWKKMF12150
MF14	1,5	100	15	11	9	12,5	H41TWMF14150	H41TWKKMF14150
MF16	1,5	100	15	12	9	14,5	H41TWMF16150	H41TWKKMF16150
MF18	1,5	110	17	14	11	16,5	H41TWMF18150	H41TWKKMF18150
MF20	1,5	125	17	16	12	18,5	H41TWMF20150	H41TWKKMF20150
MF22	1,5	125	18	18	14,5	20,5	H41TWMF22150	H41TWKKMF22150
MF24	1,5	140	20	18	14,5	22,5	H41TWMF24150	H41TWKKMF24150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Roter Ring Mit Gerade Spiralnuten 40°
Red Ring Spiral Flutes 40°

HSSE/PM



2,5xØd1



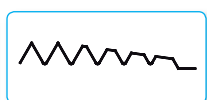
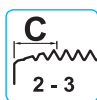
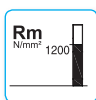
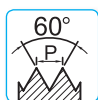
Hard - 40°
H41TLW



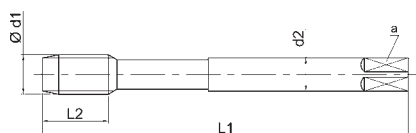
3xØd1



Hard - 40°
H41TLWKK



DIN 374



Bestell - Nr. - Cat. No.	H41TLW	H41TLWKK		
Norm - Standard	DIN 374	DIN 374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TLW	TLW		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.4 - 1.5	1.4 - 1.5		
	3.3 - 3.4	3.3 - 3.4		

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	13	6	4,9	7
MF10	1	90	15	7	5,5	9
MF10	1,25	100	15	7	5,5	8,75
MF12	1	100	15	9	7	11
MF12	1,25	100	15	9	7	10,75
MF12	1,5	100	15	9	7	10,5
MF14	1,5	100	15	11	9	12,5
MF16	1,5	100	15	12	9	14,5

Identnummer - Code	
H41RSTLWMF08100	H41RSTLWKKMF08100
H41RSTLWMF10100	H41RSTLWKKMF10100
H41RSTLWMF10125	H41RSTLWKKMF10125
H41TLWMF12100	H41TLWKKMF12100
H41TLWMF12125	H41TLWKKMF12125
H41TLWMF12150	H41TLWKKMF12150
H41TLWMF14150	H41TLWKKMF14150
H41TLWMF16150	H41TLWKKMF16150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Gewindeformer
Roll Taps

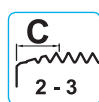
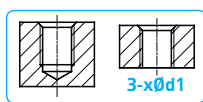
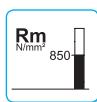
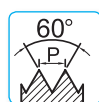
HSSE-CO



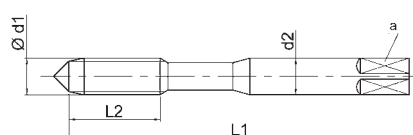
GFWFT (OHNE KANÄLEN)



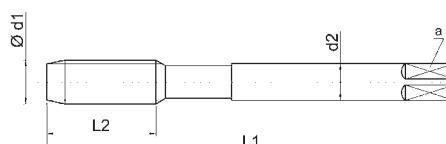
GFOT (MIT KANÄLEN)



DIN 371 $d1 \leq 10\text{mm}$.



DIN 374 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	GFWFT	GFOT		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE-CO	HSSE-CO		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	4.1 - 4.2 - 4.3	4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	p	L1	L2	Ød2	a		Identnummer - Code	
MF8	1	90	18	8	6,2	7,55	GFWFTMF08100	GFOTMF08100
MF10	1	90	15	10	8	9,55	GFWFTMF10100	GFOTMF10100
MF10	1,25	100	20	10	8	9,45	GFWFTMF10125	GFOTMF10125
MF12	1	100	22	9	7	11,55	GFWFTMF12100	GFOTMF12100
MF12	1,25	100	22	9	7	11,45	GFWFTMF12125	GFOTMF12125
MF12	1,5	100	22	9	7	11,30	GFWFTMF12150	GFOTMF12150

MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

Gewindeformer
Roll Taps

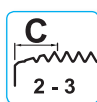
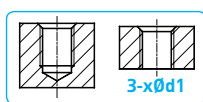
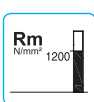
HSSE/PM



GF1T (6HX)

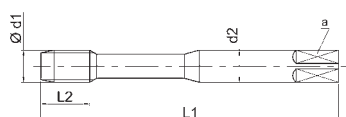


GF3T (6GX)



DIN 371 $d1 \leq 10\text{mm}$.

DIN 374 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	GF1T	GF3T		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6GX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	p	L1	L2	Ød2	a	
MF4	0,5	63	7	4,5	3,4	3,75
MF5	0,5	70	8	6	4,9	4,75
MF6	0,75	80	10	6	4,9	5,65
MF8	1	90	13	8	6,2	7,55
MF10	1	90	10	10	8	9,55
MF10	1,25	100	15	10	8	9,45
MF12	1	100	15	9	7	11,55
MF12	1,25	100	15	9	7	11,45
MF12	1,5	100	15	9	7	11,30
MF14	1,25	100	15	11	9	13,45
MF14	1,5	100	15	11	9	13,30
MF16	1,5	100	15	12	9	15,30

Identnummer - Code	
GF1TMF04050	GF3TMF04050
GF1TMF05050	GF3TMF05050
GF1TMF06075	GF3TMF06075
GF1TMF08100	GF3TMF08100
GF1TMF10100	GF3TMF10100
GF1TMF10125	GF3TMF10125
GF1TMF12100	GF3TMF12100
GF1TMF12125	GF3TMF12125
GF1TMF12150	GF3TMF12150
GF1TMF14125	GF3TMF14125
GF1TMF14150	GF3TMF14150
GF1TMF16150	GF3TMF16150

MF MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

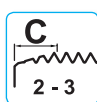
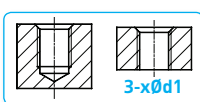
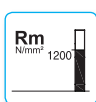
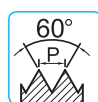
Gewindeformer
Roll Taps

HSSE/PM



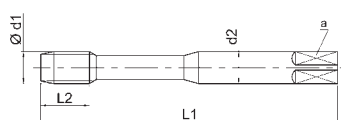
GF1TKK (6HX)

GF1TRKK (6HX)



DIN 371 $d1 \leq 10\text{mm}$.

DIN 374 $d1 \geq 12\text{mm}$.



Bestell - Nr. - Cat. No.	GF1TKK	GF1TRKK		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	C/2-3	C/2-3		
Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	13	8	6,2	7,55
MF10	1	90	10	10	8	9,55
MF10	1,25	100	15	10	8	9,45
MF12	1	100	15	9	7	11,55
MF12	1,25	100	15	9	7	11,45
MF12	1,5	100	15	9	7	11,30
MF14	1,5	100	15	11	9	13,30
MF16	1,5	100	15	12	9	15,30

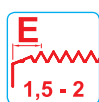
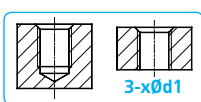
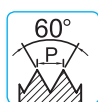
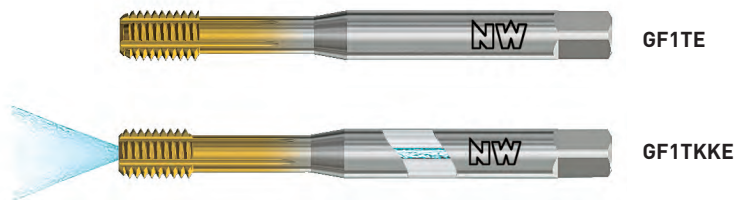
Identnummer - Code	
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GF1TKKMF10100	GF1TRKKMF10100
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GF1TKKMF12100	GF1TRKKMF12100
GF1TKKMF12125	GF1TRKKMF12125
GF1TKKMF12150	GF1TRKKMF12150
GF1TKKMF14150	GF1TRKKMF14150
GF1TKKMF16150	GF1TRKKMF16150

MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde DIN 13
ISO metric fine thread DIN13

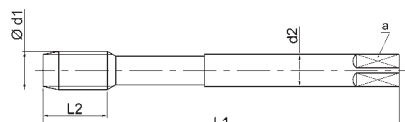
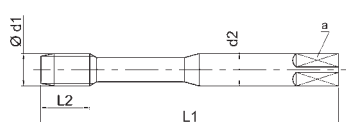
Gewindeformer
Roll Taps

HSSE/PM



DIN 371 d1 ≤ 10mm.

DIN 374 d1 ≥ 12mm.



Bestell - Nr. - Cat. No.	GF1TE	GF1TKKE		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	6HX	6HX		
Anschnittform - Chamfer form	E (1-1,5)	E (1-1,5)		

Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	p	L1	L2	Ød2	a	
MF8	1	90	13	8	6,2	7,55
MF10	1	90	10	10	8	9,55
MF10	1,25	100	15	10	8	9,45
MF12	1	100	15	9	7	11,55
MF12	1,25	100	15	9	7	11,45
MF12	1,5	100	15	9	7	11,30
MF14	1,5	100	15	11	9	13,30
MF16	1,5	100	15	12	9	15,30

Identnummer - Code	
GF1TEMF08100	GF1TKKE08100
GF1TEMF10100	GF1TKKE10100
GF1TEMF10125	GF1TKKE10125
GF1TEMF12100	GF1TKKE12100
GF1TEMF12125	GF1TKKE12125
GF1TEMF12150	GF1TKKE12150
GF1TEMF14150	GF1TKKE14150
GF1TEMF16150	GF1TKKE16150

GEWINDE - KERNLOCH-Ø UND KERN-Ø MUTTERGEWINDE

TAPPING DRILL SIZES FOR CUTTING TAPS

MF	P mm		Muttergewinde Kern Ø min	Muttergewinde Kern Ø max
M 4	0,5	3,50	3,459	3,599
M 4,5	0,5	4,00	3,959	4,099
M 5	0,5	4,50	4,459	4,599
M 6	0,5	5,50	5,459	5,599
M 6	0,75	5,25	5,188	5,378
M 7	0,75	6,25	6,188	6,378
M 8	0,5	7,50	7,459	7,599
M 8	0,75	7,25	7,188	7,378
M 8	1	7,00	6,917	7,153
M 9	0,75	8,25	8,188	8,378
M 9	1	8,00	7,917	8,153
M 10	0,5	9,50	9,459	9,599
M 10	0,75	9,25	9,188	9,378
M 10	1	9	8,917	9,153
M 10	1,25	8,75	8,647	8,912
M 11	1	10	9,917	10,153
M 12	0,5	11,5	11,459	11,599
M 12	0,75	11,25	11,188	11,378
M 12	1	11	10,917	11,153
M 12	1,25	10,75	10,647	10,912
M 12	1,5	10,5	10,376	10,676
M 13	1	12	11,917	12,153
M 14	1	13	12,917	13,153
M 14	1,25	12,75	12,647	12,912
M 14	1,5	12,5	12,376	12,676
M 15	1	14	13,917	14,153
M 15	1,5	13,5	13,376	13,676
M 16	1	15	14,917	15,153
M 16	1,25	14,8	14,647	14,912
M 16	1,5	14,5	14,376	14,676
M 17	1	16	15,917	16,153
M 17	1,5	15,5	15,376	15,676
M 18	1	17	16,917	17,153
M 18	1,5	16,5	16,376	16,676
M 18	2	16	15,835	16,210
M 20	1	19	18,917	19,153
M 20	1,5	18,5	18,376	18,676
M 20	2	18	17,835	18,210
M 22	1	21	20,917	21,153
M 22	1,5	20,5	20,376	20,676
M 22	2	20	19,835	20,210
M 24	1	23	22,917	23,153
M 24	1,5	22,5	22,376	22,676
M 24	2	22	21,835	22,210
M 25	1	24	23,917	24,153
M 25	1,5	23,5	23,376	23,676
M 25	2	23	22,835	23,210
M 26	1,5	24,5	24,376	24,676
M 27	1	26	25,917	26,153
M 27	1,5	25,5	25,376	25,676
M 27	2	25	24,835	25,210

MF	P mm		Muttergewinde Kern Ø min	Muttergewinde Kern Ø max
M 28	1	27	26,917	27,153
M 28	1,5	26,5	26,376	26,676
M 28	2	26	25,835	26,210
M 30	1	29	28,917	29,153
M 30	1,5	28,5	28,376	28,676
M 30	2	28	27,835	28,210
M 30	3	27	26,752	27,252
M 32	1,5	30,5	30,376	30,676
M 32	2	30	29,835	30,210
M 33	1,5	31,5	31,376	31,676
M 33	2	31	30,835	31,210
M 33	3	30	29,752	30,252
M 34	1,5	32,5	32,376	32,676
M 35	1,5	33,5	33,376	33,676
M 36	1,5	34,5	34,376	34,676
M 36	2	34	33,835	34,210
M 36	3	33	32,752	33,252
M 38	1,5	36,5	36,376	36,676
M 39	1,5	37,5	37,376	37,676
M 39	2	37	36,835	37,210
M 39	3	36	35,752	36,252
M 40	1,5	38,5	38,376	38,676
M 40	2	38	37,835	38,210
M 40	3	37	36,752	37,252
M 42	1,5	40,5	40,376	40,676
M 42	2	40	39,835	40,210
M 42	3	39	38,752	39,252
M 42	4	38	37,670	38,270
M 45	1,5	43,5	43,376	43,676
M 45	2	43	42,835	43,210
M 45	3	42	41,752	42,252
M 45	4	41	40,670	41,270
M 48	1,5	46,5	46,376	46,676
M 48	2	46	45,835	46,210
M 48	3	45	44,752	45,252
M 48	4	44	43,670	44,270
M 50	1,5	48,5	48,376	48,676
M 50	2	48	47,835	48,210
M 50	3	47	46,752	47,252

GEWINDE-VORBOHRDURCHMESSER GEWINDEFORMEN

THREAD PILOT HOLE DIAMETERS THREAD FORMING

MF	P mm		Toll.
4	0,5	3,80	±0,03
5	0,5	4,80	±0,03
6	0,5	5,80	±0,03
6	0,75	5,65	±0,03
8	1	7,55	±0,05
10	1	9,55	±0,05
10	1,25	9,40	±0,05
12	1	11,55	±0,05
12	1,25	11,40	±0,05
12	1,5	11,30	±0,05
14	1	13,55	±0,05
14	1,25	13,40	±0,05
14	1,5	13,30	±0,05
16	1	15,55	±0,05
16	1,25	15,40	±0,05
16	1,5	15,30	±0,05
18	1	17,55	±0,05
18	1,25	17,40	±0,05
18	1,5	17,30	±0,05
20	1	19,55	±0,05
20	1,25	19,40	±0,05
20	1,5	19,30	±0,05
20	2	19,10	±0,05
22	1	21,55	±0,05
22	1,25	21,40	±0,05
22	1,5	21,30	±0,05
22	2	21,10	±0,05
24	1	23,55	±0,05
24	1,25	23,40	±0,05
24	1,5	23,30	±0,05
24	2	23,10	±0,05
26	1,5	25,30	±0,05
26	2	25,10	±0,05
27	1,5	26,30	±0,05
27	2	26,10	±0,05
28	1,5	27,30	±0,05
28	2	27,10	±0,05
30	1,5	29,30	±0,05
30	2	29,10	±0,05



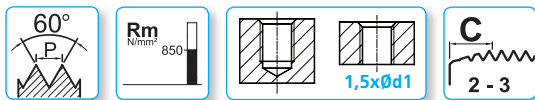
MASCHINENGWINDEBOHRER
MACHINE TAPS

UNC 

Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

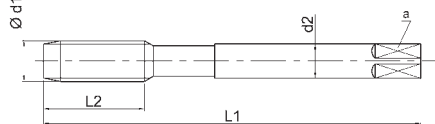
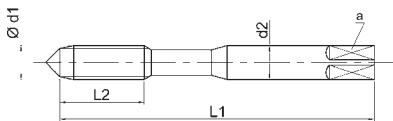
Gerade genutet
Straight flute

HSSE



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	SF			
Norm - Standard	DIN 371/374			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	-			
Toleranz - Tolerance	2B			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4			
	3.4 - 4.2 - 4.3 - 5.2 - 5.3			
	8.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNC6	32	56	11	4	3	2,85	SFUNC6-32
UNC8	32	63	13	4,5	3,4	3,5	SFUNC8-32
UNC10	24	70	13	6	4,9	3,9	SFUNC10-24
UNC12	24	80	16	6	4,9	4,5	SFUNC12-24
UNC1/4	20	80	16	7	5,5	5,1	SFUNC1/4-20
UNC5/16	18	90	18	8	6,2	6,6	SFUNC5/16-18
UNC3/8	16	100	20	10	8	8	SFUNC3/8-16
UNC7/16	14	100	20	8	6,2	9,4	SFUNC7/16-14
UNC1/2	13	110	25	9	7	10,8	SFUNC1/2-13
UNC9/16	12	110	28	11	9	12,2	SFUNC9/16-12
UNC5/8	11	110	28	12	9	13,5	SFUNC5/8-11
UNC3/4	10	125	32	14	11	16,5	SFUNC3/4-10
UNC7/8	9	140	32	18	14,5	19,5	SFUNC7/8-9
UNC1"	8	160	36	18	14,5	22,25	SFUNC1"-8

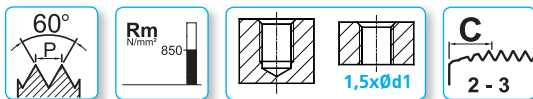
UNC MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Gerade genutet für Guss
Straight flute for Cast-Iron

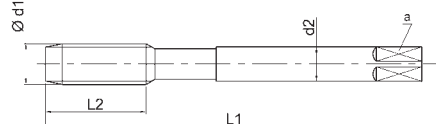
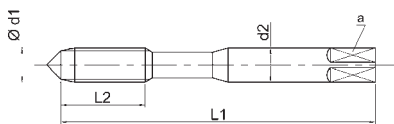


HSSE



DIN 371 $d1 \leq 1/4$ unc

DIN 376 $d1 \geq 5/16$ unc



Bestell - Nr. - Cat. No.	620TN			
Norm - Standard	DIN 371/376			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	TN			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	C/2-3			

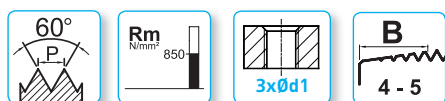
Einsatzgebiet - Application	3.1 - 3.2 - 3.3 - 3.4			
	4.3 - 4.4 - 4.5 - 4.6			
	5.3 - 8.2			
	10.1			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNC6	32	56	11	4	3	2,85	620TNUNC6-32
UNC8	32	63	13	4,5	3,4	3,5	620TNUNC8-32
UNC10	24	70	13	6	4,9	3,9	620TNUNC10-24
UNC12	24	80	16	6	4,9	4,5	620TNUNC12-24
UNC1/4	20	80	16	7	5,5	5,1	620TNUNC1/4-20
UNC5/16	18	90	18	6	4,9	6,6	620RSTNUNC5/16-18
UNC3/8	16	100	20	7	5,5	8	620RSTNUNC3/8-16
UNC7/16	14	100	20	8	6,2	9,4	620TNUNC7/16-14
UNC1/2	13	110	25	9	7	10,8	620TNUNC1/2-13
UNC9/16	12	110	28	11	9	12,2	620TNUNC9/16-12
UNC5/8	11	110	28	12	9	13,5	620TNUNC5/8-11
UNC3/4	10	125	32	14	11	16,5	620TNUNC3/4-10
UNC7/8	9	140	32	18	14,5	19,5	620TNUNC7/8-9
UNC1"	8	160	36	18	14,5	22,25	620TNUNC1"-8

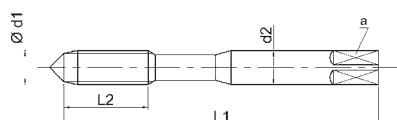
Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Gerade genutet mit Schälanschnitt
Straight flute with spiral point

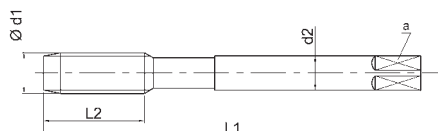
HSSE



DIN 371 $d1 \leq 3/8 \text{ unc}$



DIN 376 $d1 \geq 7/16 \text{ unc}$



Bestell - Nr. - Cat. No.	420	420VA	420T	
Norm - Standard	DIN 371/376	DIN 371/376	DIN 371/376	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	2B	2B	2B	
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2 - 5.1 - 5.2	4.1 - 4.2 - 5.1 - 5.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
		6.1 - 7.1	5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
UNC6	32	56	11	4	3	2,85
UNC8	32	63	13	4,5	3,4	3,5
UNC10	24	70	13	6	4,9	3,9
UNC12	24	80	16	6	4,9	4,5
UNC1/4	20	80	16	7	5,5	5,1
UNC5/16	18	90	18	8	6,2	6,6
UNC3/8	16	100	20	10	8	8
UNC7/16	14	100	20	8	6,2	9,4
UNC1/2	13	110	25	9	7	10,8
UNC9/16	12	110	28	11	9	12,2
UNC5/8	11	110	28	12	9	13,5
UNC3/4	10	125	32	14	11	16,5
UNC7/8	9	140	32	18	14,5	19,5
UNC1"	8	160	36	18	14,5	22,25

Identnummer - Code		
420UNC6-32	420VAUNC6-32	420TUNC6-32
420UNC8-32	420VAUNC8-32	420TUNC8-32
420UNC10-24	420VAUNC10-24	420TUNC10-24
420UNC12-24	420VAUNC12-24	420TUNC12-24
420UNC1/4-20	420VAUNC1/4-20	420TUNC1/4-20
420UNC5/16-18	420VAUNC5/16-18	420TUNC5/16-18
420UNC3/8-16	420VAUNC3/8-16	420TUNC3/8-16
420UNC7/16-14	420VAUNC7/16-14	420TUNC7/16-14
420UNC1/2-13	420VAUNC1/2-13	420TUNC1/2-13
420UNC9/16-12	420VAUNC9/16-12	420TUNC9/16-12
420UNC5/8-11	420VAUNC5/8-11	420TUNC5/8-11
420UNC3/4-10	420VAUNC3/4-10	420TUNC3/4-10
420UNC7/8-9	420VAUNC7/8-9	420TUNC7/8-9
420UNC1"-8	420VAUNC1"-8	420TUNC1"-8

UNC MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Grüner, Blauer, Ring mit gerade Nutenform mit Schälanschnitt
Green, Blue, Rings Straight flutes with spiral point

Universal



421TW

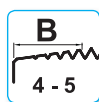
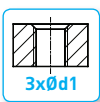
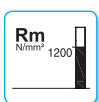
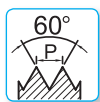
Superb-X INOX



422TLW

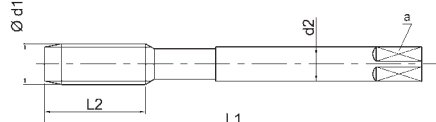
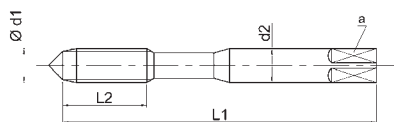
HSSE/PM

HSSV3



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	421TW	422TLW		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE/PM	HSSV3		
Oberfläche - Surface	TW	TLW		
Toleranz - Tolerance	2BX	2BX		
Anschnittform - Chamfer form	B/4-5	B/4-5		

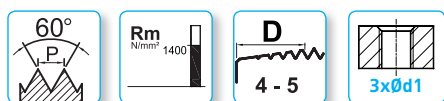
Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3 - 2.4		
	3.3 - 3.4 - 4.2 - 4.3			
	5.2			

Ød1	TPI	L1	L2	Ød2	a	
UNC6	32	56	11	4	3	2,85
UNC8	32	63	13	4,5	3,4	3,5
UNC10	24	70	13	6	4,9	3,9
UNC1/4	20	80	16	7	5,5	5,1
UNC5/16	18	90	18	8	6,2	6,6
UNC3/8	16	100	20	10	8	8
UNC7/16	14	100	20	8	6,2	9,4
UNC1/2	13	110	25	9	7	10,8
UNC9/16	12	110	28	11	9	12,2
UNC5/8	11	110	28	12	9	13,5
UNC3/4	10	125	32	14	11	16,5
UNC7/8	9	140	32	18	14,5	19,5
UNC1"	8	160	36	18	14,5	22,25

Identnummer - Code	
421TWUNC6-32	422TLWUNC6-32
421TWUNC8-32	422TLWUNC8-32
421TWUNC10-24	422TLWUNC10-24
421TWUNC1/4-20	422TLWUNC1/4-20
421TWUNC5/16-18	422TLWUNC5/16-18
421TWUNC3/8-16	422TLWUNC3/8-16
421TWUNC7/16-14	422TLWUNC7/16-14
421TWUNC1/2-13	422TLWUNC1/2-13
421TWUNC9/16-12	422TLWUNC9/16-12
421TWUNC5/8-11	422TLWUNC5/8-11
421TWUNC3/4-10	422TLWUNC3/4-10
421TWUNC7/8-9	422TLWUNC7/8-9
421TWUNC1"-8	422TLWUNC1"-8

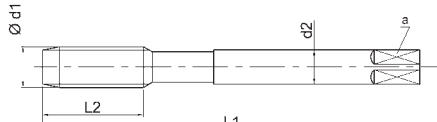
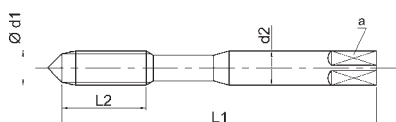


HLF151TN



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	HLF151TN			
Norm - Standard	DIN 371/376			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TN			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	D/4-5			

Einsatzgebiet - Application	1.6 - 2.4			
	3.3 - 3.4			
	4.4 - 5.3 - 5.4 - 6.2 - 6.3			
	7.2 - 9.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNC6	32	56	11	4	3	2,85	HLF151TNUNC6-32
UNC8	32	63	13	4,5	3,4	3,5	HLF151TNUNC8-32
UNC10	24	70	13	6	4,9	3,9	HLF151TNUNC10-24
UNC1/4	20	80	16	7	5,5	5,1	HLF151TNUNC1/4-20
UNC5/16	18	90	18	8	6,2	6,6	HLF151TNUNC5/16-18
UNC3/8	16	100	20	10	8	8	HLF151TNUNC3/8-16
UNC7/16	14	100	20	8	6,2	9,4	HLF151TNUNC7/16-14
UNC1/2	13	110	25	9	7	10,8	HLF151TNUNC1/2-13
UNC5/8	11	110	28	12	9	13,5	HLF151TNUNC5/8-11
UNC3/4	10	125	32	14	11	16,5	HLF151TNUNC3/4-10

UNC MASCHINENGEWINDEBOHRER - MACHINE TAPS

Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Spiralnuten 15°
Spiral flutes 15°

HSSE



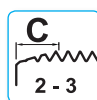
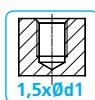
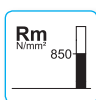
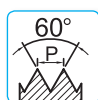
H15



H15VA

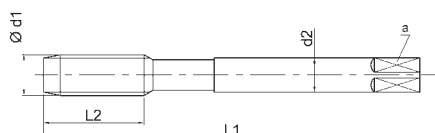
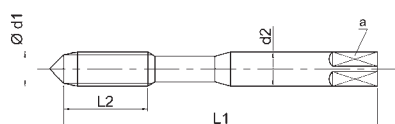


H15T



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	H15	H15VA	H15T	
Norm - Standard	DIN 371/376	DIN 371/376	DIN 371/376	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	2B	2B	2B	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

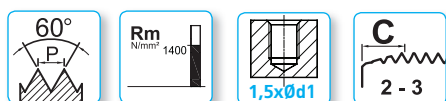
Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	
		6.1 - 6.2		

Ød1	TPI	L1	L2	Ød2	a	
UNC6	32	56	11	4	3	2,85
UNC8	32	63	13	4,5	3,4	3,5
UNC10	24	70	13	6	4,9	3,9
UNC12	24	80	16	6	4,9	4,5
UNC1/4	20	80	16	7	5,5	5,1
UNC5/16	18	90	18	8	6,2	6,6
UNC3/8	16	100	20	10	8	8
UNC7/16	14	100	20	8	6,2	9,4
UNC1/2	13	110	25	9	7	10,8
UNC9/16	12	110	28	11	9	12,2
UNC5/8	11	110	28	12	9	13,5
UNC3/4	10	125	32	14	11	16,5
UNC7/8	9	140	32	18	14,5	19,5
UNC1"	8	160	36	18	14,5	22,25

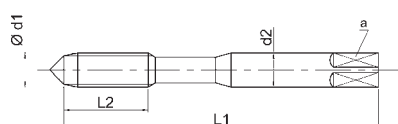
Identnummer - Code		
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H15UNC8-32	H15VAUNC8-32	H15TUNC8-32
H15UNC10-24	H15VAUNC10-24	H15TUNC10-24
H15UNC12-24	H15VAUNC12-24	H15TUNC12-24
H15UNC1/4-20	H15VAUNC1/4-20	H15TUNC1/4-20
H15UNC5/16-18	H15VAUNC5/16-18	H15TUNC5/16-18
H15UNC3/8-16	H15VAUNC3/8-16	H15TUNC3/8-16
H15UNC7/16-14	H15VAUNC7/16-14	H15TUNC7/16-14
H15UNC1/2-13	H15VAUNC1/2-13	H15TUNC1/2-13
H15UNC9/16-12	H15VAUNC9/16-12	H15TUNC9/16-12
H15UNC5/8-11	H15VAUNC5/8-11	H15TUNC5/8-11
H15UNC3/4-10	H15VAUNC3/4-10	H15TUNC3/4-10
H15UNC7/8-9	H15VAUNC7/8-9	H15TUNC7/8-9
H15UNC1"-8	H15VAUNC1"-8	H15TUNC1"-8



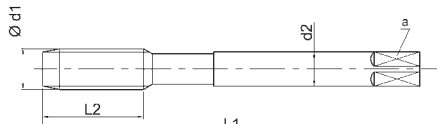
H151TN



DIN 371 d1 ≤ 3/8 unc



DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	H151TN			
Norm - Standard	DIN 371/376			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TN			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.6 - 2.4 - 3.3 - 3.4			
	4.4 - 5.3 - 5.4			
	6.2 - 6.3			
	7.2 - 9.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNC6	32	56	7	4	3	2,85	H151TNUNC6-32
UNC8	32	63	7	4,5	3,4	3,5	H151TNUNC8-32
UNC10	24	70	8	6	4,9	3,9	H151TNUNC10-24
UNC1/4	20	80	10	7	5,5	5,1	H151TNUNC1/4-20
UNC5/16	18	90	13	8	6,2	6,6	H151TNUNC5/16-18
UNC3/8	16	100	15	10	8	8	H151TNUNC3/8-16
UNC7/16	14	100	15	8	6,2	9,4	H151TNUNC7/16-14
UNC1/2	13	110	18	9	7	10,8	H151TNUNC1/2-13
UNC5/8	11	110	20	12	9	13,5	H151TNUNC5/8-11
UNC3/4	10	125	25	14	11	16,5	H151TNUNC3/4-10

UNC MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Spiralnuten 40°
Spiral flutes 40°



H40

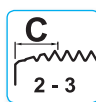
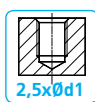
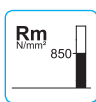
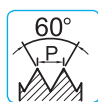


H40VA



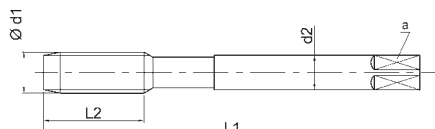
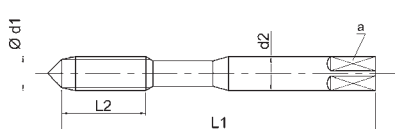
H40T

HSSE



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	H40	H40VA	H40T	
Norm - Standard	DIN 371/376	DIN 371/376	DIN 371/376	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	2B	2B	2B	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2 - 4.3	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
UNC6	32	56	7	4	3	2,85
UNC8	32	63	7	4,5	3,4	3,5
UNC10	24	70	8	6	4,9	3,9
UNC12	24	80	10	6	4,9	4,5
UNC1/4	20	80	10	7	5,5	5,1
UNC5/16	18	90	13	8	6,2	6,6
UNC3/8	16	100	15	10	8	8
UNC7/16	14	100	15	8	6,2	9,4
UNC1/2	13	110	18	9	7	10,8
UNC9/16	12	110	20	11	9	12,2
UNC5/8	11	110	20	12	9	13,5
UNC3/4	10	125	25	14	11	16,5
UNC7/8	9	140	25	18	14,5	19,5
UNC1"	8	160	30	18	14,5	22,25

Identnummer - Code		
H40UNC6-32	H40VAUNC6-32	H40TUNC6-32
H40UNC8-32	H40VAUNC8-32	H40TUNC8-32
H40UNC10-24	H40VAUNC10-24	H40TUNC10-24
H40UNC12-24	H40VAUNC12-24	H40TUNC12-24
H40UNC1/4-20	H40VAUNC1/4-20	H40TUNC1/4-20
H40UNC5/16-18	H40VAUNC5/16-18	H40TUNC5/16-18
H40UNC3/8-16	H40VAUNC3/8-16	H40TUNC3/8-16
H40UNC7/16-14	H40VAUNC7/16-14	H40TUNC7/16-14
H40UNC1/2-13	H40VAUNC1/2-13	H40TUNC1/2-13
H40UNC9/16-12	H40VAUNC9/16-12	H40TUNC9/16-12
H40UNC5/8-11	H40VAUNC5/8-11	H40TUNC5/8-11
H40UNC3/4-10	H40VAUNC3/4-10	H40TUNC3/4-10
H40UNC7/8-9	H40VAUNC7/8-9	H40TUNC7/8-9
H40UNC1"-8	H40VAUNC1"-8	H40TUNC1"-8

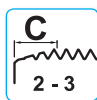
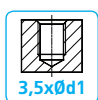
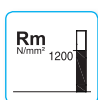
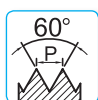
Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Blauer Ring Mit Gerade Spiralnuten 48°
Blue Ring Spiral Flutes 48°

HSSV3

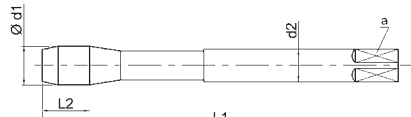
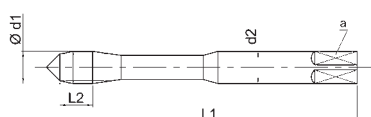


Superb-48°- x INOX
H42TLW



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	H42TLW			
Norm - Standard	DIN 371//376			
Schneidstoff - Tool material	HSSV3			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	C/2-3			

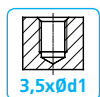
Einsatzgebiet - Application	1.3 - 1.4 - 1.5			
	2.1 - 2.2 - 2.3 - 2.4			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNC6	32	56	7	4	3	2,85	H42TLWUNC6-32
UNC8	32	63	7	4,5	3,4	3,5	H42TLWUNC8-32
UNC10	24	70	8	6	4,9	3,9	H42TLWUNC10-24
UNC1/4	20	80	10	7	5,5	5,1	H42TLWUNC1/4-20
UNC5/16	18	90	13	8	6,2	6,6	H42TLWUNC5/16-18
UNC3/8	16	100	15	10	8	8	H42TLWUNC3/8-16
UNC7/16	14	100	15	8	6,2	9,4	H42TLWUNC7/16-14
UNC1/2	13	110	18	9	7	10,8	H42TLWUNC1/2-13
UNC9/16	12	110	20	11	9	12,2	H42TLWUNC9/16-12
UNC5/8	11	110	20	12	9	13,5	H42TLWUNC5/8-11
UNC3/4	10	125	25	14	11	16,5	H42TLWUNC3/4-10
UNC7/8	9	140	25	18	14,5	19,5	H42TLWUNC7/8-9
UNC1"	8	160	30	18	14,5	22,25	H42TLWUNC1-8

UNC MASCHINENGEWINDEBOHRER - MACHINE TAPS

Unified Grobgewinde UNC ASME B1.1
UNC coarse thread ASME B1.1

Grüner Ring Mit Gerade Spiralnuten 45°
Green Ring Spiral Flutes 45°

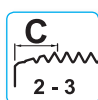
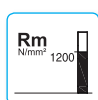
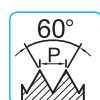


Universal 45°
H41TW



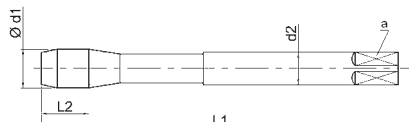
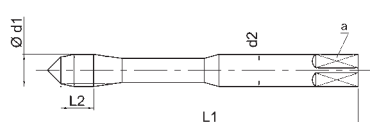
Universal 45°
H41TWKK

HSSE/PM



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	H41TW	H41TWKK		
Norm - Standard	DIN 371//376	DIN 371//376		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TW	TW		
Toleranz - Tolerance	2BX	2BX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	3.3 - 3.4 - 4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3		
	5.2	5.2		

Ød1	TPI	L1	L2	Ød2	a	
UNC4	40	56	5	3,5	2,7	2,35
UNC5	40	56	5	3,5	2,7	2,65
UNC6	32	56	7	4	3	2,85
UNC8	32	63	7	4,5	3,4	3,5
UNC10	24	70	8	6	4,9	3,9
UNC1/4	20	80	10	7	5,5	5,1
UNC5/16	18	90	13	8	6,2	6,6
UNC3/8	16	100	15	10	8	8
UNC7/16	14	100	15	8	6,2	9,4
UNC1/2	13	110	18	9	7	10,8
UNC9/16	12	110	20	11	9	12,2
UNC5/8	11	110	20	12	9	13,5
UNC3/4	10	125	25	14	11	16,5
UNC7/8	9	140	25	18	14,5	19,5
UNC1"	8	160	30	18	14,5	22,25

Identnummer - Code	
H41TWUNC4-40	H41TWKKUNC4-40
H41TWUNC5-40	H41TWKKUNC5-40
H41TWUNC6-32	H41TWKKUNC6-32
H41TWUNC8-32	H41TWKKUNC8-32
H41TWUNC10-24	H41TWKKUNC10-24
H41TWUNC1/4-20	H41TWKKUNC1/4-20
H41TWUNC5/16-18	H41TWKKUNC5/16-18
H41TWUNC3/8-16	H41TWKKUNC3/8-16
H41TWUNC7/16-14	H41TWKKUNC7/16-14
H41TWUNC1/2-13	H41TWKKUNC1/2-13
H41TWUNC9/16-12	H41TWKKUNC9/16-12
H41TWUNC5/8-11	H41TWKKUNC5/8-11
H41TWUNC3/4-10	H41TWKKUNC3/4-10
H41TWUNC7/8-9	H41TWKKUNC7/8-9
H41TWUNC1"-8	H41TWKKUNC1"-8

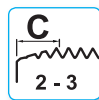
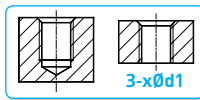
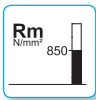
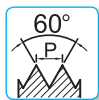
HSSE-CO



GFWFT (OHNE KANÄLEN)

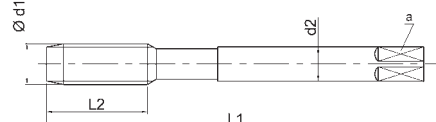
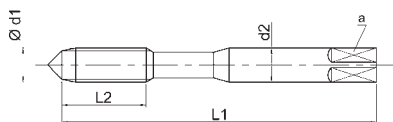


GFOT (MIT KANÄLEN)



DIN 371 d1 ≤ 3/8 unc

DIN 376 d1 ≥ 7/16 unc



Bestell - Nr. - Cat. No.	GFWFT	GFOT		
Norm - Standard	DIN 371/376	DIN 371/376		
Schneidstoff - Tool material	HSSE-CO	HSSE-CO		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	2BX	2BX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	4.1 - 4.2 - 4.3	4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	TPI	L1	L2	Ød2	a	
UNC6	32	56	11	4	3	3,15
UNC8	32	63	13	4,5	3,4	3,8
UNC10	24	70	13	6	4,9	4,3
UNC12	24	80	16	6	4,9	5
UNC1/4	20	80	16	7	5,5	5,75
UNC5/16	18	90	18	8	6,2	7,25
UNC3/8	16	100	20	10	8	8,75
UNC7/16	14	100	20	8	6,2	10,3
UNC1/2	13	110	25	9	7	11,8
UNC9/16	12	110	28	11	9	13,3
UNC5/8	11	110	28	12	9	14,8
UNC3/4	10	125	32	14	11	17,9

Identnummer - Code	
GFWFTUNC6-32	GF0TUNC6-32
GFWFTUNC8-32	GF0TUNC8-32
GFWFTUNC10-24	GF0TUNC10-24
GFWFTUNC12-24	GF0TUNC12-24
GFWFTUNC1/4-20	GF0TUNC1/4-20
GFWFTUNC5/16-18	GF0TUNC5/16-18
GFWFTUNC3/8-16	GF0TUNC3/8-16
GFWFTUNC7/16-14	GF0TUNC7/16-14
GFWFTUNC1/2-13	GF0TUNC1/2-13
GFWFTUNC9/16-12	GF0TUNC9/16-12
GFWFTUNC5/8-11	GF0TUNC5/8-11
GFWFTUNC3/4-10	GF0TUNC3/4-10

GEWINDE - KERNLOCH-Ø UND KERN-Ø MUTTERGEWINDE

TAPPING DRILL SIZES FOR CUTTING TAPS

UNC	P TPI		Muttergewinde Kern Ø	
			min	max
Nr. 6	32	2,85	2,642	2,896
Nr. 8	32	3,50	3,302	3,531
Nr. 10	24	3,90	3,683	3,937
Nr. 12	24	4,50	4,343	4,597
1/4	20	5,10	4,978	5,258
5/16	18	6,60	6,401	6,731
3/8	16	8,00	7,798	8,153
7/16	14	9,40	9,144	9,550
1/2	13	10,80	10,592	11,024
9/16	12	12,20	11,989	12,446
5/8	11	13,50	13,386	13,868
3/4	10	16,50	16,307	16,840
7/8	9	19,50	19,177	19,761
1"	8	22,25	21,971	22,606
1"-1/8	7	25,00	24,638	25,349
1"-1/4	7	28,00	27,813	28,524
1"-3/8	6	30,75	30,353	31,155
1"-1/2	6	34,00	33,528	34,290
1"-3/4	5	39,50	38,938	39,802
2"	4,5	45,00	44,679	45,593

GEWINDE-VORBOHRDURCHMESSER GEWINDEFORMEN

THREAD PILOT HOLE DIAMETERS THREAD FORMING

UNC	P TPI		Toll.
6	32	3,15	±0,03
8	32	3,80	±0,03
10	24	4,30	±0,05
12	24	5,00	±0,05
1/4	20	5,75	±0,05
5/16	18	7,25	±0,05
3/8	16	8,75	±0,05
7/16	14	10,30	±0,05
1/2	13	11,80	±0,05
9/16	12	13,30	±0,05
5/8	11	14,80	±0,05
3/4	10	17,9	±0,05
7/8	9	21	±0,05
1"	8	24	±0,05

NOTIZIEN
NOTE



MASCHINENGWINDEBOHRER
MACHINE TAPS

UNF 

UNF

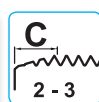
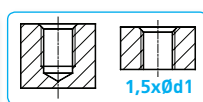
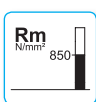
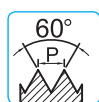
MASCHINENGEWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Gerade genutet
Straight flute

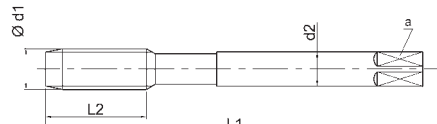
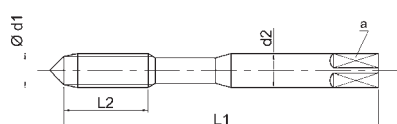


HSSE



DIN 371 $d1 \leq 1/4$ unf

DIN 374 $d1 \geq 5/16$ unf



Bestell - Nr. - Cat. No.	SF			
Norm - Standard	DIN 371/374			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	-			
Toleranz - Tolerance	2B			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4			
	3.4 - 4.2 - 4.3 - 5.2 - 5.3			
	8.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNF6	40	56	11	4	3	2,95	SFUNF6-40
UNF8	36	63	13	4,5	3,4	3,5	SFUNF8-36
UNF10	32	70	13	6	4,9	4,1	SFUNF10-32
UNF12	28	80	16	6	4,9	4,6	SFUNF12-28
UNF1/4	28	80	16	7	5,5	5,5	SFUNF1/4-28
UNF5/16	24	90	18	6	4,9	6,9	SFRSUNF5/16-24
UNF3/8	24	90	15	7	5,5	8,5	SFRSUNF3/8-24
UNF7/16	20	100	20	8	6,2	9,9	SFUNF7/16-20
UNF1/2	20	100	20	9	7	11,5	SFUNF1/2-20
UNF9/16	18	100	22	11	9	12,9	SFUNF9/16-18
UNF5/8	18	100	22	12	9	14,5	SFUNF5/8-18
UNF3/4	16	110	25	14	11	17,5	SFUNF3/4-16
UNF7/8	14	125	25	18	14,5	20,4	SFUNF7/8-14
UNF1"	12	140	28	18	14,5	23,25	SFUNF1"-12

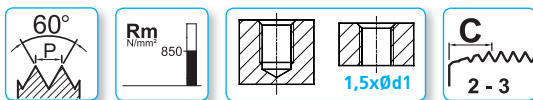
UNF MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Gerade genutet für Guss
Straight flute for Cast-Iron

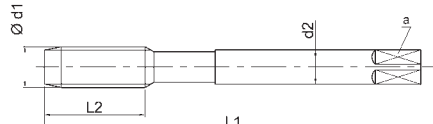
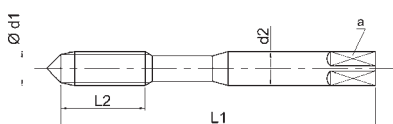


HSSE



DIN 371 $d1 \leq 1/4$ unf

DIN 374 $d1 \geq 5/16$ unf



Bestell - Nr. - Cat. No.	620TN			
Norm - Standard	DIN 371/374			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	TN			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	3.1 - 3.2 - 3.3 - 3.4			
	4.3 - 4.4 - 4.5 - 4.6			
	5.3 - 8.2			
	10.1			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNF6	40	56	11	4	3	2,95	620TNUNF6-40
UNF8	36	63	13	4,5	3,4	3,5	620TNUNF8-36
UNF10	32	70	13	6	4,9	4,1	620TNUNF10-32
UNF12	28	80	16	6	4,9	4,6	620TNUNF12-28
UNF1/4	28	80	16	7	5,5	5,5	620TNUNF1/4-28
UNF5/16	24	90	18	6	4,9	6,9	620RSTNUNF5/16-24
UNF3/8	24	90	15	7	5,5	8,5	620RSTNUNF3/8-24
UNF7/16	20	100	20	8	6,2	9,9	620TNUNF7/16-20
UNF1/2	20	100	20	9	7	11,5	620TNUNF1/2-20
UNF9/16	18	100	22	11	9	12,9	620TNUNF9/16-18
UNF5/8	18	100	22	12	9	14,5	620TNUNF5/8-18
UNF3/4	16	110	25	14	11	17,5	620TNUNF3/4-16
UNF7/8	14	125	25	18	14,5	20,4	620TNUNF7/8-14
UNF1"	12	140	28	18	14,5	23,25	620TNUNF1"-12

UNF

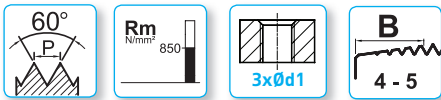
MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Gerade genutet mit Schälanschnitt
Straight flute with spiral point

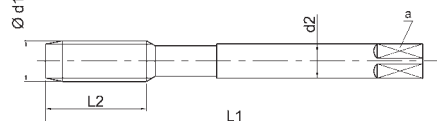
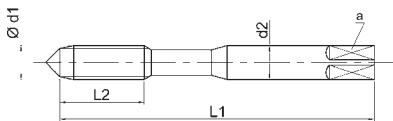


HSSE



DIN 371 $d1 \leq 1/4$ unf

DIN 374 $d1 \geq 5/16$ unf



Bestell - Nr. - Cat. No.	420	420VA	420T	
Norm - Standard	DIN 371/374	DIN 371/374	DIN 371/374	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	2B	2B	2B	
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2 - 5.1 - 5.2	4.1 - 4.2 - 5.1 - 5.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
		6.1 - 7.1	5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
UNF6	40	56	11	4	3	2,95
UNF8	36	63	13	4,5	3,4	3,5
UNF10	32	70	13	6	4,9	4,1
UNF12	28	80	16	6	4,9	4,6
UNF1/4	28	80	16	7	5,5	5,5
UNF5/16	24	90	18	6	4,9	6,9
UNF3/8	24	90	15	7	5,5	8,5
UNF7/16	20	100	20	8	6,2	9,9
UNF1/2	20	100	20	9	7	11,5
UNF9/16	18	100	22	11	9	12,9
UNF5/8	18	100	22	12	9	14,5
UNF3/4	16	110	25	14	11	17,5
UNF7/8	14	125	25	18	14,5	20,4
UNF1"	12	140	28	18	14,5	23,25

Identnummer - Code		
420UNF6-40	420VAUNF6-40	420TUNF6-40
420UNF8-36	420VAUNF8-36	420TUNF8-36
420UNF10-32	420VAUNF10-32	420TUNF10-32
420UNF12-28	420VAUNF12-28	420TUNF12-28
420UNF1/4-28	420VAUNF1/4-28	420TUNF1/4-28
420RSUNF5/16-24	420RSAUNF5/16-24	420RSTUNF5/16-24
420RSUNF3/8-24	420RSAUNF3/8-24	420RSTUNF3/8-24
420UNF7/16-20	420VAUNF7/16-20	420TUNF7/16-20
420UNF1/2-20	420VAUNF1/2-20	420TUNF1/2-20
420UNF9/16-18	420VAUNF9/16-18	420TUNF9/16-18
420UNF5/8-18	420VAUNF5/8-18	420TUNF5/8-18
420UNF3/4-16	420VAUNF3/4-16	420TUNF3/4-16
420UNF7/8-14	420VAUNF7/8-14	420TUNF7/8-14
420UNF1"-12	420VAUNF1"-12	420TUNF1"-12

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Grüner, Blauer Ring mit gerader Nutenform mit Schälanschnitt
Green, Blue Rings Straight flutes with spiral point

Universal



421TW

HSSE/PM

Superb-X INOX



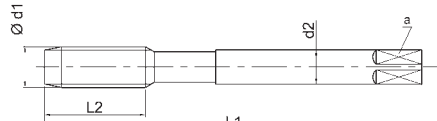
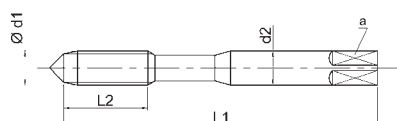
422TLW

HSSV3



DIN 371 d1 ≤ 1/4 unf

DIN 374 d1 ≥ 5/16 unf



Bestell - Nr. - Cat. No.	421TW	422TLW		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE/PM	HSSV3		
Oberfläche - Surface	TW	TLW		
Toleranz - Tolerance	2BX	2BX		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3 - 2.4		
	3.3 - 3.4 - 4.2 - 4.3			
	5.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code	
UNF6	40	56	11	4	3	2,95	421TWUNF6-40	422TLWUNF6-40
UNF8	36	63	13	4,5	3,4	3,5	421TWUNF8-36	422TLWUNF8-36
UNF10	32	70	13	6	4,9	4,1	421TWUNF10-32	422TLWUNF10-32
UNF1/4	28	80	16	7	5,5	5,5	421TWUNF1/4-28	422TLWUNF1/4-28
UNF5/16	24	90	18	6	4,9	6,9	421RSTWUNF5/16-24	422RSTLWUNF5/16-24
UNF3/8	24	90	15	7	5,5	8,5	421RSTWUNF3/8-24	422RSTLWUNF3/8-24
UNF7/16	20	100	20	8	6,2	9,9	421TWUNF7/16-20	422TLWUNF7/16-20
UNF1/2	20	100	20	9	7	11,5	421TWUNF1/2-20	422TLWUNF1/2-20
UNF9/16	18	100	22	11	9	12,9	421TWUNF9/16-18	422TLWUNF9/16-18
UNF5/8	18	100	22	12	9	14,5	421TWUNF5/8-18	422TLWUNF5/8-18
UNF3/4	16	110	25	14	11	17,5	421TWUNF3/4-16	422TLWUNF3/4-16
UNF7/8	14	125	25	18	14,5	20,4	421TWUNF7/8-14	422TLWUNF7/8-14
UNF1"	12	140	28	18	14,5	23,25	421TWUNF1"-12	422TLWUNF1"-12

UNF

MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

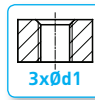
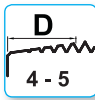
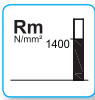
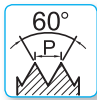
Spiralnuten 15°
Spiral flutes 15°

TITANLEGIERUNGEN
TITANIUM ALLOYS

HSSE/PM

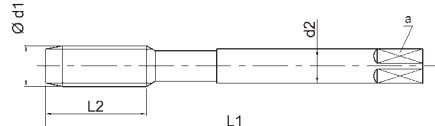
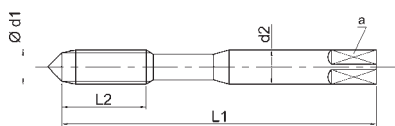


HLF151TN



DIN 371 d1 ≤ 3/8 unf

DIN 374 d1 ≥ 7/16 unf



Bestell - Nr. - Cat. No.	HLF151TN			
Norm - Standard	DIN 371/374			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TN			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	D/4-5			

Einsatzgebiet - Application	1.6 - 2.4			
	3.3 - 3.4			
	4.4 - 5.3 - 5.4 - 6.2 - 6.3			
	7.2 - 9.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNF6	40	56	11	4	3	2,95	HLF151TNUNF6-40
UNF8	36	63	13	4,5	3,4	3,5	HLF151TNUNF8-36
UNF10	32	70	13	6	4,9	4,1	HLF151TNUNF10-32
UNF12	28	80	16	6	4,9	4,6	HLF151TNUNF12-28
UNF1/4	28	80	16	7	5,5	5,5	HLF151TNUNF1/4-28
UNF5/16	24	90	18	8	6,2	6,9	HLF151TNUNF5/16-24
UNF3/8	24	100	20	10	8	8,5	HLF151TNUNF3/8-24
UNF7/16	20	100	20	8	6,2	9,9	HLF151TNUNF7/16-20
UNF1/2	20	100	20	9	7	11,5	HLF151TNUNF1/2-20
UNF5/8	18	100	22	12	9	14,5	HLF151TNUNF5/8-18
UNF3/4	16	110	25	14	11	17,5	HLF151TNUNF3/4-16

UNF MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Spiralnuten 15°
Spiral flutes 15°



H15

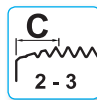
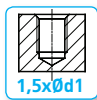
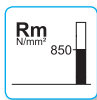
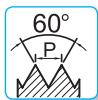


H15VA



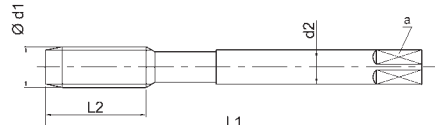
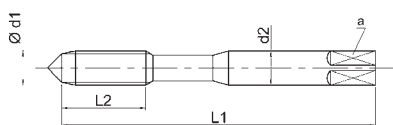
H15T

HSSE 



DIN 371 d1 ≤ 1/4 unf

DIN 374 d1 ≥ 5/16 unf



Bestell - Nr. - Cat. No.	H15	H15VA	H15T	
Norm - Standard	DIN 371/374	DIN 371/374	DIN 371/374	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	2B	2B	2B	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	
		6.1 - 7.1		

Ød1	TPI	L1	L2	Ød2	a	
UNF6	40	56	11	4	3	2,95
UNF8	36	63	13	4,5	3,4	3,5
UNF10	32	70	13	6	4,9	4,1
UNF12	28	80	16	6	4,9	4,6
UNF1/4	28	80	16	7	5,5	5,5
UNF5/16	24	90	18	6	4,9	6,9
UNF3/8	24	90	15	7	5,5	8,5
UNF7/16	20	100	20	8	6,2	9,9
UNF1/2	20	100	20	9	7	11,5
UNF9/16	18	100	22	11	9	12,9
UNF5/8	18	100	22	12	9	14,5
UNF3/4	16	110	25	14	11	17,5
UNF7/8	14	125	25	18	14,5	20,4
UNF1"	12	140	28	18	14,5	23,25

Identnummer - Code		
H15UNF6-32	H15VAUNF6-32	H15TUNF6-32
H15UNF8-32	H15VAUNF8-32	H15TUNF8-32
H15UNF10-24	H15VAUNF10-24	H15TUNF10-24
H15UNF12-24	H15VAUNF12-24	H15TUNF12-24
H15UNF1/4-20	H15VAUNF1/4-20	H15TUNF1/4-20
H15RSUNF5/16-18	H15RSVAUNF5/16-18	H15RSTUNF5/16-18
H15RSUNF3/8-16	H15RSVAUNF3/8-16	H15RSTUNF3/8-16
H15UNF7/16-14	H15VAUNF7/16-14	H15TUNF7/16-14
H15UNF1/2-13	H15VAUNF1/2-13	H15TUNF1/2-13
H15UNF9/16-12	H15VAUNF9/16-12	H15TUNF9/16-12
H15UNF5/8-11	H15VAUNF5/8-11	H15TUNF5/8-11
H15UNF3/4-10	H15VAUNF3/4-10	H15TUNF3/4-10
H15UNF7/8-9	H15VAUNF7/8-9	H15TUNF7/8-9
H15UNF1"-8	H15VAUNF1"-8	H15TUNF1"-8

UNF

MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

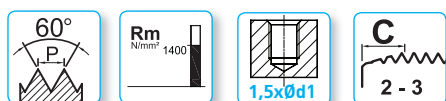
Spiralnuten 15°
Spiral flutes 15°

TITANLEGIERUNGEN
TITANIUM ALLOYS

HSSE/PM

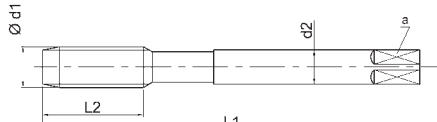
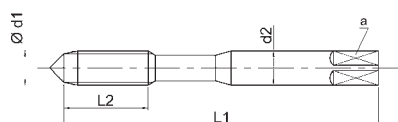


H151TN



DIN 371 d1 ≤ 3/8 unf

DIN 374 d1 ≥ 7/16 unf



Bestell - Nr. - Cat. No.	H151TN			
Norm - Standard	DIN 371/374			
Schneidstoff - Tool material	HSSE/PM			
Oberfläche - Surface	TN			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.6 - 2.4 - 3.3 - 3.4			
	4.4 - 5.3 - 5.4			
	6.2 - 6.3			
	7.2 - 9.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNF6	40	56	7	4	3	2,95	H151TNUNF6-40
UNF8	36	63	7	4,5	3,4	3,5	H151TNUNF8-36
UNF10	32	70	8	6	4,9	4,1	H151TNUNF10-32
UNF1/4	28	80	10	7	5,5	5,5	H151TNUNF1/4-28
UNF5/16	24	90	13	8	6,2	6,9	H151TNUNF5/16-24
UNF3/8	24	100	15	10	8	8,5	H151TNUNF3/8-24
UNF7/16	20	100	15	8	6,2	9,9	H151TNUNF7/16-20
UNF1/2	20	100	13	9	7	11,5	H151TNUNF1/2-20
UNF5/8	18	100	15	12	9	14,5	H151TNUNF5/8-18
UNF3/4	16	110	17	14	11	17,5	H151TNUNF3/4-16

UNF

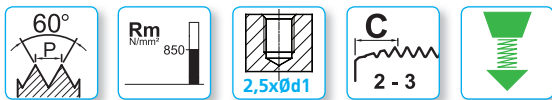
MASCHINENGWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Spiralnuten 40°
Spiral flutes 40°

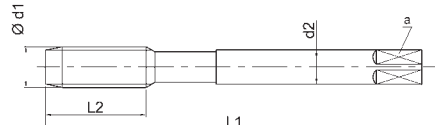
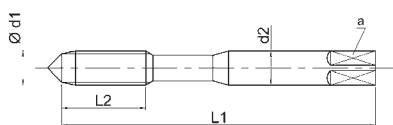


HSSE 



DIN 371 d1 ≤ 1/4 unf

DIN 374 d1 ≥ 5/16 unf



Bestell - Nr. - Cat. No.	H40	H40VA	H40T	
Norm - Standard	DIN 371/374	DIN 371/374	DIN 371/374	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	2B	2B	2B	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2	4.1 - 4.2 - 4.3	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
	5.1 - 5.2	5.1 - 5.2	5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
UNF6	40	56	7	4	3	2,95
UNF8	36	63	7	4,5	3,4	3,5
UNF10	32	70	8	6	4,9	4,1
UNF12	28	80	10	6	4,9	4,6
UNF1/4	28	80	10	7	5,5	5,5
UNF5/16	24	90	13	6	4,9	6,9
UNF3/8	24	90	15	7	5,5	8,5
UNF7/16	20	100	15	8	6,2	9,9
UNF1/2	20	100	13	9	7	11,5
UNF9/16	18	100	15	11	9	12,9
UNF5/8	18	100	15	12	9	14,5
UNF3/4	16	110	17	14	11	17,5
UNF7/8	14	125	18	18	14,5	20,4
UNF1"	12	140	22	18	14,5	23,25

Identnummer - Code		
H40UNF6-40	H40VAUNF6-40	H40TUNF6-40
H40UNF8-36	H40VAUNF8-36	H40TUNF8-36
H40UNF10-32	H40VAUNF10-32	H40TUNF10-32
H40UNF12-28	H40VAUNF12-28	H40TUNF12-28
H40UNF1/4-28	H40VAUNF1/4-28	H40TUNF1/4-28
H40RSUNF5/16-24	H40RSAUNF5/16-24	H40RSTUNF5/16-24
H40RSUNF3/8-24	H40RSAUNF3/8-24	H40RSTUNF3/8-24
H40UNF7/16-20	H40VAUNF7/16-20	H40TUNF7/16-20
H40UNF1/2-20	H40VAUNF1/2-20	H40TUNF1/2-20
H40UNF9/16-18	H40VAUNF9/16-18	H40TUNF9/16-18
H40UNF5/8-18	H40VAUNF5/8-18	H40TUNF5/8-18
H40UNF3/4-16	H40VAUNF3/4-16	H40TUNF3/4-16
H40UNF7/8-14	H40VAUNF7/8-14	H40TUNF7/8-14
H40UNF1"-12	H40VAUNF1"-12	H40TUNF1"-12

UNF

MASCHINENGEWINDEBOHRER - MACHINE TAPS

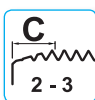
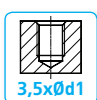
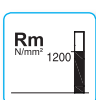
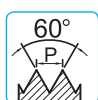
Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Blauer Ring Mit Gerade Spiralnuten 48°
Blue Ring Spiral Flutes 48°

HSSV3

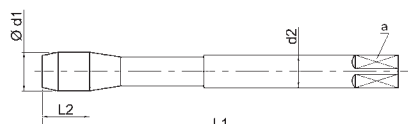
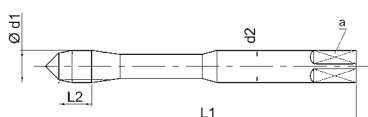


Superb-48°- x INOX
H42TLW



DIN 371 d1 ≤ 1/4 unf

DIN 374 d1 ≥ 5/16 unf



Bestell - Nr. - Cat. No.	H42TLW			
Norm - Standard	DIN 371/374			
Schneidstoff - Tool material	HSSV3			
Oberfläche - Surface	TLW			
Toleranz - Tolerance	2BX			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.3 - 1.4 - 1.5			
	2.1 - 2.2 - 2.3 - 2.4			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
UNF6	40	56	7	4	3	2,95	H42TLWUNF6-40
UNF8	36	63	7	4,5	3,4	3,5	H42TLWUNF8-36
UNF10	32	70	8	6	4,9	4,1	H42TLWUNF10-32
UNF1/4	28	80	10	7	5,5	5,5	H42TLWUNF1/4-28
UNF5/16	24	90	13	6	4,9	6,9	H42RSTLWUNF5/16-24
UNF3/8	24	90	15	7	5,5	8,5	H42RSTLWUNF3/8-24
UNF7/16	20	100	15	8	6,2	9,9	H42TLWUNF7/16-20
UNF1/2	20	100	13	9	7	11,5	H42TLWUNF1/2-20
UNF9/16	18	100	15	11	9	12,9	H42TLWUNF9/16-18
UNF5/8	18	100	15	12	9	14,5	H42TLWUNF5/8-18
UNF3/4	16	110	17	14	11	17,5	H42TLWUNF3/4-16
UNF7/8	14	125	18	18	14,5	20,4	H42TLWUNF7/8-14
UNF1"	12	140	22	18	14,5	23,25	H42TLWUNF1"-12

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

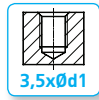
Grüner Ring Mit Gerade Spiralnuten 45°
Green Ring Spiral Flutes 45°



3xØd1



Universal 45°
H41TW

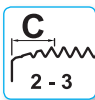
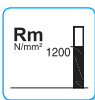
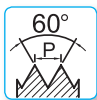


3,5xØd1



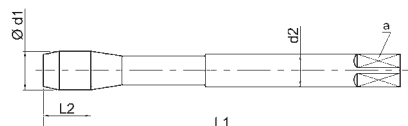
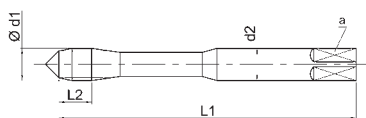
Universal 45°
H41TWKK

HSSE/PM



DIN 371 d1 ≤ 1/4 unf

DIN 374 d1 ≥ 5/16 unf



Bestell - Nr. - Cat. No.	H41TW	H41TWKK		
Norm - Standard	DIN 371/374	DIN 371//374		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	TW	TW		
Toleranz - Tolerance	2BX	2BX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	3.3 - 3.4 - 4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3		
	5.2	5.2		

Ød1	TPI	L1	L2	Ød2	a	
UNF6	40	56	7	4	3	2,95
UNF8	36	63	7	4,5	3,4	3,5
UNF10	32	70	8	6	4,9	4,1
UNF1/4	28	80	10	7	5,5	5,5
UNF5/16	24	90	13	6	4,9	6,9
UNF3/8	24	90	15	7	5,5	8,5
UNF7/16	20	100	15	8	6,2	9,9
UNF1/2	20	100	13	9	7	11,5
UNF9/16	18	100	15	11	9	12,9
UNF5/8	18	100	15	12	9	14,5
UNF3/4	16	110	17	14	11	17,5
UNF7/8	14	125	18	18	14,5	20,4
UNF1"	12	140	22	18	14,5	23,25

Identnummer - Code	
H41TWUNF6-40	-
H41TWUNF8-36	-
H41TWUNF10-32	-
H41TWUNF1/4-28	H41TWKKUNF1/4-28
H41RSTWUNF5/16-24	H41RSTWKKUNF5/16-24
H41RSTWUNF3/8-24	H41RSTWKKUNF3/8-24
H41TWUNF7/16-20	H41TWKKUNF7/16-20
H41TWUNF1/2-20	H41TWKKUNF1/2-20
H41TWUNF9/16-18	H41TWKKUNF9/16-18
H41TWUNF5/8-18	H41TWKKUNF5/8-18
H41TWUNF3/4-16	H41TWKKUNF3/4-16
H41TWUNF7/8-14	H41TWKKUNF7/8-14
H41TWUNF1"-12	H41TWKKUNF1"-12

UNF

MASCHINENGEWINDEBOHRER - MACHINE TAPS

Unified-Feingewinde UNF ASME B1.1
UNF fine thread ASME B1.1

Gewindeformer
Roll Taps

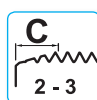
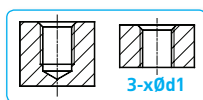
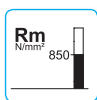
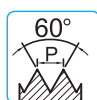
HSSE-CO



GFWFT (OHNE KANÄLEN)

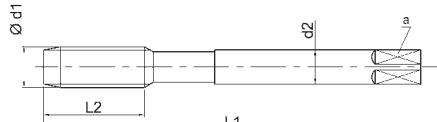
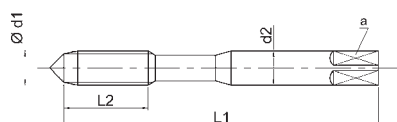


GFOT (MIT KANÄLEN)



DIN 371 d1 ≤ 3/8 unf

DIN 374 d1 ≥ 7/16 unf



Bestell - Nr. - Cat. No.	GFWFT	GFOT		
Norm - Standard	DIN 371/374	DIN 371/374		
Schneidstoff - Tool material	HSSE-CO	HSSE-CO		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	2BX	2BX		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3		
	4.1 - 4.2 - 4.3	4.1 - 4.2 - 4.3		
	5.1 - 5.2	5.1 - 5.2		

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code	
UNF6	40	56	11	4	3	3,2	GFWFTUNF6-40	GF0TUNF6-40
UNF8	36	63	13	4,5	3,4	3,85	GFWFTUNF8-36	GF0TUNF8-36
UNF10	32	70	13	6	4,9	4,45	GFWFTUNF10-32	GF0TUNF10-32
UNF1/4	28	80	16	7	5,5	5,9	GFWFTUNF1/4-28	GF0TUNF1/4-28
UNF5/16	24	90	18	8	6,2	7,45	GFWFTUNF5/16-24	GF0TUNF5/16-24
UNF3/8	24	90	15	10	8	9	GFWFTUNF3/8-24	GF0TUNF3/8-24
UNF7/16	20	100	20	8	6,2	10,5	GFWFTUNF7/16-20	GF0TUNF7/16-20
UNF1/2	20	100	20	9	7	12,1	GFWFTUNF1/2-20	GF0TUNF1/2-20
UNF9/16	18	100	22	11	9	13,7	GFWFTUNF9/16-18	GF0TUNF9/16-18
UNF3/4	16	110	25	14	11	18,4	GFWFTUNF3/4-16	GF0TUNF3/4-16
UNF1"	12	140	28	18	14,5	24,45	GFWFTUNF1"-12	GF0TUNF1"-12

GEWINDE - KERNLOCH-Ø UND KERN-Ø MUTTERGEWINDE

TAPPING DRILL SIZES FOR CUTTING TAPS

UNF	P TPI		Muttergewinde Kern Ø	
			min	max
Nr. 6	40	2,95	2,819	3,023
Nr. 8	36	3,50	3,404	3,607
Nr. 10	32	4,10	3,962	4,166
Nr. 12	28	4,60	4,469	4,724
1/4	28	5,50	5,359	5,588
5/16	24	6,90	6,782	7,036
3/8	24	8,50	8,382	8,636
7/16	20	9,90	9,728	10,033
1/2	20	11,50	11,328	11,608
9/16	18	12,90	12,751	13,081
5/8	18	14,50	14,351	14,681
3/4	16	17,50	17,323	17,678
7/8	14	20,40	20,269	20,676
1"	12	23,25	23,114	23,571
1"-1/8	12	26,50	26,289	26,746
1"-1/4	12	29,50	29,464	29,921
1"-3/8	12	32,75	32,639	33,096
1 -1/2	12	36,00	35,814	36,271

GEWINDE-VORBOHRDURCHMESSER GEWINDEFORMEN

THREAD PILOT HOLE DIAMETERS THREAD FORMING

UNF	P TPI		Toll.
6	40	3,20	±0,03
8	36	3,85	±0,03
10	32	4,45	±0,03
12	28	5,05	±0,05
1/4	28	5,90	±0,05
5/16	24	7,45	±0,05
3/8	24	9,00	±0,05
7/16	20	10,50	±0,05
1/2	20	12,10	±0,05
9/16	18	13,70	±0,05
5/8	18	15,25	±0,05
3/4	16	18,40	±0,05
7/8	14	21,40	±0,05
1'	12	24,45	±0,05
1'-1/8	12	27,60	±0,05
1'-1/4	12	30,80	±0,05
1'-3/8	12	34,00	±0,05
1'-1/2	12	37,15	±0,05

8UN

MASCHINENGEWINDEBOHRER - MACHINE TAPS

Gewinde UN ASME B1.1
UN thread ASME B1.1

Spiralnuten 40°
Spiral flutes 40°

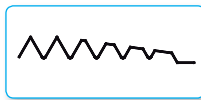
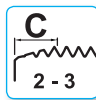
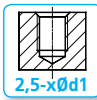
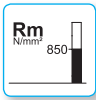
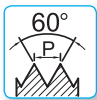
HSSE



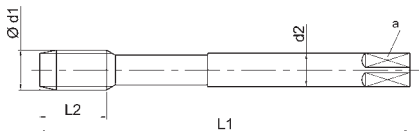
H40



H40T



~ DIN 2184-1



Bestell - Nr. - Cat. No.	H40	H40T		
Norm - Standard	~ DIN 2184-1	~ DIN 2184-1		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	T		
Toleranz - Tolerance	2B	2B		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.4	3.4		
	4.2 - 4.3	4.2 - 4.3		
	5.2 - 5.3 - 8.2	5.2 - 5.3 - 8.2		

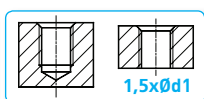
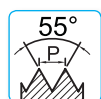
Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code	
8UN1"1/8	8	180	40	22	18	25,4	H40UN1"1/8-8	H40TUN1"1/8-8
8UN1"1/4	8	180	40	22	18	28,6	H40UN1"1/4-8	H40TUN1"1/4-8
8UN1"3/8	8	200	50	28	22	31,8	H40UN1"3/8-8	H40TUN1"3/8-8
8UN1"1/2	8	200	50	28	22	34,9	H40UN1"1/2-8	H40TUN1"1/2-8
8UN1"3/4	8	200	50	36	29	41,3	H40UN1"3/4-8	H40TUN1"3/4-8
8UN2"	8	225	60	40	32	47,7	H40UN2"-8	H40TUN2"-8
8UN2"1/4	8	250	65	45	35	54	H40UN2"1/4-8	H40TUN2"1/4-8
8UN2"1/2	8	275	70	50	39	60,3	H40UN2"1/2-8	H40TUN2"1/2-8



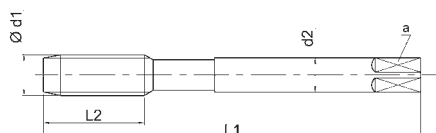
MASCHINENGWINDEBOHRER
MACHINE TAPS



HSSE



DIN 5156



Bestell - Nr. - Cat. No.	SF			
Norm - Standard	DIN 5156			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	-			
Toleranz - Tolerance	ISO 228			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4			
	3.4 - 4.2 - 4.3 - 5.2 - 5.3			
	8.2			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
G1/8	28	90	15	7	5,5	8,8	SFG1/8
G1/4	19	100	22	11	9	11,8	SFG1/4
G3/8	19	100	22	12	9	15,25	SFG3/8
G1/2	14	125	25	16	12	19	SFG1/2
G5/8	14	125	25	18	14,5	21	SFG5/8
G3/4	14	140	25	20	16	24,5	SFG3/4
G7/8	14	150	28	22	18	28,25	SFG7/8
G1"	11	160	30	25	20	30,75	SFG1"
G1"1/8	11	170	30	28	22	35,5	SFG1"1/8
G1"1/4	11	170	30	32	24	39,5	SFG1"1/4
G1"1/2	11	190	32	36	29	45,25	SFG1"1/2

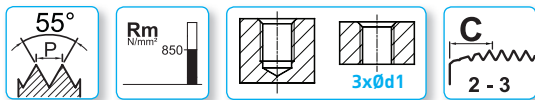
G MASCHINENGWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228
British standard pipe thread DIN EN ISO 228

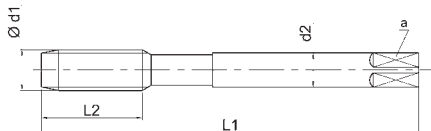
Gerade genutet für Guss
Straight flute for Cast-Iron



HSSE 



DIN 5156



Bestell - Nr. - Cat. No.	720TN			
Norm - Standard	DIN 5156			
Schneidstoff - Tool material	HSSE			
Oberfläche - Surface	TN			
Toleranz - Tolerance	ISO 228X			
Anschnittform - Chamfer form	C/2-3			

Einsatzgebiet - Application	3.1 - 3.3 - 3.4 - 3.5			
	4.3 - 4.4 - 4.5 - 4.6			
	5.3 - 8.2 - 10.1			

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code
G1/8	28	90	15	7	5,5	8,8	720TNG1/8
G1/4	19	100	22	11	9	11,8	720TNG1/4
G3/8	19	100	22	12	9	15,25	720TNG3/8
G1/2	14	125	25	16	12	19	720TNG1/2
G5/8	14	125	25	18	14,5	21	720TNG5/8
G3/4	14	140	25	20	16	24,5	720TNG3/4
G7/8	14	150	28	22	18	28,25	720TNG7/8
G1"	11	160	30	25	20	30,75	720TNG1"
G1"1/8	11	170	30	28	22	35,5	720TNG1"1/8
G1"1/4	11	170	30	32	24	39,5	720TNG1"1/4
G1"1/2	11	190	32	36	29	45,25	720TNG1"1/2

G MASCHINENGEWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228

British standard pipe thread DIN EN ISO 228

Gerade genutet mit Schälanschnitt

Straight flutes with spiral point

HSSE



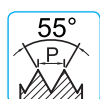
520



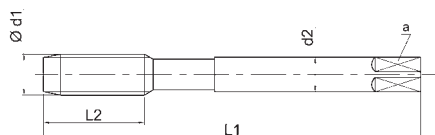
520VA



520T



DIN 5156



Bestell - Nr. - Cat. No.	520	520VA	520T	
Norm - Standard	DIN 5156	DIN 5156	DIN 5156	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	ISO 228	ISO 228	ISO 228	
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2 - 5.1 - 5.2	4.1 - 4.2 - 5.1 - 5.2	3.3 - 3.4 - 4.1 - 4.2 - 4.3	
		6.1 - 7.1	5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
G1/8	28	90	15	7	5,5	8,8
G1/4	19	100	22	11	9	11,8
G3/8	19	100	22	12	9	15,25
G1/2	14	125	25	16	12	19
G5/8	14	125	25	18	14,5	21
G3/4	14	140	25	20	16	24,5
G1"	11	160	30	25	20	30,75

Identnummer - Code		
520G1/8	520VAG1/8	520TG1/8
520G1/4	520VAG1/4	520TG1/4
520G3/8	520VAG3/8	520TG3/8
520G1/2	520VAG1/2	520TG1/2
520G5/8	520VAG5/8	520TG5/8
520G3/4	520VAG3/4	520TG3/4
520G1"	520VAG1"	520TG1"

G MASCHINENGEWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228

British standard pipe thread DIN EN ISO 228

Grüner, Blauer Ring mit gerader Nutenform mit Schälanschnitt

Green, Blue Rings Straight flutes with spiral point

Universal



521TW

HSSE/PM



HSSV3



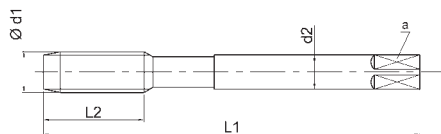
Superb-X INOX



422TLW



DIN 5156



Bestell - Nr. - Cat. No.	521TW	422TLW		
Norm - Standard	DIN 5156	DIN 5156		
Schneidstoff - Tool material	HSSE/PM	HSSV3		
Oberfläche - Surface	TW	TLW		
Toleranz - Tolerance	ISO 228X	ISO 228X		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3 - 2.4		
	3.3 - 3.4 - 4.2 - 4.3			
	5.2			

Ød1	TPI	L1	L2	Ød2	a	
G1/8	28	90	15	7	5,5	8,8
G1/4	19	100	22	11	9	11,8
G3/8	19	100	22	12	9	15,25
G1/2	14	125	25	16	12	19
G3/4	14	140	25	20	16	24,5

Identnummer - Code	
521TWG1/8	422TLWG1/8
521TWG1/4	422TLWG1/4
521TWG3/8	422TLWG3/8
521TWG1/2	422TLWG1/2
521TWG3/4	422TLWG3/4

G MASCHINENGEWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228

British standard pipe thread DIN EN ISO 228

Spiralnuten 15°

Spiral flutes 15°

HSSE



H15



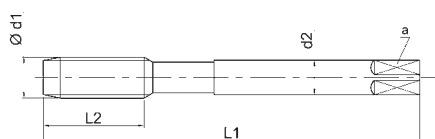
H15VA



H15T



DIN 5156



Bestell - Nr. - Cat. No.	H15	H15VA	H15T	
Norm - Standard	DIN 5156	DIN 5156	DIN 5156	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	ISO 228	ISO 228	ISO 228	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2 - 5.1 - 5.2	4.1 - 4.2 - 5.1 - 5.2	3.3 - 3.4	
		6.2 - 7.1	4.1 - 4.2 - 4.3 - 5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
G1/8	28	90	15	7	5,5	8,8
G1/4	19	100	22	11	9	11,8
G3/8	19	100	22	12	9	15,25
G1/2	14	125	25	16	12	19
G5/8	14	125	25	18	14,5	21
G3/4	14	140	25	20	16	24,5
G7/8	14	150	28	22	18	28,25
G1"	11	160	30	25	20	30,75

Identnummer - Code		
H15G1/8	H15VAG1/8	H15TG1/8
H15G1/4	H15VAG1/4	H15TG1/4
H15G3/8	H15VAG3/8	H15TG3/8
H15G1/2	H15VAG1/2	H15TG1/2
H15G5/8	H15VAG5/8	H15TG5/8
H15G3/4	H15VAG3/4	H15TG3/4
H15G7/8	H15VAG7/8	H15TG7/8
H15G1"	H15VAG1"	H15TG1"

G MASCHINENGEWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228
British standard pipe thread DIN EN ISO 228

Spiralnuten 40°
Spiral flutes 40°



H40

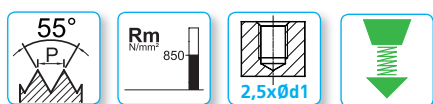


H40VA

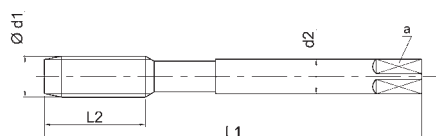


H40T

HSSE



DIN 5156



Bestell - Nr. - Cat. No.	H40	H40VA	H40T	
Norm - Standard	DIN 5156	DIN 5156	DIN 5156	
Schneidstoff - Tool material	HSSE	HSSE	HSSE	
Oberfläche - Surface	-	VA	T	
Toleranz - Tolerance	ISO 228	ISO 228	ISO 228	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	
	4.1 - 4.2 - 5.1 - 5.2	4.1 - 4.2 - 5.1 - 5.2	3.3 - 3.4	
			4.1 - 4.2 - 4.3 - 5.1 - 5.2	

Ød1	TPI	L1	L2	Ød2	a	
G1/8	28	90	15	7	5,5	8,8
G1/4	19	100	15	11	9	11,8
G3/8	19	100	15	12	9	15,25
G1/2	14	125	18	16	12	19
G5/8	14	125	18	18	14,5	21
G3/4	14	140	20	20	16	24,5
G7/8	14	150	22	22	18	28,25
G1"	11	160	24	25	20	30,75
G1"1/8	11	170	24	28	22	35,5
G1"1/4	11	170	24	32	24	39,5
G1"1/2	11	190	27	36	29	45,25

Identnummer - Code		
H40G1/8	H40VAG1/8	H40TG1/8
H40G1/4	H40VAG1/4	H40TG1/4
H40G3/8	H40VAG3/8	H40TG3/8
H40G1/2	H40VAG1/2	H40TG1/2
H40G5/8	H40VAG5/8	H40TG5/8
H40G3/4	H40VAG3/4	H40TG3/4
H40G7/8	H40VAG7/8	H40TG7/8
H40G1"	H40VAG1"	H40TG1"
H40G1"1/8	H40VAG1"1/8	H40TG1"1/8
H40G1"1/4	H40VAG1"1/4	H40TG1"1/4
H40G1"1/2	H40VAG1"1/2	H40TG1"1/2

G MASCHINENGEWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228

British standard pipe thread DIN EN ISO 228

Grüner, Blauer Ring, Spiralnuten 45°-48°

Green, Blue Rings, Spiral flutes 45°-48°

HSSE/PM

HSSV3

Universal



H451TW

Universal

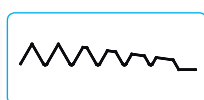
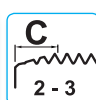
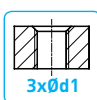
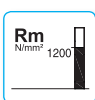
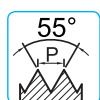


H451TWKK

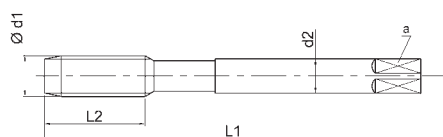
Superb-X INOX



H42TLW



DIN 5156



Bestell - Nr. - Cat. No.	H451TW	H421TWKK	H42TLW	
Norm - Standard	DIN 5156	DIN 5156	DIN 5156	
Schneidstoff - Tool material	HSSE/PM	HSSE/PM	HSSV3	
Oberfläche - Surface	TW	TW	TLW	
Toleranz - Tolerance	ISO 228X	ISO 228X	ISO 228X	
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5	
	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3	2.1 - 2.2 - 2.3 - 2.4	
	3.3 - 3.4 - 4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3		
	5.2	5.2		

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code		
G1/8	28	90	15	7	5,5	8,8	H451TWG1/8	H451TWKKG1/8	H42TLWG1/8
G1/4	19	100	15	11	9	11,8	H451TWG1/4	H451TWKKG1/4	H42TLWG1/4
G3/8	19	100	15	12	9	15,25	H451TWG3/8	H451TWKKG3/8	H42TLWG3/8
G1/2	14	125	18	16	12	19	H451TWG1/2	H451TWKKG1/2	H42TLWG1/2
G3/4	14	140	20	20	16	24,5	H451TWG3/4	H451TWKKG3/4	H42TLWG3/4
G1"	11	160	24	25	20	30,7	H451TWG1	H451TWKKG1	H42TLWG1

G MASCHINENGWINDEBOHRER - MACHINE TAPS

Rohrgewinde DIN EN ISO 228

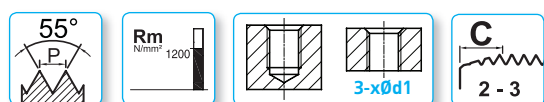
British standard pipe thread DIN EN ISO 228

Gewindeformer

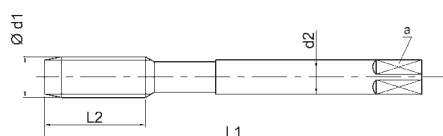
Roll Taps



HSSE/PM



DIN 5156



Bestell - Nr. - Cat. No.	GF1T	GF1TKK		
Norm - Standard	DIN 5156	DIN 5156		
Schneidstoff - Tool material	HSSE/PM	HSSE/PM		
Oberfläche - Surface	T8	T8		
Toleranz - Tolerance	ISO 228X	ISO 228X		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.3 - 1.4 - 1.5	1.3 - 1.4 - 1.5		
	2.2 - 2.3 - 2.4	2.2 - 2.3 - 2.4		

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code	
G1/8	28	90	15	7	5,5	9,25	GF1TG1/8	GF1TKKG1/8
G1/4	19	100	22	11	9	12,5	GF1TG1/4	GF1TKKG1/4
G3/8	19	100	22	12	9	16	GF1TG3/8	GF1TKKG3/8
G1/2	14	125	25	16	12	20	GF1TG1/2	GF1TKKG1/2
G3/4	14	140	25	20	16	25,5	GF1TG3/4	GF1TKKG3/4
G1"	11	160	23	25	20	32	GF1TG1"	GF1TKKG1"

Rp MASCHINENGWINDEBOHRER - MACHINE TAPS

Zylindrisches Whitworth-Rohrgewinde ISO 7-1
Cylindrical Whitworth internal pipe thread ISO 7-1

Gerade genutet
Straight flute

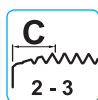
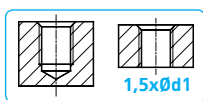
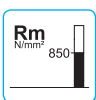
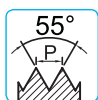
HSSE



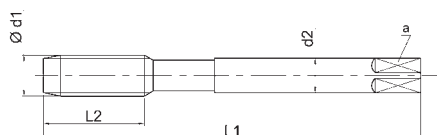
SF



SFT



DIN 5156



Bestell - Nr. - Cat. No.	SF	SFT		
Norm - Standard	DIN 5156	DIN 5156		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	T		
Toleranz - Tolerance	ISO 5969	ISO 5969		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4 - 1.5	1.1 - 1.2 - 1.3 - 1.4 - 1.5		
	3.4	3.4		
	4.2 - 4.3	4.2 - 4.3		
	5.2 - 5.3 - 8.2	5.2 - 5.3 - 8.2		

Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code	
Rp1/8	28	90	15	7	5,5	8,6	SFRp1/8	SFTRp1/8
Rp1/4	19	100	22	11	9	11,5	SFRp1/4	SFTRp1/4
Rp3/8	19	100	22	12	9	15	SFRp3/8	SFTRp3/8
Rp1/2	14	125	25	16	12	18,5	SFRp1/2	SFTRp1/2
Rp3/4	14	140	25	20	16	24	SFRp3/4	SFTRp3/4
Rp1"	11	160	30	25	20	30,25	SFRp1"	SFTRp1"

GEWINDE - KERNLOCH-Ø UND KERN-Ø MUTTERGEWINDE

TAPPING DRILL SIZES FOR CUTTING TAPS

GAS	P TPI		Muttergewinde Kern Ø	
			min	max
1/8	28	8,8	8,566	8,848
1/4	19	11,8	11,445	11,890
3/8	19	15,25	14,950	15,395
1/2	14	19	18,631	19,172
5/8	14	21	20,587	21,128
3/4	14	24,5	24,117	24,658
7/8	14	28,25	27,877	28,418
1"	11	30,75	30,291	30,931
1"1/8	11	35,5	34,939	35,579
1"1/4	11	39,5	38,952	39,592
1"1/2	11	45,25	44,845	45,485
1"3/4	11	51,10	50,788	51,428
2"	11	57	56,656	57,296
2"1/4	11	63,10	62,752	63,392
2"1/2	11	72,6	72,226	72,866
2"3/4	11	79	78,576	79,216
3"	11	85,3	84,926	85,566

GEWINDE-VORBOHRDURCHMESSER GEWINDEFORMEN

THREAD PILOT HOLE DIAMETERS THREAD FORMING

GAS	P TPI		Toll.
1/16	28	7,25	±0,05
1/8	28	9,25	±0,05
1/4	19	12,5	±0,05
3/8	19	16	±0,05
1/2	14	20	±0,05
5/8	14	22	±0,05
3/4	14	25,5	±0,05
7/8	14	29,25	±0,05
1"	11	32	±0,05
1"-1/8	11	36,70	±0,05
1"-1/4	11	40,70	±0,05

Rc MASCHINENGEWINDEBOHRER - MACHINE TAPS

Kegeliges Whitworth-Rohrgewinde, Kegel 1:16 nach ISO 7-1

Tapered Whitworth pipe thread, taper 1:16, ISO 7-1

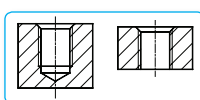
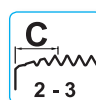
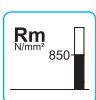
HSSE



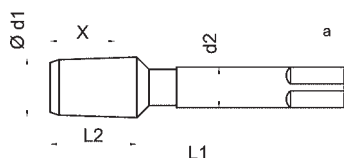
SFSH



H15VASH



NEUWERK



Bestell - Nr. - Cat. No.	SFSH	H15VASH		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	VA		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.3 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.2		
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3 - 4.4		
	5.3	5.2 - 5.3		

Ød1	TPI	L1	L2	Ød2	a	X		Identnummer - Code	
RC1/8	28	63	13	7	5,5	10,1	8,3	SFSHRC1/8	H15VASHRC1/8
RC1/4	19	63	20	11	9	15	11,1	SFSHRC1/4	H15VASHRC1/4
RC3/8	19	70	20	12	9	15,4	14,5	SFSHRC3/8	H15VASHRC3/8
RC1/2	14	80	26	16	12	20,4	18	SFSHRC1/2	H15VASHRC1/2
RC3/4	14	100	28	20	16	21,7	23,5	SFSHRC3/4	H15VASHRC3/4
RC1"	11	110	34	25	20	26	29,7	SFSHRC1"	H15VASHRC1"

Rc MASCHINENGWINDEBOHRER - MACHINE TAPS

Kegeliges Whitworth-Rohrgewinde, Kegel 1:16 nach ISO 7-1

Tapered Whitworth pipe thread, taper 1:16, ISO 7-1

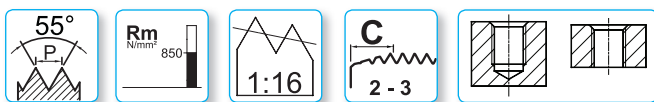


SFL

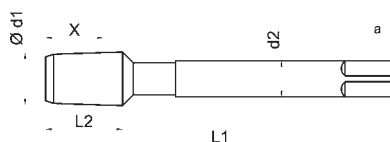


SFTLW

HSSE 



NEUWERK



Bestell - Nr. - Cat. No.	SFL	SFTLW		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TLW		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.3 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.2		
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3 - 4.4		
	5.3	5.2 - 5.3		

Ød1	TPI	L1	L2	Ød2	a	X		Identnummer - Code	
RC1/8	28	90	13	7	5,5	10,1	8,3	SFLRC1/8	SFTLWRC1/8
RC1/4	19	100	20	11	9	15	11,1	SFLRC1/4	SFTLWRC1/4
RC3/8	19	110	20	12	9	15,4	14,5	SFLRC3/8	SFTLWRC3/8
RC1/2	14	125	26	16	12	20,4	18	SFLRC1/2	SFTLWRC1/2
RC3/4	14	140	28	20	16	21,7	23,5	SFLRC3/4	SFTLWRC3/4
RC1"	11	160	34	25	20	26	29,7	SFLRC1"	SFTLWRC1"

NPT MASCHINENGEWINDEBOHRER - MACHINE TAPS

Amerikanisches kegeliges Rohrgewinde Kegel 1:16 nach ANSI/ASME B1.20.1
American tapered pipe thread, taper 1:16 acc. ANSI/ASME B1.20.1

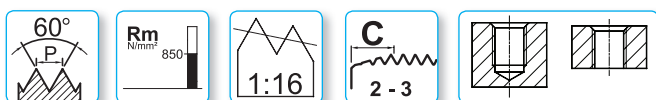
HSSE



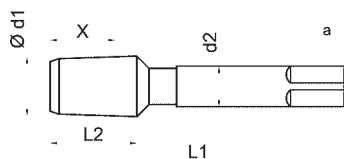
SFSH



H15VASH



NEUWERK



Bestell - Nr. - Cat. No.	SFSH	H15VASH		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	VA		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.3 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.2		
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3 - 4.4		
	5.3	5.2 - 5.3		

Ød1	TPI	L1	L2	Ød2	a	X		Identnummer - Code	
NPT1/16	27	63	13	6	4,9	9,3	6,2	SFSHNPT1/16	H15VASHNPT1/16
NPT1/8	27	63	13	7	5,5	9,3	8,5	SFSHNPT1/8	H15VASHNPT1/8
NPT1/4	18	63	20	11	9	13,5	11	SFSHNPT1/4	H15VASHNPT1/4
NPT3/8	18	70	20	12	9	13,9	14,5	SFSHNPT3/8	H15VASHNPT3/8
NPT1/2	14	80	26	16	12	18,1	17,9	SFSHNPT1/2	H15VASHNPT1/2
NPT3/4	14	100	26	20	16	18,6	23,2	SFSHNPT3/4	H15VASHNPT3/4
NPT1"	11,5	110	32	25	20	22,3	29	SFSHNPT1"	H15VASHNPT1"

NPT MASCHINENGWINDEBOHRER - MACHINE TAPS

Amerikanisches kegeliges Rohrgewinde Kegel 1:16 nach ANSI/ASME B1.20.1
American tapered pipe thread, taper 1:16 acc. ANSI/ASME B1.20.1

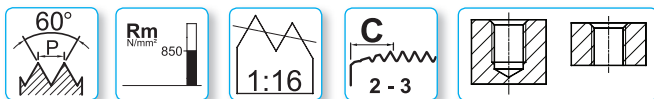


SFL

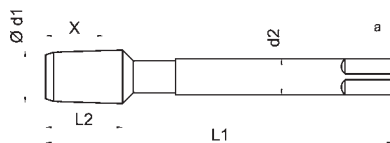
HSSE 



SFTLW



NEUWERK



Bestell - Nr. - Cat. No.	SFL	SFTLW		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TLW		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.3 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.2		
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3 - 4.4		
	5.3	5.2 - 5.3		

Ød1	TPI	L1	L2	Ød2	a	X		Identnummer - Code	
NPT1/16	27	90	13	6	4,9	9,3	6,2	SFLNPT1/16	SFTLWNPT1/16
NPT1/8	27	90	13	7	5,5	9,3	8,5	SFLNPT1/8	SFTLWNPT1/8
NPT1/4	18	100	20	11	9	13,5	11	SFLNPT1/4	SFTLWNPT1/4
NPT3/8	18	110	20	12	9	13,9	14,5	SFLNPT3/8	SFTLWNPT3/8
NPT1/2	14	125	26	16	12	18,1	17,9	SFLNPT1/2	SFTLWNPT1/2
NPT3/4	14	140	26	20	16	18,6	23,2	SFLNPT3/4	SFTLWNPT3/4
NPT1"	11,5	160	32	25	20	22,3	29	SFLNPT1"	SFTLWNPT1"

NPTF MASCHINENGWINDEBOHRER - MACHINE TAPS

Amerikanisches kegeliges Rohrgewinde Kegel 1:16 nach ANSI/ASME B1.20.3
American tapered pipe thread, taper 1:16 acc. ANSI/ASME B1.20.3

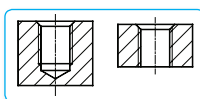
HSSE



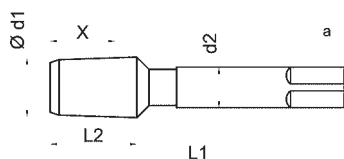
SFSH



H15VASH



NEUWERK



Bestell - Nr. - Cat. No.	SFSH	H15VASH		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	VA		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.3 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.2		
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3 - 4.4		
	5.3	5.2 - 5.3		

Ød1	TPI	L1	L2	Ød2	a	X		Identnummer - Code	
NPTF1/8	27	63	13	7	5,5	9,3	8,45	SFSHNPTF1/8	H15VASHNPTF1/8
NPT1/4	18	63	20	11	9	13,5	10,9	SFSHNPTF1/4	H15VASHNPTFF1/4
NPTF3/8	18	70	20	12	9	13,9	14,3	SFSHNPTF3/8	H15VASHNPTF3/8
NPTF1/2	14	80	26	16	12	18,1	17,6	SFSHNPTF1/2	H15VASHNPTF1/2
NPTF3/4	14	100	26	20	16	18,6	23	SFSHNPTF3/4	H15VASHNPTF3/4
NPTF1"	11,5	110	32	25	20	22	28,75	SFSHNPTF1"	H15VASHNPTF1"

NPTF MASCHINENGWINDEBOHRER - MACHINE TAPS

Amerikanisches kegeliges Rohrgewinde Kegel 1:16 nach ANSI/ASME B1.20.3

American tapered pipe thread, taper 1:16 acc. ANSI/ASME B1.20.3

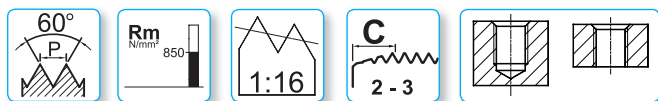


SFL

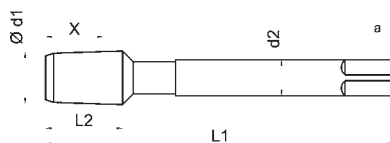


SFTLW

HSSE 



NEUWERK



Bestell - Nr. - Cat. No.	SFL	SFTLW		
Norm - Standard	NEUWERK	NEUWERK		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TLW		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	3.3 - 3.4	2.1 - 2.2 - 2.3 - 3.1 - 3.2		
	4.2 - 4.3	3.3 - 3.4 - 4.2 - 4.3 - 4.4		
	5.3	5.2 - 5.3		

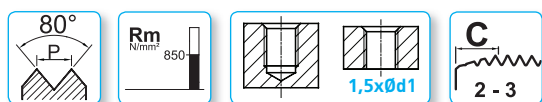
Ød1	TPI	L1	L2	Ød2	a	X		Identnummer - Code	
NPTF1/8	27	90	13	7	5,5	9,3	8,45	SFLNPTF1/8	SFTLWNPTF1/8
NPTF1/4	18	100	20	11	9	13,5	10,9	SFLNPTF1/4	SFTLWNPTF1/4
NPTF3/8	18	110	20	12	9	13,9	14,3	SFLNPTF3/8	SFTLWNPTF3/8
NPTF1/2	14	125	26	16	12	18,1	17,6	SFLNPTF1/2	SFTLWNPTF1/2
NPTF3/4	14	140	26	20	16	18,6	23	SFLNPTF3/4	SFTLWNPTF3/4
NPTF1"	11,5	160	32	25	20	22,3	28,75	SFLNPTF1"	SFTLWNPTF1"

PG MASCHINENGWINDEBOHRER - MACHINE TAPS

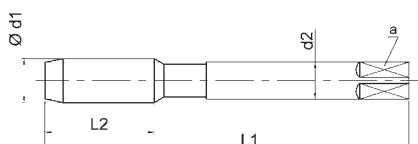
Stahlpanzerrohr-Gewinde DIN 40430
Steel conduit thread DIN 404303

Gerade genutet
Straight flute

HSSE



DIN 40432



Bestell - Nr. - Cat. No.	SF	SFT		
Norm - Standard	DIN 40432	DIN 40432		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	T		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.2 - 4.3	4.2 - 4.3		
	5.2 - 5.3	5.2 - 5.3		
	8.2	8.2		

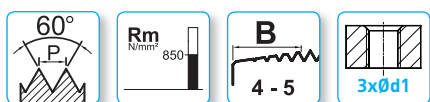
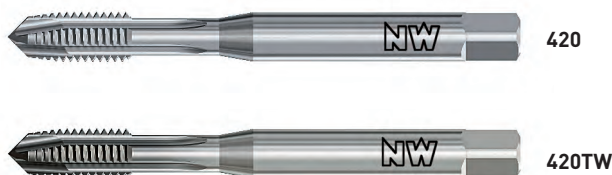
Ød1	TPI	L1	L2	Ød2	a		Identnummer - Code	
PG7	20	70	20	9	7	11,4	SFPG7	SFTPG7
PG9	18	70	20	12	9	14	SFPG9	SFTPG9
PG11	18	80	22	14	11	17,25	SFPG11	SFTPG11
PG13,5	18	80	22	16	12	19	SFPG13,5	SFTPG13,5
PG16	18	80	22	18	14,5	21,25	SFPG16	SFTPG16
PG21	16	90	22	22	18	27	SFPG21	SFTPG21
PG29	16	100	25	28	22	35,5	SFPG29	SFTPG29

EG MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Regelgewinde für Gewindedrahteinsätze
ISO Metric coarse thread DIN 8140-2 for wire thread inserts (STI)

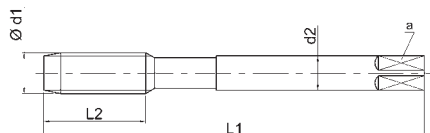
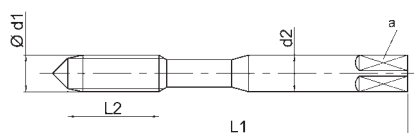
Gerade genutet mit Schälanschnitt
Straight flutes with spiral point

HSSE



DIN 40435 d1 ≤ 8 mm

DIN 40435 d1 ≥ 10 mm



Bestell - Nr. - Cat. No.	420	420TW		
Norm - Standard	DIN 40435	DIN 40435		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TW		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	B/4-5	B/4-5		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2 -	2.1 - 2.2		
	5.1 - 5.2	3.3 - 3.4 - 4.2 - 4.3		
		5.2		

EGM	P	L1	L2	Ød2	a		Identnummer - Code	
EGM3	0,5	63	13	4,5	3,4	3,15	420EGM3	420TWEGM3
EGM4	0,7	70	13	6	4,9	4,20	420EGM4	420TWEGM4
EGM5	0,8	80	16	6	4,9	5,25	420EGM5	420TWEGM5
EGM6	1	90	18	8	6,2	6,3	420EGM6	420TWEGM6
EGM8	1,25	100	20	10	8	8,4	420EGM8	420TWEGM8
EGM10	1,5	100	22	9	7	10,5	420EGM10	420TWEGM10
EGM12	1,75	110	28	11	9	12,5	420EGM12	420TWEGM12
EGM14	2	110	28	12	9	14,5	420EGM14	420TWEGM14
EGM16	2	125	33	14	11	16,5	420EGM16	420TWEGM16

EG MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Regelgewinde für Gewindedrahteinsätze
ISO Metric coarse thread DIN 8140-2 for wire thread inserts (STI)

Spiralnuten 40°
Spiral Flutes 40°

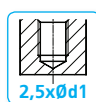
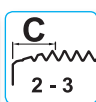
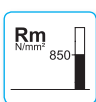
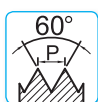
HSSE



H40

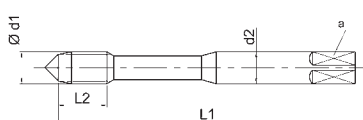


H40TW



DIN 40435 d1 ≤ 8 mm

DIN 40435 d1 ≥ 10 mm



Bestell - Nr. - Cat. No.	H40	H40TW		
Norm - Standard	DIN 40435	DIN 40435		
Schneidstoff - Tool material	HSSE	HSSE		
Oberfläche - Surface	-	TW		
Toleranz - Tolerance	-	-		
Anschnittform - Chamfer form	C/2-3	C/2-3		

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4		
	4.1 - 4.2	2.1 - 2.2		
	5.1 - 5.2	3.3 - 3.4 - 4.2 - 4.3		
		5.2		

EGM	P	L1	L2	Ød2	a		Identnummer - Code	
EGM3	0,5	63	7	4,5	3,4	3,15	H40EGM3	H40TWEGM3
EGM4	0,7	70	8	6	4,9	4,20	H40EGM4	H40TWEGM4
EGM5	0,8	80	10	6	4,9	5,25	H40EGM5	H40TWEGM5
EGM6	1	90	13	8	6,2	6,3	H40EGM6	H40TWEGM6
EGM8	1,25	100	15	10	8	8,4	H40EGM8	H40TWEGM8
EGM10	1,5	100	15	9	7	10,5	H40EGM10	H40TWEGM10
EGM12	1,75	110	20	11	9	12,5	H40EGM12	H40TWEGM12
EGM14	2	110	20	12	9	14,5	H40EGM14	H40TWEGM14
EGM16	2	125	25	14	11	16,5	H40EGM16	H40TWEGM16



MASCHINENGWINDEBOHRER
MACHINE TAPS

JIS-M 

JIS-M MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Nach JIS Norm
ISO Metric coarse according JIS rules

Gerade genutet mit Schälanschnitt
Straight flute with spiral point

HSSE



J420



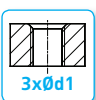
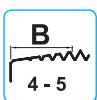
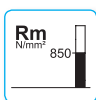
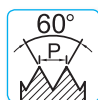
J420VA



J420T

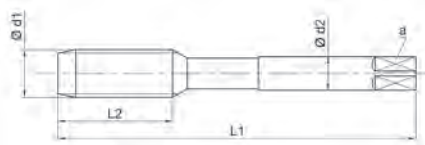
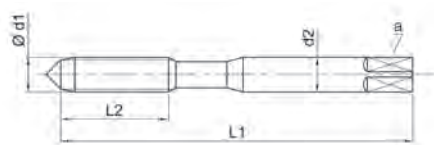


J420TLW



A $d1 \leq 6mm$.

B $d1 \geq 8mm$.



Bestell - Nr. - Cat. No.	J420	J420VA	J420T	J420TLW
Norm - Standard	A/B	A/B	A/B	A/B
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	std JIS	std JIS	std JIS	std JIS
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	B/4-5

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	4.1 - 4.2 - 4.3	4.2 - 4.3
		6.1 - 7.1	5.1 - 5.2	5.2

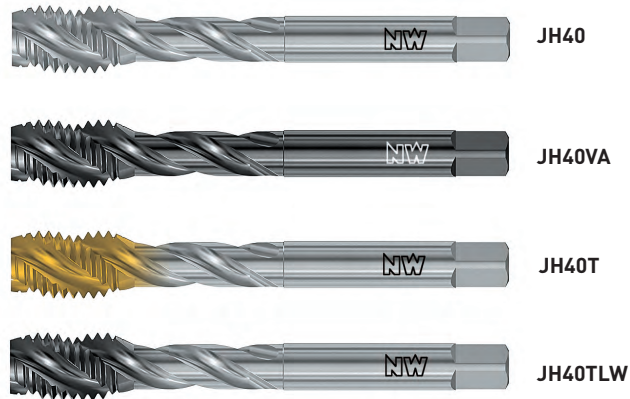
Ød1	p	L1	L2	Ød2	a	
M4	0,7	52	13	5	4	3,3
M5	0,8	60	16	5,5	4,5	4,2
M6	1	62	19	6	4,5	5
M8	1,25	70	22	6,2	5	6,8
M10	1,5	75	24	7	5,5	8,5
M12	1,75	82	29	8,5	6,5	10,3
M14	2	88	30	10,5	8	12
M16	2	95	32	12,5	10	14
M18	2,5	100	37	14	11	15,5
M20	2,5	105	37	15	12	17,5

Identnummer - Code			
J420M04070	J420VAM04070	J420TM04070	J420TLWM04070
J420M05080	J420VAM05080	J420TM05080	J420TLWM05080
J420M06100	J420VAM06100	J420TM06100	J420TLWM06100
J420M08125	J420VAM08125	J420TM08125	J420TLWM08125
J420M10150	J420VAM10150	J420TM10150	J420TLWM10150
J420M12175	J420VAM12175	J420TM12175	J420TLWM12175
J420M14200	J420VAM14200	J420TM14200	J420TLWM14200
J420M16200	J420VAM16200	J420TM16200	J420TLWM16200
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J420M20250	J420VAM20250	J420TM20250	J420TLWM20250

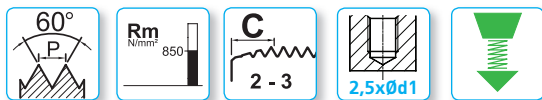
JIS-M MASCHINENGEWINDEBOHRER - MACHINE TAPS

Metrisches ISO - Nach JIS Norm
ISO Metric coarse according JIS rules

Spiralnuten 40°
Spiral flute 40°

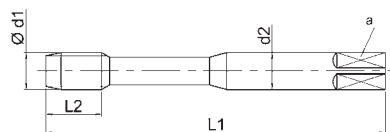
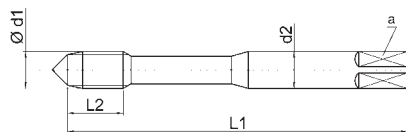


HSSE 



A $d1 \leq 6\text{mm}$.

B $d1 \geq 8\text{mm}$.



Bestell - Nr. - Cat. No.	JH40	JH40VA	JH40T	JH40TLW
Norm - Standard	A/B	A/B	A/B	A/B
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	std JIS	std JIS	std JIS	std JIS
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	C/2-3

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	4.1 - 4.2 - 4.3	4.2 - 4.3
			5.1 - 5.2	5.2

Ød1	p	L1	L2	Ød2	a	
M4	0,7	52	7	5	4	3,3
M5	0,8	60	8	5,5	4,5	4,2
M6	1	62	10	6	4,5	5
M8	1,25	70	13	6,2	5	6,8
M10	1,5	75	15	7	5,5	8,5
M12	1,75	82	18	8,5	6,5	10,3
M14	2	88	20	10,5	8	12
M16	2	95	20	12,5	10	14
M18	2,5	100	25	14	11	15,5
M20	2,5	105	25	15	12	17,5

Identnummer - Code			
JH40M04070	JH40VAM04070	JH40TM04070	JH40TLWM04070
JH40M05080	JH40VAM05080	JH40TM05080	JH40TLWM05080
JH40M06100	JH40VAM06100	JH40TM06100	JH40TLWM06100
JH40M08125	JH40VAM08125	JH40TM08125	JH40TLWM08125
JH40M10150	JH40VAM10150	JH40TM10150	JH40TLWM10150
JH40M12175	JH40VAM12175	JH40TM12175	JH40TLWM12175
JH40M14200	JH40VAM14200	JH40TM14200	JH40TLWM14200
JH40M16200	JH40VAM16200	JH40TM16200	JH40TLWM16200
JH40M18250	JH40VAM18250	JH40TM18250	JH40TLWM18250
JH40M20250	JH40VAM20250	JH40TM20250	JH40TLWM20250

JIS-MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde Nach JIS Norm
ISO metric fine thread according JIS rules

Gerade genutet mit Schälanschnitt
Straight flute with spiral point

HSSE



J420



J420VA



J420T

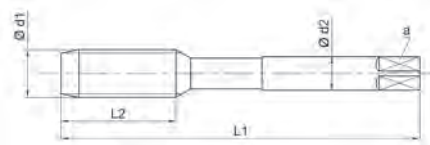
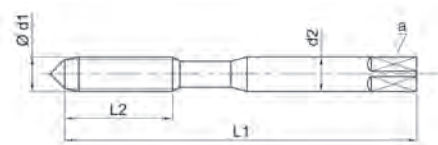


J420TLW



A $d1 \leq 6mm$.

B $d1 \geq 8mm$.



Bestell - Nr. - Cat. No.	J420	J420VA	J420T	J420TLW
Norm - Standard	A/B	A/B	A/B	A/B
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	std JIS	std JIS	std JIS	std JIS
Anschnittform - Chamfer form	B/4-5	B/4-5	B/4-5	B/4-5

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	4.1 - 4.2 - 4.3	4.2 - 4.3
		6.1 - 7.1	5.1 - 5.2	5.2

Ød1	p	L1	L2	Ød2	a	
MF8	1	70	22	6,2	5	7
MF10	1,25	75	24	7	5,5	8,75
MF12	1,5	82	29	8,5	6,5	10,5
MF14	1,5	88	30	10,5	8	12,5
MF16	1,5	95	32	12,5	10	14,5
MF18	1,5	100	37	14	11	16,5
MF20	1,5	105	37	15	12	18,5

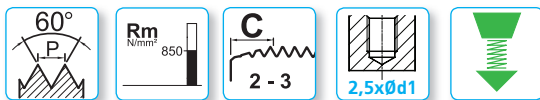
Identnummer - Code			
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J420MF10125	J420VAMF10125	J420TMF10125	J420TLWMF10125
J420MF12150	J420VAMF12150	J420TMF12150	J420TLWMF12150
J420MF14150	J420VAMF14150	J420TMF14150	J420TLWMF14150
J420MF16150	J420VAMF16150	J420TMF16150	J420TLWMF16150
J420MF18150	J420VAMF18150	J420TMF18150	J420TLWMF18150
J420MF20150	J420VAMF20150	J420TMF20150	J420TLWMF20150

JIS-MF MASCHINENGWINDEBOHRER - MACHINE TAPS

Metrisches ISO-Feingewinde Nach JIS Norm
ISO metric fine thread according JIS rules

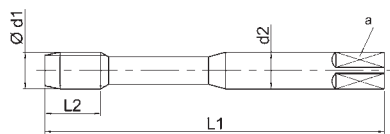
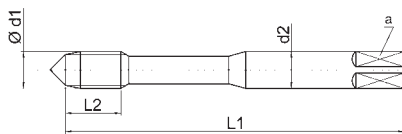
Spiralnuten 40°
Spiral flute 40°

HSSE



A $d1 \leq 6\text{mm}$.

B $d1 \geq 8\text{mm}$.



Bestell - Nr. - Cat. No.	JH40	JH40VA	JH40T	JH40TLW
Norm - Standard	A/B	A/B	A/B	A/B
Schneidstoff - Tool material	HSSE	HSSE	HSSE	HSSE
Oberfläche - Surface	-	VA	T	TLW
Toleranz - Tolerance	std JIS	std JIS	std JIS	std JIS
Anschnittform - Chamfer form	C/2-3	C/2-3	C/2-3	C/2-3

Einsatzgebiet - Application	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4	1.1 - 1.2 - 1.3 - 1.4
	4.1 - 4.2	4.1 - 4.2	3.3 - 3.4	2.1 - 2.2 - 3.3 - 3.4
	5.1 - 5.2	5.1 - 5.2	4.1 - 4.2 - 4.3	4.2 - 4.3
			5.1 - 5.2	5.2

Ød1	p	L1	L2	Ød2	a	
MF8	1	70	13	6,2	5	7
MF10	1,25	75	15	7	5,5	8,75
MF12	1,5	82	18	8,5	6,5	10,5
MF14	1,5	88	20	10,5	8	12,5
MF16	1,5	95	20	12,5	10	14,5
MF18	1,5	100	25	14	11	16,5
MF20	1,5	105	25	15	12	18,5

Identnummer - Code			
JH40MF08100	JH40VAMF08100	JH40TMF08100	JH40TLWMF08100
JH40MF10125	JH40VAMF10125	JH40TMF10125	JH40TLWMF10125
JH40MF12150	JH40VAMF12150	JH40TMF12150	JH40TLWMF12150
JH40MF14150	JH40VAMF14150	JH40TMF14150	JH40TLWMF14150
JH40MF16150	JH40VAMF16150	JH40TMF16150	JH40TLWMF16150
JH40MF18150	JH40VAMF18150	JH40TMF18150	JH40TLWMF18150
JH40MF20150	JH40VAMF20150	JH40TMF20150	JH40TLWMF20150

ALLGEMEINER VERKAUFSBEDINGUNGEN

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