



Leading Through Innovation



HSS-E



YG TAP ALU

YG TAP ALU

- For long-chipping Aluminum Wrought Alloys with Large Chip Gullets to Avoid Clogging in the Threading Operations
- Für langspanende Aluminium-Knetlegierungen mit großen Spanabständen zur Vermeidung von Verstopfungen beim Gewindeschneiden.

SELECTION GUIDE



**HSS-E
YG TAP
ALU**

For long-chipping Aluminum Wrought Alloys with Large Chip Gullets to Avoid Clogging in the Threading Operations



Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.252

HOLE TYPE		Max. 2.5xD Blind Hole		
TOOL MATERIAL		HSS-E		
CHAMFER LEAD ACC. TO DIN2197		C	C	
FLUTE TYPE		Spiral Flute	Spiral Flute	
SPIRAL FLUTE ANGLE		R45	R40	
SERIES	M	DIN371/376	TC163 (P.242)	TE953 (P.243)
		DIN352		
		DIN357/LONG		
	MF	DIN374	TC963 (P.244)	
		DIN2181		
	UNC	DIN371/376	TC169 (P.245)	
		DIN351		
	UNF	DIN371/374	TC170 (P.246)	
		DIN2181		
	BSW	DIN2182/2183		
		DIN351		
	G(BSP)	DIN5156/5157		
EG-M	DIN371/376			
EG-UNC	DIN371/376			
EG-UNF	DIN371/374			
SURFACE TREATMENT		Bright	NI	
MODEL				

ISO	VDI 3323	Material Description	Composition / Structure / Heat Treatment	HB	HRc			
P	1	Non-alloy steel	About 0.15% C Annealed	125		○		
	2		About 0.45% C Annealed	190	13	○		
	3		About 0.45% C Quenched & Tempered	250	25	○	○	
	4	Low alloy steel	About 0.75% C Annealed	270	28			
	5		About 0.75% C Quenched & Tempered	300	32			
	6		Annealed	180	10			
	7		Quenched & Tempered	275	29			
	8	Quenched & Tempered	300	32				
	9	Quenched & Tempered	350	38				
	10	High alloyed steel, and tool steel	Annealed	200	15			
	11		Quenched & Tempered	325	35			
M	12	Stainless steel	Ferritic / Martensitic Annealed	200	15			
	13		Martensitic Quenched & Tempered	240	23			
	14		Austenitic	180	10			
K	15	Grey cast iron	Pearlitic / ferritic	180	10			
	16		Pearlitic (Martensitic)	260	26			
	17		Ferritic	160	3			
	18	Nodular cast iron	Pearlitic	250	25			
	19		Ferritic	130				
	20	Malleable cast iron	Pearlitic	230	21			
N	21	Aluminum-wrought alloy	Not Curable	60		◎	○	
	22		Curable Hardened	100		◎	○	
	23	Aluminum-cast, alloyed	≤ 12% Si, Not Curable	75		◎	○	
	24		≤ 12% Si, Curable Hardened	90		◎	○	
	25		> 12% Si, Not Curable	130			◎	
	26		Copper and Copper Alloys	Cutting Alloys, PB>1%	110			
	27		(Bronze / Brass)	CuZn, CuSnZn (Brass)	90		○	
	28		CuSn, lead-free copper and electrolytic copper	100				
	29		Non Metallic Materials	Duroplastic, Fiber Reinforced Plastic				
	30			Rubber, Wood, etc.				
S	31	Heat Resistant Super Alloys	Fe Based Annealed	200	15			
	32		Cured	280	30			
	33		Annealed	250	25			
	34		Ni or Co Based Cured	350	38			
	35		Cast	320	34			
	36	Titanium Alloys	Pure Titanium	400 Rm				
	37		Alpha + Beta Alloys Hardened	1050 Rm				
H	38	Hardened steel	Hardened	550	55			
	39		Hardened	630	60			
	40	Chilled Cast Iron	Cast	400	42			
	41	Hardened Cast Iron	Hardened	550	55			

Max. 3.0xD Through Hole		HSS-E			Max. 2.0xD Blind/Through Hole	
B	B	C	C	C		
Spiral Point	Spiral Point	Straight Flute	Straight Flute	Straight Flute		
-	-	-	-	-		
TC622 (P.247)	TE943 (P.248)	TC433 (P.249)	TE443 (P.250)	TY433 (P.251)		
					M	
					MF	
					UNC	
					UNF	
					BSW	
					GIBSP	
					EG-M	
					EG-UNC	
					EG-UNF	
Bright	NI	Bright	NI	TiAIN		
						
○					1	
○					2	
○	○				3	
					4	
					5	
					6	P
					7	
					8	
					9	
					10	
					11	
					12	
					13	M
					14	
					15	
					16	
					17	K
					18	
					19	
					20	
◎	○				21	
◎	○				22	
◎	○				23	
◎	○				24	
	◎				25	N
		◎		◎	26	
○		○		○	27	
		○		○	28	
					29	
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					34	S
					35	
					36	
					37	
					38	
					39	H
					40	
					41	

THREAD MILLS

SYNCHRO TAPS

COMBO TAPS

YG TAP GENERAL

YG TAP STEEL

YG TAP HARDENED

YG TAP INOX

YG TAP CAST IRON

YG TAP ALU

YG TAP Ti Ni

YG TAP FORMING

NUT TAPS

STI TAPS

PIPE TAPS

TECHNICAL DATA



M

ISO metric coarse threads DIN 13

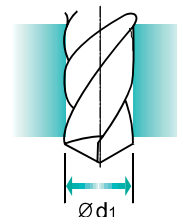
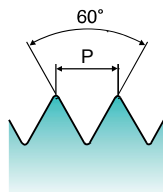
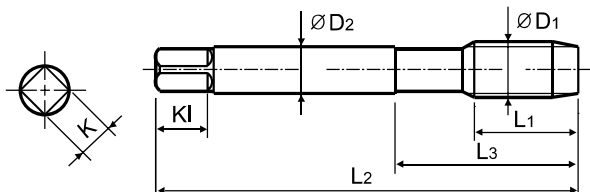
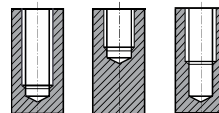
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

► Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Hole type
2.5×D



Material groups

AI

HSS-E

DIN 371/376

6H



Bright



Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TC163136	8	45	13	2.8	2.1	5	2	1.6
M2.2 × 0.45		TC163156	8	45	13	2.8	2.1	5	2	1.75
*M2.3 × 0.4		TC163196	8	45	13	2.8	2.1	5	2	1.9
M2.5 × 0.45		TC163176	9	50	15	2.8	2.1	5	2	2.05
*M2.6 × 0.45		TC163496	9	50	15	2.8	2.1	5	2	2.1
M3 × 0.5		TC163206	6	56	18	3.5	2.7	6	2	2.5
M3.5 × 0.6		TC163226	7	56	20	4	3	6	2	2.9
M4 × 0.7		TC163246	7	63	21	4.5	3.4	6	2	3.3
M4.5 × 0.75		TC163266	8	70	25	6	4.9	8	2	3.7
M5 × 0.8		TC163286	8	70	25	6	4.9	8	2	4.2
M6 × 1		TC163316	10	80	30	6	4.9	8	2	5
M7 × 1		TC163346	10	80	30	7	5.5	8	2	6
M8 × 1.25		TC163366	13	90	35	8	6.2	9	2	6.8
M9 × 1.25		TC163396	13	90	35	9	7	10	2	7.8
M10 × 1.5		TC163426	15	100	39	10	8	11	2	8.5
M11 × 1.5		TC163466	17	100	40	8	6.2	9	2	9.5
M12 × 1.75		TC163506	18	110	44	9	7	10	2	10.2
M14 × 2		TC163546	20	110	44	11	9	12	3	12
M16 × 2		TC163606	20	110	44	12	9	12	3	14
M18 × 2.5		TC163656	25	125	50	14	11	14	3	15.5
M20 × 2.5		TC163706	25	140	54	16	12	15	3	17.5
M22 × 2.5		TC163746	25	140	54	18	14.5	17	3	19.5
M24 × 3		TC163786	30	160	60	18	14.5	17	3	21
M27 × 3		TC163866	30	160	60	20	16	19	3	24
M30 × 3.5		TC163946	35	180	70	22	18	21	3	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

◎ : Excellent ○ : Good

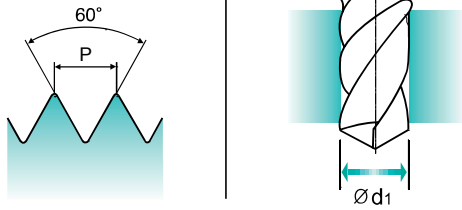
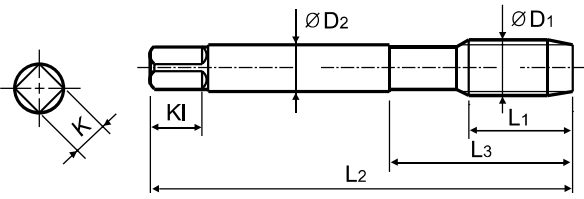
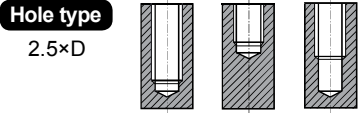
ISO Material Description	P									M				K						
	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	○	○																	

ISO Material Description	N										S						H				
	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys						Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎																	

M ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation. ► Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Material groups: **AI** HSS-E DIN 371/376 6H 60° C NI R40

 Machine taps
 Maschinengewindebohrer

 Recommended Cutting Page : P.252 Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Ni	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TE953136	8	45	13	2.8	2.1	5	2	1.6
M2.2 × 0.45		TE953156	8	45	13	2.8	2.1	5	2	1.75
*M2.3 × 0.4		TE953196	8	45	13	2.8	2.1	5	2	1.9
M2.5 × 0.45		TE953176	9	50	15	2.8	2.1	5	2	2.05
*M2.6 × 0.45		TE953496	9	50	15	2.8	2.1	5	2	2.1
M3 × 0.5		TE953206	6	56	18	3.5	2.7	6	2	2.5
M3.5 × 0.6		TE953226	7	56	20	4	3	6	2	2.9
M4 × 0.7		TE953246	7	63	21	4.5	3.4	6	2	3.3
M4.5 × 0.75		TE953266	8	70	25	6	4.9	8	2	3.7
M5 × 0.8		TE953286	8	70	25	6	4.9	8	2	4.2
M6 × 1		TE953316	10	80	30	6	4.9	8	2	5
M7 × 1		TE953346	10	80	30	7	5.5	8	2	6
M8 × 1.25		TE953366	13	90	35	8	6.2	9	2	6.8
M9 × 1.25		TE953396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TE953426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TE953466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TE953506	18	110	44	9	7	10	3	10.2
M14 × 2		TE953546	20	110	44	11	9	12	3	12
M16 × 2		TE953606	20	110	44	12	9	12	3	14
M18 × 2.5		TE953656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TE953706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TE953746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TE953786	30	160	60	18	14.5	17	4	21
M27 × 3		TE953866	30	160	60	20	16	19	4	24
M30 × 3.5		TE953946	35	180	70	22	18	21	4	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)
 ► * DIN profile not ISO ◎ : Excellent ○ : Good

ISO	P											M				K				
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron		
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	42	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended			○																	

ISO	N					S					H										
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed		Copper and Copper Alloys (Bronze / Brass)	Non Metallic Materials		Heat Resistant Super Alloys			Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron						
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRC											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	○	○	○	○	◎																

- THREAD MILLS
- SYNCHRO TAPS
- COMBO TAPS
- YG TAP GENERAL
- YG TAP STEEL
- YG TAP HARDENED
- YG TAP INOX
- YG TAP CAST IRON
- YG TAP ALU
- YG TAP Ti Ni
- YG TAP FORMING
- NUT TAPS
- STI TAPS
- PIPE TAPS
- TECHNICAL DATA



TC963 SERIES

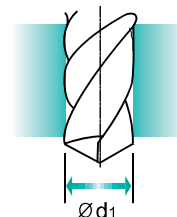
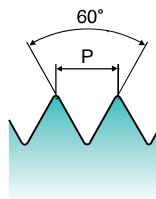
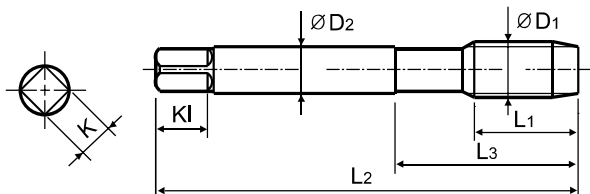
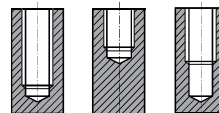
MF ISO metric fine threads DIN 13
 ● Metrisches ISO-Feingewinde DIN 13
 ○ ISO MÉTRIQUE PAS FINS DIN13
 ○ ISO Metrico passo grosso DIN 13

► Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

► Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Hole type
2.5×D



Material groups **AI** HSS-E DIN 374 6H 60° C Bright R45

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	KI	Z	Ød1
M4	× 0.5	TC963256	5	63	21	2.8	2.1	5	2	3.5
M5	× 0.5	TC963296	5	70	25	3.5	2.7	6	2	4.5
M6	× 0.75	TC963326	8	80	30	4.5	3.4	6	2	5.2
M6	× 0.5	TC963336	5	80	30	4.5	3.4	6	2	5.5
M7	× 0.75	TC963356	10	80	30	5.5	4.3	7	2	6.2
M8	× 1	TC963376	10	90	36	6	4.9	8	2	7
M8	× 0.75	TC963386	8	80	30	6	4.9	8	2	7.2
M10	× 1.25	TC963436	16	100	40	7	5.5	8	2	8.8
M10	× 1	TC963446	10	90	36	7	5.5	8	2	9
M10	× 0.75	TC963456	10	90	36	7	5.5	8	2	9.2
M12	× 1.5	TC963516	15	100	40	9	7	10	2	10.5
M12	× 1.25	TC963526	15	100	40	9	7	10	2	10.8
M12	× 1	TC963536	11	100	40	9	7	10	2	11
M14	× 1.5	TC963556	15	100	40	11	9	12	3	12.5
M14	× 1.25	TC963566	15	100	40	11	9	12	3	12.8
M16	× 1.5	TC963616	15	100	40	12	9	12	3	14.5
M18	× 1.5	TC963676	17	110	44	14	11	14	3	16.5
M20	× 1.5	TC963726	17	125	50	16	12	15	3	18.5
M22	× 1.5	TC963766	17	125	50	18	14.5	17	3	20.5
M24	× 1.5	TC963806	20	140	54	18	14.5	17	3	22.5

◎ : Excellent ○ : Good

ISO	P									M				K							
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended	○	○	○																		

ISO	N					S							H								
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials			Heat Resistant Super Alloys				Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron		
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎																	



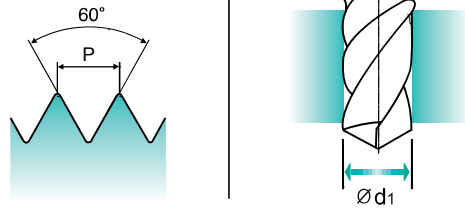
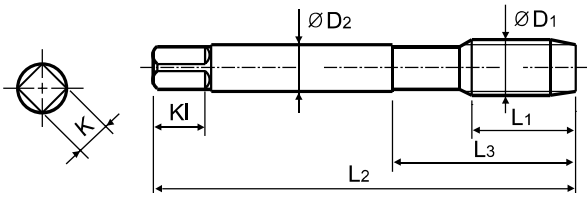
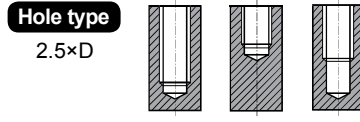
UNC

Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

► Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Material groups

AI

HSS-E

DIN 371/376

2B



Bright



Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	KI	Z	Ød1
#4	- 40UNC	TC169162	6	56	18	3.5	2.7	6	2	2.3
#5	- 40UNC	TC169202	7	56	18	3.5	2.7	6	2	2.6
#6	- 32UNC	TC169242	7	56	20	4	3	6	2	2.85
#8	- 32UNC	TC169282	8	63	21	4.5	3.4	6	2	3.5
#10	- 24UNC	TC169322	10	70	25	6	4.9	8	2	3.9
#12	- 24UNC	TC169362	10	80	30	6	4.9	8	2	4.5
1/4	- 20UNC	TC169402	13	80	30	7	5.5	8	2	5.2
5/16	- 18UNC	TC169442	14	90	35	8	6.2	9	2	6.6
3/8	- 16UNC	TC169482	16	100	39	9	7	10	2	8
7/16	- 14UNC	TC169522	17	100	40	8	6.2	9	2	9.4
1/2	- 13UNC	TC169562	20	110	44	9	7	10	2	10.75
9/16	- 12UNC	TC169602	20	110	44	11	9	12	3	12.25
5/8	- 11UNC	TC169642	22	110	44	12	9	12	3	13.5
3/4	- 10UNC	TC169702	25	125	50	14	11	14	3	16.5
7/8	- 9UNC	TC169742	27	140	54	18	14.5	17	3	19.5
1	- 8UNC	TC169782	30	160	60	20	16	19	3	22.25
1-1/8	- 7UNC	TC169822	35	180	65	22	18	21	3	25

► DIN 371(#4~3/8) and DIN 376(7/16~1-1/8)

◎ : Excellent ○ : Good

ISO	P										M						K						
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel						Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20			
HRC	13	13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	42	55			
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230			
Recommended	○	○	○																				

ISO	N										S						H										
	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys						Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron						
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41						
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41						
HRC	60	100	75	90	130	110	90	100			15	30	25	38	34	200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	◎	◎	◎	◎																							



UNF

Unified fine threads

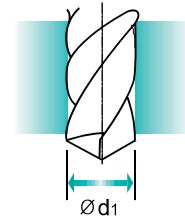
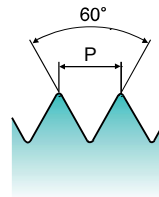
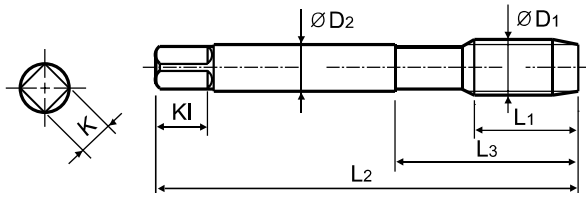
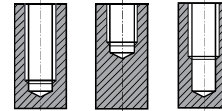
- Unified Feingewinde
- UNF
- Unificato passo grosso

► Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

► Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Hole type
2.5×D



Material groups

AI

HSS-E

DIN 371/374

2B



Bright



Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	KI	Z	Ød1
#4	- 48UNF	TC170182	6	56	18	3.5	2.7	6	2	2.4
#5	- 44UNF	TC170222	7	56	18	3.5	2.7	6	2	2.7
#6	- 40UNF	TC170262	7	56	20	4	3	6	2	3
#8	- 36UNF	TC170302	8	63	21	4.5	3.4	6	2	3.5
#10	- 32UNF	TC170342	10	70	25	6	4.9	8	2	4.1
#12	- 28UNF	TC170382	10	80	30	6	4.9	8	2	4.7
1/4	- 28UNF	TC170422	10	80	30	7	5.5	8	2	5.5
5/16	- 24UNF	TC170462	10	90	35	8	6.2	9	2	6.9
3/8	- 24UNF	TC170502	10	100	39	9	7	10	2	8.5
7/16	- 20UNF	TC170542	13	100	40	8	6.2	9	2	9.9
1/2	- 20UNF	TC170582	13	100	40	9	7	10	2	11.5
9/16	- 18UNF	TC170622	15	100	40	11	9	12	3	12.9
5/8	- 18UNF	TC170662	15	100	40	12	9	12	3	14.5
3/4	- 16UNF	TC170722	17	110	44	14	11	14	3	17.5
7/8	- 14UNF	TC170762	17	125	50	18	14.5	17	3	20.5
1	- 12UNF	TC170802	20	140	54	18	14.5	17	3	23.25
1-1/8	- 12UNF	TC170842	22	150	60	22	18	21	3	26.5

►DIN 371(#4~3/8) and DIN 374(7/16~1-1/8)

◎ : Excellent ○ : Good

ISO	P										M				K						
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRc	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended	○	○	○																		

ISO	N										S							H			
	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys							Titanium Alloys		Hardened steel	Chilled Cast Iron
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc	60	100	75	90	130	110	90	100			15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎							◎	◎	◎	◎	◎			◎	◎	◎	◎



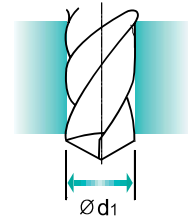
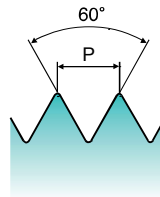
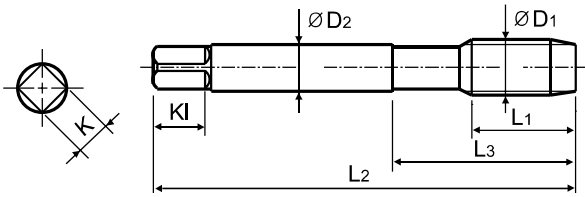
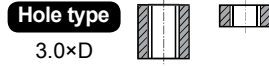
M-Az

ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Interrupted tap to reduce contact area and tapping torque, and to give more chip space.

► Gewindebohrer mit ausgesetzten Zähnen um die Kontaktzone mit dem Werkstück und das Drehmoment zu minimieren und dem Span mehr Raum zu geben.



Material groups

AI

HSS-E

DIN 371/376

6H



Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TC622136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TC622156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TC622196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TC622176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TC622496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TC622206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TC622226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TC622246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TC622266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TC622286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TC622316	17	80	30	6	4.9	8	3	5
M7 × 1		TC622346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TC622366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TC622396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TC622426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TC622466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TC622506	24	110	44	9	7	10	3	10.2
M14 × 2		TC622546	26	110	44	11	9	12	3	12
M16 × 2		TC622606	27	110	44	12	9	12	3	14
M18 × 2.5		TC622656	30	125	50	14	11	14	3	15.5
M20 × 2.5		TC622706	32	140	54	16	12	15	3	17.5
M22 × 2.5		TC622746	32	140	54	18	14.5	17	3	19.5
M24 × 3		TC622786	34	160	60	18	14.5	17	3	21
M27 × 3		TC622866	36	160	60	20	16	19	3	24
M30 × 3.5		TC622946	40	180	70	22	18	21	3	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

◎ : Excellent ○ : Good

ISO	P										M						K					
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel						Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HRC		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	42	55		
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230		
Recommended	○	○	○																			

ISO	N					S										H					
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys						Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRC											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎			○														

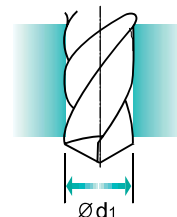
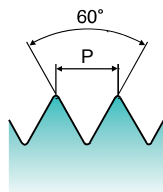
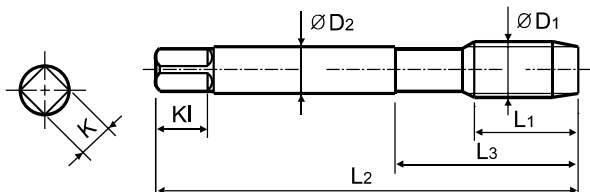
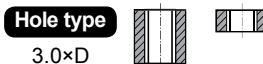


M ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Suitable for through hole in more cutting speed than other taps due to thick web.

► Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.



Material groups: **AI** HSS-E DIN 371/376 6H 60° B NI

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Ni	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TE943136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TE943156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TE943196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TE943176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TE943496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TE943206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TE943226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TE943246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TE943266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TE943286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TE943316	17	80	30	6	4.9	8	3	5
M7 × 1		TE943346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TE943366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TE943396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TE943426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TE943466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TE943506	24	110	44	9	7	10	3	10.2
M14 × 2		TE943546	26	110	44	11	9	12	3	12
M16 × 2		TE943606	27	110	44	12	9	12	3	14
M18 × 2.5		TE943656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TE943706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TE943746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TE943786	34	160	60	18	14.5	17	4	21
M27 × 3		TE943866	36	160	60	20	16	19	4	24
M30 × 3.5		TE943946	40	180	70	22	18	21	4	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

◎ : Excellent ○ : Good

ISO	P										M				K									
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel				Stainless steel				Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25						
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230				
Recommended			○																					

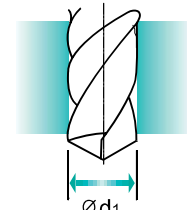
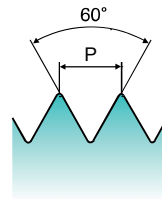
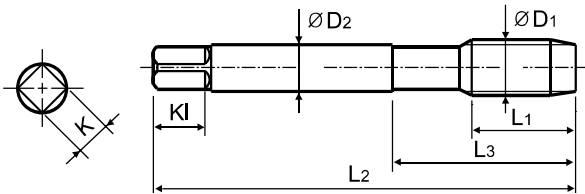
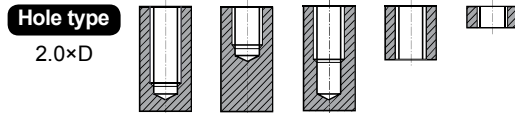
ISO	N										S							H			
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron	
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	○	○	○	○	◎																

M ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

▶ Suitable for brass and short chip work materials.

▶ Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen


Ms

HSS-E

DIN 371/376

6H



Bright

 Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TC433136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TC433156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TC433196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TC433176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TC433496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TC433206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TC433226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TC433246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TC433266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TC433286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TC433316	17	80	30	6	4.9	8	3	5
M7 × 1		TC433346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TC433366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TC433396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TC433426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TC433466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TC433506	24	110	44	9	7	10	3	10.2
M14 × 2		TC433546	26	110	44	11	9	12	3	12
M16 × 2		TC433606	27	110	44	12	9	12	3	14
M18 × 2.5		TC433656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TC433706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TC433746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TC433786	34	160	60	18	14.5	17	4	21
M27 × 3		TC433866	36	160	60	20	16	19	4	24
M30 × 3.5		TC433946	40	180	70	22	18	21	4	26.5

▶ DIN 371(M2~M10) and DIN 376(M11~M30)

▶ * DIN profile not ISO

◎ : Excellent ○ : Good

ISO	P										M				K							
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21		
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230		
Recommended																						
ISO	N					S					H											
	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials			Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
HRc											15	30	25	38	34			55	60	42	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended						◎	○	○														

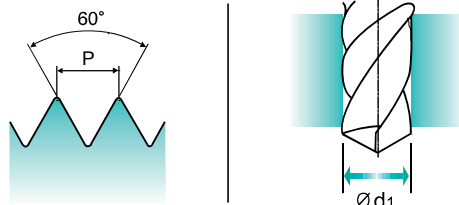
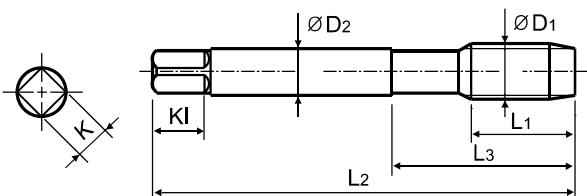
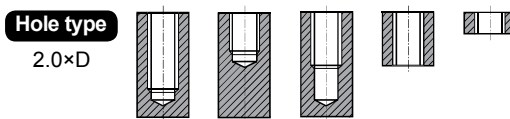
M ISO metric coarse threads DIN 13



- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Suitable for brass and short chip work materials.

► Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen



Material groups: **Ms** HSS-E DIN 371/376 6HX 60° C NI

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Ni	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TE443136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TE443156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TE443196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TE443176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TE443496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TE443206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TE443226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TE443246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TE443266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TE443286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TE443316	17	80	30	6	4.9	8	3	5
M7 × 1		TE443346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TE443366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TE443396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TE443426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TE443466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TE443506	24	110	44	9	7	10	3	10.2
M14 × 2		TE443546	26	110	44	11	9	12	3	12
M16 × 2		TE443606	27	110	44	12	9	12	3	14
M18 × 2.5		TE443656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TE443706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TE443746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TE443786	34	160	60	18	14.5	17	4	21
M27 × 3		TE443866	36	160	60	20	16	19	4	24
M30 × 3.5		TE443946	40	180	70	22	18	21	4	26.5

► DIN 371(M2~M10) and DIN 376(M11~M30)

► * DIN profile not ISO

◎ : Excellent ○ : Good

ISO	P									M				K							
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended																					
ISO	N										S						H				
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys				Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron		
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended																					

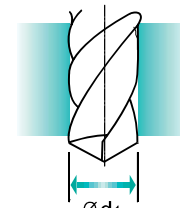
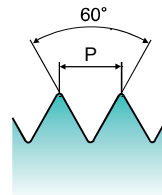
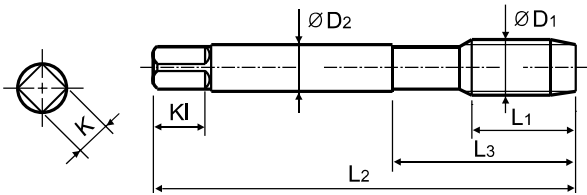
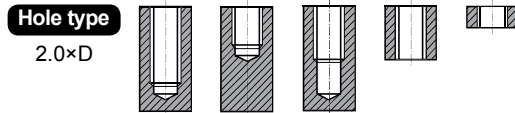


M ISO metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Suitable for brass and short chip work materials.

► Geeignet zum Gewindeschneiden von Messing und anderen kurzspannenden Werkstoffen



Material groups **Ms** **HSS-E** **DIN 371/376** **6H** **60°** **C** **TiAlN**

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TY433136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TY433156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TY433196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TY433176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TY433496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TY433206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TY433226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TY433246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TY433266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TY433286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TY433316	17	80	30	6	4.9	8	3	5
M7 × 1		TY433346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TY433366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TY433396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TY433426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TY433466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TY433506	24	110	44	9	7	10	3	10.2
M14 × 2		TY433546	26	110	44	11	9	12	3	12
M16 × 2		TY433606	27	110	44	12	9	12	3	14
M18 × 2.5		TY433656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TY433706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TY433746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TY433786	34	160	60	18	14.5	17	4	21
M27 × 3		TY433866	36	160	60	20	16	19	4	24
M30 × 3.5		TY433946	40	180	70	22	18	21	4	26.5

- DIN 371(M2~M10) and DIN 376(M11~M30)
- * DIN profile not ISO

◎ : Excellent ○ : Good

ISO	P										M				K						
	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel				Stainless steel		Grey cast iron		Nodular cast iron		Malleable cast iron
Material Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
VDI 3323																					
HRC	13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	19	21		
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230	
Recommended																					

ISO	N					S					H										
	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials			Heat Resistant Super Alloys			Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron			
Material Description	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
VDI 3323																					
HRC	60	100	75	90	130	110	90	100			15	30	25	38	34	200	280	250	350	320	400Rm
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended						◎	○	○													



RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

THREAD MILLS

SYNCHRO TAPS

COMBO TAPS

YG TAP GENERAL

YG TAP STEEL

YG TAP HARDENED

YG TAP INOX

YG TAP CAST IRON

YG TAP ALU

YG TAP Ti Ni

YG TAP FORMING

NUT TAPS

STI TAPS

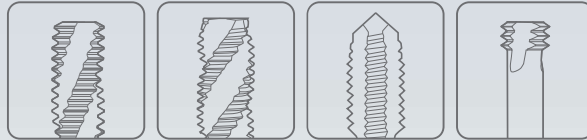
PIPE TAPS

TECHNICAL DATA

					TC163 TC963 TC169 TC170	TE953	TC622	TE943	TC433	TE443	TY433
ISO	VDI 3323	Material Description	HB	Hrc	Vc (m/min)						
P	1	Non-alloy steel	125		15-20		15-20				
	2		190	13	15-20		15-20				
	3		250	25	12-18	12-18	12-18	12-18			
	4		270	28							
	5		300	32							
	6	Low alloy steel	180	10							
	7		275	29							
	8		300	32							
	9		350	38							
	10		High alloyed steel, and tool steel	200	15						
	11	325		35							
M	12	Stainless steel	200	15							
	13		240	23							
	14		180	10							
K	15	Grey cast iron	180	10							
	16		260	26							
	17	Nodular cast iron	160	3							
	18		250	25							
	19	Malleable cast iron	130								
	20		230	21							
N	21	Aluminum-wrought alloy	60		10-15	10-15	10-15	10-15			
	22		100		10-15	10-15	10-15	10-15			
	23	Aluminum-cast, alloyed	75		15-20	15-20	15-20	15-20			
	24		90		15-20	15-20	15-20	15-20			
	25		130			10-15		10-15			
	26	Copper and Copper Alloys (Bronze / Brass)	110						25-35	25-35	35-40
	27		90		8-12		8-12		8-12	8-12	12-16
	28		100						15-20		20-25
	29										
	30	Non Metallic Materials									
S	31	Heat Resistant Super Alloys	200	15							
	32		280	30							
	33		250	25							
	34		350	38							
	35		320	34							
	36	Titanium Alloys	400 Rm								
	37		1050 Rm								
H	38	Hardened steel	550	55							
	39		630	60							
	40	Chilled Cast Iron	400	42							
	41	Hardened Cast Iron	550	55							



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