



Leading Through Innovation



**HSS-E & HSS-PM**

# YG TAP STEEL

## YG TAP STEEL

- For Steel Materials but also other Long Chip Forming Materials
- Für Stahlwerkstoffe, aber auch andere langspanende Werkstoffe



**SELECTION GUIDE**



**HSS-E & HSS-PM  
YG TAP  
STEEL**

For Steel Materials but also other Long Chip Forming Materials



Please visit [globalyg1.com/mat](http://globalyg1.com/mat) for material search

© : Excellent ○ : Good

Recommended cutting conditions : P.189

ISO	VDI 3323	Material Description	Composition / Structure / Heat Treatment		HB	HRc	MODEL			
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		About 0.75% C	Annealed	270	28	○	○	○	○
	5		About 0.75% C	Quenched & Tempered	300	32	⊙	⊙	⊙	⊙
	6	Low alloy steel		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 (Bronze / Brass)	Cutting Alloys, PB>1%		110					
	27		CuZn, CuSnZn (Brass)		90					
	28		CuSn, lead-free copper and electrolytic copper		100					
	29		Non Metallic Materials							
	30	Duroplastic, Fiber Reinforced Plastic Rubber, Wood, etc.								
S	31	Heat Resistant Super Alloys	Fe Based	Annealed	200	15	○	○	○	○
	32			Cured	280	30				
	33		Ni or Co Based	Annealed	250	25				
	34			Cured	350	38				
	35			Cast	320	34				
	36	Titanium Alloys	Pure Titanium		400 Rm		○	○	○	○
	37		Alpha + Beta Alloys		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				

HOLE TYPE		Max. 2.5xD Blind Hole			
TOOL MATERIAL		HSS-PM		HSS-E	
CHAMFER LEAD ACC. TO DIN2197		C	C	C	C
FLUTE TYPE		Spiral Flute	Spiral Flute	Spiral Flute	Spiral Flute
SPIRAL FLUTE ANGLE		R40	R40	R40	R40
M	DIN371/376	TQ823 (P.166)	TR823 (P.167)	TC312 (P.168)	TD312 (P.169)
	DIN352				
	DIN357/LONG				
MF	DIN374			TC413 (P.172)	TD413 (P.173)
	DIN2181				
UNC	DIN371/376			TC174 (P.174)	TD174 (P.175)
	DIN351				
UNF	DIN371/374			TC184 (P.176)	
	DIN2181				
BSW	DIN2182/2183				
	DIN351				
G(BSP)	DIN5156/5157				
EG-M	DIN371/376				
EG-UNC	DIN371/376				
EG-UNF	DIN371/374				
SURFACE TREATMENT		VAP	Bright	Bright	TIN



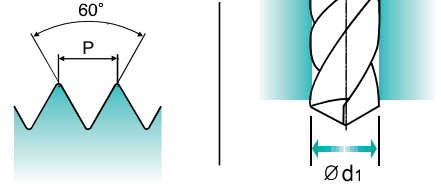
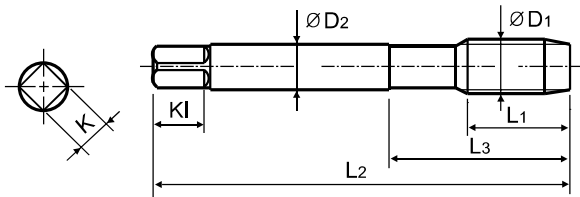
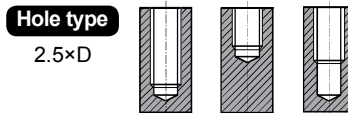


**M ISO metric coarse threads DIN 13**

- 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: **VG** HSS-PM DIN 371/376 6H 60° C Vap R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TQ823136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TQ823156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TQ823176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TQ823206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TQ823226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TQ823246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TQ823266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TQ823286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TQ823316	10	80	30	6	4.9	8	3	5
M7 × 1		TQ823346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TQ823366	13	90	35	8	6.2	9	3	6.8
M10 × 1.5		TQ823426	15	100	39	10	8	11	3	8.5
M12 × 1.75		TQ823506	18	110	44	9	7	10	3	10.2

► DIN 371(M2~M10) and DIN 376(M12)

◎ : 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											○	○	○	○	○	○	○	○	○	○	○

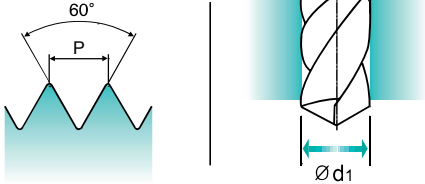
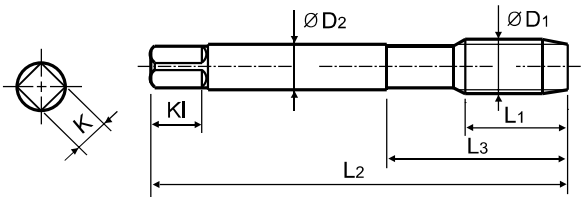
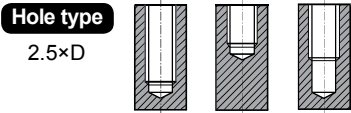


# M ISO metric coarse threads DIN 13

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

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

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Material groups: **VG** HSS-PM DIN 371/376 6H 60° C Bright R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Kl	Z	Ød1
M2 × 0.4		TR823136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TR823156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TR823176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TR823206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TR823226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TR823246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TR823266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TR823286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TR823316	10	80	30	6	4.9	8	3	5
M7 × 1		TR823346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TR823366	13	90	35	8	6.2	9	3	6.8
M10 × 1.5		TR823426	15	100	39	10	8	11	3	8.5
M12 × 1.75		TR823506	18	110	44	9	7	10	3	10.2

► DIN 371(M2~M10) and DIN 376(M12)

◎ : 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	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	21	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	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**



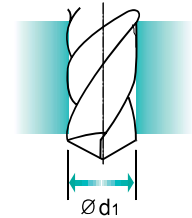
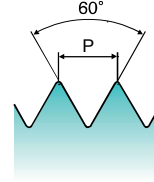
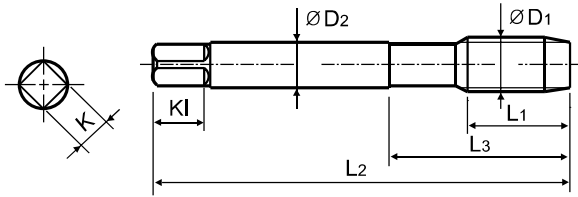
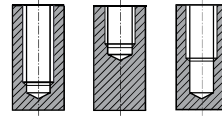
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► 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.



**Hole type**  
2.5×D



Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M2 × 0.4		TC312136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TC312156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TC312196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TC312176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TC312496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TC312206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TC312226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TC312246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TC312266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TC312286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TC312316	10	80	30	6	4.9	8	3	5
M7 × 1		TC312346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TC312366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TC312396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TC312426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TC312466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TC312506	18	110	44	9	7	10	3	10.2
M14 × 2		TC312546	20	110	44	11	9	12	3	12
M16 × 2		TC312606	20	110	44	12	9	12	3	14
M18 × 2.5		TC312656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TC312706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TC312746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TC312786	30	160	60	18	14.5	17	4	21
M27 × 3		TC312866	30	160	60	20	16	19	4	24
M30 × 3.5		TC312946	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					
	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	13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25	19	20	
HRc	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	15	30	25	38	34	15	30	25	38	34	200	280	250	350	320	400Rm	1050Rm	550	630	400	550
HRc	60	100	75	90	130	110	90	100													
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○





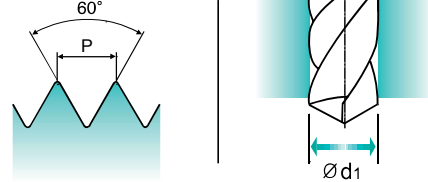
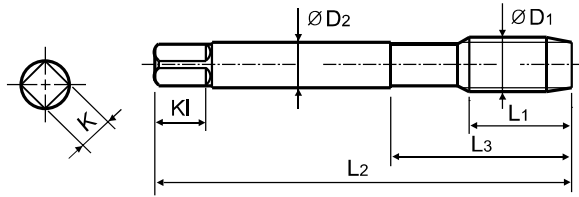
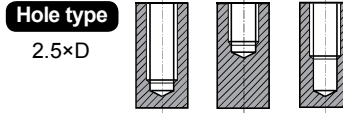
# M

### ISO metric coarse threads DIN 13

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- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

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



HSS-E
DIN 371/376
6H
60°
C
TiN
R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	TiN	L1	L2	L3	ØD2	K	K1	Z	Ød1
M2 × 0.4		TD312136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TD312156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TD312196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TD312176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TD312496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TD312206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TD312226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TD312246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TD312266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TD312286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TD312316	10	80	30	6	4.9	8	3	5
M7 × 1		TD312346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TD312366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TD312396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TD312426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TD312466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TD312506	18	110	44	9	7	10	3	10.2
M14 × 2		TD312546	20	110	44	11	9	12	3	12
M16 × 2		TD312606	20	110	44	12	9	12	3	14
M18 × 2.5		TD312656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TD312706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TD312746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TD312786	30	160	60	18	14.5	17	4	21
M27 × 3		TD312866	30	160	60	20	16	19	4	24
M30 × 3.5		TD312946	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 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	13	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	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	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**



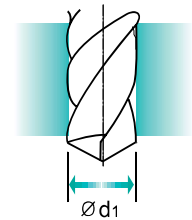
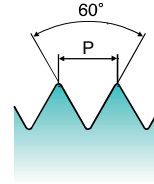
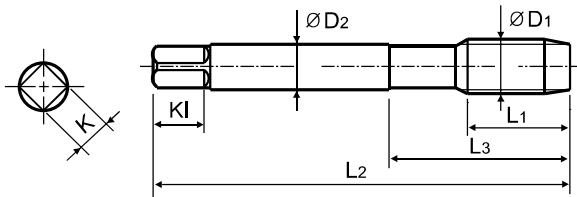
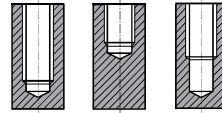
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Suitable for threading blind holes due to excellent chip evacuation of tempered steels or similar work materials.

► Geeignet zum Gewinden von Sacklöchern dank ausgezeichneter Spanabfuhr von angelassenen Stählen oder ähnlichen Werkstoffen.



**Hole type**  
2.5×D



Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TB312136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TB312156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TB312196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TB312176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TB312496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TB312206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TB312226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TB312246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TB312266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TB312286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TB312316	10	80	30	6	4.9	8	3	5
M7 × 1		TB312346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TB312366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TB312396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TB312426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TB312466	17	100	40	8	6.2	12	3	9.5
M12 × 1.75		TB312506	18	110	44	9	7	10	3	10.2
M14 × 2		TB312546	20	110	44	11	9	12	3	12
M16 × 2		TB312606	20	110	44	12	9	12	3	14
M18 × 2.5		TB312656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TB312706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TB312746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TB312786	30	160	60	18	14.5	17	4	21
M27 × 3		TB312866	30	160	60	20	16	19	4	24
M30 × 3.5		TB312946	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 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	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 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	15	30	25	38	34	200	280	250	350	320	400Rm	1050Rm	550	630	400	550
HB	60	100	75	90	130	110	90	100													
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



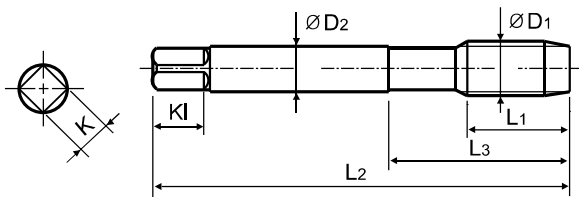
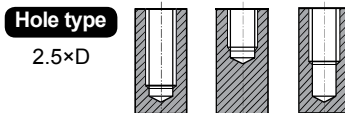


**M ISO metric coarse threads DIN 13**

- 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: **VG** HSS-E DIN 371/376 6H 60° C TiAlN R40

 Machine taps  
 Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M2 × 0.4		TY312136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TY312156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TY312196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TY312176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TY312496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TY312206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TY312226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TY312246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TY312266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TY312286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TY312316	10	80	30	6	4.9	8	3	5
M7 × 1		TY312346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TY312366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TY312396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TY312426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TY312466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TY312506	18	110	44	9	7	10	3	10.2
M14 × 2		TY312546	20	110	44	11	9	12	3	12
M16 × 2		TY312606	20	110	44	12	9	12	3	14
M18 × 2.5		TY312656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TY312706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TY312746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TY312786	30	160	60	18	14.5	17	4	21
M27 × 3		TY312866	30	160	60	20	16	19	4	24
M30 × 3.5		TY312946	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 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	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 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	21	22	23	24	25	26	27	28	29	30	31	30	25	38	34	36	37	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	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



**MF** ISO metric fine threads DIN 13

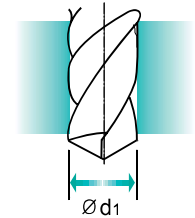
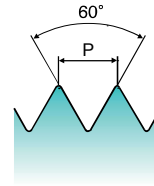
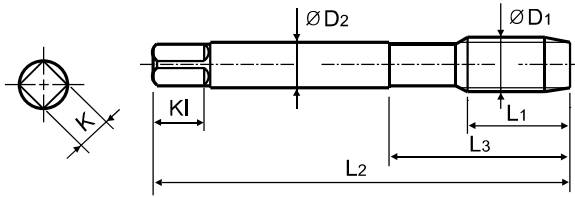
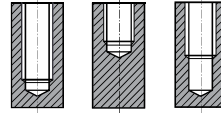
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo grosso DIN 13

► 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 **VG** **HSS-E** **DIN 374** **6H** **60°** **C** **Bright** **R40**

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M4	× 0.5	TC413256	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TC413296	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TC413326	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TC413336	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TC413356	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	TC413376	10	90	36	6	4.9	8	3	7
M8	× 0.75	TC413386	8	80	30	6	4.9	8	3	7.2
M10	× 1.25	TC413436	16	100	40	7	5.5	8	3	8.8
M10	× 1	TC413446	10	90	36	7	5.5	8	3	9
M10	× 0.75	TC413456	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	TC413516	15	100	40	9	7	10	3	10.5
M12	× 1.25	TC413526	15	100	40	9	7	10	3	10.8
M12	× 1	TC413536	11	100	40	9	7	10	3	11
M14	× 1.5	TC413556	15	100	40	11	9	12	3	12.5
M14	× 1.25	TC413566	15	100	40	11	9	12	3	12.8
M16	× 1.5	TC413616	15	100	40	12	9	12	3	14.5
M18	× 1.5	TC413676	17	110	44	14	11	14	4	16.5
M20	× 1.5	TC413726	17	125	50	16	12	15	4	18.5
M22	× 1.5	TC413766	17	125	50	18	14.5	17	4	20.5
M24	× 1.5	TC413806	20	140	54	18	14.5	17	4	22.5

◎ : 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	
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 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
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											○	○	○	○	○	○	○	○	○	○	○

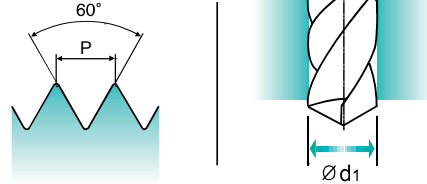
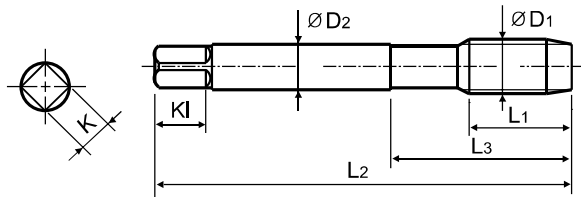
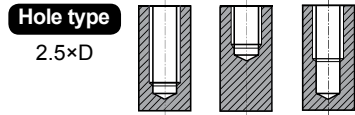


# MF ISO metric fine threads DIN 13

- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrica 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: **VG** HSS-E DIN 374 6H 60° C TiN R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	TiN	L1	L2	L3	ØD2	K	K1	Z	Ød1
M4	× 0.5	TD413256	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TD413296	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TD413326	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TD413336	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TD413356	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	TD413376	10	90	36	6	4.9	8	3	7
M8	× 0.75	TD413386	8	80	30	6	4.9	8	3	7.2
M10	× 1.25	TD413436	16	100	40	7	5.5	8	3	8.8
M10	× 1	TD413446	10	90	36	7	5.5	8	3	9
M10	× 0.75	TD413456	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	TD413516	15	100	40	9	7	10	3	10.5
M12	× 1.25	TD413526	15	100	40	9	7	10	3	10.8
M12	× 1	TD413536	11	100	40	9	7	10	3	11
M14	× 1.5	TD413556	15	100	40	11	9	12	3	12.5
M14	× 1.25	TD413566	15	100	40	11	9	12	3	12.8
M16	× 1.5	TD413616	15	100	40	12	9	12	3	14.5
M18	× 1.5	TD413676	17	110	44	14	11	14	4	16.5
M20	× 1.5	TD413726	17	125	50	16	12	15	4	18.5
M22	× 1.5	TD413766	17	125	50	18	14.5	17	4	20.5
M24	× 1.5	TD413806	20	140	54	18	14.5	17	4	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				
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											○	○	○	○	○	○	○	○	○	○	○

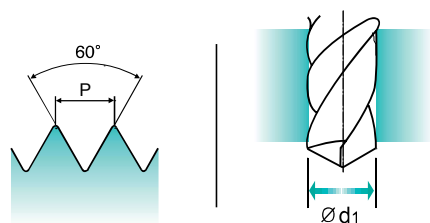
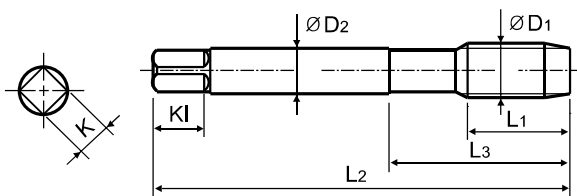
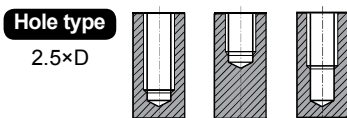


**UNC** Unified coarse threads

- 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.



HSS-E DIN 371/376 2B 60° C Bright R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
#4	- 40UNC	TC174162	6	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	TC174202	7	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	TC174242	7	56	20	4	3	6	3	2.85
#8	- 32UNC	TC174282	8	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	TC174322	10	70	25	6	4.9	8	3	3.9
#12	- 24UNC	TC174362	10	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	TC174402	13	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	TC174442	14	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	TC174482	16	100	39	9	7	10	3	8
7/16	- 14UNC	TC174522	17	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	TC174562	20	110	44	9	7	10	3	10.75
9/16	- 12UNC	TC174602	20	110	44	11	9	12	3	12.25
5/8	- 11UNC	TC174642	22	110	44	12	9	12	3	13.5
3/4	- 10UNC	TC174702	25	125	50	14	11	14	4	16.5
7/8	- 9UNC	TC174742	27	140	54	18	14.5	17	4	19.5
1	- 8UNC	TC174782	30	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	TC174822	35	180	65	22	18	21	4	25

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

◎ : 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		
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	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



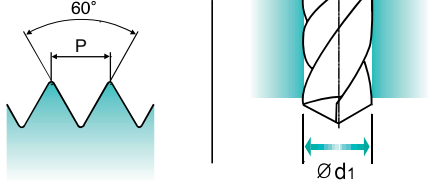
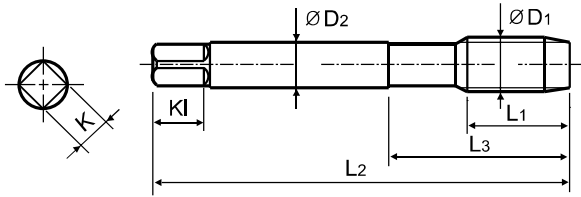
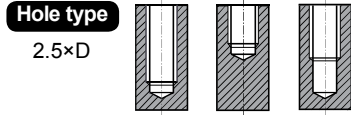
# UNC

**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: **VG** HSS-E DIN 371/376 2B 60° C TiN R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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		TiN	L1	L2	L3	ØD2	K	K1	Z	Ød1
#4	- 40UNC	TD174162	6	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	TD174202	7	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	TD174242	7	56	20	4	3	6	3	2.85
#8	- 32UNC	TD174282	8	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	TD174322	10	70	25	6	4.9	8	3	3.9
#12	- 24UNC	TD174362	10	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	TD174402	13	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	TD174442	14	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	TD174482	16	100	39	9	7	10	3	8
7/16	- 14UNC	TD174522	17	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	TD174562	20	110	44	9	7	10	3	10.75
9/16	- 12UNC	TD174602	20	110	44	11	9	12	3	12.25
5/8	- 11UNC	TD174642	22	110	44	12	9	12	3	13.5
3/4	- 10UNC	TD174702	25	125	50	14	11	14	4	16.5
7/8	- 9UNC	TD174742	27	140	54	18	14.5	17	4	19.5
1	- 8UNC	TD174782	30	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	TD174822	35	180	65	22	18	21	4	25

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

◎ : 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	10	15	35	23	10	10	26	3	25	21	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											○	○	○	○	○	○	○	○	○	○	○

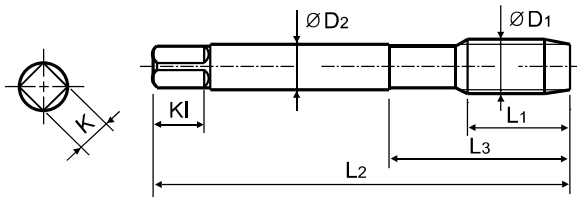
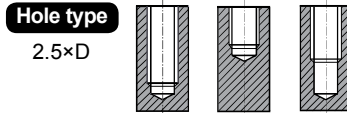


**UNF** Unified fine threads

- 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.



Material groups: **VG** HSS-E DIN 371/374 2B 60° C Bright R40

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
#4 - 48UNF		TC184182	6	56	18	3.5	2.7	6	3	2.4
#5 - 44UNF		TC184222	7	56	18	3.5	2.7	6	3	2.7
#6 - 40UNF		TC184262	7	56	20	4	3	6	3	3
#8 - 36UNF		TC184302	8	63	21	4.5	3.4	6	3	3.5
#10 - 32UNF		TC184342	10	70	25	6	4.9	8	3	4.1
#12 - 28UNF		TC184382	10	80	30	6	4.9	8	3	4.7
1/4 - 28UNF		TC184422	10	80	30	7	5.5	8	3	5.5
5/16 - 24UNF		TC184462	10	90	35	8	6.2	9	3	6.9
3/8 - 24UNF		TC184502	10	100	39	9	7	10	3	8.5
7/16 - 20UNF		TC184542	13	100	40	8	6.2	9	3	9.9
1/2 - 20UNF		TC184582	13	100	40	9	7	10	3	11.5
9/16 - 18UNF		TC184622	15	100	40	11	9	12	3	12.9
5/8 - 18UNF		TC184662	15	100	40	12	9	12	3	14.5
3/4 - 16UNF		TC184722	17	110	44	14	11	14	4	17.5
7/8 - 14UNF		TC184762	17	125	50	18	14.5	17	4	20.5
1 - 12UNF		TC184802	20	140	54	18	14.5	17	4	23.25
1-1/8 - 12UNF		TC184842	22	150	60	22	18	21	4	26.5

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

◎ : 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	
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 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

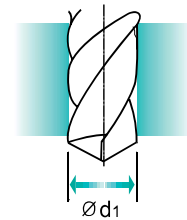
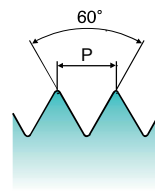
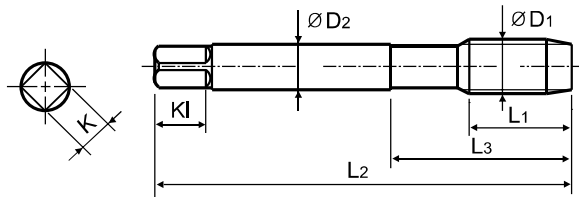
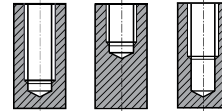
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

- ▶ With recessed threads for machine tapping of deep blind holes.
- ▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

- ▶ Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
- ▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Hole type  
2.5×D



HSS-E

DIN 371/376

6H



Vap



Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Vap	L1	L2	L3	ØD2	K	K1	Z	Ød1
M2 × 0.4		<b>TB913136</b>	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		<b>TB913156</b>	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		<b>TB913196</b>	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		<b>TB913176</b>	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		<b>TB913496</b>	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		<b>TB913206</b>	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		<b>TB913226</b>	7	56	20	4	3	6	3	2.9
M4 × 0.7		<b>TB913246</b>	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		<b>TB913266</b>	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		<b>TB913286</b>	8	70	25	6	4.9	8	3	4.2
M6 × 1		<b>TB913316</b>	10	80	30	6	4.9	8	3	5
M7 × 1		<b>TB913346</b>	10	80	30	7	5.5	8	3	6
M8 × 1.25		<b>TB913366</b>	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		<b>TB913396</b>	13	90	35	9	7	10	3	7.8
M10 × 1.5		<b>TB913426</b>	15	100	39	10	8	11	3	8.5
M11 × 1.5		<b>TB913466</b>	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		<b>TB913506</b>	18	110	44	9	7	10	3	10.2
M14 × 2		<b>TB913546</b>	20	110	44	11	9	12	3	12
M16 × 2		<b>TB913606</b>	20	110	44	12	9	12	3	14
M18 × 2.5		<b>TB913656</b>	25	125	50	14	11	14	4	15.5
M20 × 2.5		<b>TB913706</b>	25	140	54	16	12	15	4	17.5
M22 × 2.5		<b>TB913746</b>	25	140	54	18	14.5	17	4	19.5
M24 × 3		<b>TB913786</b>	30	160	60	18	14.5	17	4	21
M27 × 3		<b>TB913866</b>	30	160	60	20	16	19	4	24
M30 × 3.5		<b>TB913946</b>	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						
	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										
	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	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



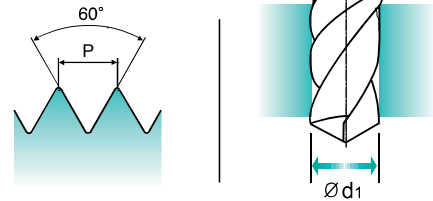
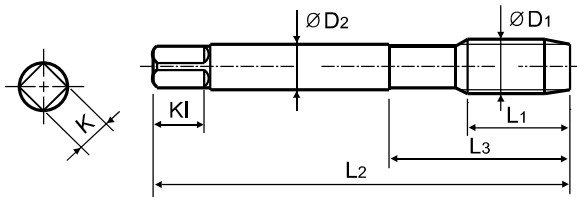
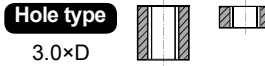


**M** ISO metric coarse threads DIN 13

- 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 and the best substrate.

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



Material groups **VG** HSS-PM DIN 371/376 6H 60° B Vap

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TQ863136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TQ863156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TQ863176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TQ863206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TQ863226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TQ863246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TQ863266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TQ863286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TQ863316	17	80	30	6	4.9	8	3	5
M7 × 1		TQ863346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TQ863366	20	90	35	8	6.2	9	3	6.8
M10 × 1.5		TQ863426	22	100	39	10	8	11	3	8.5
M12 × 1.75		TQ863506	24	110	44	9	7	10	3	10.2

► DIN 371(M2~M10) and DIN 376(M12)

◎ : 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	
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	130	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	15	30	25	38	34	200	280	250	350	320	400Rm	1050Rm	550	630	400	550
HB	60	100	75	90	130	110	90	100													
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



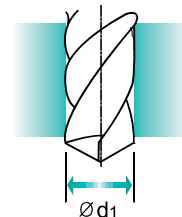
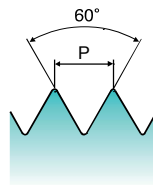
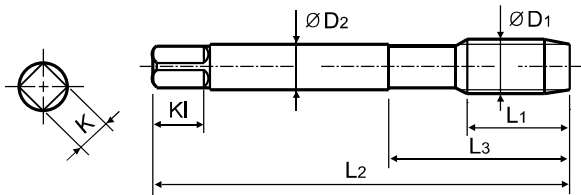
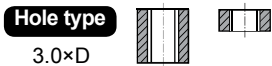


# M ISO metric coarse threads DIN 13

- 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 and the best substrate.

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



Material groups **VG** **HSS-PM** **DIN 371/376** **6H** **B** **Bright**

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M2 × 0.4		TR863136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TR863156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TR863176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TR863206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TR863226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TR863246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TR863266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TR863286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TR863316	17	80	30	6	4.9	8	3	5
M7 × 1		TR863346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TR863366	20	90	35	8	6.2	9	3	6.8
M10 × 1.5		TR863426	22	100	39	10	8	11	3	8.5
M12 × 1.75		TR863506	24	110	44	9	7	10	3	10.2

►DIN 371(M2~M10) and DIN 376(M12)

◎ : 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	10	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 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											○	○	○	○	○	○	○				

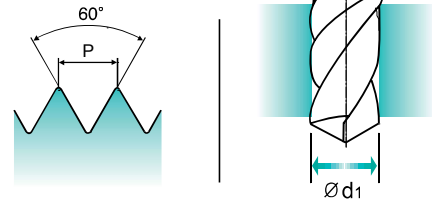
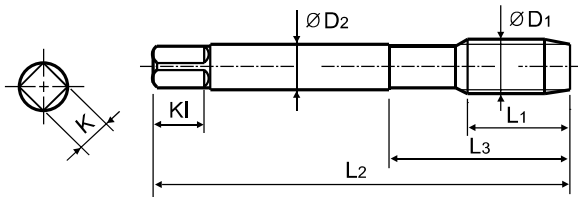
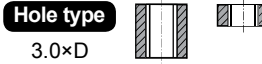


**M ISO metric coarse threads DIN 13**

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

► Suitable for 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 **VG** HSS-E DIN 371/376 6H 60° B Bright

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M2 × 0.4		TC422136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TC422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TC422196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TC422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TC422496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TC422206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TC422226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TC422246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TC422266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TC422286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TC422316	17	80	30	6	4.9	8	3	5
M7 × 1		TC422346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TC422366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TC422396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TC422426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TC422466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TC422506	24	110	44	9	7	10	3	10.2
M14 × 2		TC422546	26	110	44	11	9	12	3	12
M16 × 2		TC422606	27	110	44	12	9	12	3	14
M18 × 2.5		TC422656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TC422706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TC422746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TC422786	34	160	60	18	14.5	17	4	21
M27 × 3		TC422866	36	160	60	20	16	19	4	24
M30 × 3.5		TC422946	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	15	26	3	25				
HB	125	190	250	270	300	180	275	300	350	200	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											○	○	○	○	○	○	○	○	○	○	○

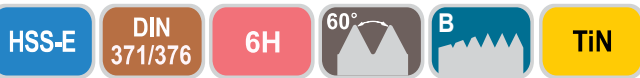
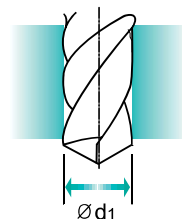
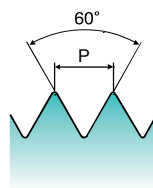
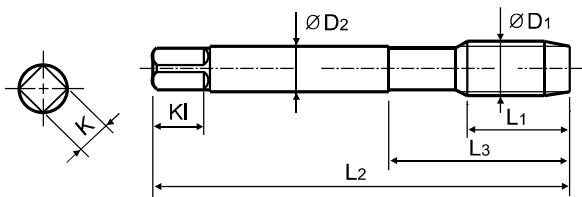
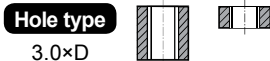


**M ISO metric coarse threads DIN 13**

- 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.


 Machine taps  
 Maschinengewindebohrer

Recommended Cutting Page : P.189

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	TiN	L1	L2	L3	ØD2	K	K1	Z	Ød1
M2 × 0.4		TD422136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TD422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TD422196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TD422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TD422496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TD422206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TD422226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TD422246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TD422266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TD422286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TD422316	17	80	30	6	4.9	8	3	5
M7 × 1		TD422346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TD422366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TD422396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TD422426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TD422466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TD422506	24	110	44	9	7	10	3	10.2
M14 × 2		TD422546	26	110	44	11	9	12	3	12
M16 × 2		TD422606	27	110	44	12	9	12	3	14
M18 × 2.5		TD422656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TD422706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TD422746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TD422786	34	160	60	18	14.5	17	4	21
M27 × 3		TD422866	36	160	60	20	16	19	4	24
M30 × 3.5		TD422946	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 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	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 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

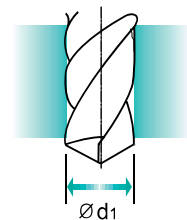
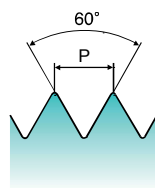
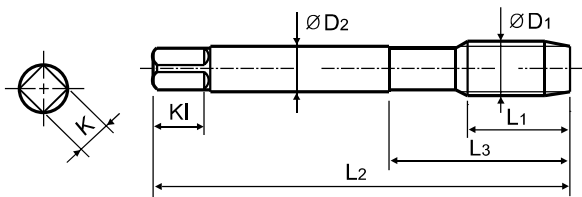
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

► Recommended for tapping abrasive materials due to nitriding, not suitable for tapping tough or high strength materials.

► Empfohlen für das Gewindeschneiden verschleißfördernder Werkstoffe wegen der Nitrierung; nicht geeignet für das Gewinden zäher oder hochfester Werkstoffe.



Hole type 3.0×D



Material groups **VG** **HSS-E** **DIN 371/376** **6H** **B** **NI**

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Kl	Z	Ød1
M2 × 0.4		TE422136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TE422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TE422196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TE422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TE422496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TE422206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TE422226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TE422246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TE422266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TE422286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TE422316	17	80	30	6	4.9	8	3	5
M7 × 1		TE422346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TE422366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TE422396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TE422426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TE422466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TE422506	24	110	44	9	7	10	3	10.2
M14 × 2		TE422546	26	110	44	11	9	12	3	12
M16 × 2		TE422606	27	110	44	12	9	12	3	14
M18 × 2.5		TE422656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TE422706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TE422746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TE422786	34	160	60	18	14.5	17	4	21
M27 × 3		TE422866	36	160	60	20	16	19	4	24
M30 × 3.5		TE422946	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 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		
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											○	○	○	○	○	○	○	○	○	○	○

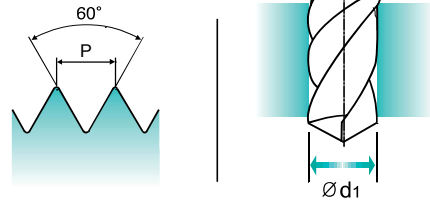
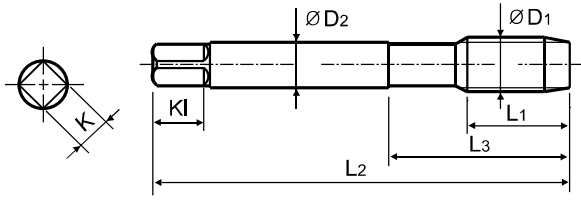
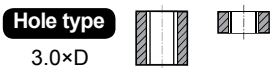


**M ISO metric coarse threads DIN 13**

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

► Suitable for 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** **HSS-E** **DIN 371/376** **6H** **B** **TiAlN**

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M2 × 0.4		TY422136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TY422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TY422196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TY422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TY422496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TY422206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TY422226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TY422246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TY422266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TY422286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TY422316	17	80	30	6	4.9	8	3	5
M7 × 1		TY422346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TY422366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TY422396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TY422426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TY422466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TY422506	24	110	44	9	7	10	3	10.2
M14 × 2		TY422546	26	110	44	11	9	12	3	12
M16 × 2		TY422606	27	110	44	12	9	12	3	14
M18 × 2.5		TY422656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TY422706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TY422746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TY422786	34	160	60	18	14.5	17	4	21
M27 × 3		TY422866	36	160	60	20	16	19	4	24
M30 × 3.5		TY422946	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				
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											○	○	○	○	○	○	○	○	○	○	○



**MF** ISO metric fine threads DIN 13

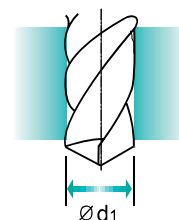
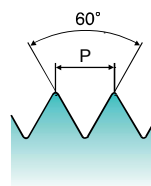
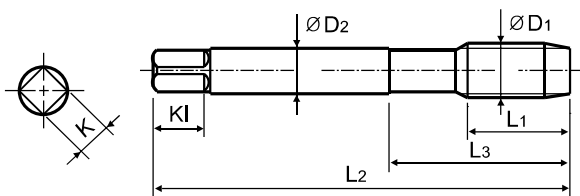
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo fine DIN 13

► 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.



**Hole type**  
3.0×D



Material groups **VG** **HSS-E** **DIN 374** **6H** **60°** **B** **Bright**

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
M4	× 0.5	TC263256	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TC263296	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TC263326	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TC263336	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TC263356	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	TC263376	17	90	36	6	4.9	8	3	7
M8	× 0.75	TC263386	14	80	30	6	4.9	8	3	7.2
M10	× 1.25	TC263436	22	100	40	7	5.5	8	3	8.8
M10	× 1	TC263446	18	90	36	7	5.5	8	3	9
M10	× 0.75	TC263456	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	TC263516	22	100	40	9	7	10	3	10.5
M12	× 1.25	TC263526	22	100	40	9	7	10	3	10.8
M12	× 1	TC263536	18	100	40	9	7	10	3	11
M14	× 1.5	TC263556	22	100	40	11	9	12	3	12.5
M14	× 1.25	TC263566	22	100	40	11	9	12	3	12.8
M16	× 1.5	TC263616	22	100	40	12	9	12	3	14.5
M18	× 1.5	TC263676	25	110	44	14	11	14	4	16.5
M20	× 1.5	TC263726	25	125	50	16	12	15	4	18.5
M22	× 1.5	TC263766	25	125	50	18	14.5	17	4	20.5
M24	× 1.5	TC263806	27	140	54	18	14.5	17	4	22.5

◎ : 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											○	○	○	○	○	○	○	○	○	○	○

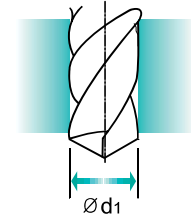
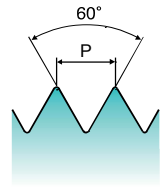
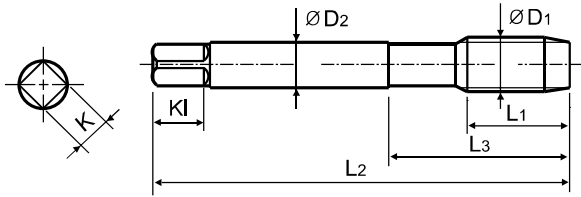
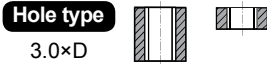


# MF ISO metric fine threads DIN 13

- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo fine 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: **VG** HSS-E DIN 374 6H 60° B TiN

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M4 × 0.5		TD263256	10	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TD263296	11	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TD263326	13	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TD263336	13	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TD263356	14	80	30	5.5	4.3	7	3	6.2
M8 × 1		TD263376	17	90	36	6	4.9	8	3	7
M8 × 0.75		TD263386	14	80	30	6	4.9	8	3	7.2
M10 × 1.25		TD263436	22	100	40	7	5.5	8	3	8.8
M10 × 1		TD263446	18	90	36	7	5.5	8	3	9
M10 × 0.75		TD263456	18	90	36	7	5.5	8	3	9.2
M12 × 1.5		TD263516	22	100	40	9	7	10	3	10.5
M12 × 1.25		TD263526	22	100	40	9	7	10	3	10.8
M12 × 1		TD263536	18	100	40	9	7	10	3	11
M14 × 1.5		TD263556	22	100	40	11	9	12	3	12.5
M14 × 1.25		TD263566	22	100	40	11	9	12	3	12.8
M16 × 1.5		TD263616	22	100	40	12	9	12	3	14.5
M18 × 1.5		TD263676	25	110	44	14	11	14	4	16.5
M20 × 1.5		TD263726	25	125	50	16	12	15	4	18.5
M22 × 1.5		TD263766	25	125	50	18	14.5	17	4	20.5
M24 × 1.5		TD263806	27	140	54	18	14.5	17	4	22.5

◎ : 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											○	○	○	○	○	○	○	○	○	○	○



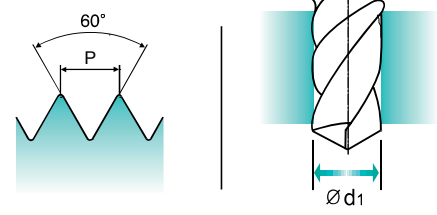
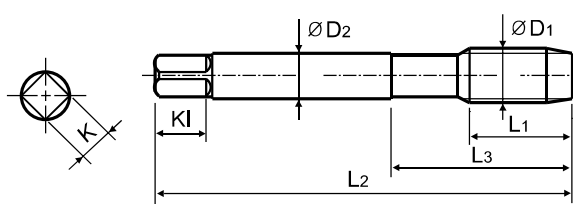
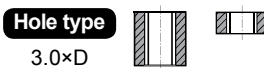
- CARBIDE
- HSS
- THREAD MILLS
- SYNCHRO TAPS
- COMBO TAPS
- YG TAP GENERAL
- YG TAP STEEL
- YG TAP HARDENED
- YG TAP INOX
- YG TAP CAST IRON
- YG TAP ALU
- YG TAP Ti Ni
- YG TAP FORMING
- NUT TAPS
- STI TAPS
- PIPE TAPS
- TECHNICAL DATA

**UNC** Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

► 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** **VG** **HSS-E** **DIN 371/376** **2B** **60°** **B** **Bright**

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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	K1	Z	Ød1
#4	- 40UNC	TC244162	11	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	TC244202	11	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	TC244242	12	56	20	4	3	6	3	2.85
#8	- 32UNC	TC244282	13	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	TC244322	15	70	25	6	4.9	8	3	3.9
#12	- 24UNC	TC244362	16	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	TC244402	17	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	TC244442	20	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	TC244482	22	100	39	9	7	10	3	8
7/16	- 14UNC	TC244522	22	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	TC244562	25	110	44	9	7	10	3	10.75
9/16	- 12UNC	TC244602	26	110	44	11	9	12	3	12.25
5/8	- 11UNC	TC244642	27	110	44	12	9	12	3	13.5
3/4	- 10UNC	TC244702	30	125	50	14	11	14	4	16.5
7/8	- 9UNC	TC244742	32	140	54	18	14.5	17	4	19.5
1	- 8UNC	TC244782	36	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	TC244822	40	180	70	22	18	21	4	25

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

◎ : 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	55				
HB	125	190	250	270	300	180	275	300	350	200	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	200	280	250	350	320	400Rm	1050Rm	550	630	550	630	400	550			
HB	60	100	75	90	130	110	90	100													
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○





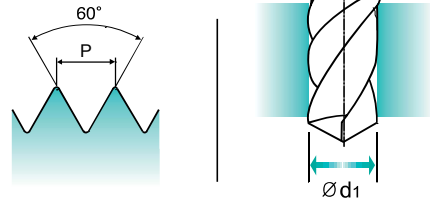
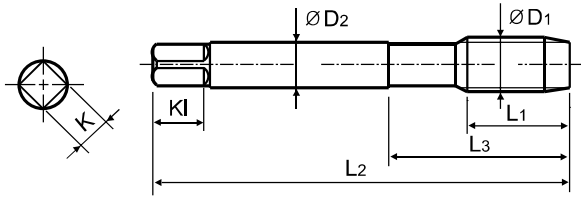
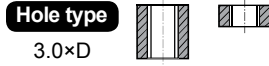
# UNC

**Unified coarse threads**

- Unified Grobgewinde
- UNC
- Unificato passo grosso

► 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: **VG** HSS-E DIN 371/376 2B 60° B TiN

Machine taps  
Maschinengewindebohrer

Recommended Cutting Page : P.189

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		TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
#4	- 40UNC	TD244162	11	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	TD244202	11	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	TD244242	12	56	20	4	3	6	3	2.85
#8	- 32UNC	TD244282	13	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	TD244322	15	70	25	6	4.9	8	3	3.9
#12	- 24UNC	TD244362	16	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	TD244402	17	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	TD244442	20	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	TD244482	22	100	39	9	7	10	3	8
7/16	- 14UNC	TD244522	22	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	TD244562	25	110	44	9	7	10	3	10.75
9/16	- 12UNC	TD244602	26	110	44	11	9	12	3	12.25
5/8	- 11UNC	TD244642	27	110	44	12	9	12	3	13.5
3/4	- 10UNC	TD244702	30	125	50	14	11	14	4	16.5
7/8	- 9UNC	TD244742	32	140	54	18	14.5	17	4	19.5
1	- 8UNC	TD244782	36	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	TD244822	40	180	70	22	18	21	4	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	25	28	32	30	29	32	38	35	35	35	23	10	26	26	25	25	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
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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○





UNF

Unified fine threads

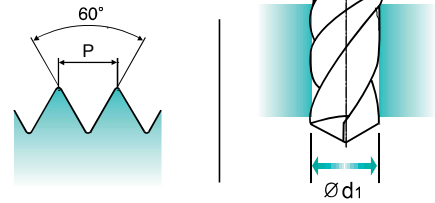
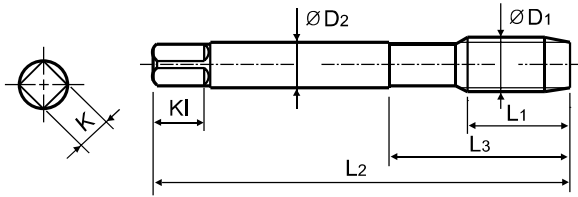
- Unified Feingwinde
- UNF
- Unificato passo fine

► 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.



Hole type 3.0×D



Material groups: **VG** HSS-E DIN 371/374 2B 60° B Bright

Machine taps Maschinengewindebohrer

Recommended Cutting Page : P.189

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	Kl	Z	Ød1
#4	- 48UNF	TC254182	11	56	18	3.5	2.7	6	3	2.4
#5	- 44UNF	TC254222	11	56	18	3.5	2.7	6	3	2.7
#6	- 40UNF	TC254262	12	56	20	4	3	6	3	3
#8	- 36UNF	TC254302	13	63	21	4.5	3.4	6	3	3.5
#10	- 32UNF	TC254342	15	70	25	6	4.9	8	3	4.1
#12	- 28UNF	TC254382	16	80	30	6	4.9	8	3	4.7
1/4	- 28UNF	TC254422	17	80	30	7	5.5	8	3	5.5
5/16	- 24UNF	TC254462	17	90	35	8	6.2	9	3	6.9
3/8	- 24UNF	TC254502	18	100	39	9	7	10	3	8.5
7/16	- 20UNF	TC254542	22	100	40	8	6.2	9	3	9.9
1/2	- 20UNF	TC254582	22	100	40	9	7	10	3	11.5
9/16	- 18UNF	TC254622	22	100	40	11	9	12	3	12.9
5/8	- 18UNF	TC254662	22	100	40	12	9	12	3	14.5
3/4	- 16UNF	TC254722	25	110	44	14	11	14	4	17.5
7/8	- 14UNF	TC254762	26	125	50	18	14.5	17	4	20.5
1	- 12UNF	TC254802	28	140	54	18	14.5	17	4	23.25
1-1/8	- 12UNF	TC254842	30	150	60	22	18	21	4	26.5

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

◎ : 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	
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											○	○	○	○	○	○	○	○	○	○	○



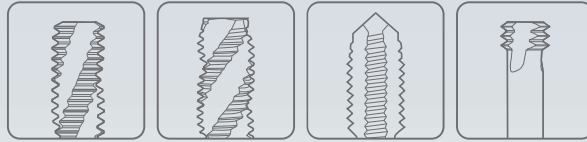


ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min)													
					TQ823	TR823	TC312 TC413 TC174 TC184	TD312 TD413 TD174	TB312	TY312	TB913	TQ863	TR863	TC422 TC263 TC244 TC254	TD422 TD263 TD244	TE422	TY422	
P	1	Non-alloy steel	125															
	2		190	13	15-20	15-20	15-20	20-25	15-20	20-25	15-20	15-20	15-20	15-20	15-20	20-25	20-25	
	3		250	25	12-18	12-18	12-18	18-24	12-18	18-24	12-18	12-18	12-18	12-18	12-18	18-24	18-24	
	4		270	28	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20	
	5		300	32	6-10	6-10	6-10	10-14	6-10	10-14	6-10	6-10	6-10	6-10	6-10	10-14	10-14	
	6	Low alloy steel	180	10	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20	
	7		275	29	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20	
	8		300	32	6-10	6-10	6-10	10-14	6-10	10-14	6-10	6-10	6-10	6-10	6-10	10-14	10-14	
	9		350	38	3-5	3-5	3-5	5-7	3-5	5-7	3-5	3-5	3-5	3-5	3-5	5-7	5-7	
	10	High alloyed steel, and tool steel	200	15	3-5	3-5	3-5	5-7	3-5	5-7	3-5	3-5	3-5	3-5	3-5	5-7	5-7	
	11		325	35														
M	12	Stainless steel	200	15								7-10	7-10	7-10	7-10	10-15	10-15	
	13		240	23								5-8	5-8	5-8	5-8	8-11	8-11	
	14		180	10	4-6	4-6	4-6	6-8	4-6	6-8	4-6	4-6	4-6	4-6	4-6	6-8	6-8	
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															
	22		100															
	23	Aluminum-cast, alloyed	75															
	24		90															
	25		130															
	26		110															
	27	Copper and Copper Alloys (Bronze / Brass)	90															
	28		100															
	29	Non Metallic Materials																
	30																	
S	31	Heat Resistant Super Alloys	200	15	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20	
	32		280	30														
	33		250	25														
	34		350	38														
	35		320	34														
	36	Titanium Alloys	400Rm		10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20	
	37		1050Rm															
H	38	Hardened steel	550	55														
	39		630	60														
	40	Chilled Cast Iron	400	42														
	41	Hardened Cast Iron	550	55														





Global Cutting Tool Leader **YG-1**



# THREADING



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