

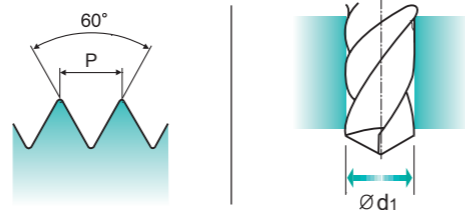
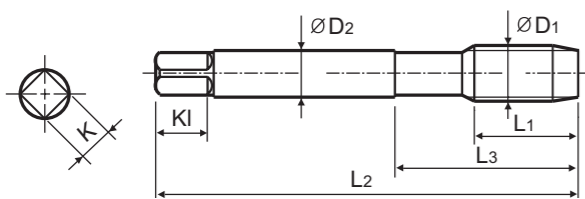
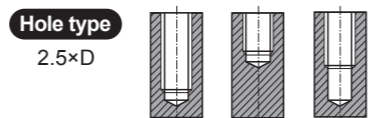
**M ISO metric coarse threads DIN 13**

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

Machine taps  
Maschinengewindebohrer

- 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.



Material groups: **VA** **NW** **HSS-E** **DIN 371/376** **6H** **60°** **C** **R40** **Hardsllick** **p.B233**

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK D215-220, TAPPING CHUCK D221-228, ONE STEP TAPPING CHUCK D211-213

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	Hardsllick	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TCH14136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TCH14156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TCH14196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TCH14176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TCH14496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TCH14206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TCH14226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TCH14246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TCH14266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TCH14286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TCH14316	10	80	30	6	4.9	8	3	5
M7 × 1		TCH14346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TCH14366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TCH14396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TCH14426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TCH14466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TCH14506	18	110	44	9	7	10	3	10.2
M14 × 2		TCH14546	20	110	44	11	9	12	3	12
M16 × 2		TCH14606	20	110	44	12	9	12	3	14
M18 × 2.5		TCH14656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TCH14706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TCH14746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TCH14786	30	160	60	18	14.5	17	4	21
M27 × 3		TCH14866	30	160	60	20	16	19	4	24
M30 × 3.5		TCH14946	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	30	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				
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	38	39	40	41
HB	60	100	75	90	130	110	90	100			15	30	25	38	34	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

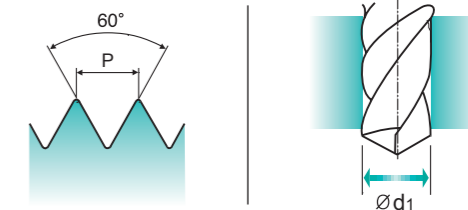
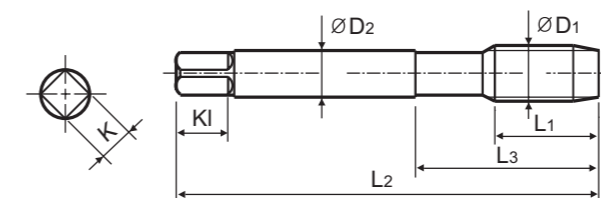
**M ISO metric coarse threads DIN 13**

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

Machine taps  
Maschinengewindebohrer

- 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: **VA** **HSS PM** **DIN 371/376** **6H** **60°** **B** **Vap** **p.B233**

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK D215-220, TAPPING CHUCK D221-228, ONE STEP TAPPING CHUCK D211-213

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		TQ853136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TQ853156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TQ853176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TQ853206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TQ853226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TQ853246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TQ853266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TQ853286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TQ853316	17	80	30	6	4.9	8	3	5
M7 × 1		TQ853346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TQ853366	20	90	35	8	6.2	9	3	6.8
M10 × 1.5		TQ853426	22	100	39	10	8	11	3	8.5
M12 × 1.75		TQ853506	24	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		
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	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				
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	38	39	40	41
HB	60	100	75	90	130	110	90	100			15	30	25	38	34	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎