



Bright TCE02 SERIES
TIN TDE02 SERIES

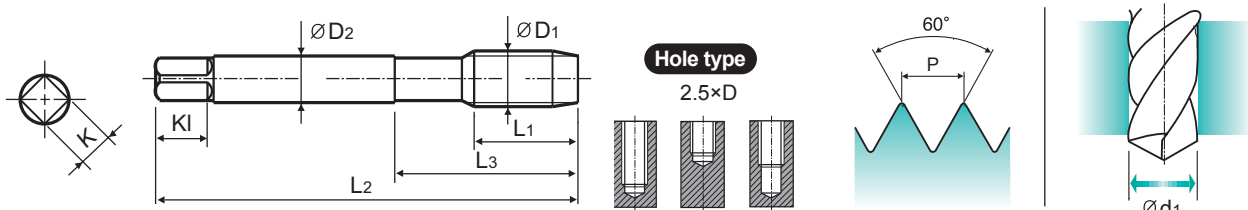
UNF Unified fine threads

- Unified Grobgewinde
- UNF
- Unificato passo fine

Machine taps
Maschinengewindebohrer

► For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

► Für vielfältigen Einsatz, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 3B 60° C R40 Bright TiN p.B124

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

Unit : mm

SIZE	TPI	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Bright	TiN								
ØD1		L1	L2	L3	ØD2	K	KI	Z	Ød1		
#4	48UNF	TCE02182	TDE02182	6	56	18	3.5	2.7	6	3	2.4
#5	44UNF	TCE02222	TDE02222	7	56	18	3.5	2.7	6	3	2.7
#6	40UNF	TCE02262	TDE02262	7	56	20	4	3	6	3	3
#8	36UNF	TCE02302	TDE02302	8	63	21	4.5	3.4	6	3	3.5
#10	32UNF	TCE02342	TDE02342	10	70	25	6	4.9	8	3	4.1
#12	28UNF	TCE02382	TDE02382	10	80	30	6	4.9	8	3	4.7
1/4	28UNF	TCE02422	TDE02422	10	80	30	7	5.5	8	3	5.5
5/16	24UNF	TCE02462	TDE02462	10	90	35	8	6.2	9	3	6.9
3/8	24UNF	TCE02502	TDE02502	10	100	39	9	7	10	3	8.5
7/16	20UNF	TCE02542	TDE02542	13	100	40	8	6.2	9	3	9.9
1/2	20UNF	TCE02582	TDE02582	13	100	40	9	7	10	3	11.5
9/16	18UNF	TCE02622	TDE02622	15	100	40	11	9	12	3	12.9
5/8	18UNF	TCE02662	TDE02662	15	100	40	12	9	12	3	14.5
3/4	16UNF	TCE02722	TDE02722	17	110	44	14	11	14	4	17.5
7/8	14UNF	TCE02762	TDE02762	17	125	50	18	14.5	17	4	20.5
1	12UNF	TCE02802	TDE02802	20	140	54	20	16	19	4	23.25

►DIN 371(#4~3/8) and DIN 374(7/16~1)
* The other coating(TiCN or TiAlN) or Surface Treatment(Steam Homo) is available on your request.

© : 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	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



Vap TB814 SERIES
Bright TC814 SERIES
TiN TD814 SERIES

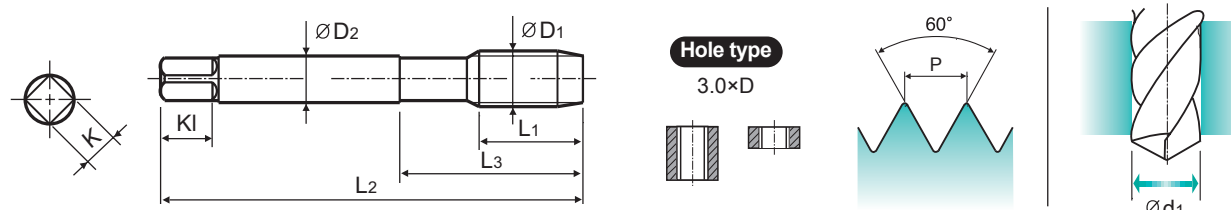
M ISO Metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

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► Für vielfältigen Einsatz, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6H 60° B Vap Bright TiN p.B125

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
		Vap	Bright	TiN								
ØD1	P	L1	L2	L3	ØD2	K	KI	Z	Ød1			
M2 × 0.4	TB814136	TC814136	TD814136	8	45	13	2.8	2.1	5	3	1.6	
M2.2 × 0.45	TB814156	TC814156	TD814156	8	45	13	2.8	2.1	5	3	1.75	
M2.3 × 0.4	TB814196	TC814196	TD814196	8	45	13	2.8	2.1	5	3	1.9	
M2.5 × 0.45	TB814176	TC814176	TD814176	9	50	15	2.8	2.1	5	3	2.05	
M2.6 × 0.45	TB814496	TC814496	TD814496	9	50	15	2.8	2.1	5	3	2.1	
M3 × 0.5	TB814206	TC814206	TD814206	11	56	18	3.5	2.7	6	3	2.5	
M3.5 × 0.6	TB814226	TC814226	TD814226	12	56	20	4	3	6	3	2.9	
M4 × 0.7	TB814246	TC814246	TD814246	13	63	21	4.5	3.4	6	3	3.3	
M4.5 × 0.75	TB814266	TC814266	TD814266	14	70	25	6	4.9	8	3	3.7	
M5 × 0.8	TB814286	TC814286	TD814286	15	70	25	6	4.9	8	3	4.2	
M6 × 1.0	TB814316	TC814316	TD814316	17	80	30	6	4.9	8	3	5	
M7 × 1.0	TB814346	TC814346	TD814346	17	80	30	7	5.5	8	3	6	
M8 × 1.25	TB814366	TC814366	TD814366	20	90	35	8	6.2	9	3	6.8	
M9 × 1.25	TB814396	TC814396	TD814396	20	90	35	9	7	10	3	7.8	
M10 × 1.5	TB814426	TC814426	TD814426	22	100	39	10	8	11	3	8.5	
M11 × 1.5	TB814466	TC814466	TD814466	22	100	40	8	6.2	9	3	9.5	
M12 × 1.75	TB814506	TC814506	TD814506	24	110	44	9	7	10	3	10.2	
M14 × 2.0	TB814546	TC814546	TD814546	26	110	44	11	9	12	3	12	
M16 × 2.0	TB814606	TC814606	TD814606	27	110	44	12	9	12	3	14	
M18 × 2.5	TB814656	TC814656	TD814656	30	125	50	14	11	14	4	15.5	
M20 × 2.5	TB814706	TC814706	TD814706	32	140	54	16	12	15	4	17.5	
M22 × 2.5	TB814746	TC814746	TD814746	32	140	54	18	14.5	17	4	19.5	

►DIN 371(M2~M10) and DIN 376(M11~M52)
* The other coating(TiCN or TiAlN) is available on your request.

► NEXT PAGE

© : 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	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○