



Leading Through Innovation



HSS-E & HSS-PM

COMBO TAP

COMBO GEWINDEBOHRER

- For Multi Purpose Tapping
- Für Mehrbereichs-Gewindebohren

SELECTION GUIDE



HSS-E COMBO TAP

HSS-E TAPS for Multi-Purpose

Please visit globalyg1.com/mat for material search. Recommended cutting conditions : p.B130

Table with columns: ISO, VDI 3323, Material Description, Composition / Structure / Heat Treatment, HB, HRC, and a grid of suitability indicators (circles) for various materials and hole types.

Table with columns: HOLE TYPE, TOOL MATERIAL, CHAMFER LEAD ACC. TO DIN2197, FLUTE TYPE, SPIRAL FLUTE ANGLE, and a grid of model numbers (e.g., TC804, TD804, TB804) for different hole types and materials.

Table with columns: SURFACE TREATMENT (Bright, TIN, VAP) and MODEL, showing images of different tap models.

Large table with columns: HOLE TYPE, TOOL MATERIAL, CHAMFER LEAD ACC. TO DIN2197, FLUTE TYPE, SPIRAL FLUTE ANGLE, and a grid of model numbers (e.g., TC804, TD804, TB804) for different hole types and materials, including a visual grid of tap models.

SELECTION GUIDE



HSS-E COMBO TAP

HSS-E TAPS for Multi-Purpose

Please visit globalyg1.com/mat for material search. Recommended cutting conditions : p.B130

Table with columns: ISO, VDI 3323, Material Description, Composition / Structure / Heat Treatment, HB, HRC, and a grid of suitability circles for various hole types and materials.

Table with columns: HOLE TYPE, TOOL MATERIAL (HSS-E), CHAMFER LEAD ACC. TO DIN2197, FLUTE TYPE, SPIRAL FLUTE ANGLE, and a grid of model numbers (TC, TD, TB, TCJ, TDJ, TBJ) for different series (M, MF, UNC, UNF, BSW, G(BSP), EG-M, EG-UNC, EG-UNF).

Table showing SURFACE TREATMENT (Bright, TIN, VAP) and MODEL images for various tap types.

Max. 3.0xD Through Hole

Table with columns: HSS-E, and a grid of model numbers (TCJ, TDJ, TBJ, TC814-IC) for different series (B, B, B, B, B, B, B, B, B, B).



Table showing suitability circles for various hole types and materials for the HSS-E taps.

COMBO TAP SETS

Combo Spiral Flute Taps

TB804SET5 TC804SET7

VAP Bright

5pcs 7pcs



Combo Spiral Flute Taps + Gold-P Drill

TD804SET7-GLP195

TIN

14pcs



p.B129

THREAD MILL

SYNCHRO TAP

PRIME TAP

COMBO TAP

YG TAP STEEL

YG TAP CHIP BREAKER

YG TAP INOX

YG TAP CAST IRON

YG TAP HARDENED STEEL

YG TAP Ti Ni

YG TAP ALU

YG TAP FORMING

YG TAP GENERAL

PIPE TAP

STI TAP

NUT TAP

TECHNICAL DATA



Vap **TB804** SERIES
Bright **TC804** SERIES
TiN **TD804** SERIES

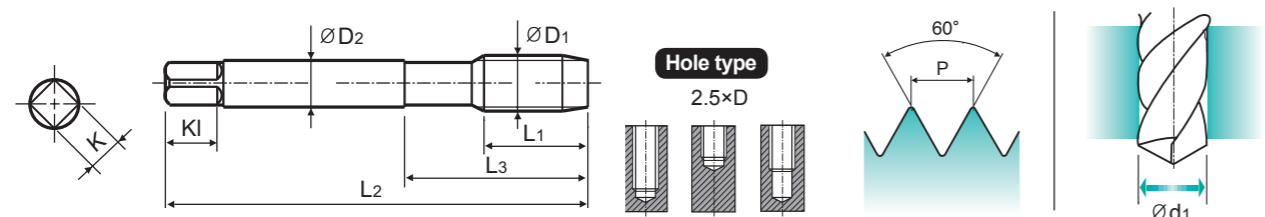
M ISO Metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

► 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6H 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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		TB804136	TC804136	TD804136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TB804156	TC804156	TD804156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TB804196	TC804196	TD804196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TB804176	TC804176	TD804176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TB804496	TC804496	TD804496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TB804206	TC804206	TD804206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TB804226	TC804226	TD804226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TB804246	TC804246	TD804246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TB804266	TC804266	TD804266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TB804286	TC804286	TD804286	8	70	25	6	4.9	8	3	4.2
M6 × 1.0		TB804316	TC804316	TD804316	10	80	30	6	4.9	8	3	5
M7 × 1.0		TB804346	TC804346	TD804346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TB804366	TC804366	TD804366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TB804396	TC804396	TD804396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TB804426	TC804426	TD804426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TB804466	TC804466	TD804466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TB804506	TC804506	TD804506	18	110	44	9	7	10	3	10.2
M14 × 2.0		TB804546	TC804546	TD804546	20	110	44	11	9	12	3	12
M16 × 2.0		TB804606	TC804606	TD804606	20	110	44	12	9	12	3	14
M18 × 2.5		TB804656	TC804656	TD804656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TB804706	TC804706	TD804706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TB804746	TC804746	TD804746	25	140	54	18	14.5	17	4	19.5

► DIN 371 (M2~M10) and DIN 376 (M11~M52) ► NEXT PAGE
► The other coating (TiCN or TiAlN) 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			
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	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	15	30	25	38	34	15	30	25	38	34	55	60	42	55	55	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



Vap **TB804** SERIES
Bright **TC804** SERIES
TiN **TD804** SERIES

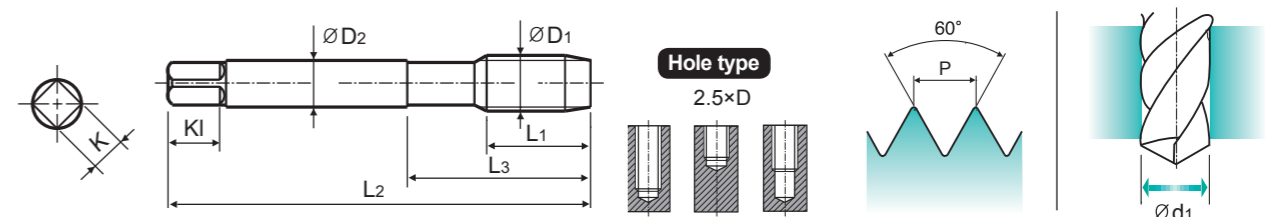
M ISO Metric coarse threads DIN 13

- 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6H 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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			
M24 × 3.0		TB804786	TC804786	TD804786	30	160	60	18	14.5	17	4	21
M27 × 3.0		TB804866	TC804866	TD804866	30	160	60	20	16	19	4	24
M30 × 3.5		TB804946	TC804946	TD804946	35	180	70	22	18	21	4	26.5
M33 × 3.5		-	TC804A46	TD804A46	35	180	70	25	20	23	4	29.5
M36 × 4.0		-	TC804B36	TD804B36	40	200	80	28	22	25	4	32.0
M39 × 4.0		-	TC804C06	TD804C06	40	200	80	32	24	27	4	35.0
M42 × 4.5		-	TC804C86	TD804C86	45	200	85	32	24	27	4	37.5
M45 × 4.5		-	TC804D56	TD804D56	45	220	85	36	29	32	4	40.5
M48 × 5.0		-	TC804E26	TD804E26	50	250	90	36	29	32	4	43.0
M52 × 5.0		-	TC804F36	TD804F36	50	250	90	40	32	35	4	47.0

► DIN 371 (M2~M10) and DIN 376 (M11~M52)
► The other coating (TiCN or TiAlN) 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			
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	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	15	30	25	38	34	15	30	25	38	34	55	60	42	55	55	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



Vap **TBE05** SERIES
Bright **TCE05** SERIES
TiN **TDE05** SERIES

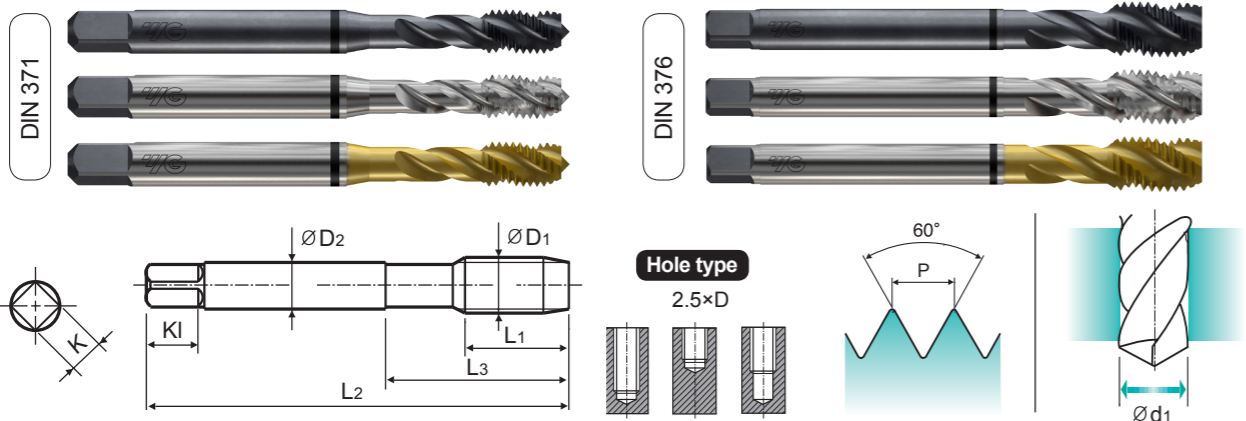
M ISO Metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

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Material groups: **MU** HSS-E DIN 371/376 4H 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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	Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TBE05136	TCE05136	TDE05136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBE05156	TCE05156	TDE05156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TBE05196	TCE05196	TDE05196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBE05176	TCE05176	TDE05176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TBE05496	TCE05496	TDE05496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBE05206	TCE05206	TDE05206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBE05226	TCE05226	TDE05226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TBE05246	TCE05246	TDE05246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBE05266	TCE05266	TDE05266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBE05286	TCE05286	TDE05286	8	70	25	6	4.9	8	3	4.2
M6 × 1.0		TBE05316	TCE05316	TDE05316	10	80	30	6	4.9	8	3	5
M7 × 1.0		TBE05346	TCE05346	TDE05346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TBE05366	TCE05366	TDE05366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBE05396	TCE05396	TDE05396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TBE05426	TCE05426	TDE05426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TBE05466	TCE05466	TDE05466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBE05506	TCE05506	TDE05506	18	110	44	9	7	10	3	10.2
M14 × 2.0		TBE05546	TCE05546	TDE05546	20	110	44	11	9	12	3	12
M16 × 2.0		TBE05606	TCE05606	TDE05606	20	110	44	12	9	12	3	14
M18 × 2.5		TBE05656	TCE05656	TDE05656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TBE05706	TCE05706	TDE05706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TBE05746	TCE05746	TDE05746	25	140	54	18	14.5	17	4	19.5
M24 × 3.0		TBE05786	TCE05786	TDE05786	30	160	60	18	14.5	17	4	21
M27 × 3.0		TBE05866	TCE05866	TDE05866	30	160	60	20	16	19	4	24
M30 × 3.5		TBE05946	TCE05946	TDE05946	35	180	70	22	18	21	4	26.5

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
► The other coating (TiCN or TiAlN) is available on your request.

◎ : 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	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 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	38	39	40	41
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



Vap **TBE06** SERIES
Bright **TCE06** SERIES
TiN **TDE06** SERIES

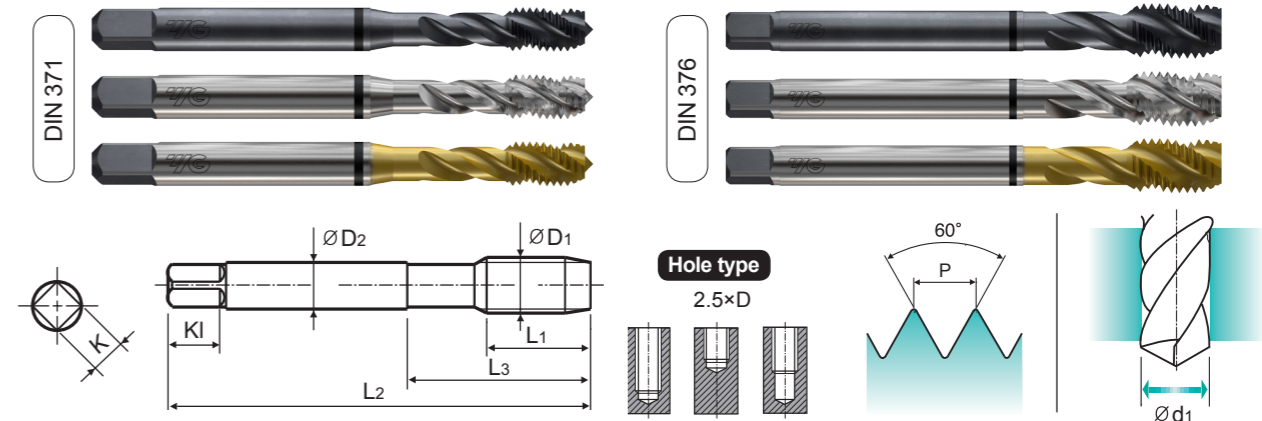
M ISO Metric coarse threads DIN 13

- Metrisches ISO-Gewinde DIN 13
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Machine taps
Maschinengewindebohrer

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Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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	Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TBE06136	TCE06136	TDE06136	8	45	13	2.8	2.1	5	3	1.7
M2.2 × 0.45		TBE06156	TCE06156	TDE06156	8	45	13	2.8	2.1	5	3	1.85
M2.3 × 0.4		TBE06196	TCE06196	TDE06196	8	45	13	2.8	2.1	5	3	2
M2.5 × 0.45		TBE06176	TCE06176	TDE06176	9	50	15	2.8	2.1	5	3	2.15
M2.6 × 0.45		TBE06496	TCE06496	TDE06496	9	50	15	2.8	2.1	5	3	2.2
M3 × 0.5		TBE06206	TCE06206	TDE06206	6	56	18	3.5	2.7	6	3	2.6
M3.5 × 0.6		TBE06226	TCE06226	TDE06226	7	56	20	4	3	6	3	3
M4 × 0.7		TBE06246	TCE06246	TDE06246	7	63	21	4.5	3.4	6	3	3.4
M4.5 × 0.75		TBE06266	TCE06266	TDE06266	8	70	25	6	4.9	8	3	3.8
M5 × 0.8		TBE06286	TCE06286	TDE06286	8	70	25	6	4.9	8	3	4.3
M6 × 1.0		TBE06316	TCE06316	TDE06316	10	80	30	6	4.9	8	3	5.1
M7 × 1.0		TBE06346	TCE06346	TDE06346	10	80	30	7	5.5	8	3	6.1
M8 × 1.25		TBE06366	TCE06366	TDE06366	13	90	35	8	6.2	9	3	6.9
M9 × 1.25		TBE06396	TCE06396	TDE06396	13	90	35	9	7	10	3	7.9
M10 × 1.5		TBE06426	TCE06426	TDE06426	15	100	39	10	8	11	3	8.6
M11 × 1.5		TBE06466	TCE06466	TDE06466	17	100	40	8	6.2	9	3	9.6
M12 × 1.75		TBE06506	TCE06506	TDE06506	18	110	44	9	7	10	3	10.3
M14 × 2.0		TBE06546	TCE06546	TDE06546	20	110	44	11	9	12	3	12.1
M16 × 2.0		TBE06606	TCE06606	TDE06606	20	110	44	12	9	12	3	14.1
M18 × 2.5		TBE06656	TCE06656	TDE06656	25	125	50	14	11	14	4	15.6
M20 × 2.5		TBE06706	TCE06706	TDE06706	25	140	54	16	12	15	4	17.6
M22 × 2.5		TBE06746	TCE06746	TDE06746	25	140	54	18	14.5	17	4	19.6
M24 × 3.0		TBE06786	TCE06786	TDE06786	30	160	60	18	14.5	17	4	21.1
M27 × 3.0		TBE06866	TCE06866	TDE06866	30	160	60	20	16	19	4	24.1
M30 × 3.5		TBE06946	TCE06946	TDE06946	35	180	70	22	18	21	4	26.6

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
► The other coating (TiCN or TiAlN) is available on your request.

◎ : 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	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 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	38	39	40	41
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													

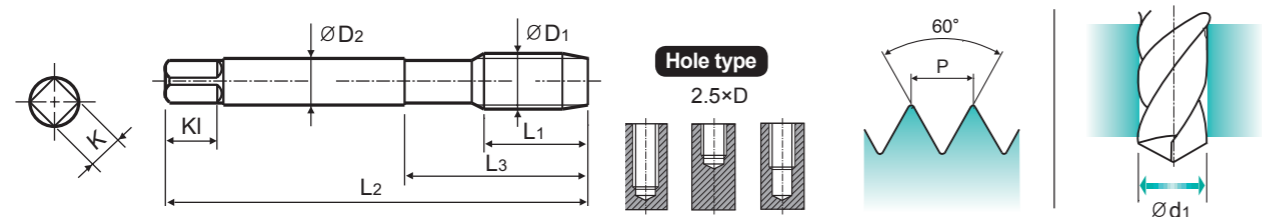
M ISO Metric coarse threads DIN 13

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6G 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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	Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TBE07136	TCE07136	TDE07136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBE07156	TCE07156	TDE07156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TBE07196	TCE07196	TDE07196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBE07176	TCE07176	TDE07176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TBE07496	TCE07496	TDE07496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBE07206	TCE07206	TDE07206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBE07226	TCE07226	TDE07226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TBE07246	TCE07246	TDE07246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBE07266	TCE07266	TDE07266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBE07286	TCE07286	TDE07286	8	70	25	6	4.9	8	3	4.2
M6 × 1.0		TBE07316	TCE07316	TDE07316	10	80	30	6	4.9	8	3	5
M7 × 1.0		TBE07346	TCE07346	TDE07346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TBE07366	TCE07366	TDE07366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBE07396	TCE07396	TDE07396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TBE07426	TCE07426	TDE07426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TBE07466	TCE07466	TDE07466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBE07506	TCE07506	TDE07506	18	110	44	9	7	10	3	10.2
M14 × 2.0		TBE07546	TCE07546	TDE07546	20	110	44	11	9	12	3	12
M16 × 2.0		TBE07606	TCE07606	TDE07606	20	110	44	12	9	12	3	14
M18 × 2.5		TBE07656	TCE07656	TDE07656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TBE07706	TCE07706	TDE07706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TBE07746	TCE07746	TDE07746	25	140	54	18	14.5	17	4	19.5
M24 × 3.0		TBE07786	TCE07786	TDE07786	30	160	60	18	14.5	17	4	21
M27 × 3.0		TBE07866	TCE07866	TDE07866	30	160	60	20	16	19	4	24
M30 × 3.5		TBE07946	TCE07946	TDE07946	35	180	70	22	18	21	4	26.5

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
► The other coating (TiCN or TiAlN) 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	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				
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	15	30	25	38	34	55	60	42	42	55	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													

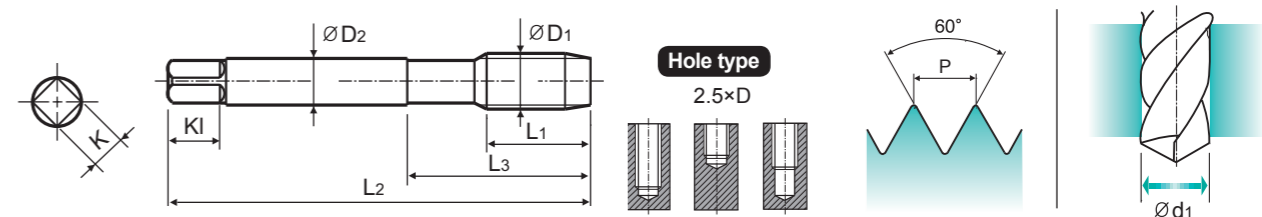
M ISO Metric coarse threads DIN 13

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 7G 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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	Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		TBE08136	TCE08136	TDE08136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBE08156	TCE08156	TDE08156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TBE08196	TCE08196	TDE08196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBE08176	TCE08176	TDE08176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TBE08496	TCE08496	TDE08496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBE08206	TCE08206	TDE08206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBE08226	TCE08226	TDE08226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TBE08246	TCE08246	TDE08246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBE08266	TCE08266	TDE08266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBE08286	TCE08286	TDE08286	8	70	25	6	4.9	8	3	4.2
M6 × 1.0		TBE08316	TCE08316	TDE08316	10	80	30	6	4.9	8	3	5
M7 × 1.0		TBE08346	TCE08346	TDE08346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TBE08366	TCE08366	TDE08366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBE08396	TCE08396	TDE08396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TBE08426	TCE08426	TDE08426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TBE08466	TCE08466	TDE08466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBE08506	TCE08506	TDE08506	18	110	44	9	7	10	3	10.2
M14 × 2.0		TBE08546	TCE08546	TDE08546	20	110	44	11	9	12	3	12
M16 × 2.0		TBE08606	TCE08606	TDE08606	20	110	44	12	9	12	3	14
M18 × 2.5		TBE08656	TCE08656	TDE08656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TBE08706	TCE08706	TDE08706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TBE08746	TCE08746	TDE08746	25	140	54	18	14.5	17	4	19.5
M24 × 3.0		TBE08786	TCE08786	TDE08786	30	160	60	18	14.5	17	4	21
M27 × 3.0		TBE08866	TCE08866	TDE08866	30	160	60	20	16	19	4	24
M30 × 3.5		TBE08946	TCE08946	TDE08946	35	180	70	22	18	21	4	26.5

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
► The other coating (TiCN or TiAlN) 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	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				
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	15	30	25	38	34	55	60	42	42	55	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



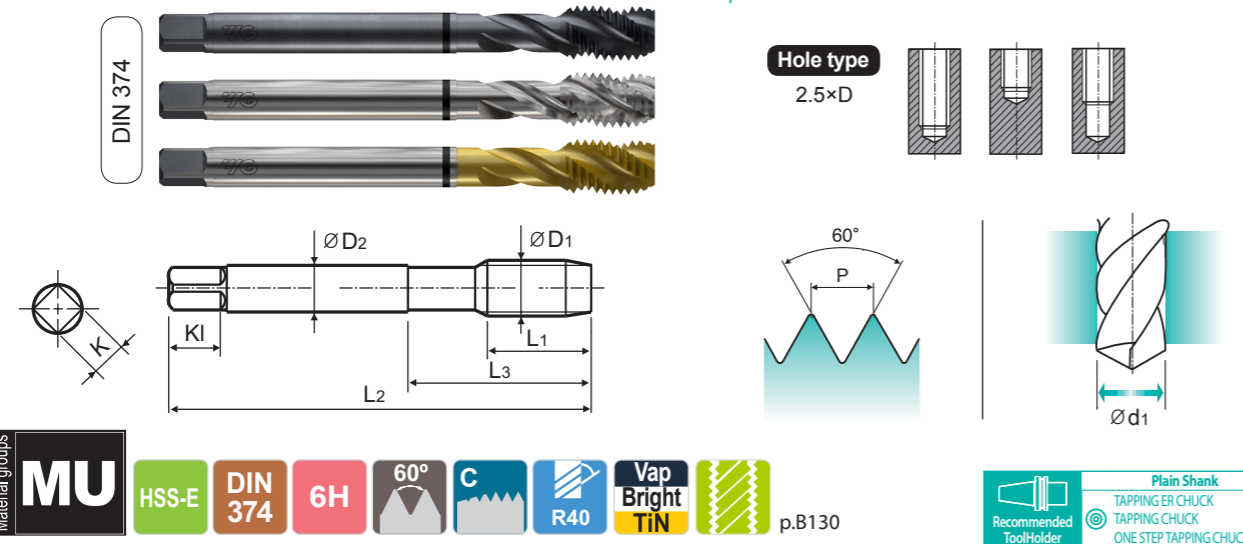
Vap **TB844** SERIES
Bright **TC844** SERIES
TiN **TD844** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



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	Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M4 × 0.5		TB844256	TC844256	TD844256	5	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TB844296	TC844296	TD844296	5	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TB844326	TC844326	TD844326	8	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TB844336	TC844336	TD844336	5	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TB844356	TC844356	TD844356	10	80	30	5.5	4.3	7	3	6.2
M8 × 1.0		TB844376	TC844376	TD844376	10	90	36	6	4.9	8	3	7
M8 × 0.75		TB844386	TC844386	TD844386	8	80	30	6	4.9	8	3	7.2
M10 × 1.25		TB844436	TC844436	TD844436	16	100	40	7	5.5	8	3	8.8
M10 × 1.0		TB844446	TC844446	TD844446	10	90	36	7	5.5	8	3	9
M10 × 0.75		TB844456	TC844456	TD844456	10	90	36	7	5.5	8	3	9.2
M12 × 1.5		TB844516	TC844516	TD844516	15	100	40	9	7	10	3	10.5
M12 × 1.25		TB844526	TC844526	TD844526	15	100	40	9	7	10	3	10.8
M12 × 1.0		TB844536	TC844536	TD844536	11	100	40	9	7	10	3	11
M14 × 1.5		TB844556	TC844556	TD844556	15	100	40	11	9	12	3	12.5
M14 × 1.25		TB844566	TC844566	TD844566	15	100	40	11	9	12	3	12.8
M14 × 1.0		TB844576	TC844576	TD844576	11	100	40	11	9	12	3	13
M16 × 1.5		TB844616	TC844616	TD844616	15	100	40	12	9	12	3	14.5
M16 × 1.0		TB844626	TC844626	TD844626	12	100	40	12	9	12	3	15
M18 × 1.5		TB844676	TC844676	TD844676	17	110	44	14	11	14	4	16.5
M18 × 1.0		TB844686	TC844686	TD844686	13	110	44	14	11	14	4	17
M20 × 1.5		TB844726	TC844726	TD844726	17	125	50	16	12	15	4	18.5
M20 × 1.0		TB844736	TC844736	TD844736	14	125	50	16	12	15	4	19
M22 × 1.5		TB844766	TC844766	TD844766	17	125	50	18	14.5	17	4	20.5
M22 × 1.0		TB844776	TC844776	TD844776	14	125	50	18	14.5	17	4	21

► 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	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	
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	15	30	25	38	34	55	60	42	42	55	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



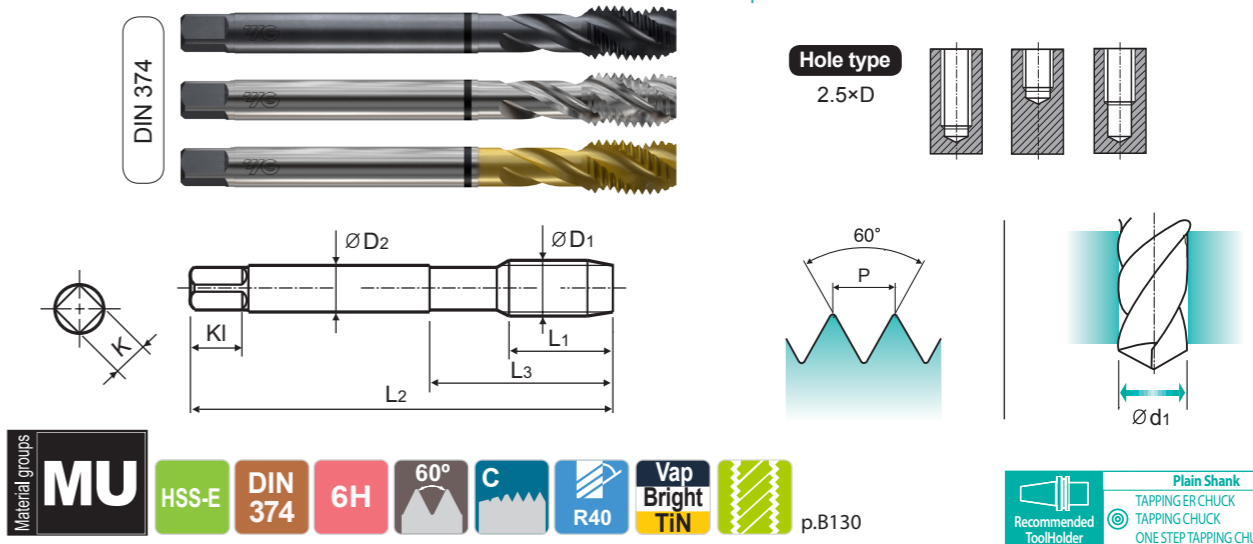
Vap **TB844** SERIES
Bright **TC844** SERIES
TiN **TD844** SERIES

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

Machine taps
Maschinengewindebohrer

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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	Bright	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M24 × 2.0		TB844796	TC844796	TD844796	20	140	54	18	14.5	17	4	22
M24 × 1.5		TB844806	TC844806	TD844806	20	140	54	18	14.5	17	4	22.5
M26 × 1.5		TB844856	TC844856	TD844856	20	140	54	18	14.5	17	4	24.5
M27 × 2.0		TB844876	TC844876	TD844876	20	140	54	20	16	19	4	25
M27 × 1.5		TB844886	TC844886	TD844886	20	140	54	20	16	19	4	25.5
M28 × 1.5		TB844916	TC844916	TD844916	20	140	54	20	16	19	4	26.5
M30 × 2.0		TB844966	TC844966	TD844966	22	150	57	22	18	21	4	28
M30 × 1.5		TB844976	TC844976	TD844976	22	150	57	22	18	21	4	28.5
M32 × 2.0		-	TC844A16	TD844A16	22	150	57	22	18	21	4	30.0
M32 × 1.5		-	TC844A26	TD844A26	22	150	57	22	18	21	4	30.5
M33 × 2.0		-	TC844A66	TD844A66	24	160	60	25	20	23	4	31.0
M33 × 1.5		-	TC844A76	TD844A76	24	160	60	25	20	23	4	31.5
M34 × 1.5		-	TC844A96	TD844A96	24	170	70	28	22	25	4	32.5
M35 × 1.5		-	TC844B16	TD844B16	24	170	70	28	22	25	4	33.5
M36 × 3.0		-	TC844B46	TD844B46	30	200	80	28	22	25	4	33.0
M36 × 2.0		-	TC844B56	TD844B56	24	170	70	28	22	25	4	34.0
M36 × 1.5		-	TC844B66	TD844B66	24	170	70	28	22	25	4	34.5
M38 × 1.5		-	TC844B86	TD844B86	24	170	70	28	22	25	4	36.5
M39 × 1.5		-	TC844C36	TD844C36	25	170	70	32	24	27	4	37.5
M40 × 1.5		-	TC844C66	TD844C66	25	170	70	32	24	27	4	38.5
M42 × 3.0		-	TC844D06	TD844D06	30	200	80	32	24	27	4	39.0
M42 × 2.0		-	TC844D16	TD844D16	25	170	70	32	24	27	4	40.0
M42 × 1.5		-	TC844D26	TD844D26	25	170	70	32	24	27	4	40.5
M45 × 1.5		-	TC844D96	TD844D96	26	180	80	36	29	32	4	43.5

► 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	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	
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	15	30	25	38	34	55	60	42	42	55	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



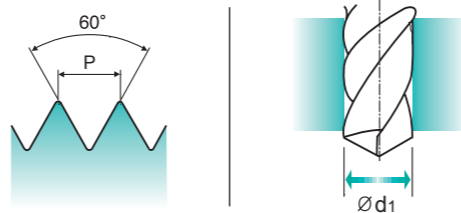
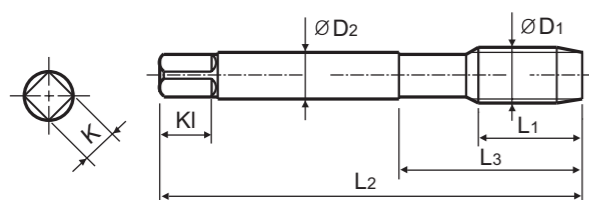
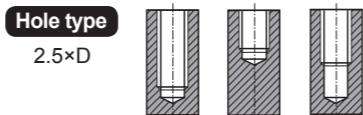
Vap **TB844** SERIES
Bright **TC844** SERIES
TiN **TD844** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups **MU** HSS-E DIN 374 6H 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

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								
M48 x 3.0		-	TC844E56	TD844E56	36	225	90	36	29	32	4	45.0
M48 x 2.0		-	TC844E66	TD844E66	28	190	80	36	29	32	4	46.0
M48 x 1.5		-	TC844E76	TD844E76	28	190	80	36	29	32	4	46.5
M50 x 1.5		-	TC844F16	TD844F16	28	190	80	36	29	32	4	48.5
M52 x 3.0		-	TC844F56	TD844F56	36	225	90	40	32	35	4	49.0
M52 x 2.0		-	TC844F66	TD844F66	28	190	80	40	32	35	4	50.0
M52 x 1.5		-	TC844F76	TD844F76	28	190	80	40	32	35	4	50.5

► The other coating(TiCN or TiAlN) 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	
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	38	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						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		◎				◎	◎	◎													



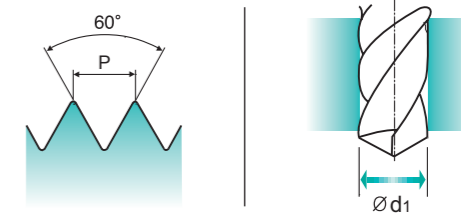
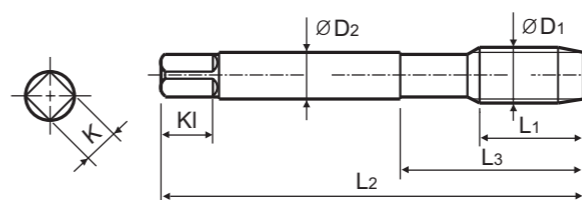
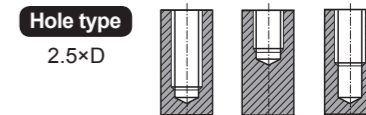
Bright **TCE09** SERIES
TiN **TDE09** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups **MU** HSS-E DIN 374 6G 60° C R40 TiN Bright p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

Unit : mm

SIZE	Pitch	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Bright	TiN								
M4 x 0.5		TCE09256	TDE09256	5	63	21	2.8	2.1	5	3	3.5
M5 x 0.5		TCE09296	TDE09296	5	70	25	3.5	2.7	6	3	4.5
M6 x 0.75		TCE09326	TDE09326	8	80	30	4.5	3.4	6	3	5.2
M6 x 0.5		TCE09336	TDE09336	5	80	30	4.5	3.4	6	3	5.5
M7 x 0.75		TCE09356	TDE09356	10	80	30	5.5	4.3	7	3	6.2
M8 x 1.0		TCE09376	TDE09376	10	90	36	6	4.9	8	3	7
M8 x 0.75		TCE09386	TDE09386	8	80	30	6	4.9	8	3	7.2
M10 x 1.25		TCE09436	TDE09436	16	100	40	7	5.5	8	3	8.8
M10 x 1.0		TCE09446	TDE09446	10	90	36	7	5.5	8	3	9
M10 x 0.75		TCE09456	TDE09456	10	90	36	7	5.5	8	3	9.2
M12 x 1.5		TCE09516	TDE09516	15	100	40	9	7	10	3	10.5
M12 x 1.25		TCE09526	TDE09526	15	100	40	9	7	10	3	10.8
M12 x 1.0		TCE09536	TDE09536	11	100	40	9	7	10	3	11
M14 x 1.5		TCE09556	TDE09556	15	100	40	11	9	12	3	12.5
M14 x 1.25		TCE09566	TDE09566	15	100	40	11	9	12	3	12.8
M14 x 1.0		TCE09576	TDE09576	11	100	40	11	9	12	3	13
M16 x 1.5		TCE09616	TDE09616	15	100	40	12	9	12	3	14.5
M16 x 1.0		TCE09626	TDE09626	12	100	40	12	9	12	3	15
M18 x 1.5		TCE09676	TDE09676	17	110	44	14	11	14	4	16.5
M18 x 1.0		TCE09686	TDE09686	13	110	44	14	11	14	4	17
M20 x 1.5		TCE09726	TDE09726	17	125	50	16	12	15	4	18.5
M20 x 1.0		TCE09736	TDE09736	14	125	50	16	12	15	4	19
M22 x 1.5		TCE09766	TDE09766	17	125	50	18	14.5	17	4	20.5
M22 x 1.0		TCE09776	TDE09776	14	125	50	18	14.5	17	4	21

► The other coating(TiCN or TiAlN) or Surface Treatment(Steam Homo) 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	
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	38	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						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		◎				◎	◎	◎													



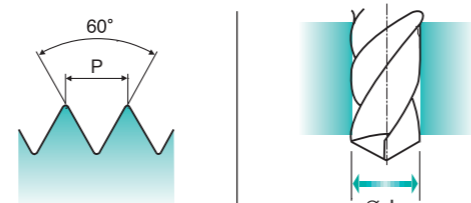
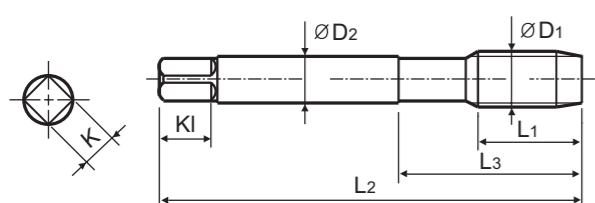
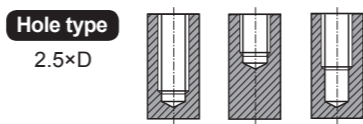
Bright **TCE09** SERIES
TIN **TDE09** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E **DIN 374** **6G** **60°** **C** **R40** **TiN** **Bright** p.B130

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

Unit : mm

SIZE	Pitch	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD ₁	P	Bright	TiN	L ₁	L ₂	L ₃	ØD ₂	K	KI	Z	Ød ₁
M24 × 2.0		TCE09796	TDE09796	20	140	54	18	14.5	17	4	22
M24 × 1.5		TCE09806	TDE09806	20	140	54	18	14.5	17	4	22.5
M26 × 1.5		TCE09856	TDE09856	20	140	54	18	14.5	17	4	24.5
M27 × 2.0		TCE09876	TDE09876	20	140	54	20	16	19	4	25
M27 × 1.5		TCE09886	TDE09886	20	140	54	20	16	19	4	25.5
M28 × 1.5		TCE09916	TDE09916	20	140	54	20	16	19	4	26.5
M30 × 2.0		TCE09966	TDE09966	22	150	57	22	18	21	4	28
M30 × 1.5		TCE09976	TDE09976	22	150	57	22	18	21	4	28.5

► The other coating(TiCN or TiAlN) or Surface Treatment(Steam Homo) is available on your request.

◎ : 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	35	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 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																					
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



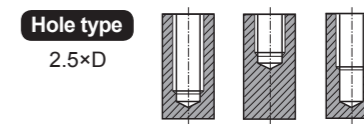
TC804-IC SERIES

M ISO Metric coarse threads DIN 13
 ● Metrisches ISO-Gewinde DIN 13
 ○ ISO MÉTRIQUE DIN13
 ○ ISO Metrico passo grosso DIN 13

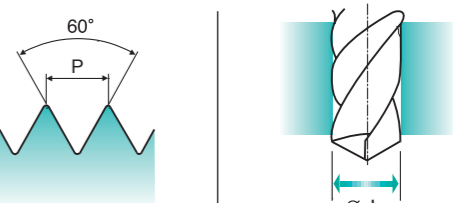
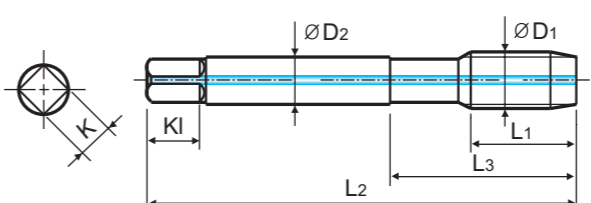
Machine taps
Maschinengewindebohrer

► 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



with Internal Coolant



Material groups: **MU** HSS-E **DIN 371/376** **6H** **60°** **C** **R40** **Bright** p.B130

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD ₁	P	Bright	L ₁	L ₂	L ₃	ØD ₂	K	KI	Z	Ød ₁
M6 × 1.0		TC804316IC	10	80	30	6	4.9	8	3	5
M8 × 1.25		TC804366IC	13	90	35	8	6.2	9	3	6.8
M10 × 1.5		TC804426IC	15	100	39	10	8	11	3	8.5
M12 × 1.75		TC804506IC	18	110	44	9	7	10	3	10.2
M14 × 2.0		TC804546IC	20	110	44	11	9	12	3	12
M16 × 2.0		TC804606IC	20	110	44	12	9	12	3	14
M18 × 2.5		TC804656IC	25	125	50	14	11	14	4	15.5
M20 × 2.5		TC804706IC	25	140	54	16	12	15	4	17.5

► DIN 371(M6~M10) and DIN 376(M12~M20)

► Coating(TiN, TiCN or TiAlN) or Surface Treatment(Steam Homo) is available on your request.

◎ : 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	35	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 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																					
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													

YG COMBO TAP

TC807 SERIES

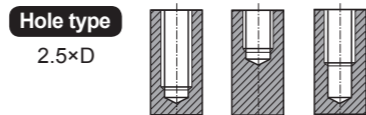
M ISO Metric coarse threads DIN 13

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

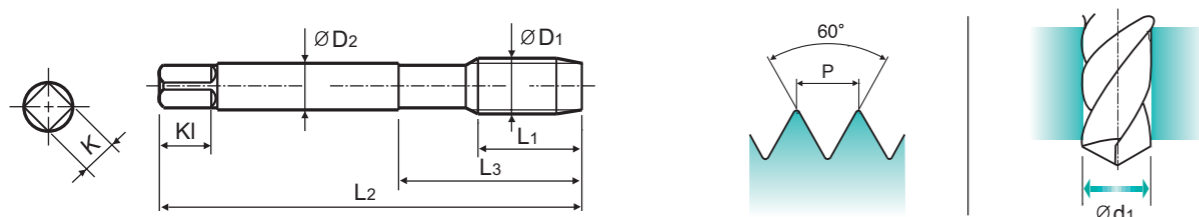
Machine taps
Maschinengewindebohrer

► 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Short Chamfer



Material groups: **MU** HSS-E DIN 371/376 6H 60° E R40 Bright p.B130

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK, TAPPING CHUCK, ONE STEP TAPPING CHUCK

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	TC807136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC807156	8	45	13	2.8	2.1	5	3	1.75
M2.3	× 0.4	TC807196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC807176	9	50	15	2.8	2.1	5	3	2.05
M2.6	× 0.45	TC807496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC807206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC807226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TC807246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC807266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC807286	8	70	25	6	4.9	8	3	4.2
M6	× 1.0	TC807316	10	80	30	6	4.9	8	3	5
M7	× 1.0	TC807346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TC807366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC807396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TC807426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TC807466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC807506	18	110	44	9	7	10	3	10.2
M14	× 2.0	TC807546	20	110	44	11	9	12	3	12
M16	× 2.0	TC807606	20	110	44	12	9	12	3	14
M18	× 2.5	TC807656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TC807706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TC807746	25	140	54	18	14.5	17	4	19.5
M24	× 3.0	TC807786	30	160	60	18	14.5	17	4	21
M27	× 3.0	TC807866	30	160	60	20	16	19	4	24
M30	× 3.5	TC807946	35	180	70	22	18	21	4	26.5

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
 ► Coating (TiN, TiCN or TiAlN) or Surface Treatment (Steam Homo) is available on your request. ◎ : 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	30	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	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	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎				

YG COMBO TAP

TC633 SERIES

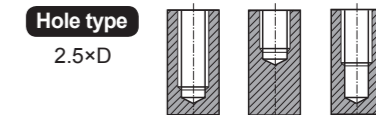
M ISO Metric coarse threads DIN 13

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

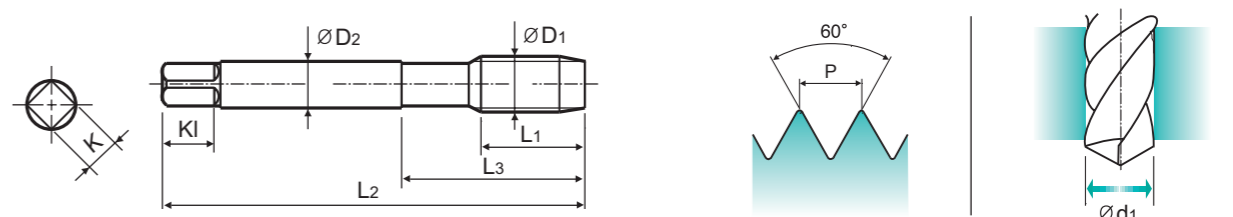
Machine taps
Maschinengewindebohrer

► 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Long Shank



Material groups: **MU** HSS-E LONG 6H 60° C R40 Bright p.B130

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK, TAPPING CHUCK, ONE STEP TAPPING CHUCK

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
M3	× 0.5	TC633206	11	100	18	3.5	2.7	6	3	2.5
M4	× 0.7	TC633246	13	125	21	4.5	3.4	6	3	3.3
M5	× 0.8	TC633286	15	140	25	6	4.9	8	3	4.2
M6	× 1.0	TC633316	17	160	30	6	4.9	8	3	5
M8	× 1.25	TC633366	20	180	35	6	4.9	8	3	6.8
M10	× 1.5	TC633426	22	200	39	7	5.5	8	3	8.5
M12	× 1.75	TC633506	24	220	44	9	7	10	3	10.2
M14	× 2.0	TC633546	26	220	44	11	9	12	3	12
M16	× 2.0	TC633606	27	220	44	12	9	12	3	14
M20	× 2.5	TC633706	32	280	54	16	12	15	4	17.5

► Coating (TiN, TiCN or TiAlN) or Surface Treatment (Steam Homo) is available on your request.

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	30	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	○	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎		

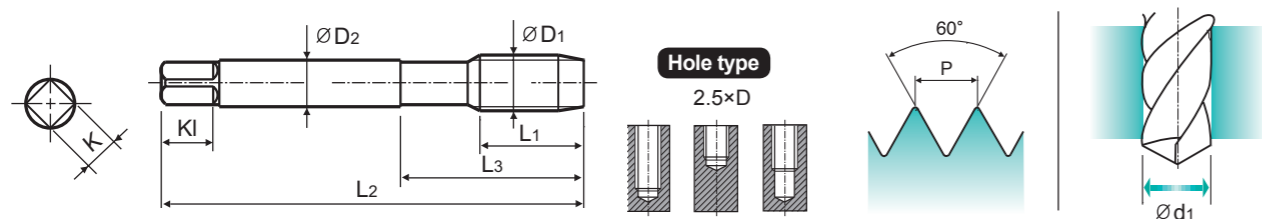
ISO Material Description	N										S						H								
	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)		Non Metallic Materials				Heat Resistant Super Alloys		Titanium Alloys		Hardened steel		Chilled Cast Iron		Hardened Cast Iron
VDI 3323	21	22	23	24	25	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	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	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎				

UNC Unified coarse threads
 Unified Grobgewinde
 UNC
 Unificato passo grosso

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 2B 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

Unit : mm

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Vap	Bright	TiN								
#4 - 40UNC		TB824162	TC824162	TD824162	6	56	18	3.5	2.7	6	3	2.3
#5 - 40UNC		TB824202	TC824202	TD824202	7	56	18	3.5	2.7	6	3	2.6
#6 - 32UNC		TB824242	TC824242	TD824242	7	56	20	4	3	6	3	2.85
#8 - 32UNC		TB824282	TC824282	TD824282	8	63	21	4.5	3.4	6	3	3.5
#10 - 24UNC		TB824322	TC824322	TD824322	10	70	25	6	4.9	8	3	3.9
#12 - 24UNC		TB824362	TC824362	TD824362	10	80	30	6	4.9	8	3	4.5
1/4 - 20UNC		TB824402	TC824402	TD824402	13	80	30	7	5.5	8	3	5.2
5/16 - 18UNC		TB824442	TC824442	TD824442	14	90	35	8	6.2	9	3	6.6
3/8 - 16UNC		TB824482	TC824482	TD824482	16	100	39	9	7	10	3	8
7/16 - 14UNC		TB824522	TC824522	TD824522	17	100	40	8	6.2	9	3	9.4
1/2 - 13UNC		TB824562	TC824562	TD824562	20	110	44	9	7	10	3	10.75
9/16 - 12UNC		TB824602	TC824602	TD824602	20	110	44	11	9	12	3	12.25
5/8 - 11UNC		TB824642	TC824642	TD824642	22	110	44	12	9	12	3	13.5
3/4 - 10UNC		TB824702	TC824702	TD824702	25	125	50	14	11	14	4	16.5
7/8 - 9UNC		TB824742	TC824742	TD824742	27	140	54	18	14.5	17	4	19.5
1 - 8UNC		TB824782	TC824782	TD824782	30	160	60	20	16	19	4	22.25

► DIN 371(#4~3/8) and DIN 374(7/16~1)
 ► The other coating (TiCN or TiAlN) 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			
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	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	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

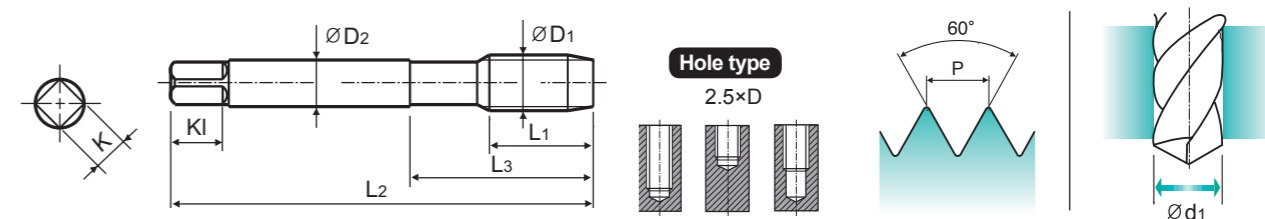
ISO	N					S					H											
	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron		
Material Description	21	22	23	24	25	26	27	28	29	30	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	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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

UNC Unified coarse threads
 Unified Grobgewinde
 UNC
 Unificato passo grosso

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 3B 60° C R40 TiN Bright p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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								
#4 - 40UNC		TCE01162	TDE01162	6	56	18	3.5	2.7	6	3	2.3
#5 - 40UNC		TCE01202	TDE01202	7	56	18	3.5	2.7	6	3	2.6
#6 - 32UNC		TCE01242	TDE01242	7	56	20	4	3	6	3	2.85
#8 - 32UNC		TCE01282	TDE01282	8	63	21	4.5	3.4	6	3	3.5
#10 - 24UNC		TCE01322	TDE01322	10	70	25	6	4.9	8	3	3.9
#12 - 24UNC		TCE01362	TDE01362	10	80	30	6	4.9	8	3	4.5
1/4 - 20UNC		TCE01402	TDE01402	13	80	30	7	5.5	8	3	5.2
5/16 - 18UNC		TCE01442	TDE01442	14	90	35	8	6.2	9	3	6.6
3/8 - 16UNC		TCE01482	TDE01482	16	100	39	9	7	10	3	8
7/16 - 14UNC		TCE01522	TDE01522	17	100	40	8	6.2	9	3	9.4
1/2 - 13UNC		TCE01562	TDE01562	20	110	44	9	7	10	3	10.75
9/16 - 12UNC		TCE01602	TDE01602	20	110	44	11	9	12	3	12.25
5/8 - 11UNC		TCE01642	TDE01642	22	110	44	12	9	12	3	13.5
3/4 - 10UNC		TCE01702	TDE01702	25	125	50	14	11	14	4	16.5
7/8 - 9UNC		TCE01742	TDE01742	27	140	54	18	14.5	17	4	19.5
1 - 8UNC		TCE01782	TDE01782	30	160	60	20	16	19	4	22.25

► DIN 371(#4~3/8) and DIN 376(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			
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	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	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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



Vap **TB864** SERIES
Bright **TC864** SERIES
TiN **TD864** SERIES

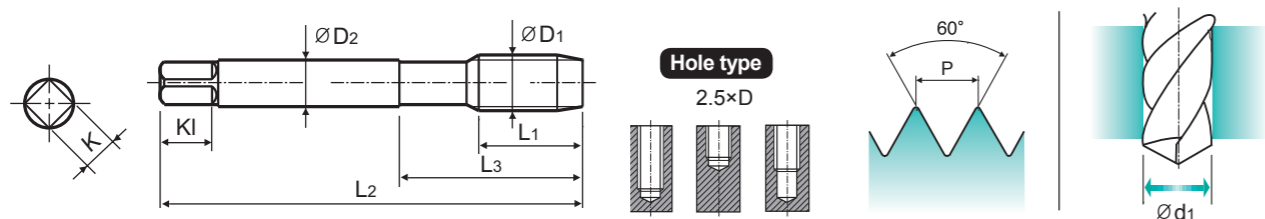
UNF Unified fine threads

Unified Feingewinde
 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups **MU** HSS-E DIN 371/374 2B 60° C R40 Vap Bright TiN p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Vap	Bright	TiN								
#4 - 48UNF		TB864182	TC864182	TD864182	L1	L2	L3	ØD2	K	KI	Z	Ød1
#5 - 44UNF		TB864222	TC864222	TD864222								
#6 - 40UNF		TB864262	TC864262	TD864262								
#8 - 36UNF		TB864302	TC864302	TD864302								
#10 - 32UNF		TB864342	TC864342	TD864342								
#12 - 28UNF		TB864382	TC864382	TD864382								
1/4 - 28UNF		TB864422	TC864422	TD864422								
5/16 - 24UNF		TB864462	TC864462	TD864462								
3/8 - 24UNF		TB864502	TC864502	TD864502								
7/16 - 20UNF		TB864542	TC864542	TD864542								
1/2 - 20UNF		TB864582	TC864582	TD864582								
9/16 - 18UNF		TB864622	TC864622	TD864622								
5/8 - 18UNF		TB864662	TC864662	TD864662								
3/4 - 16UNF		TB864722	TC864722	TD864722								
7/8 - 14UNF		TB864762	TC864762	TD864762								
1 - 12UNF		TB864802	TC864802	TD864802								

► DIN 371(#4~3/8) and DIN 374(7/16~1)
► The other coating (TiCN or TiAlN) 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			
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	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	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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



Bright **TCE02** SERIES
TiN **TDE02** SERIES

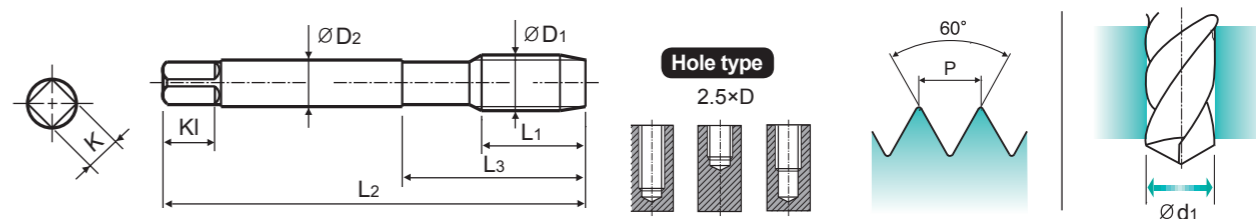
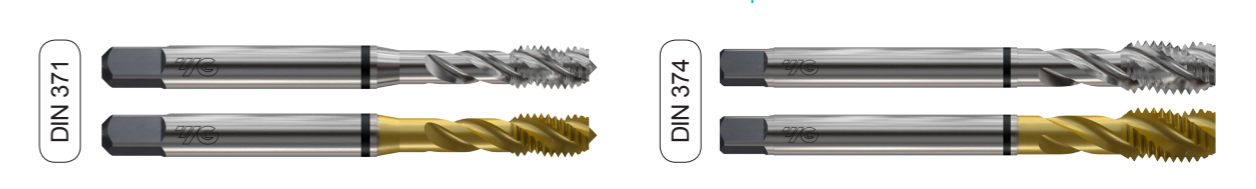
UNF Unified fine threads

Unified Feingewinde
 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups **MU** HSS-E DIN 371/374 3B 60° C R40 TiN Bright p.B130

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

SIZE	TPI	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Bright	TiN								
#4 - 48UNF		TCE02182	TDE02182	L1	L2	L3	ØD2	K	KI	Z	Ød1
#5 - 44UNF		TCE02222	TDE02222								
#6 - 40UNF		TCE02262	TDE02262								
#8 - 36UNF		TCE02302	TDE02302								
#10 - 32UNF		TCE02342	TDE02342								
#12 - 28UNF		TCE02382	TDE02382								
1/4 - 28UNF		TCE02422	TDE02422								
5/16 - 24UNF		TCE02462	TDE02462								
3/8 - 24UNF		TCE02502	TDE02502								
7/16 - 20UNF		TCE02542	TDE02542								
1/2 - 20UNF		TCE02582	TDE02582								
9/16 - 18UNF		TCE02622	TDE02622								
5/8 - 18UNF		TCE02662	TDE02662								
3/4 - 16UNF		TCE02722	TDE02722								
7/8 - 14UNF		TCE02762	TDE02762								
1 - 12UNF		TCE02802	TDE02802								

► 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			
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	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	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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

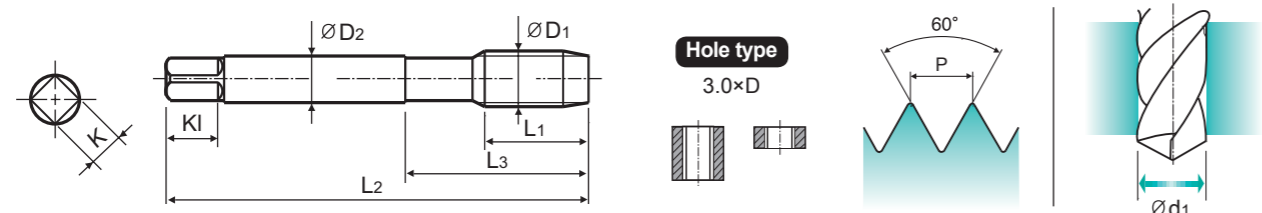
M ISO Metric coarse threads DIN 13

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6H 60° B Vap Bright TiN p.B131

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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								
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	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	
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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

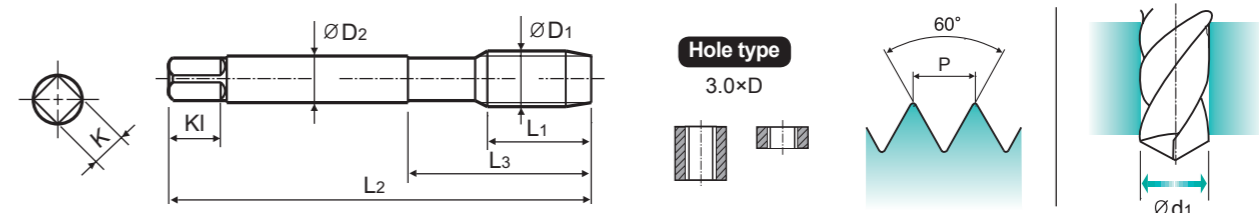
M ISO Metric coarse threads DIN 13

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6H 60° B Vap Bright TiN p.B131

Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK Recommended ToolHolder

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								
M24	× 3.0	TB814786	TC814786	TD814786	34	160	60	18	14.5	17	4	21
M27	× 3.0	TB814866	TC814866	TD814866	36	160	60	20	16	19	4	24
M30	× 3.5	TB814946	TC814946	TD814946	40	180	70	22	18	21	4	26.5
M33	× 3.5	-	TC814A46	TD814A46	40	180	70	25	20	23	4	29.5
M36	× 4.0	-	TC814B36	TD814B36	50	200	80	28	22	25	4	32.0
M39	× 4.0	-	TC814C06	TD814C06	50	200	80	32	24	27	4	35.0
M42	× 4.5	-	TC814C86	TD814C86	56	200	85	32	24	27	4	37.5
M45	× 4.5	-	TC814D56	TD814D56	58	220	85	36	29	32	4	40.5
M48	× 5.0	-	TC814E26	TD814E26	65	250	90	36	29	32	4	43.0
M52	× 5.0	-	TC814F36	TD814F36	65	250	90	40	32	35	4	47.0

► DIN 371(M2~M10) and DIN 376(M11~M52)
► The other coating(TiCN or TiAlN) 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	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	
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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



Vap **TBJ05** SERIES
Bright **TCJ05** SERIES
TiN **TDJ05** SERIES

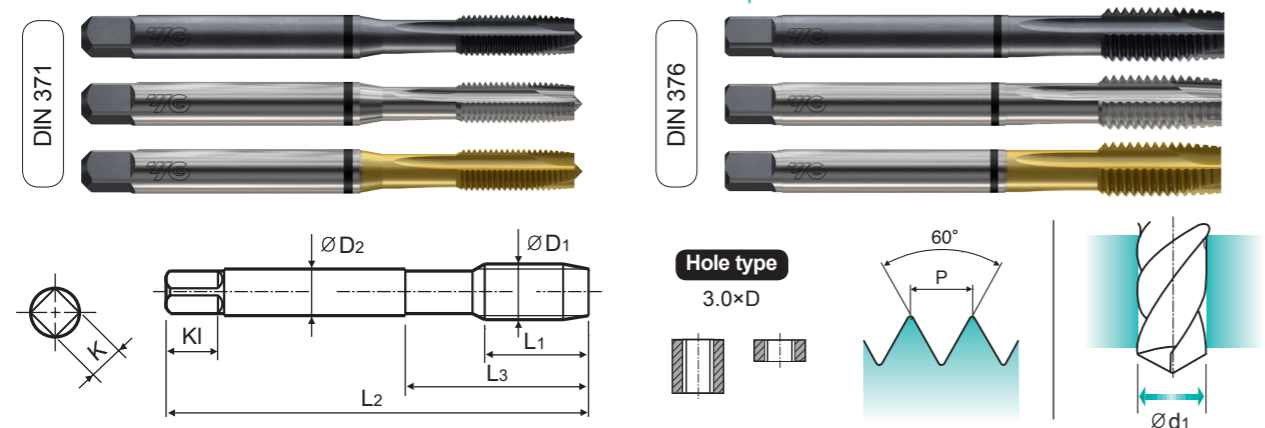
M ISO Metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

► 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 4H 60° B Vap Bright TiN p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

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								
M2 × 0.4		TBJ05136	TCJ05136	TDJ05136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBJ05156	TCJ05156	TDJ05156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TBJ05196	TCJ05196	TDJ05196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBJ05176	TCJ05176	TDJ05176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TBJ05496	TCJ05496	TDJ05496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBJ05206	TCJ05206	TDJ05206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBJ05226	TCJ05226	TDJ05226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TBJ05246	TCJ05246	TDJ05246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBJ05266	TCJ05266	TDJ05266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBJ05286	TCJ05286	TDJ05286	15	70	25	6	4.9	8	3	4.2
M6 × 1.0		TBJ05316	TCJ05316	TDJ05316	17	80	30	6	4.9	8	3	5
M7 × 1.0		TBJ05346	TCJ05346	TDJ05346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TBJ05366	TCJ05366	TDJ05366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBJ05396	TCJ05396	TDJ05396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TBJ05426	TCJ05426	TDJ05426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TBJ05466	TCJ05466	TDJ05466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBJ05506	TCJ05506	TDJ05506	24	110	44	9	7	10	3	10.2
M14 × 2.0		TBJ05546	TCJ05546	TDJ05546	26	110	44	11	9	12	3	12
M16 × 2.0		TBJ05606	TCJ05606	TDJ05606	27	110	44	12	9	12	3	14
M18 × 2.5		TBJ05656	TCJ05656	TDJ05656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TBJ05706	TCJ05706	TDJ05706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TBJ05746	TCJ05746	TDJ05746	32	140	54	18	14.5	17	4	19.5
M24 × 3.0		TBJ05786	TCJ05786	TDJ05786	34	160	60	18	14.5	17	4	21
M27 × 3.0		TBJ05866	TCJ05866	TDJ05866	36	160	60	20	16	19	4	24
M30 × 3.5		TBJ05946	TCJ05946	TDJ05946	40	180	70	22	18	21	4	26.5

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
► The other coating (TiCN or TiAlN) 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	35	38	40	42	45	48	50	52	55	58	60	62	65	68	70	72
HB	125	190	250	270	300	180	275	300	350	350	200	325	200	240	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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



Vap **TBJ06** SERIES
Bright **TCJ06** SERIES
TiN **TDJ06** SERIES

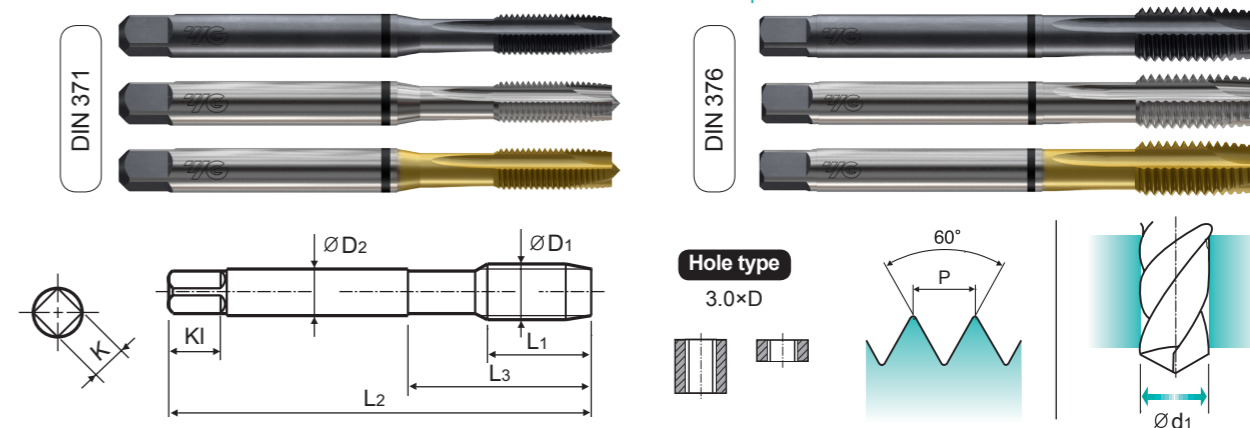
M ISO Metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

► 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 371/376 6H+0.1 60° B Vap Bright TiN p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

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								
M2 × 0.4		TBJ06136	TCJ06136	TDJ06136	8	45	13	2.8	2.1	5	3	1.7
M2.2 × 0.45		TBJ06156	TCJ06156	TDJ06156	8	45	13	2.8	2.1	5	3	1.85
M2.3 × 0.4		TBJ06196	TCJ06196	TDJ06196	8	45	13	2.8	2.1	5	3	2
M2.5 × 0.45		TBJ06176	TCJ06176	TDJ06176	9	50	15	2.8	2.1	5	3	2.15
M2.6 × 0.45		TBJ06496	TCJ06496	TDJ06496	9	50	15	2.8	2.1	5	3	2.2
M3 × 0.5		TBJ06206	TCJ06206	TDJ06206	11	56	18	3.5	2.7	6	3	2.6
M3.5 × 0.6		TBJ06226	TCJ06226	TDJ06226	12	56	20	4	3	6	3	3
M4 × 0.7		TBJ06246	TCJ06246	TDJ06246	13	63	21	4.5	3.4	6	3	3.4
M4.5 × 0.75		TBJ06266	TCJ06266	TDJ06266	14	70	25	6	4.9	8	3	3.8
M5 × 0.8		TBJ06286	TCJ06286	TDJ06286	15	70	25	6	4.9	8	3	4.3
M6 × 1.0		TBJ06316	TCJ06316	TDJ06316	17	80	30	6	4.9	8	3	5.1
M7 × 1.0		TBJ06346	TCJ06346	TDJ06346	17	80	30	7	5.5	8	3	6.1
M8 × 1.25		TBJ06366	TCJ06366	TDJ06366	20	90	35	8	6.2	9	3	6.9
M9 × 1.25		TBJ06396	TCJ06396	TDJ06396	20	90	35	9	7	10	3	7.9
M10 × 1.5		TBJ06426	TCJ06426	TDJ06426	22	100	39	10	8	11	3	8.6
M11 × 1.5		TBJ06466	TCJ06466	TDJ06466	22	100	40	8	6.2	9	3	9.6
M12 × 1.75		TBJ06506	TCJ06506	TDJ06506	24	110	44	9	7	10	3	10.3
M14 × 2.0		TBJ06546	TCJ06546	TDJ06546	26	110	44	11	9	12	3	12.1
M16 × 2.0		TBJ06606	TCJ06606	TDJ06606	27	110	44	12	9	12	3	14.1
M18 × 2.5		TBJ06656	TCJ06656	TDJ06656	30	125	50	14	11	14	4	15.6
M20 × 2.5		TBJ06706	TCJ06706	TDJ06706	32	140	54	16	12	15	4	17.6
M22 × 2.5		TBJ06746	TCJ06746	TDJ06746	32	140	54	18	14.5	17	4	19.6
M24 × 3.0		TBJ06786	TCJ06786	TDJ06786	34	160	60	18	14.5	17	4	21.1
M27 × 3.0		TBJ06866	TCJ06866	TDJ06866	36	160	60	20	16	19	4	24.1
M30 × 3.5		TBJ06946	TCJ06946	TDJ06946	40	180	70	22	18	21	4	26.6

► DIN 371 (M2~M10) and DIN 376 (M11~M30)
► The other coating (TiCN or TiAlN) 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	35	38	40	42	45	48	50	52	55	58	60	62	65	68	70	72
HB	125	190	250	270	300	180	275	300	350	350	200	325	200	240	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			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													



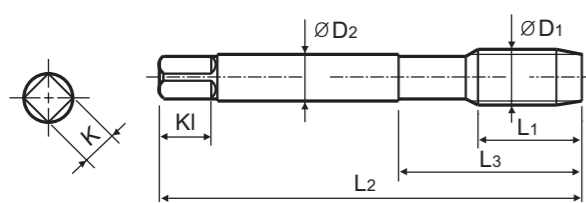
Vap **TB854** SERIES
Bright **TC854** SERIES
TiN **TD854** SERIES

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

Machine taps
Maschinengewindebohrer

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



Material groups: **MU** HSS-E DIN 374 6H 60° B Vap Bright TiN p.B131

Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK
Recommended ToolHolder

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	L1	L2	L3	ØD2	K	KI	Z	Ød1
M4 × 0.5		TB854256	TC854256	TD854256	10	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TB854296	TC854296	TD854296	11	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TB854326	TC854326	TD854326	13	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TB854336	TC854336	TD854336	13	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TB854356	TC854356	TD854356	14	80	30	5.5	4.3	7	3	6.2
M8 × 1.0		TB854376	TC854376	TD854376	17	90	36	6	4.9	8	3	7
M8 × 0.75		TB854386	TC854386	TD854386	14	80	30	6	4.9	8	3	7.2
M10 × 1.25		TB854436	TC854436	TD854436	22	100	40	7	5.5	8	3	8.8
M10 × 1.0		TB854446	TC854446	TD854446	18	90	36	7	5.5	8	3	9
M10 × 0.75		TB854456	TC854456	TD854456	18	90	36	7	5.5	8	3	9.2
M12 × 1.5		TB854516	TC854516	TD854516	22	100	40	9	7	10	3	10.5
M12 × 1.25		TB854526	TC854526	TD854526	22	100	40	9	7	10	3	10.8
M12 × 1.0		TB854536	TC854536	TD854536	18	100	40	9	7	10	3	11
M14 × 1.5		TB854556	TC854556	TD854556	22	100	40	11	9	12	3	12.5
M14 × 1.25		TB854566	TC854566	TD854566	22	100	40	11	9	12	3	12.8
M14 × 1.0		TB854576	TC854576	TD854576	22	100	40	11	9	12	3	13
M16 × 1.5		TB854616	TC854616	TD854616	22	100	40	12	9	12	3	14.5
M16 × 1.0		TB854626	TC854626	TD854626	18	100	40	12	9	12	3	15
M18 × 1.5		TB854676	TC854676	TD854676	25	110	44	14	11	14	4	16.5
M18 × 1.0		TB854686	TC854686	TD854686	20	110	44	14	11	14	4	17
M20 × 1.5		TB854726	TC854726	TD854726	25	125	50	16	12	15	4	18.5
M20 × 1.0		TB854736	TC854736	TD854736	20	125	50	16	12	15	4	19

► 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			
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	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	
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	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	42	55	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



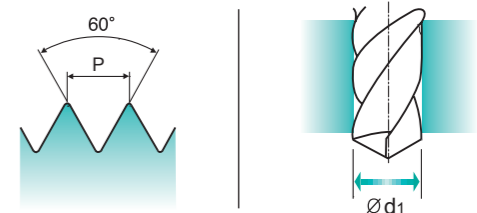
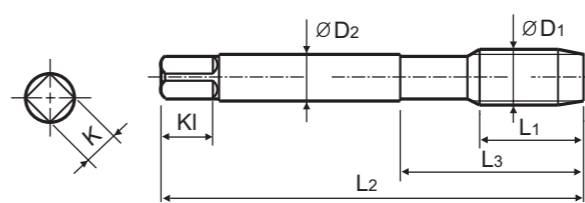
Vap **TB854** SERIES
Bright **TC854** SERIES
TiN **TD854** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 374 6H 60° B Vap Bright TiN p.B131

Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK
Recommended ToolHolder

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	L1	L2	L3	ØD2	K	KI	Z	Ød1
M22 × 1.5		TB854766	TC854766	TD854766	25	125	50	18	14.5	17	4	20.5
M22 × 1.0		TB854776	TC854776	TD854776	20	125	50	18	14.5	17	4	21
M24 × 2.0		TB854796	TC854796	TD854796	27	140	54	18	14.5	17	4	22
M24 × 1.5		TB854806	TC854806	TD854806	27	140	54	18	14.5	17	4	22.5
M26 × 1.5		TB854856	TC854856	TD854856	28	140	54	18	14.5	17	4	24.5
M27 × 2.0		TB854876	TC854876	TD854876	28	140	54	20	16	19	4	25
M27 × 1.5		TB854886	TC854886	TD854886	28	140	54	20	16	19	4	25.5
M28 × 1.5		TB854916	TC854916	TD854916	28	140	54	20	16	19	4	26.5
M30 × 2.0		TB854966	TC854966	TD854966	30	150	57	22	18	21	4	28
M30 × 1.5		TB854976	TC854976	TD854976	30	150	57	22	18	21	4	28.5
M32 × 2.0		-	TC854A16	TD854A16	30	150	57	22	18	21	4	30.0
M32 × 1.5		-	TC854A26	TD854A26	30	150	57	22	18	21	4	30.5
M33 × 2.0		-	TC854A66	TD854A66	33	160	60	25	20	23	4	31.0
M33 × 1.5		-	TC854A76	TD854A76	32	160	60	25	20	23	4	31.5
M34 × 1.5		-	TC854A96	TD854A96	33	170	70	28	22	25	4	32.5
M35 × 1.5		-	TC854B16	TD854B16	33	170	70	28	22	25	4	33.5
M36 × 3.0		-	TC854B46	TD854B46	45	200	80	28	22	25	4	33.0
M36 × 2.0		-	TC854B56	TD854B56	33	170	70	28	22	25	4	34.0
M36 × 1.5		-	TC854B66	TD854B66	33	170	70	28	22	25	4	34.5
M38 × 1.5		-	TC854B86	TD854B86	33	170	70	28	22	25	4	36.5
M39 × 1.5		-	TC854C36	TD854C36	33	170	70	32	24	27	4	37.5
M40 × 1.5		-	TC854C66	TD854C66	33	170	70	32	24	27	4	38.5

► 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			
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	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	
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	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	42	55	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



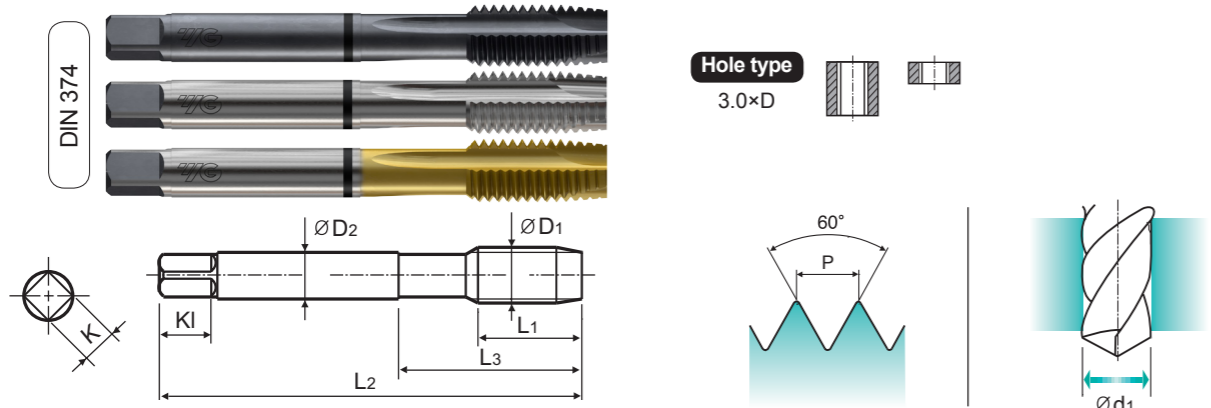
Vap **TB854** SERIES
Bright **TC854** SERIES
TiN **TD854** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 374 6H 60° B Vap Bright TiN p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

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								
M42 x 3.0		-	TC854D06	TD854D06	45	200	80	32	24	27	4	39.0
M42 x 2.0		-	TC854D16	TD854D16	33	170	70	32	24	27	4	40.0
M42 x 1.5		-	TC854D26	TD854D26	33	170	70	32	24	27	4	40.5
M45 x 1.5		-	TC854D96	TD854D96	33	180	80	36	29	32	4	43.5
M48 x 3.0		-	TC854E56	TD854E56	45	225	90	36	29	32	4	45.0
M48 x 2.0		-	TC854E66	TD854E66	36	190	80	36	29	32	4	46.0
M48 x 1.5		-	TC854E76	TD854E76	36	190	80	36	29	32	4	46.5
M50 x 1.5		-	TC854F16	TD854F16	36	190	80	36	29	32	4	48.5
M52 x 3.0		-	TC854F56	TD854F56	45	225	90	40	32	35	4	49.0
M52 x 2.0		-	TC854F66	TD854F66	36	190	80	40	32	35	4	50.0
M52 x 1.5		-	TC854F76	TD854F76	36	190	80	40	32	35	4	50.5

► The other coating(TiCN or TiAlN) 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	
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	35	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	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	55	55	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



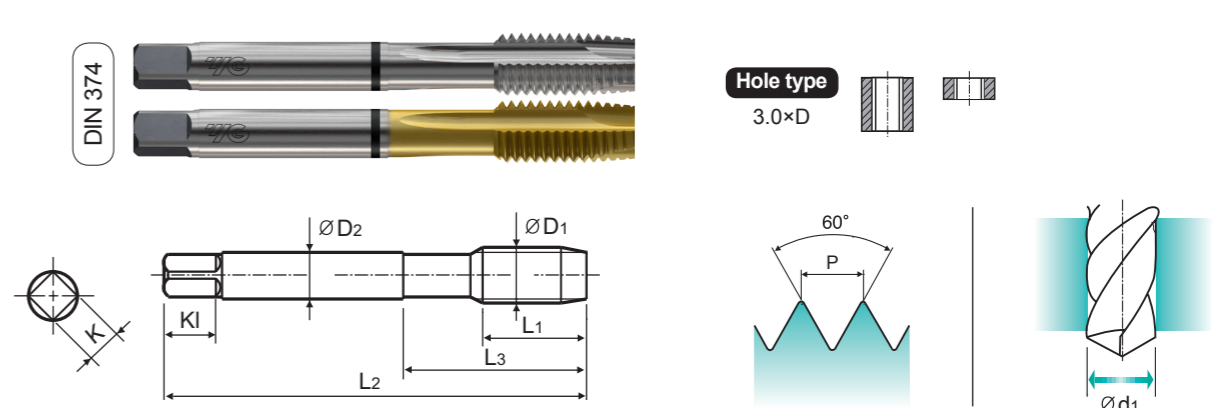
Bright **TCJ09** SERIES
TiN **TDJ09** SERIES

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

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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Material groups: **MU** HSS-E DIN 374 6G 60° B TiN Bright p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

Unit : mm

SIZE	Pitch	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Bright	TiN								
M4 x 0.5		TCJ09256	TDJ09256	10	63	21	2.8	2.1	5	3	3.5
M5 x 0.5		TCJ09296	TDJ09296	11	70	25	3.5	2.7	6	3	4.5
M6 x 0.75		TCJ09326	TDJ09326	13	80	30	4.5	3.4	6	3	5.2
M6 x 0.5		TCJ09336	TDJ09336	13	80	30	4.5	3.4	6	3	5.5
M7 x 0.75		TCJ09356	TDJ09356	14	80	30	5.5	4.3	7	3	6.2
M8 x 1.0		TCJ09376	TDJ09376	17	90	36	6	4.9	8	3	7
M8 x 0.75		TCJ09386	TDJ09386	14	80	30	6	4.9	8	3	7.2
M10 x 1.25		TCJ09436	TDJ09436	22	100	40	7	5.5	8	3	8.8
M10 x 1.0		TCJ09446	TDJ09446	18	90	36	7	5.5	8	3	9
M10 x 0.75		TCJ09456	TDJ09456	18	90	36	7	5.5	8	3	9.2
M12 x 1.5		TCJ09516	TDJ09516	22	100	40	9	7	10	3	10.5
M12 x 1.25		TCJ09526	TDJ09526	22	100	40	9	7	10	3	10.8
M12 x 1.0		TCJ09536	TDJ09536	18	100	40	9	7	10	3	11
M14 x 1.5		TCJ09556	TDJ09556	22	100	40	11	9	12	3	12.5
M14 x 1.25		TCJ09566	TDJ09566	22	100	40	11	9	12	3	12.8
M14 x 1.0		TCJ09576	TDJ09576	22	100	40	11	9	12	3	13
M16 x 1.5		TCJ09616	TDJ09616	22	100	40	12	9	12	3	14.5
M16 x 1.0		TCJ09626	TDJ09626	18	100	40	12	9	12	3	15
M18 x 1.5		TCJ09676	TDJ09676	25	110	44	14	11	14	4	16.5
M18 x 1.0		TCJ09686	TDJ09686	20	110	44	14	11	14	4	17
M20 x 1.5		TCJ09726	TDJ09726	25	125	50	16	12	15	4	18.5
M20 x 1.0		TCJ09736	TDJ09736	20	125	50	16	12	15	4	19

► The other coating(TiCN or TiAlN) or Surface Treatment(Steam Homo) 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	
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	35	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	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	55	55	55	
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



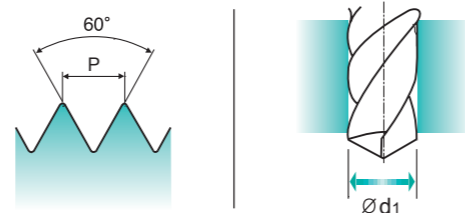
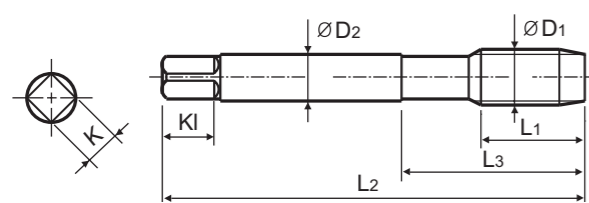
Bright **TCJ09** SERIES
TIN **TDJ09** SERIES

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

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 374 6G 60° B TIN Bright p.B131

Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

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	TiN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M22 × 1.5		TCJ09766	TDJ09766	25	125	50	18	14.5	17	4	20.5
M22 × 1.0		TCJ09776	TDJ09776	20	125	50	18	14.5	17	4	21
M24 × 2.0		TCJ09796	TDJ09796	27	140	54	18	14.5	17	4	22
M24 × 1.5		TCJ09806	TDJ09806	27	140	54	18	14.5	17	4	22.5
M26 × 1.5		TCJ09856	TDJ09856	28	140	54	18	14.5	17	4	24.5
M27 × 2.0		TCJ09876	TDJ09876	28	140	54	20	16	19	4	25
M27 × 1.5		TCJ09886	TDJ09886	28	140	54	20	16	19	4	25.5
M28 × 1.5		TCJ09916	TDJ09916	28	140	54	20	16	19	4	26.5
M30 × 2.0		TCJ09966	TDJ09966	30	150	57	22	18	21	4	28
M30 × 1.5		TCJ09976	TDJ09976	30	150	57	22	18	21	4	28.5

► The other coating(TiCN or TiAlN) or Surface Treatment(Steam Homo) is available on your request.

◎ : 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	35	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 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			◎			◎	◎	◎													



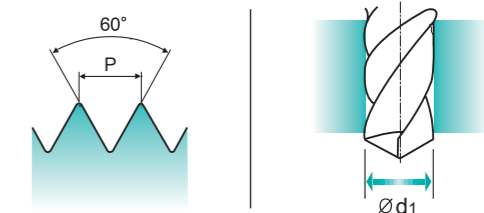
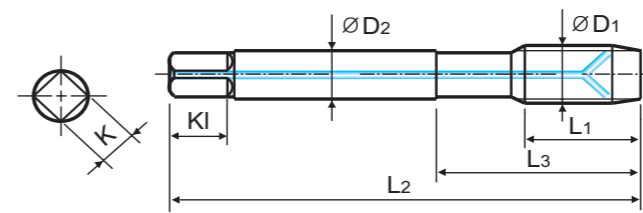
TC814-IC SERIES

M ISO Metric coarse threads DIN 13
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13, AVEC ARROSAGE CENTRAL
ISO Metrico passo grosso DIN 13

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 6H 60° B Bright p.B131

Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

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
M6 × 1.0		TC814316IC	17	80	30	6	4.9	8	3	5
M8 × 1.25		TC814366IC	20	90	35	8	6.2	9	3	6.8
M10 × 1.5		TC814426IC	22	100	39	10	8	11	3	8.5
M12 × 1.75		TC814506IC	24	110	44	9	7	10	3	10.2
M14 × 2.0		TC814546IC	26	110	44	11	9	12	3	12
M16 × 2.0		TC814606IC	27	110	44	12	9	12	3	14
M18 × 2.5		TC814656IC	30	125	50	14	11	14	4	15.5
M20 × 2.5		TC814706IC	32	140	54	16	12	15	4	17.5

► DIN 371(M6~M10) and DIN 376(M12~M20)
► Coating(TiN, TiCN or TiAlN) or Surface Treatment(Steam Homo) is available on your request.

◎ : 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	35	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 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			◎			◎	◎	◎													

YG COMBO TAP

TC445 SERIES

M ISO Metric coarse threads DIN 13

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

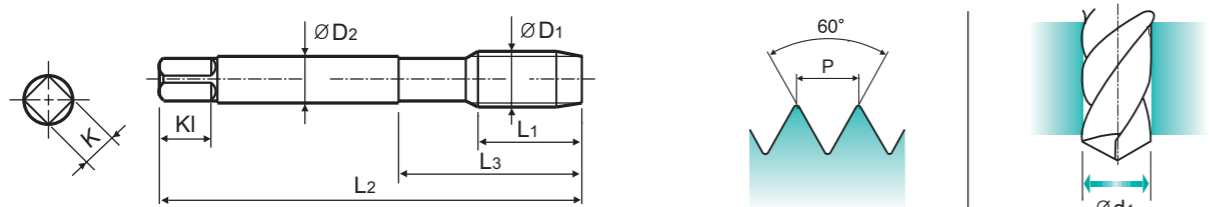
Machine taps
Maschinengewindebohrer

► 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.



Long Shank



Material groups: **MU** HSS-E LONG 6H 60° B Bright p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD ₁	P	Bright	L ₁	L ₂	L ₃	ØD ₂	K	KI	Z	Ød ₁
M3	× 0.5	TC445206	11	100	18	3.5	2.7	6	3	2.5
M4	× 0.7	TC445246	13	125	21	4.5	3.4	6	3	3.3
M5	× 0.8	TC445286	15	140	25	6	4.9	8	3	4.2
M6	× 1.0	TC445316	17	160	30	6	4.9	8	3	5
M8	× 1.25	TC445366	20	180	35	6	4.9	8	3	6.8
M10	× 1.5	TC445426	22	200	39	7	5.5	8	3	8.5
M12	× 1.75	TC445506	24	220	44	9	7	10	3	10.2
M14	× 2.0	TC445546	26	220	44	11	9	12	3	12
M16	× 2.0	TC445606	27	220	44	12	9	12	3	14
M20	× 2.5	TC445706	32	280	54	16	12	15	4	17.5

► Coating(TiN, TiCN or TiAlN) or Surface Treatment(Steam Homo) is available on your request.

◎ : 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	38	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 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	38	39	40	41
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													

YG COMBO TAP

Vap **TB834** SERIES
Bright **TC834** SERIES
TiN **TD834** SERIES

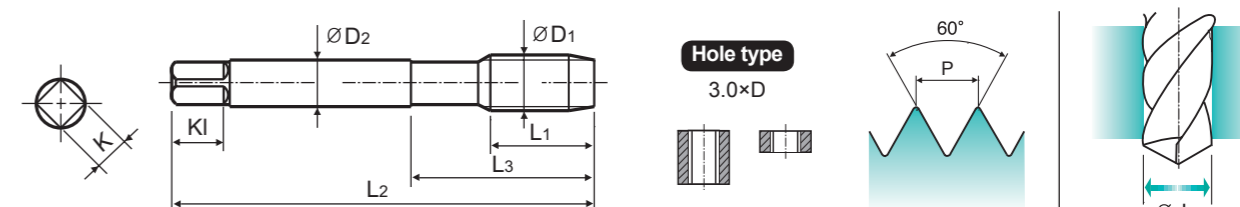
UNC Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

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 2B 60° B Vap Bright TiN p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK TAPPING CHUCK ONE STEP TAPPING CHUCK

Unit : mm

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD ₁		Vap	Bright	TiN	L ₁	L ₂	L ₃	ØD ₂	K	KI	Z	Ød ₁
#4 - 40 UNC		TB834162	TC834162	TD834162	11	56	18	3.5	2.7	6	3	2.3
#5 - 40 UNC		TB834202	TC834202	TD834202	11	56	18	3.5	2.7	6	3	2.6
#6 - 32 UNC		TB834242	TC834242	TD834242	12	56	20	4	3	6	3	2.85
#8 - 32 UNC		TB834282	TC834282	TD834282	13	63	21	4.5	3.4	6	3	3.5
#10 - 24 UNC		TB834322	TC834322	TD834322	15	70	25	6	4.9	8	3	3.9
#12 - 24 UNC		TB834362	TC834362	TD834362	16	80	30	6	4.9	8	3	4.5
1/4 - 20 UNC		TB834402	TC834402	TD834402	17	80	30	7	5.5	8	3	5.2
5/16 - 18 UNC		TB834442	TC834442	TD834442	20	90	35	8	6.2	9	3	6.6
3/8 - 16 UNC		TB834482	TC834482	TD834482	22	100	39	9	7	10	3	8
7/16 - 14 UNC		TB834522	TC834522	TD834522	22	100	40	8	6.2	9	3	9.4
1/2 - 13 UNC		TB834562	TC834562	TD834562	25	110	44	9	7	10	3	10.75
9/16 - 12 UNC		TB834602	TC834602	TD834602	26	110	44	11	9	12	3	12.25
5/8 - 11 UNC		TB834642	TC834642	TD834642	27	110	44	12	9	12	3	13.5
3/4 - 10 UNC		TB834702	TC834702	TD834702	30	125	50	14	11	14	4	16.5
7/8 - 9 UNC		TB834742	TC834742	TD834742	32	140	54	18	14.5	17	4	19.5
1 - 8 UNC		TB834782	TC834782	TD834782	36	160	60	20	16	19	4	22.25

► DIN 371(#4~3/8) and DIN 376(7/16~1)
► The other coating(TiCN or TiAlN) is available on your request.

◎ : 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	38	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 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	38	39	40	41
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550
Recommended			◎			◎	◎	◎													

YG COMBO TAP

Bright **TCJ01** SERIES
TIN **TDJ01** SERIES

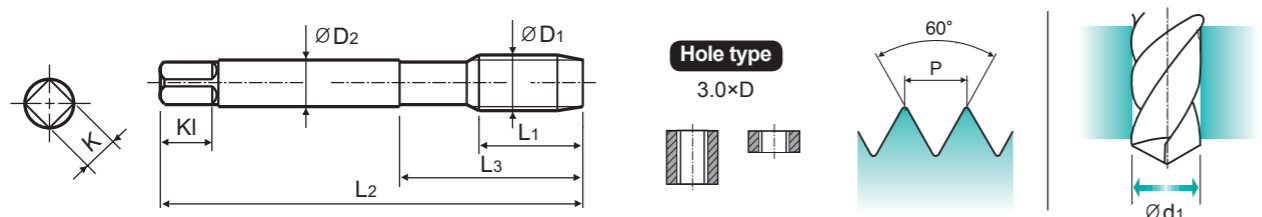
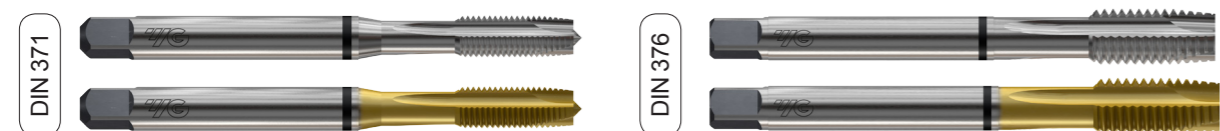
UNC Unified coarse threads

Unified Grobgewinde
 UNC
 Unificato passo grosso

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°** **B** **TiN** Bright p.B131

Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

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								
#4 - 40 UNC		TCJ01162	TDJ01162	11	56	18	3.5	2.7	6	3	2.3
#5 - 40 UNC		TCJ01202	TDJ01202	11	56	18	3.5	2.7	6	3	2.6
#6 - 32 UNC		TCJ01242	TDJ01242	12	56	20	4	3	6	3	2.85
#8 - 32 UNC		TCJ01282	TDJ01282	13	63	21	4.5	3.4	6	3	3.5
#10 - 24 UNC		TCJ01322	TDJ01322	15	70	25	6	4.9	8	3	3.9
#12 - 24 UNC		TCJ01362	TDJ01362	16	80	30	6	4.9	8	3	4.5
1/4 - 20 UNC		TCJ01402	TDJ01402	17	80	30	7	5.5	8	3	5.2
5/16 - 18 UNC		TCJ01442	TDJ01442	20	90	35	8	6.2	9	3	6.6
3/8 - 16 UNC		TCJ01482	TDJ01482	22	100	39	9	7	10	3	8
7/16 - 14 UNC		TCJ01522	TDJ01522	22	100	40	8	6.2	9	3	9.4
1/2 - 13 UNC		TCJ01562	TDJ01562	25	110	44	9	7	10	3	10.75
9/16 - 12 UNC		TCJ01602	TDJ01602	26	110	44	11	9	12	3	12.25
5/8 - 11 UNC		TCJ01642	TDJ01642	27	110	44	12	9	12	3	13.5
3/4 - 10 UNC		TCJ01702	TDJ01702	30	125	50	14	11	14	4	16.5
7/8 - 9 UNC		TCJ01742	TDJ01742	32	140	54	18	14.5	17	4	19.5
1 - 8 UNC		TCJ01782	TDJ01782	36	160	60	20	16	19	4	22.25

► DIN 371(#4~3/8) and DIN 376(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			
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	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						
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						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	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎

YG COMBO TAP

Vap **TB874** SERIES
Bright **TC874** SERIES
TiN **TD874** SERIES

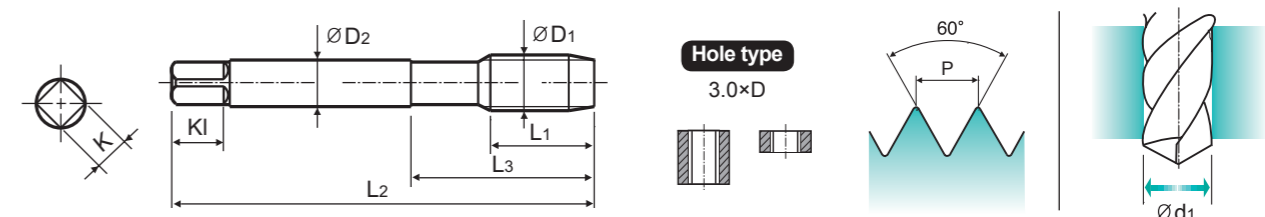
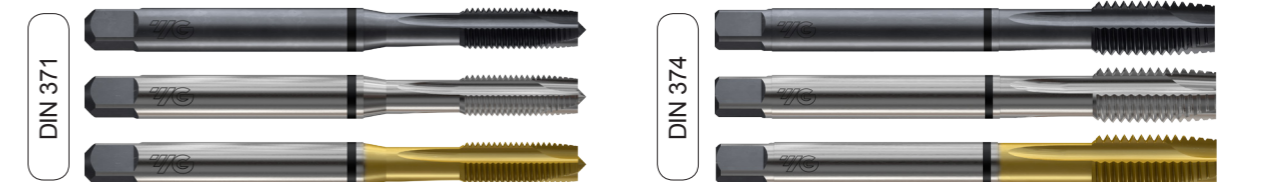
UNF Unified fine threads

Unified Feingewinde
 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 371/374** **2B** **60°** **B** **Vap Bright TiN** p.B131

Plain Shank
TAPPING ER CHUCK
TAPPING CHUCK
ONE STEP TAPPING CHUCK

Unit : mm

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
		Vap	Bright	TiN								
#4 - 48 UNF		TB874182	TC874182	TD874182	11	56	18	3.5	2.7	6	3	2.4
#5 - 44 UNF		TB874222	TC874222	TD874222	11	56	18	3.5	2.7	6	3	2.7
#6 - 40 UNF		TB874262	TC874262	TD874262	12	56	20	4	3	6	3	3
#8 - 36 UNF		TB874302	TC874302	TD874302	13	63	21	4.5	3.4	6	3	3.5
#10 - 32 UNF		TB874342	TC874342	TD874342	15	70	25	6	4.9	8	3	4.1
#12 - 28 UNF		TB874382	TC874382	TD874382	16	80	30	6	4.9	8	3	4.7
1/4 - 28 UNF		TB874422	TC874422	TD874422	17	80	30	7	5.5	8	3	5.5
5/16 - 24 UNF		TB874462	TC874462	TD874462	17	90	35	8	6.2	9	3	6.9
3/8 - 24 UNF		TB874502	TC874502	TD874502	18	100	39	9	7	10	3	8.5
7/16 - 20 UNF		TB874542	TC874542	TD874542	22	100	40	8	6.2	9	3	9.9
1/2 - 20 UNF		TB874582	TC874582	TD874582	22	100	40	9	7	10	3	11.5
9/16 - 18 UNF		TB874622	TC874622	TD874622	22	100	40	11	9	12	3	12.9
5/8 - 18 UNF		TB874662	TC874662	TD874662	22	100	40	12	9	12	3	14.5
3/4 - 16 UNF		TB874722	TC874722	TD874722	25	110	44	14	11	14	4	17.5
7/8 - 14 UNF		TB874762	TC874762	TD874762	26	125	50	18	14.5	17	4	20.5
1 - 12 UNF		TB874802	TC874802	TD874802	28	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) 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			
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	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						
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						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	◎	◎	◎	◎	◎	◎	◎	◎			◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	◎



Bright **TCJ02** SERIES
TIN **TDJ02** SERIES

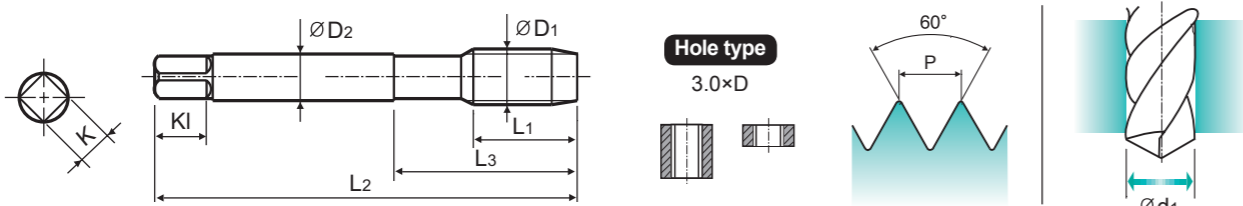
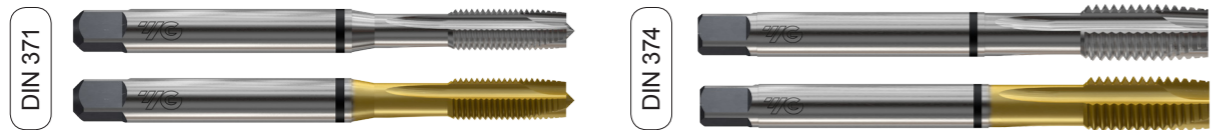
UNF Unified fine threads

- 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 Standzeit dank einer besonderen Schneidengeometrie. Von YG-1 patentiert.



Hole type
3.0×D

Material groups: **MU** HSS-E DIN 371/374 3B 60° B TIN Bright p.B131

Recommended ToolHolder: Plain Shank TAPPING ER CHUCK, TAPPING CHUCK, ONE STEP TAPPING CHUCK

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								
#4 - 48 UNF		TCJ02182	TDJ02182	L1	L2	L3	ØD2	K	KI	Z	Ød1
#5 - 44 UNF		TCJ02222	TDJ02222	11	56	18	3.5	2.7	6	3	2.4
#6 - 40 UNF		TCJ02262	TDJ02262	11	56	18	3.5	2.7	6	3	2.7
#8 - 36 UNF		TCJ02302	TDJ02302	12	56	20	4	3	6	3	3
#10 - 32 UNF		TCJ02342	TDJ02342	13	63	21	4.5	3.4	6	3	3.5
#12 - 28 UNF		TCJ02382	TDJ02382	15	70	25	6	4.9	8	3	4.1
1/4 - 28 UNF		TCJ02422	TDJ02422	16	80	30	6	4.9	8	3	4.7
5/16 - 24 UNF		TCJ02462	TDJ02462	17	80	30	7	5.5	8	3	5.5
3/8 - 24 UNF		TCJ02502	TDJ02502	17	90	35	8	6.2	9	3	6.9
7/16 - 20 UNF		TCJ02542	TDJ02542	18	100	39	9	7	10	3	8.5
1/2 - 20 UNF		TCJ02582	TDJ02582	22	100	40	8	6.2	9	3	9.9
9/16 - 18 UNF		TCJ02622	TDJ02622	22	100	40	9	7	10	3	11.5
5/8 - 18 UNF		TCJ02662	TDJ02662	22	100	40	11	9	12	3	12.9
3/4 - 16 UNF		TCJ02722	TDJ02722	22	100	40	12	9	12	3	14.5
7/8 - 14 UNF		TCJ02762	TDJ02762	25	110	44	14	11	14	4	17.5
1 - 12 UNF		TCJ02802	TDJ02802	26	125	50	18	14.5	17	4	20.5
				28	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	
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		21			
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	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											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			◎			◎	◎	◎													



Combo Spiral Flute Tap Set



TB804SET5

TC804SET7

Set No.	Series	Surface Treatment	Size	Quantity
TB804SET5	TB804	VAP	M5, M6, M8, M10, M12	5 pcs
TC804SET7	TC804	Bright	M3, M4, M5, M6, M8, M10, M12	7 pcs

Combo Spiral Flute Tap + Gold-P Drill (HSS-E, DIN 338, Straight Shank, 135° Split Point, Jobber Length) Set



TD804SET7-GLP195

Set No.	Series	Surface Treatment	Size								Quantity
TD804SET7-GLP195	TD804	TiN	M3	M4	M5	M6	M8	M10	M12	14 pcs	
	DLGP195	TiN	2.5	3.3	4.2	5	6.8	8.5	10.2		



RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min.)								
					TC804 TC844 TC824 TC864	TD804 TD844 TD824 TD864	TB804 TB844 TB824 TB864	TCE05 TCE09 TCE01 TCE02	TDE05 TDE09 TDE01 TDE02	TBE05	TCE06	TDE06	TBE06
P	1	Non-alloy steel	125		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	2		190	13	15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	3		250	25	12-18	18-24	12-18	12-18	18-24	12-18	12-18	18-24	12-18
	4		270	28	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	5		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10
	6	Low alloy steel	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	7		275	29	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	8		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10
	9		350	38	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7	3-5
	10		High alloyed steel, and tool steel	200	15	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7
M	12	Stainless steel	200	15	7-10	10-15	7-10	7-10	10-15	7-10	7-10	10-15	7-10
	13		240	23	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
	14		180	10	4-6	6-8	4-6	4-6	6-8	4-6	4-6	6-8	4-6
K	15	Grey cast iron	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	16		260	26	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
	17	Nodular cast iron	160	3	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	18		250	25	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
N	23	Aluminum-cast, alloyed	75		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	35-40	25-35	25-35	35-40	25-35	25-35	35-40	25-35
	27		90		8-12	12-17	8-12	8-12	12-17	8-12	8-12	12-17	8-12
	28		100		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20

ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min.)								
					TCE07	TDE07	TBE07	TCE08	TDE08	TBE08	TC804-IC	TC633	TC807
P	1	Non-alloy steel	125		15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
	2		190	13	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
	3		250	25	12-18	18-24	12-18	12-18	18-24	12-18	12-18	12-18	12-18
	4		270	28	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
	5		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10	6-10
	6	Low alloy steel	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
	7		275	29	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
	8		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10	6-10
	9		350	38	3-5	5-7	3-5	3-5	5-7	3-5	3-5	3-5	3-5
	10		High alloyed steel, and tool steel	200	15	3-5	5-7	3-5	3-5	5-7	3-5	3-5	3-5
M	12	Stainless steel	200	15	7-10	10-15	7-10	7-10	10-15	7-10	7-10	7-10	7-10
	13		240	23	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8
	14		180	10	4-6	6-8	4-6	4-6	6-8	4-6	4-6	4-6	4-6
K	15	Grey cast iron	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
	16		260	26	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8
	17	Nodular cast iron	160	3	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
	18		250	25	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8
N	23	Aluminum-cast, alloyed	75		15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	35-40	25-35	25-35	35-40	25-35	25-35	25-35	25-35
	27		90		8-12	12-17	8-12	8-12	12-17	8-12	8-12	8-12	8-12
	28		100		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20



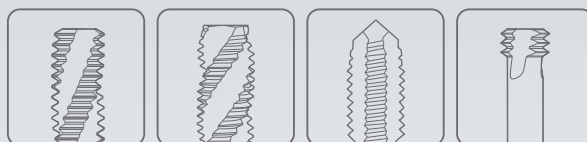
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min.)								
					TC814 TC854 TC834 TC874	TD814 TD854 TD834 TD874	TB814 TB854 TB834 TB874	TCJ05 TCJ09 TCJ01 TCJ02	TDJ05 TDJ09 TDJ01 TDJ02	TBJ05	TCJ06	TDJ06	TBJ06
P	1	Non-alloy steel	125		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	2		190	13	15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	3		250	25	12-18	18-24	12-18	12-18	18-24	12-18	12-18	18-24	12-18
	4		270	28	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	5		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10
	6	Low alloy steel	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	7		275	29	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	8		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10
	9		350	38	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7	3-5
	10		High alloyed steel, and tool steel	200	15	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7
M	12	Stainless steel	200	15	7-10	10-15	7-10	7-10	10-15	7-10	7-10	10-15	7-10
	13		240	23	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
	14		180	10	4-6	6-8	4-6	4-6	6-8	4-6	4-6	6-8	4-6
K	15	Grey cast iron	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	16		260	26	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
	17	Nodular cast iron	160	3	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	18		250	25	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
N	23	Aluminum-cast, alloyed	75		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	35-40	25-35	25-35	35-40	25-35	25-35	35-40	25-35
	27		90		8-12	12-17	8-12	8-12	12-17	8-12	8-12	12-17	8-12
	28		100		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20

ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min.)								
					TCJ07	TDJ07	TBJ07	TCJ08	TDJ08	TBJ08	TC814-IC	TC445	
P	1	Non-alloy steel	125		15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
	2		190	13	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
	3		250	25	12-18	18-24	12-18	12-18	18-24	12-18	12-18	12-18	12-18
	4		270	28	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
	5		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10	6-10
	6	Low alloy steel	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	7		275	29	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	8		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10
	9		350	38	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7	3-5
	10		High alloyed steel, and tool steel	200	15	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7
M	12	Stainless steel	200	15	7-10	10-15	7-10	7-10	10-15	7-10	7-10	10-15	7-10
	13		240	23	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
	14		180	10	4-6	6-8	4-6	4-6	6-8	4-6	4-6	6-8	4-6
K	15	Grey cast iron	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	16		260	26	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
	17	Nodular cast iron	160	3	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15
	18		250	25	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8
N	23	Aluminum-cast, alloyed	75		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	35-40	25-35	25-35	35-40	25-35	25-35	35-40	25-35
	27		90		8-12	12-17	8-12	8-12	12-17	8			



Global Cutting Tool Leader **YG-1**



THREADING