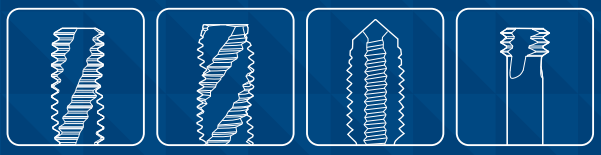
YE-TT20
EUROPE
2020/2021

CUTTING TOOLS



MACHINE TAPS

YG-1 CO., LTD.

THREAD MILLS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

For Thread Mills

unit : mm

Materials	Hardness (HB)	Strength (N/mm²)	Feed per Tooth (fz)	
			Cutter Diameter ≤Ø8.0	Cutter Diameter >Ø8.0
Low Carbon Steels	≤ 200	≤ 700	0.02 - 0.04	0.04 - 0.10
Medium Carbon Steels High Carbon Steels	≤ 250	≤ 850	0.02 - 0.04	0.04 - 0.10
Alloy Steels	≤ 250	≤ 850	0.02 - 0.04	0.04 - 0.10
Heat Treated Steels	≤ 400	≤ 1400	0.02 - 0.04	0.04 - 0.10
Stainless Steels	≤ 300	≤ 1000	0.01 - 0.02	0.02 - 0.06
Cast Iron	≤ 300	≤ 1000	0.02 - 0.04	0.04 - 0.10
Chrome-Nickel Alloys Titanium Alloys	≤ 350	≤ 1200	0.01 - 0.02	0.02 - 0.06
Non Ferrous Materials	≤ 200	≤ 700	0.03 - 0.07	0.05 - 0.10

For Drill and Thread Mills

unit : mm

Material	Hardness (HB)	Strength (N/mm²)	Fz(Thread Milling) -Feed per Tooth		Fdr(Drilling) - Feed per revolution	
			Cutter Diameter ≤Ø8.0	Cutter Diameter >Ø8.0	Cutter Diameter ≤Ø8.0	Cutter Diameter >Ø8.0
Cast Iron	≤ 200	≤ 700	0.03-0.08	0.08-0.12	0.10-0.20	0.20-0.25
Aluminium Aluminium-alloy Magnesium	≤ 180	≤ 600	0.05-0.10	0.10-0.15	0.10-0.20	0.20-0.30
Plastics	-	-	0.05-0.10	0.10-0.15	0.10-0.20	0.20-0.30

For Hard Material Miniature Thread Mills

unit : mm

Material	Hardness	Strength (N/mm²)	Feed(mm/tooth)	
			Cutter Diameter ≤Ø6.0	Cutter Diameter >Ø6.0
Alloy Steel	295-415HB	1000-1400	0.02-0.04	0.04-0.06
Stainless Steel	280-415HB	950-1250	0.02-0.04	0.04-0.06
Cast Iron	≤ HB300	≤ 1000	0.03-0.05	0.05-0.07
Chrome-Nickel Alloys Titanium Alloys	≤ HB445	≤ 1500	0.02-0.03	0.03-0.05
Hardened Material	45-50HRc		0.03-0.05	0.05-0.07
	51-55HRc		0.02-0.04	0.04-0.06
	56-62HRc		0.01-0.03	0.03-0.05

SYNCHRO TAPS
SYNCHRO TAPS

- For High Speed Tapping on Rigid CNC Machine
- Für Hochgeschwindigkeits-Gewindebohren auf starren CNC-Maschinen

SELECTION GUIDE

YG THREADING TOOLS

HSS-PM SYNCHRO TAPS

For High Speed Tapping on Rigid CNC Machine

			Max. 2.5xD Blind Hole	Max. 3.0xD Through Hole	Max. 2.0xD Blind/Through Hole	Max. 3.0xD Blind/Through Hole
HOLE TYPE						
TOOL MATERIAL			HSS-PM			
CHAMFER LEAD ACC. TO DIN2197			C	B	C	C
FLUTE TYPE			Spiral Flute	Spiral Point	Straight Flute	Cold Forming
SPIRAL FLUTE ANGLE			R45	-	-	-
SERIES	M	DIN371/376	TTS31 (P.65)	TTS33 (P.66)	TKS35 (P.67)	TTS37 (P.68)
		DIN352				
		DIN357/LONG				
	MF	DIN374				
		DIN2181				
	UNC	DIN371/376				
		DIN351				
	UNF	DIN371/374				
		DIN2181				
	BSW	DIN2182/2183				
		DIN351				
	G(BSP)	DIN5156/5157				
	EG-M	DIN371/376				
	EG-UNC	DIN371/376				
	EG-UNF	DIN371/374				
SURFACE TREATMENT			TiN	TiN	TiCN	TiN
MODEL						

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.69

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

YG SYNCHRO TAPS

TTS31 SERIES

M ISO metric coarse threads DIN 13

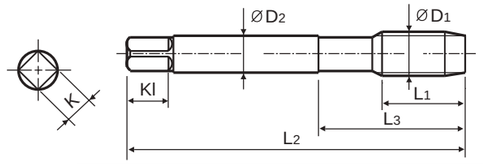
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

- Coated HSS-PM(Powder Metallurgy) Taps for high-speed tapping on rigid CNC machines or equivalent machines
- Up to 3 times faster in tapping compared to conventional taps
- For high-speed synchro tapping, synchro holder for increasing tool life and thread quality is recommended
- High precision threads

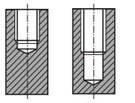
- Beschichtete HSS-PM-Gewindebohrer zum Hochgeschwindigkeitsgewindebohren auf starren CNC-Maschinen oder gleichwertige Maschinen
- Bis zu dreimal schnelleres Gewindeschneiden als bei herkömmlichen Gewindebohrern
- Beim Hochgeschwindigkeits-Gewindebohren wird die Verwendung eines Synchrofutters zur Erhöhung der Werkzeugstandzeit und der Gewindequalität empfohlen
- Hoch präzise Gewinde

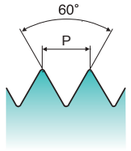
DIN 371

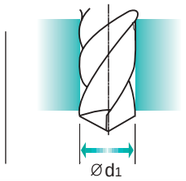
DIN 376



Hole type
2.5×D







Material groups **GS** | HSS-PM | DIN 371/376 | 6H | 60° | C | TiN | R45

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.69

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	**TTS31206**	6	56	18	3.5	2.7	6	3	2.5
M4	× 0.7	**TTS31246**	7	63	21	4.5	3.4	6	3	3.3
M5	× 0.8	**TTS31286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TTS31316**	10	80	30	6	4.9	8	3	5
M8	× 1.25	**TTS31366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TTS31426**	15	100	39	10	8	11	3	8.5
M12	× 1.75	**TTS31506**	18	110	44	9	7	10	3	10.2
M14	× 2	**TTS31546**	20	110	44	11	9	12	3	12
M16	× 2	**TTS31606**	20	110	44	12	9	12	3	14
M18	× 2.5	**TTS31656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TTS31706**	25	140	54	16	12	15	4	17.5

▶DIN 371(M3~M10) and DIN 376(M11~M20)
▶Coating(TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

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

SYNCHRO TAPS

TTS33 SERIES

M ISO metric coarse threads DIN 13

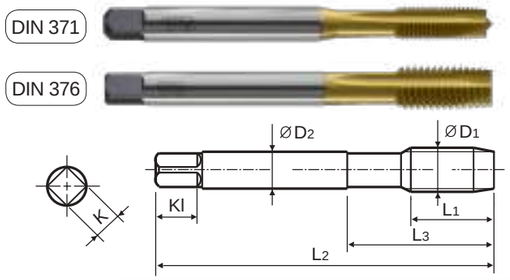
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

- Coated HSS-PM(Powder Metallurgy) Taps for high-speed tapping on rigid CNC machines or equivalent machines
- Up to 3 times faster in tapping compared to conventional taps
- For high-speed synchro tapping, synchro holder for increasing tool life and thread quality is recommended
- High precision threads

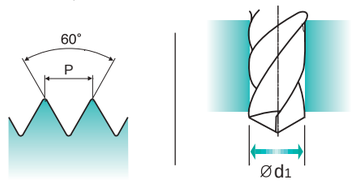
- Beschichtete HSS-PM-Gewindebohrer zum Hochgeschwindigkeitsgewindebohren auf starren CNC-Maschinen oder gleichwertige Maschinen
- Bis zu dreimal schnelleres Gewindeschneiden als bei herkömmlichen Gewindebohrern
- Beim Hochgeschwindigkeits-Gewindebohren wird die Verwendung eines Synchrofutters zur Erhöhung der Werkzeugstandzeit und der Gewindequalität empfohlen
- Hoch präzise Gewinde

DIN 371

DIN 376



Hole type
3.0×D



Material groups **GS** | HSS-PM | DIN 371/376 | 6HX | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.69

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	**TTS33206**	5	56	18	3.5	2.7	6	3	2.5
M4	× 0.7	**TTS33246**	7	63	21	4.5	3.4	6	3	3.3
M5	× 0.8	**TTS33286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TTS33316**	10	80	30	6	4.9	8	3	5
M8	× 1.25	**TTS33366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TTS33426**	15	100	39	10	8	11	3	8.5
M12	× 1.75	**TTS33506**	18	110	44	9	7	10	4	10.2
M14	× 2	**TTS33546**	20	110	44	11	9	12	4	12
M16	× 2	**TTS33606**	20	110	44	12	9	12	4	14
M18	× 2.5	**TTS33656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TTS33706**	25	140	54	16	12	15	4	17.5

▶DIN 371(M3~M10) and DIN 376(M11~M20)
▶Coating(TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

SYNCHRO TAPS

TKS35 SERIES

M ISO metric coarse threads DIN 13

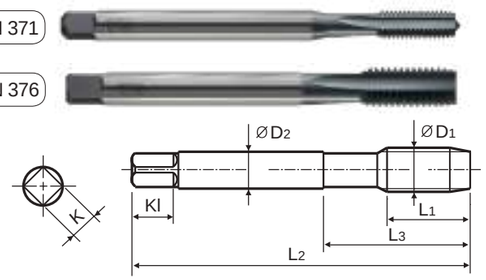
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

- Coated HSS-PM(Powder Metallurgy) Taps for high-speed tapping on rigid CNC machines or equivalent machines
- Up to 3 times faster in tapping compared to conventional taps
- For high-speed synchro tapping, synchro holder for increasing tool life and thread quality is recommended
- High precision threads

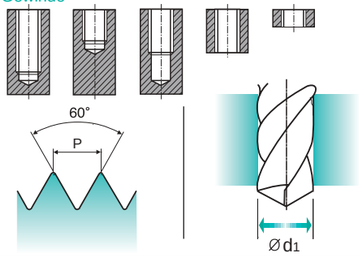
- Beschichtete HSS-PM-Gewindebohrer zum Hochgeschwindigkeitsgewindebohren auf starren CNC-Maschinen oder gleichwertige Maschinen
- Bis zu dreimal schnelleres Gewindeschneiden als bei herkömmlichen Gewindebohrern
- Beim Hochgeschwindigkeits-Gewindebohren wird die Verwendung eines Synchrofutters zur Erhöhung der Werkzeugstandzeit und der Gewindequalität empfohlen
- Hoch präzise Gewinde

DIN 371

DIN 376



Hole type
2.0×D



Material groups **GS** | HSS-PM | DIN 371/376 | 6HX | 60° | C | TiCN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.69

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	TiCN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	**TKS35206**	5	56	18	3.5	2.7	6	3	2.5
M4	× 0.7	**TKS35246**	7	63	21	4.5	3.4	6	3	3.3
M5	× 0.8	**TKS35286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TKS35316**	10	80	30	6	4.9	8	3	5
M8	× 1.25	**TKS35366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TKS35426**	15	100	39	10	8	11	4	8.5
M12	× 1.75	**TKS35506**	18	110	44	9	7	10	4	10.2
M14	× 2	**TKS35546**	20	110	44	11	9	12	4	12
M16	× 2	**TKS35606**	20	110	44	12	9	12	4	14
M18	× 2.5	**TKS35656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TKS35706**	25	140	54	16	12	15	4	17.5

▶DIN 371(M3~M10) and DIN 376(M11~M20)
▶Coating(TiAlN) is available on your reqest.

◎ : Excellent ○ : Good

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

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

SYNCHRO TAPS

TTS37 SERIES

M ISO metric coarse threads DIN 13

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

- Coated HSS-PM(Powder Metallurgy) Taps for high-speed tapping on rigid CNC machines or equivalent machines
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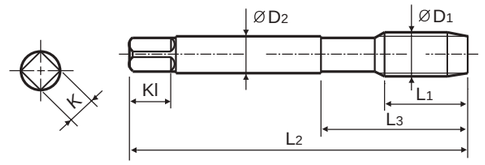
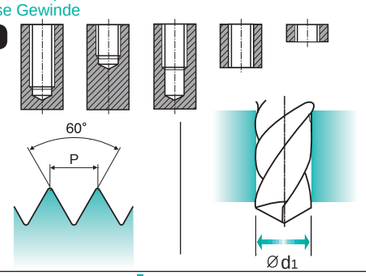
- Hoch präzise Gewinde

DIN 371

DIN 376



Hole type
3.0×D



Material groups **GV** | HSS-PM | DIN 371/376 | 6HX | 60° | C | TiN

Cold forming taps
Gewindeformer

Recommended cutting : P.69

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Ød1
M3	× 0.5	**TTS37206**	5	56	18	3.5	2.7	6	2.8
M4	× 0.7	**TTS37246**	7	63	21	4.5	3.4	6	3.7
M5	× 0.8	**TTS37286**	8	70	25	6	4.9	8	4.65
M6	× 1	**TTS37316**	10	80	30	6	4.9	8	5.55
M8	× 1.25	**TTS37366**	13	90	35	8	6.2	9	7.4
M10	× 1.5	**TTS37426**	15	100	39	10	8	11	9.3
M12	× 1.75	**TTS37506**	18	110	44	9	7	10	11.2

▶DIN 371(M3~M10) and DIN 376(M11~M12)

◎ : Excellent ○ : Good

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

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

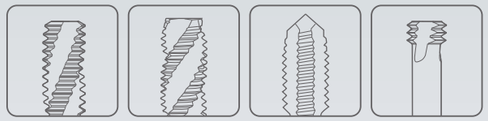
CARBIDE
HSS
THREAD MILLS
SYNCHRO TAPS
COMBO TAPS
YG TAP GENERAL
YG TAP STEEL
YG TAP HARDENED
YG TAP INOX
YG TAP CAST IRON
YG TAP ALU
YG TAP Ti Ni
YG TAP FORMING
NUT TAPS
STI TAPS
PIPE TAPS
TECHNICAL DATA

SYNCHRO TAPS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

						TTS31	TTS33	TKS35	TTS37
ISO	VDI 3323	Material Description	HB	HRc		Vc (m/min)			
P	1	Non-alloy steel	125			41-46	41-46	41-46	41-46
	2		190	13		41-46	41-46	41-46	41-46
	3		250	25		35-40	35-40	35-40	35-40
	4		270	28		28-33	28-33	28-33	28-33
	5		300	32					
	6	Low alloy steel	180	10		28-33	28-33	28-33	28-33
	7		275	29		28-33	28-33	28-33	28-33
	8		300	32					
	9		350	38					
	10	High alloyed steel, and tool steel	200	15					
	11		325	35					
M	12	Stainless steel	200	15		18-23	18-23		18-23
	13		240	23		13-18	13-18		13-18
	14		180	10		10-14	10-14		10-14
K	15	Grey cast iron	180	10		28-33	28-33	28-33	
	16		260	26				13-18	
	17	Nodular cast iron	160	3		28-33	28-33	28-33	
	18		250	25				13-18	
	19	Malleable cast iron	130					28-33	
	20		230	21				13-18	
N	21	Aluminum-wrought alloy	60						28-33
	22		100						28-33
	23	Aluminum-cast, alloyed	75			41-46	41-46	41-46	41-46
	24		90			41-46	41-46	41-46	41-46
	25		130			30-35	30-35	30-35	30-35
	26	Copper and Copper Alloys (Bronze / Brass)	110			45-50	45-50		
	27		90						
	28		100			25-30	25-30		25-30
	29	Non Metallic Materials							
	30								
S	31	Heat Resistant Super Alloys	200	15					
	32		280	30					
	33		250	25					
	34		350	38					
	35		320	34					
	36	Titanium Alloys	400 Rm						
	37		1050 Rm						
H	38	Hardened steel	550	55					
	39		630	60					
	40	Chilled Cast Iron	400	42					
	41	Hardened Cast Iron	550	55					

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

HSS-E & HSS-PM

COMBO TAPS
COMBO GEWINDEBOHRER

- **For Multi Purpose Tapping**
  YG-1's Patent
- **Für Mehrbereichs-Gewindebohren**
  YG1´s Patent

SELECTION GUIDE

YG THREADING TOOLS

HSS-E & HSS-PM
COMBO TAPS

For Multi Purpose Tapping
YG-1's Patent

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.114

| | | |

SELECTION GUIDE

YG THREADING TOOLS

HSS-E & HSS-PM
COMBO TAPS

For Multi Purpose Tapping
YG-1's Patent

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.114

			HOLE TYPE	Max. 3.0xD Through Hole					
			TOOL MATERIAL	HSS-E					
			CHAMFER LEAD ACC.TO DIN2197	B	B	B	B	B	B
			FLUTE TYPE	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point
			SPIRAL FLUTE ANGLE	-	-	-	-	-	-
SERIES	M	DIN 371/376		TC814 (P.95)	TD814 (P.95)	TB814 (P.95)	TCJ05 (P.96)	TDJ05 (P.96)	TBJ05 (P.96)
		DIN352							
		DIN357/LONG							
	MF	DIN374		TC854 (P.100)	TD854 (P.100)	TB854 (P.100)	TCJ09 (P.102)	TDJ09 (P.102)	
		DIN2181							
	UNC	DIN 371/376		TC834 (P.109)	TD834 (P.109)	TB834 (P.109)	TCJ01 (P.110)	TDJ01 (P.110)	
		DIN351							
	UNF	DIN 371/374		TC874 (P.111)	TD874 (P.111)	TB874 (P.111)	TCJ02 (P.112)	TDJ02 (P.112)	
		DIN2181							
	BSW	DIN2182/2183							
		DIN351							
	G(BSP)	DIN5156/5157							
	EG-M	DIN 371/376							
	EG-UNC	DIN 371/376							
	EG-UNF	DIN 371/374							
			SURFACE TREATMENT	Bright	TiN	VAP	Bright	TiN	VAP
			MODEL						

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

Max. 3.0xD Through Hole															
HSS-E														HSS-PM	
B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Point	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TCJ06 (P.97)	TDJ06 (P.97)	TBJ06 (P.97)	TCJ07 (P.98)	TDJ07 (P.98)	TBJ07 (P.98)	TCJ08 (P.99)	TDJ08 (P.99)	TBJ08 (P.99)	TC814-IC (P.104)		TB428 (P.106)	TQ428 (P.106)	M		
										TC445 (P.105)					
											TB438 (P.108)	TQ438 (P.107)	MF		
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													UNF		
													BSW		
													G(BSP)		
													EG-M		
													EG-UNC		
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Bright	TiN	VAP	Bright	TiN	VAP	Bright	TiN	VAP	Bright	Bright	VAP	VAP			
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COMBO TAP SETS

Combo Spiral Flute Taps

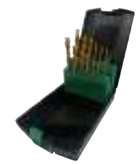
TB804SET5	TC804SET7
VAP	Bright
5pcs	7pcs

Combo Spiral Flute Taps + Gold-P Drill

TD804SET7-GLP195

TiN

14pcs



P.493

COMBO TAPS

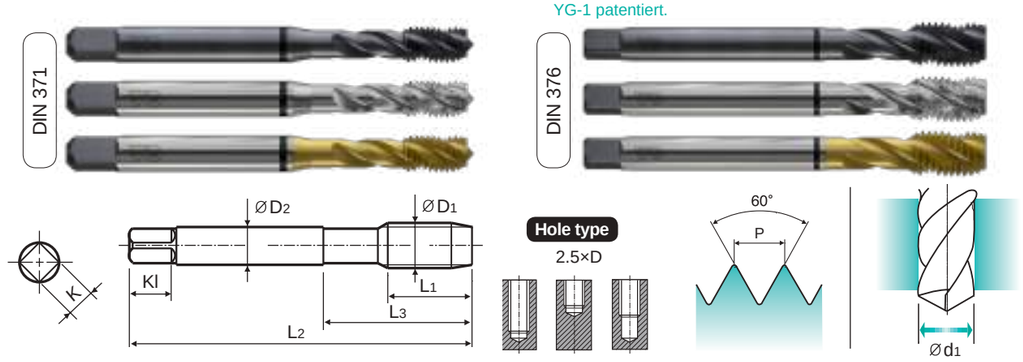
Vap **TB804** SERIES
Bright **TC804** SERIES
TiN **TD804** SERIES

M ISO Metric coarse threads DIN 13

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

▶ 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° | C | Vap Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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	Kl	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		TB804316	TC804316	TD804316	10	80	30	6	4.9	8	3	5
M7 × 1		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		TB804546	TC804546	TD804546	20	110	44	11	9	12	3	12
M16 × 2		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
M24 × 3		TB804786	TC804786	TD804786	30	160	60	18	14.5	17	4	21
M27 × 3		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

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

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

COMBO TAPS

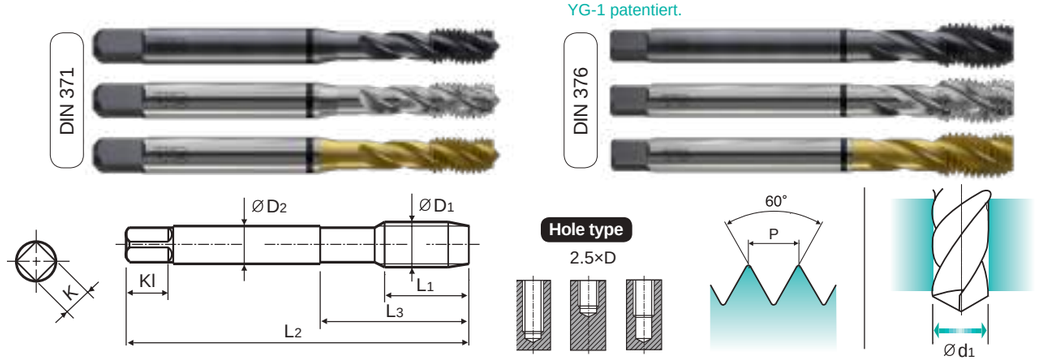
Vap TBE05 SERIES
Bright TCE05 SERIES
TiN TDE05 SERIES

M ISO Metric coarse threads DIN 13

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

▶ 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 | 4H | 60° | C | Vap Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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	Kl	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		TBE05316	TCE05316	TDE05316	10	80	30	6	4.9	8	3	5
M7 × 1		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		TBE05546	TCE05546	TDE05546	20	110	44	11	9	12	3	12
M16 × 2		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		TBE05786	TCE05786	TDE05786	30	160	60	18	14.5	17	4	21
M27 × 3		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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

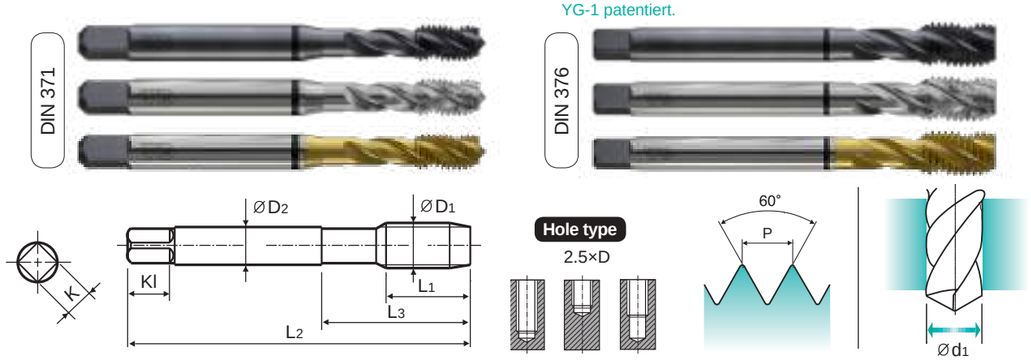
Vap **TBE06 SERIES**
Bright **TCE06 SERIES**
TiN **TDE06 SERIES**

M ISO Metric coarse threads DIN 13

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

▶ 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+0.1 | 60° | C | Vap Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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	Kl	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		TBE06316	TCE06316	TDE06316	10	80	30	6	4.9	8	3	5.1
M7 × 1		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		TBE06546	TCE06546	TDE06546	20	110	44	11	9	12	3	12.1
M16 × 2		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		TBE06786	TCE06786	TDE06786	30	160	60	18	14.5	17	4	21.1
M27 × 3		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

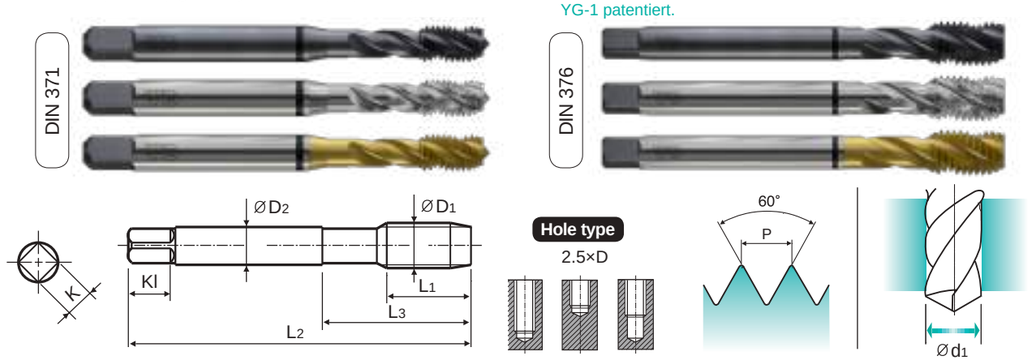
ISO	P													M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10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

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

COMBO TAPS

Vap **TBE07 SERIES**
Bright **TCE07 SERIES**
TiN **TDE07 SERIES**

M ISO Metric coarse threads DIN 13
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13
▶ 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 | 6G | 60° | C | Vap Bright TiN | R40
Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.115

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	Kl	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		TBE07316	TCE07316	TDE07316	10	80	30	6	4.9	8	3	5
M7 × 1		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		TBE07546	TCE07546	TDE07546	20	110	44	11	9	12	3	12
M16 × 2		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		TBE07786	TCE07786	TDE07786	30	160	60	18	14.5	17	4	21
M27 × 3		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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

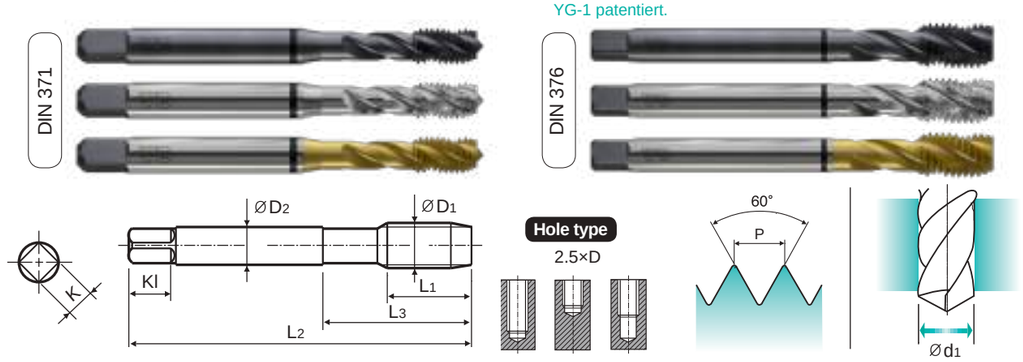
Vap **TBE08** SERIES
Bright **TCE08** SERIES
TiN **TDE08** SERIES

M ISO Metric coarse threads DIN 13

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

▶ 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 | 7G | 60° | C | Vap Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.115

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	Kl	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	TBE08316	TCE08316	TDE08316	10	80	30	6	4.9	8	3	5
M7	× 1	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	TBE08546	TCE08546	TDE08546	20	110	44	11	9	12	3	12
M16	× 2	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	TBE08786	TCE08786	TDE08786	30	160	60	18	14.5	17	4	21
M27	× 3	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																			
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

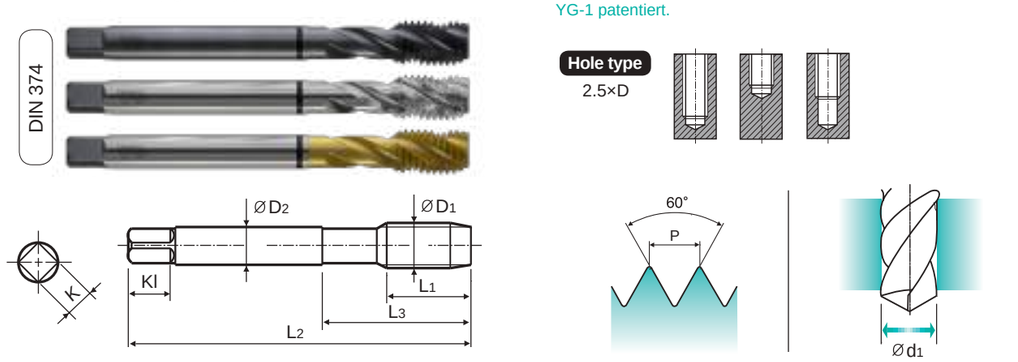
Vap **TB844** SERIES
Bright **TC844** SERIES
TiN **TD844** SERIES

MF ISO Metric fine threads DIN 13

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

▶ 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 | 6H | 60° | C | Vap Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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

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

COMBO TAPS

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

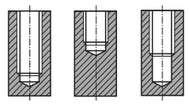
MF ISO Metric fine threads DIN 13

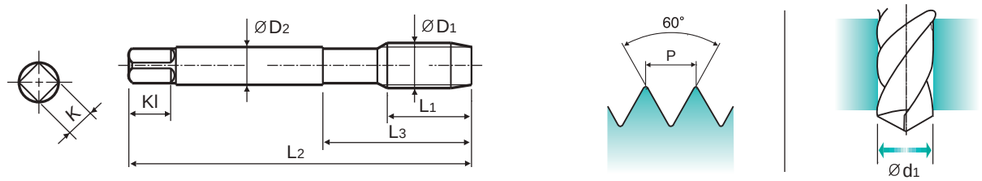
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

▶ 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.

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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	Kl	Z	Ød1
M24 × 2		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		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		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

* The other coating(TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

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

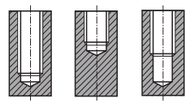
MF ISO Metric fine threads DIN 13

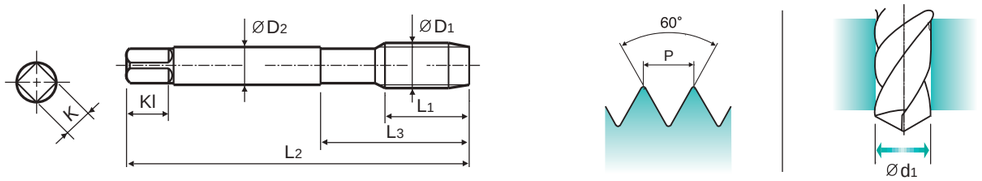
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

▶ 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.

Hole type
2.5×D





Material groups MU | HSS-E | DIN 374 | 6G | 60° | C | Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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	Kl	Z	Ød1
M4 × 0.5		TCE09256	TDE09256	5	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TCE09296	TDE09296	5	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TCE09326	TDE09326	8	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TCE09336	TDE09336	5	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TCE09356	TDE09356	10	80	30	5.5	4.3	7	3	6.2
M8 × 1		TCE09376	TDE09376	10	90	36	6	4.9	8	3	7
M8 × 0.75		TCE09386	TDE09386	8	80	30	6	4.9	8	3	7.2
M10 × 1.25		TCE09436	TDE09436	16	100	40	7	5.5	8	3	8.8
M10 × 1		TCE09446	TDE09446	10	90	36	7	5.5	8	3	9
M10 × 0.75		TCE09456	TDE09456	10	90	36	7	5.5	8	3	9.2
M12 × 1.5		TCE09516	TDE09516	15	100	40	9	7	10	3	10.5
M12 × 1.25		TCE09526	TDE09526	15	100	40	9	7	10	3	10.8
M12 × 1		TCE09536	TDE09536	11	100	40	9	7	10	3	11
M14 × 1.5		TCE09556	TDE09556	15	100	40	11	9	12	3	12.5
M14 × 1.25		TCE09566	TDE09566	15	100	40	11	9	12	3	12.8
M14 × 1		TCE09576	TDE09576	11	100	40	11	9	12	3	13
M16 × 1.5		TCE09616	TDE09616	15	100	40	12	9	12	3	14.5
M16 × 1		TCE09626	TDE09626	12	100	40	12	9	12	3	15
M18 × 1.5		TCE09676	TDE09676	17	110	44	14	11	14	4	16.5
M18 × 1		TCE09686	TDE09686	13	110	44	14	11	14	4	17
M20 × 1.5		TCE09726	TDE09726	17	125	50	16	12	15	4	18.5
M20 × 1		TCE09736	TDE09736	14	125	50	16	12	15	4	19
M22 × 1.5		TCE09766	TDE09766	17	125	50	18	14.5	17	4	20.5
M22 × 1		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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

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

MF ISO Metric fine threads DIN 13

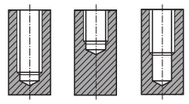
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

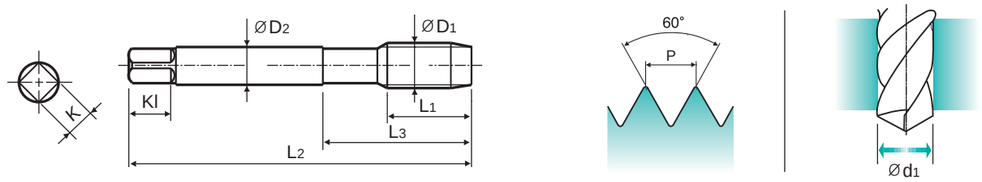
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

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

DIN 374

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

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	Kl	Z	Ød1
M24	× 2	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	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	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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

TC804-IC SERIES

M ISO Metric coarse threads DIN 13

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

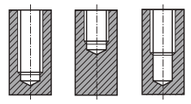
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

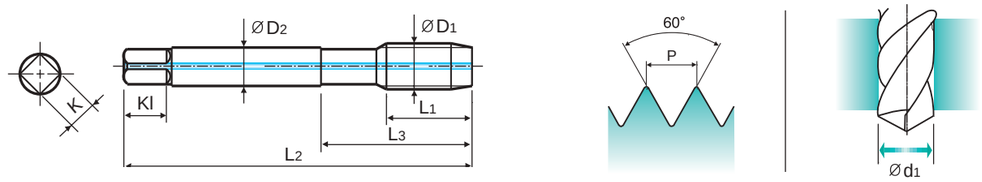
▶ Für vielfältigen Einsatz, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 371
DIN 376

with Internal Coolant

Hole type
2.5×D





Material groups **MU** | HSS-E | DIN 371/376 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.115

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M6	× 1	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	TC804546IC	20	110	44	11	9	12	3	12
M16	× 2	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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	250	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

TC807 SERIES

M ISO Metric coarse threads DIN 13

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

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

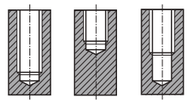
▶ Für vielfältigen Einsatz, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

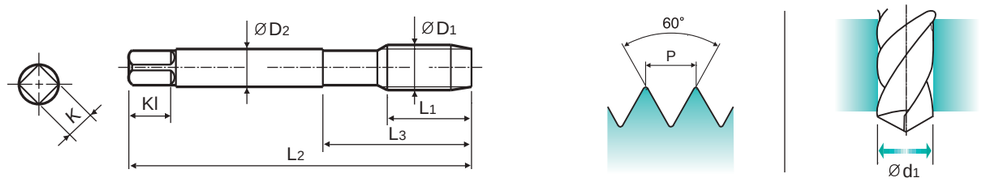
DIN 371

DIN 376

Short Chamfer

Hole type 2.5×D





Material groups **MU** | HSS-E | DIN 371/376 | 6H | 60° | E | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.115

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		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		TC807316	10	80	30	6	4.9	8	3	5
M7 × 1		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		TC807546	20	110	44	11	9	12	3	12
M16 × 2		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		TC807786	30	160	60	18	14.5	17	4	21
M27 × 3		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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

TC633 SERIES

M ISO Metric coarse threads DIN 13

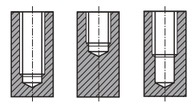
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

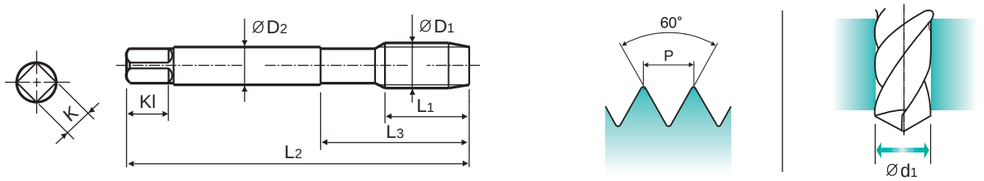
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

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

Long Shank

Hole type 2.5×D





Material groups **MU** | HSS-E | LONG | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.115

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
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		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		TC633546	26	220	44	11	9	12	3	12
M16 × 2		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.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

TQ744 SERIES
TB744 SERIES

M ISO Metric coarse threads DIN 13

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

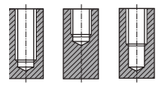
▶ For stainless steels and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

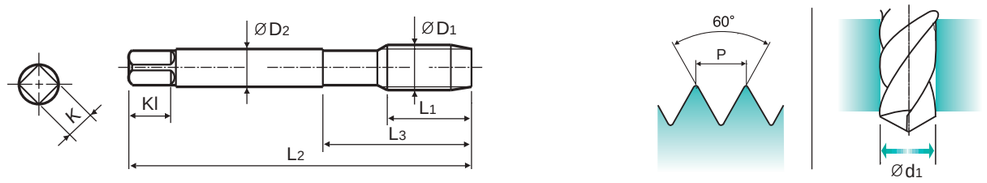
▶ Für rostfreie stähle, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **VA** | up to M12 | over M12 | **HSS-PM** | **HSS-E** | **DIN 371/376** | **6H** | 60° | **C** | **Vap** | **R45**

Machine taps
Maschinen-gewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TQ744136	8	45	13	2.8	2.1	5	2	1.6
M2.2 × 0.45		TQ744156	8	45	13	2.8	2.1	5	2	1.75
M2.3 × 0.4		TQ744196	8	45	13	2.8	2.1	5	2	1.9
M2.5 × 0.45		TQ744176	9	50	15	2.8	2.1	5	2	2.05
M2.6 × 0.45		TQ744496	9	50	15	2.8	2.1	5	2	2.1
M3 × 0.5		TQ744206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TQ744226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TQ744246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TQ744266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TQ744286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TQ744316	10	80	30	6	4.9	8	3	5
M7 × 1		TQ744346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TQ744366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TQ744396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TQ744426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TQ744466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TQ744506	18	110	44	9	7	10	3	10.2
M14 × 2		TB744546	20	110	44	11	9	12	3	12
M16 × 2		TB744606	20	110	44	12	9	12	3	14
M18 × 2.5		TB744656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TB744706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TB744746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TB744786	30	160	60	18	14.5	17	4	21
M27 × 3		TB744866	30	160	60	20	16	19	4	24
M30 × 3.5		TB744946	35	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)
▶HSS-PM(M2~M12/TQ744) and HSS-E(M14~M30/TB744)
* Coating(TiN, TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

TQ754 SERIES

MF ISO Metric fine threads DIN 13

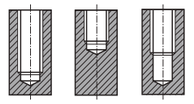
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

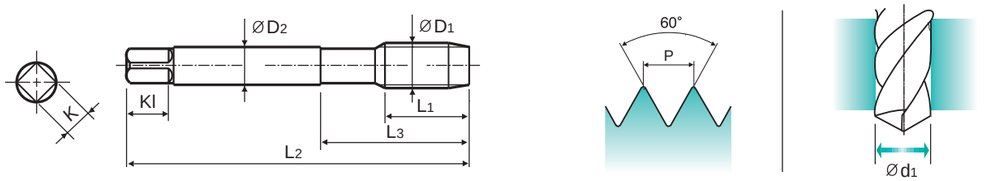
▶ For stainless steels and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

▶ Für rostfreie stähle, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 374

Hole type
2.5×D





Material groups **VA** | **HSS-PM** | **DIN 374** | **6H** | 60° | **C** | **Vap** | **R45**

Machine taps
Maschinen-gewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4 × 0.5		TQ754256	5	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TQ754296	5	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TQ754326	8	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TQ754336	5	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TQ754356	10	80	30	5.5	4.3	7	3	6.2
M8 × 1		TQ754376	10	90	36	6	4.9	8	3	7
M8 × 0.75		TQ754386	8	80	30	6	4.9	8	3	7.2
M10 × 1.25		TQ754436	16	100	40	7	5.5	8	3	8.8
M10 × 1		TQ754446	10	90	36	7	5.5	8	3	9
M10 × 0.75		TQ754456	10	90	36	7	5.5	8	3	9.2
M12 × 1.5		TQ754516	15	100	40	9	7	10	3	10.5
M12 × 1.25		TQ754526	15	100	40	9	7	10	3	10.8
M12 × 1		TQ754536	11	100	40	9	7	10	3	11

* Coating(TiN, TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

TB754 SERIES

MF — ISO Metric fine threads DIN 13

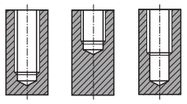
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo fine DIN 13

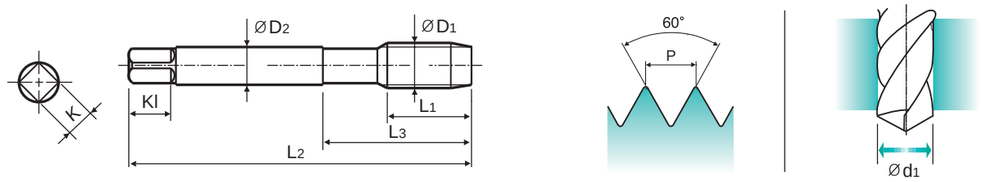
▶ For stainless steels and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

▶ Für rostfreie stähle, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 374

Hole type
2.5×D





Material groups **VA** | HSS-E | DIN 374 | 6H | 60° | C | Vap | R45

Machine taps
Maschinen-gewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M14 × 1.5		**TB754556**	15	100	40	11	9	12	3	12.5
M14 × 1.25		**TB754566**	15	100	40	11	9	12	3	12.8
M14 × 1		**TB754576**	11	100	40	11	9	12	3	13
M16 × 1.5		**TB754616**	15	100	40	12	9	12	3	14.5
M16 × 1		**TB754626**	12	100	40	12	9	12	3	15
M18 × 1.5		**TB754676**	17	110	44	14	11	14	4	16.5
M18 × 1		**TB754686**	13	110	44	14	11	14	4	17
M20 × 1.5		**TB754726**	17	125	50	16	12	15	4	18.5
M20 × 1		**TB754736**	14	125	50	16	12	15	4	19
M22 × 1.5		**TB754766**	17	125	50	18	14.5	17	4	20.5
M22 × 1		**TB754776**	14	125	50	18	14.5	17	4	21
M24 × 2		**TB754796**	20	140	54	18	14.5	17	4	22
M24 × 1.5		**TB754806**	20	140	54	18	14.5	17	4	22.5
M26 × 1.5		**TB754856**	20	140	54	18	14.5	17	4	24.5
M27 × 2		**TB754876**	20	140	54	20	16	19	4	25
M27 × 1.5		**TB754886**	20	140	54	20	16	19	4	25.5
M28 × 1.5		**TB754916**	20	140	54	20	16	19	4	26.5
M30 × 2		**TB754966**	22	150	57	22	18	21	4	28
M30 × 1.5		**TB754976**	22	150	57	22	18	21	4	28.5

* Coating(TiN, TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

Vap **TB824** SERIES
Bright **TC824** SERIES
TiN **TD824** SERIES

UNC — Unified coarse threads

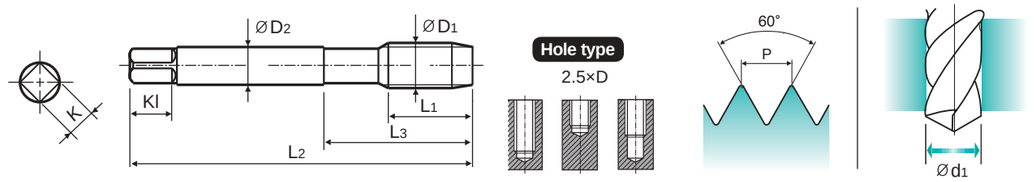
- Unified Grobgewinde
- UNC
- Unificato passo fine

▶ 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.

DIN 371

DIN 376



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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

Unit : mm

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Vap	Bright	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	– 40 UNC	**TB824162**	**TC824162**	**TD824162**	6	56	18	3.5	2.7	6	3	2.3
#5	– 40 UNC	**TB824202**	**TC824202**	**TD824202**	7	56	18	3.5	2.7	6	3	2.6
#6	– 32 UNC	**TB824242**	**TC824242**	**TD824242**	7	56	20	4	3	6	3	2.85
#8	– 32 UNC	**TB824282**	**TC824282**	**TD824282**	8	63	21	4.5	3.4	6	3	3.5
#10	– 24 UNC	**TB824322**	**TC824322**	**TD824322**	10	70	25	6	4.9	8	3	3.9
#12	– 24 UNC	**TB824362**	**TC824362**	**TD824362**	10	80	30	6	4.9	8	3	4.5
1/4	– 20 UNC	**TB824402**	**TC824402**	**TD824402**	13	80	30	7	5.5	8	3	5.2
5/16	– 18 UNC	**TB824442**	**TC824442**	**TD824442**	14	90	35	8	6.2	9	3	6.6
3/8	– 16 UNC	**TB824482**	**TC824482**	**TD824482**	16	100	39	9	7	10	3	8
7/16	– 14 UNC	**TB824522**	**TC824522**	**TD824522**	17	100	40	8	6.2	9	3	9.4
1/2	– 13 UNC	**TB824562**	**TC824562**	**TD824562**	20	110	44	9	7	10	3	10.75
9/16	– 12 UNC	**TB824602**	**TC824602**	**TD824602**	20	110	44	11	9	12	3	12.25
5/8	– 11 UNC	**TB824642**	**TC824642**	**TD824642**	22	110	44	12	9	12	3	13.5
3/4	– 10 UNC	**TB824702**	**TC824702**	**TD824702**	25	125	50	14	11	14	4	16.5
7/8	– 9 UNC	**TB824742**	**TC824742**	**TD824742**	27	140	54	18	14.5	17	4	19.5
1	– 8 UNC	**TB824782**	**TC824782**	**TD824782**	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) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

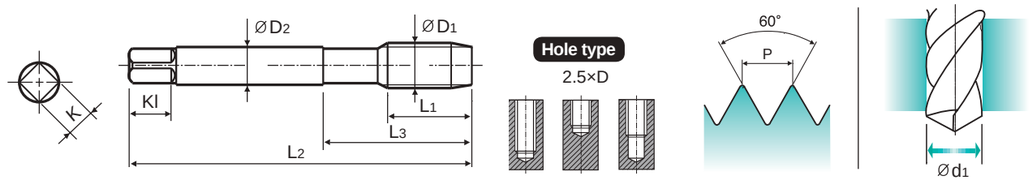
Bright **TCE01** SERIES
TiN **TDE01** SERIES

UNC Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo fine

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

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



Material groups **MU** | HSS-E | DIN 371/376 | 3B | 60° | C | Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

Unit : mm

SIZE		TPI	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1			Bright	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	–	40 UNC	TCE01162	TDE01162	6	56	18	3.5	2.7	6	3	2.3
#5	–	40 UNC	TCE01202	TDE01202	7	56	18	3.5	2.7	6	3	2.6
#6	–	32 UNC	TCE01242	TDE01242	7	56	20	4	3	6	3	2.85
#8	–	32 UNC	TCE01282	TDE01282	8	63	21	4.5	3.4	6	3	3.5
#10	–	24 UNC	TCE01322	TDE01322	10	70	25	6	4.9	8	3	3.9
#12	–	24 UNC	TCE01362	TDE01362	10	80	30	6	4.9	8	3	4.5
1/4	–	20 UNC	TCE01402	TDE01402	13	80	30	7	5.5	8	3	5.2
5/16	–	18 UNC	TCE01442	TDE01442	14	90	35	8	6.2	9	3	6.6
3/8	–	16 UNC	TCE01482	TDE01482	16	100	39	9	7	10	3	8
7/16	–	14 UNC	TCE01522	TDE01522	17	100	40	8	6.2	9	3	9.4
1/2	–	13 UNC	TCE01562	TDE01562	20	110	44	9	7	10	3	10.75
9/16	–	12 UNC	TCE01602	TDE01602	20	110	44	11	9	12	3	12.25
5/8	–	11 UNC	TCE01642	TDE01642	22	110	44	12	9	12	3	13.5
3/4	–	10 UNC	TCE01702	TDE01702	25	125	50	14	11	14	4	16.5
7/8	–	9 UNC	TCE01742	TDE01742	27	140	54	18	14.5	17	4	19.5
1	–	8 UNC	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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

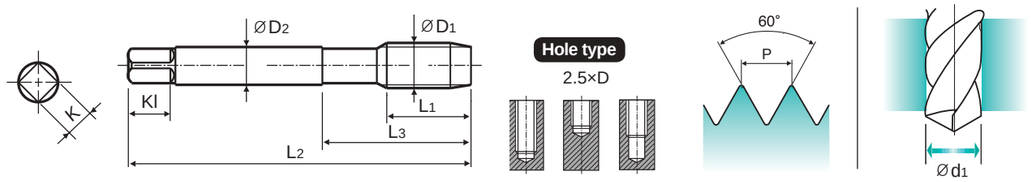
Vap **TB864** SERIES
Bright **TC864** SERIES
TiN **TD864** SERIES

UNF Unified fine threads

- Unified Grobgewinde
- UNF
- Unificato passo fine

▶ 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° | C | Vap Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

Unit : mm

SIZE		TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1			Vap	Bright	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	–	48UNF	TB864182	TC864182	TD864182	6	56	18	3.5	2.7	6	3	2.4
#5	–	44UNF	TB864222	TC864222	TD864222	7	56	18	3.5	2.7	6	3	2.7
#6	–	40UNF	TB864262	TC864262	TD864262	7	56	20	4	3	6	3	3
#8	–	36UNF	TB864302	TC864302	TD864302	8	63	21	4.5	3.4	6	3	3.5
#10	–	32UNF	TB864342	TC864342	TD864342	10	70	25	6	4.9	8	3	4.1
#12	–	28UNF	TB864382	TC864382	TD864382	10	80	30	6	4.9	8	3	4.7
1/4	–	28UNF	TB864422	TC864422	TD864422	10	80	30	7	5.5	8	3	5.5
5/16	–	24UNF	TB864462	TC864462	TD864462	10	90	35	8	6.2	9	3	6.9
3/8	–	24UNF	TB864502	TC864502	TD864502	10	100	39	9	7	10	3	8.5
7/16	–	20UNF	TB864542	TC864542	TD864542	13	100	40	8	6.2	9	3	9.9
1/2	–	20UNF	TB864582	TC864582	TD864582	13	100	40	9	7	10	3	11.5
9/16	–	18UNF	TB864622	TC864622	TD864622	15	100	40	11	9	12	3	12.9
5/8	–	18UNF	TB864662	TC864662	TD864662	15	100	40	12	9	12	3	14.5
3/4	–	16UNF	TB864722	TC864722	TD864722	17	110	44	14	11	14	4	17.5
7/8	–	14UNF	TB864762	TC864762	TD864762	17	125	50	18	14.5	17	4	20.5
1	–	12UNF	TB864802	TC864802	TD864802	20	140	54	20	16	19	4	23.25

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

◎ : Excellent ○ : Good

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

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

COMBO TAPS

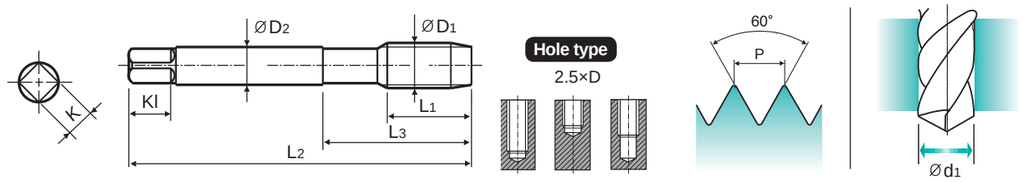
Bright **TCE02** SERIES
TiN **TDE02** SERIES

UNF — Unified fine threads

- Unified Grobgewinde
- UNF
- Unificato passo fine

▶ 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 | 3B | 60° | C | Bright TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.114

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

COMBO TAPS

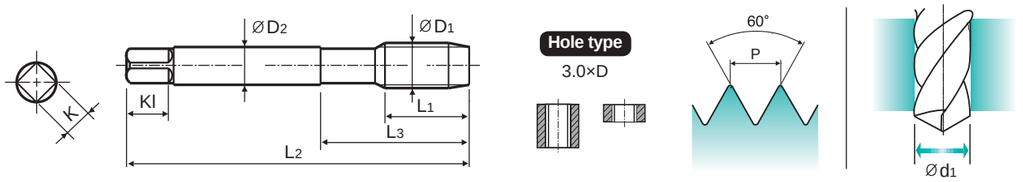
Vap **TB814** SERIES
Bright **TC814** SERIES
TiN **TD814** SERIES

M — ISO Metric coarse threads DIN 13

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

▶ 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 | Vap Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

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	Kl	Z	Ød1
M2	× 0.4	TB814136	TC814136	TD814136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TB814156	TC814156	TD814156	8	45	13	2.8	2.1	5	3	1.75
M2.3	× 0.4	TB814196	TC814196	TD814196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TB814176	TC814176	TD814176	9	50	15	2.8	2.1	5	3	2.05
M2.6	× 0.45	TB814496	TC814496	TD814496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TB814206	TC814206	TD814206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TB814226	TC814226	TD814226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TB814246	TC814246	TD814246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TB814266	TC814266	TD814266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TB814286	TC814286	TD814286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TB814316	TC814316	TD814316	17	80	30	6	4.9	8	3	5
M7	× 1	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	TB814546	TC814546	TD814546	26	110	44	11	9	12	3	12
M16	× 2	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
M24	× 3	TB814786	TC814786	TD814786	34	160	60	18	14.5	17	4	21
M27	× 3	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

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

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

COMBO TAPS

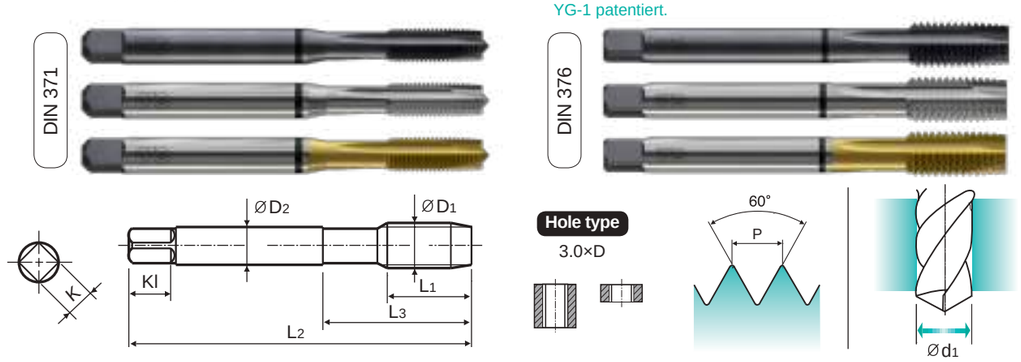
Vap **TBJ05** SERIES
Bright **TCJ05** SERIES
TiN **TDJ05** SERIES

M ISO Metric coarse threads DIN 13

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

▶ 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 | 4H | 60° | B | Vap Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

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	Kl	Z	Ød1
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		TBJ05316	TCJ05316	TDJ05316	17	80	30	6	4.9	8	3	5
M7 × 1		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		TBJ05546	TCJ05546	TDJ05546	26	110	44	11	9	12	3	12
M16 × 2		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		TBJ05786	TCJ05786	TDJ05786	34	160	60	18	14.5	17	4	21
M27 × 3		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

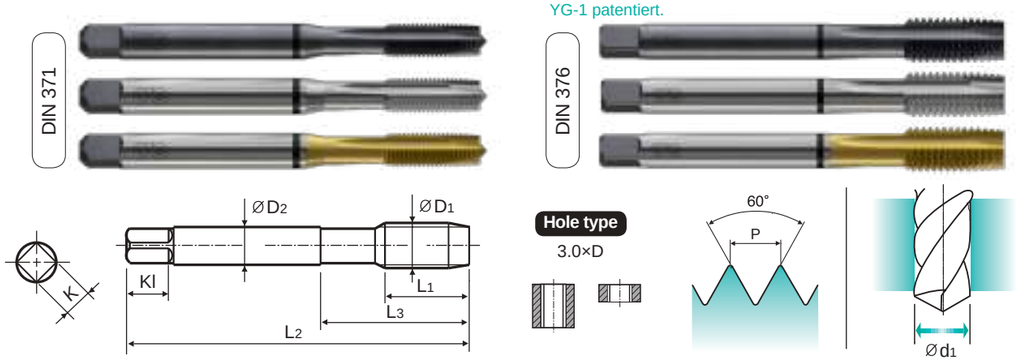
ISO	P																			
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10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

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

COMBO TAPS

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
▶ 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+0.1 | 60° | B | Vap Bright TiN
Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116-117

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	Kl	Z	Ød1
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		TBJ06316	TCJ06316	TDJ06316	17	80	30	6	4.9	8	3	5.1
M7 × 1		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		TBJ06546	TCJ06546	TDJ06546	26	110	44	11	9	12	3	12.1
M16 × 2		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		TBJ06786	TCJ06786	TDJ06786	34	160	60	18	14.5	17	4	21.1
M27 × 3		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																			
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

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

COMBO TAPS

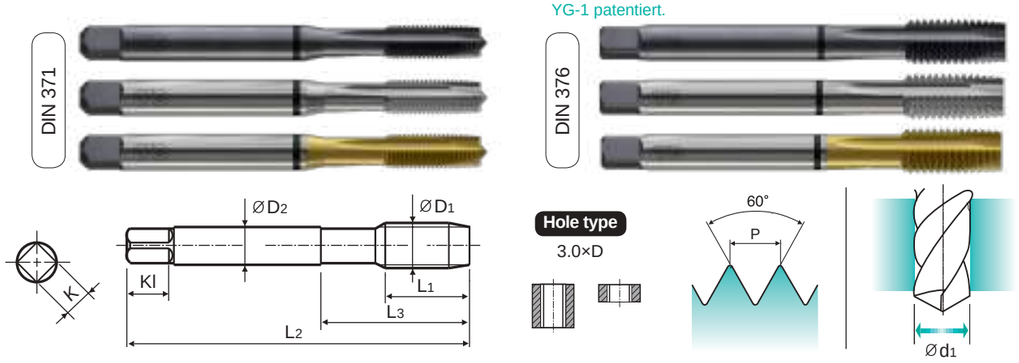
Vap **TBJ07** SERIES
Bright **TCJ07** SERIES
TiN **TDJ07** SERIES

M ISO Metric coarse threads DIN 13

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

▶ 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 | 6G | 60° | B | Vap Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.117

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	Kl	Z	Ød1
M2 × 0.4		TBJ07136	TCJ07136	TDJ07136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBJ07156	TCJ07156	TDJ07156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TBJ07196	TCJ07196	TDJ07196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBJ07176	TCJ07176	TDJ07176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TBJ07496	TCJ07496	TDJ07496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBJ07206	TCJ07206	TDJ07206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBJ07226	TCJ07226	TDJ07226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TBJ07246	TCJ07246	TDJ07246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBJ07266	TCJ07266	TDJ07266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBJ07286	TCJ07286	TDJ07286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TBJ07316	TCJ07316	TDJ07316	17	80	30	6	4.9	8	3	5
M7 × 1		TBJ07346	TCJ07346	TDJ07346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TBJ07366	TCJ07366	TDJ07366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBJ07396	TCJ07396	TDJ07396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TBJ07426	TCJ07426	TDJ07426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TBJ07466	TCJ07466	TDJ07466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBJ07506	TCJ07506	TDJ07506	24	110	44	9	7	10	3	10.2
M14 × 2		TBJ07546	TCJ07546	TDJ07546	26	110	44	11	9	12	3	12
M16 × 2		TBJ07606	TCJ07606	TDJ07606	27	110	44	12	9	12	3	14
M18 × 2.5		TBJ07656	TCJ07656	TDJ07656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TBJ07706	TCJ07706	TDJ07706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TBJ07746	TCJ07746	TDJ07746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TBJ07786	TCJ07786	TDJ07786	34	160	60	18	14.5	17	4	21
M27 × 3		TBJ07866	TCJ07866	TDJ07866	36	160	60	20	16	19	4	24
M30 × 3.5		TBJ07946	TCJ07946	TDJ07946	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

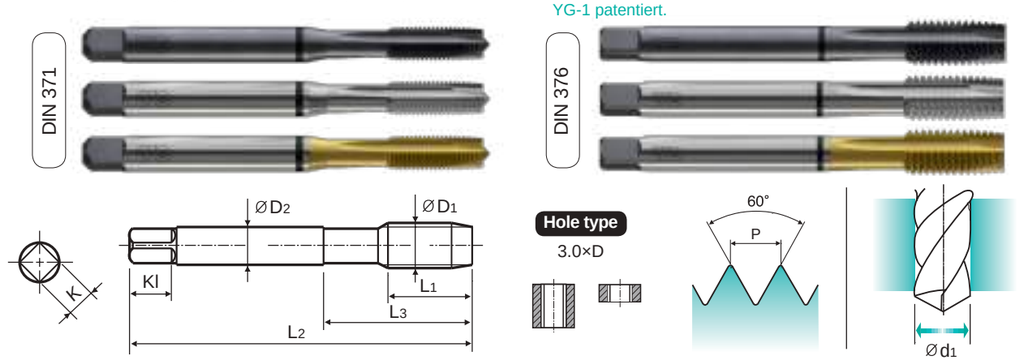
ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10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

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

COMBO TAPS

Vap **TBJ08** SERIES
Bright **TCJ08** SERIES
TiN **TDJ08** SERIES

M ISO Metric coarse threads DIN 13
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13
▶ 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 | 7G | 60° | B | Vap Bright TiN
Machine taps
Maschinengewindebohrer
Recommended Cutting Page : P.117
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	Kl	Z	Ød1
M2 × 0.4		TBJ08136	TCJ08136	TDJ08136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBJ08156	TCJ08156	TDJ08156	8	45	13	2.8	2.1	5	3	1.75
M2.3 × 0.4		TBJ08196	TCJ08196	TDJ08196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBJ08176	TCJ08176	TDJ08176	9	50	15	2.8	2.1	5	3	2.05
M2.6 × 0.45		TBJ08496	TCJ08496	TDJ08496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBJ08206	TCJ08206	TDJ08206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBJ08226	TCJ08226	TDJ08226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TBJ08246	TCJ08246	TDJ08246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBJ08266	TCJ08266	TDJ08266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBJ08286	TCJ08286	TDJ08286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TBJ08316	TCJ08316	TDJ08316	17	80	30	6	4.9	8	3	5
M7 × 1		TBJ08346	TCJ08346	TDJ08346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TBJ08366	TCJ08366	TDJ08366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBJ08396	TCJ08396	TDJ08396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TBJ08426	TCJ08426	TDJ08426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TBJ08466	TCJ08466	TDJ08466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBJ08506	TCJ08506	TDJ08506	24	110	44	9	7	10	3	10.2
M14 × 2		TBJ08546	TCJ08546	TDJ08546	26	110	44	11	9	12	3	12
M16 × 2		TBJ08606	TCJ08606	TDJ08606	27	110	44	12	9	12	3	14
M18 × 2.5		TBJ08656	TCJ08656	TDJ08656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TBJ08706	TCJ08706	TDJ08706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TBJ08746	TCJ08746	TDJ08746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TBJ08786	TCJ08786	TDJ08786	34	160	60	18	14.5	17	4	21
M27 × 3		TBJ08866	TCJ08866	TDJ08866	36	160	60	20	16	19	4	24
M30 × 3.5		TBJ08946	TCJ08946	TDJ08946	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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

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

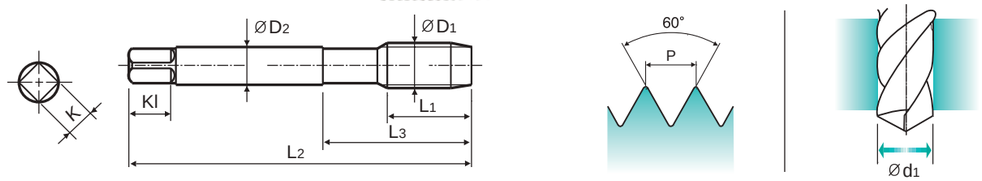
MF ISO Metric fine threads DIN 13

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

▶ 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.

Hole type
3.0×D



Material groups **MU** | HSS-E | DIN 374 | 6H | 60° | B | Vap Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

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	Kl	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		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		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		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		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		TB854686	TC854686	TD854686	20	110	44	14	11	14	4	17

* The other coating(TiCN or TiAlN) is available on your request.

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

COMBO TAPS

Vap TB854 SERIES
Bright TC854 SERIES
TiN TD854 SERIES

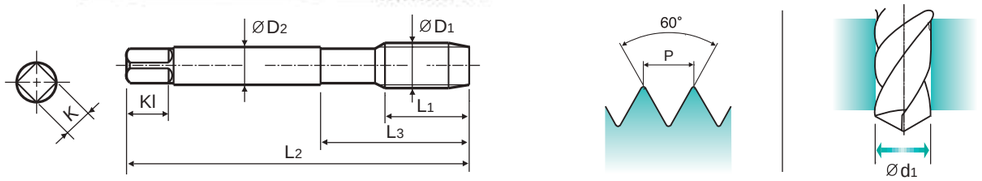
MF ISO Metric fine threads DIN 13

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

▶ 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.

Hole type
3.0×D



Material groups MU | HSS-E | DIN 374 | 6H | 60° | B | Vap Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

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	Kl	Z	Ød1
M20 × 1.5		TB854726	TC854726	TD854726	25	125	50	16	12	15	4	18.5
M20 × 1		TB854736	TC854736	TD854736	20	125	50	16	12	15	4	19
M22 × 1.5		TB854766	TC854766	TD854766	25	125	50	18	14.5	17	4	20.5
M22 × 1		TB854776	TC854776	TD854776	20	125	50	18	14.5	17	4	21
M24 × 2		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		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		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

* The other coating(TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

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

MF ISO Metric fine threads DIN 13

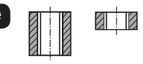
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo grosso DIN 13

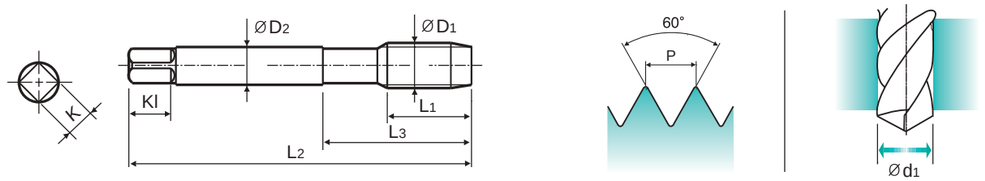
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

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

DIN 374

Hole type
3.0×D





Material groups **MU** | HSS-E | DIN 374 | 6G | 60° | B | Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

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	Kl	Z	Ød1
M4 × 0.5		TCJ09256	TDJ09256	10	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TCJ09296	TDJ09296	11	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TCJ09326	TDJ09326	13	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TCJ09336	TDJ09336	13	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TCJ09356	TDJ09356	14	80	30	5.5	4.3	7	3	6.2
M8 × 1		TCJ09376	TDJ09376	17	90	36	6	4.9	8	3	7
M8 × 0.75		TCJ09386	TDJ09386	14	80	30	6	4.9	8	3	7.2
M10 × 1.25		TCJ09436	TDJ09436	22	100	40	7	5.5	8	3	8.8
M10 × 1		TCJ09446	TDJ09446	18	90	36	7	5.5	8	3	9
M10 × 0.75		TCJ09456	TDJ09456	18	90	36	7	5.5	8	3	9.2
M12 × 1.5		TCJ09516	TDJ09516	22	100	40	9	7	10	3	10.5
M12 × 1.25		TCJ09526	TDJ09526	22	100	40	9	7	10	3	10.8
M12 × 1		TCJ09536	TDJ09536	18	100	40	9	7	10	3	11
M14 × 1.5		TCJ09556	TDJ09556	22	100	40	11	9	12	3	12.5
M14 × 1.25		TCJ09566	TDJ09566	22	100	40	11	9	12	3	12.8
M14 × 1.0		TCJ09576	TDJ09576	22	100	40	11	9	12	3	13
M16 × 1.5		TCJ09616	TDJ09616	22	100	40	12	9	12	3	14.5
M16 × 1		TCJ09626	TDJ09626	18	100	40	12	9	12	3	15
M18 × 1.5		TCJ09676	TDJ09676	25	110	44	14	11	14	4	16.5
M18 × 1		TCJ09686	TDJ09686	20	110	44	14	11	14	4	17

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

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

COMBO TAPS

Bright TCJ09 SERIES
TiN TDJ09 SERIES

MF ISO Metric fine threads DIN 13

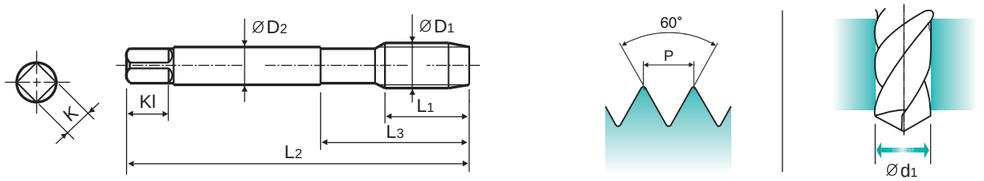
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo grosso DIN 13

▶ 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.

DIN 374

Hole type
3.0×D



Material groups MU | HSS-E | DIN 374 | 6G | 60° | B | Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

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	Kl	Z	Ød1
M20 × 1.5		TCJ09726	TDJ09726	25	125	50	16	12	15	4	18.5
M20 × 1		TCJ09736	TDJ09736	20	125	50	16	12	15	4	19
M22 × 1.5		TCJ09766	TDJ09766	25	125	50	18	14.5	17	4	20.5
M22 × 1		TCJ09776	TDJ09776	20	125	50	18	14.5	17	4	21
M24 × 2		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		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		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	P																			
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

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

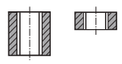
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

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

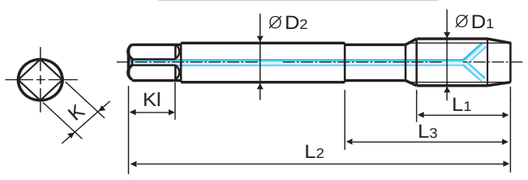
DIN 371

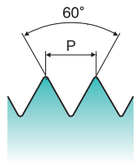
DIN 376

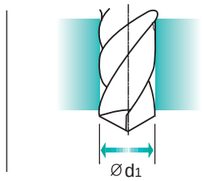
Hole type
3.0×D



with Internal Coolant







Material groups **MU** | HSS-E | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.117

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		L2	L3	ØD2	K	Kl	Z	Ød1
M6	× 1	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	TC814546IC	26	110	44	11	9	12	3	12
M16	× 2	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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

TC445 SERIES

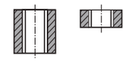
M ISO Metric coarse threads DIN 13

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

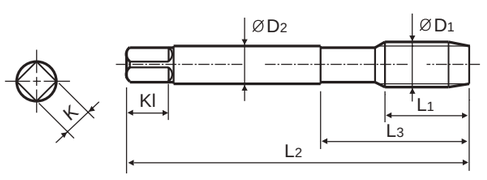
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

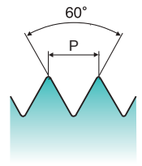
▶ Für vielfältigen Einsatz, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

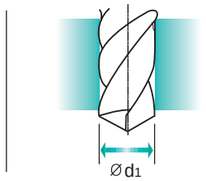
Hole type
3.0×D



Long Shank







Material groups **MU** | HSS-E | LONG | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.117

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		L2	L3	ØD2	K	Kl	Z	Ød1
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	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	TC445546	26	220	44	11	9	12	3	12
M16	× 2	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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

TQ428 SERIES
TB428 SERIES

M ISO Metric coarse threads DIN 13

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

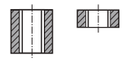
▶ For stainless steels and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

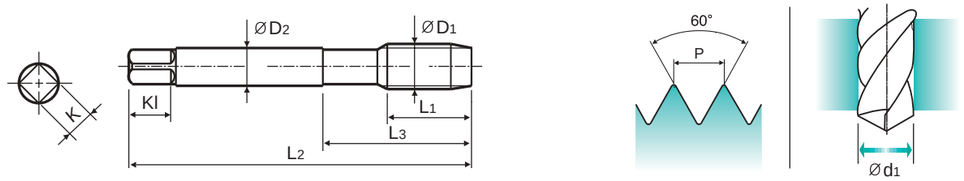
▶ Für rostfreie stähle, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **VA** | up to M12 / over M12 | **HSS-PM** | **HSS-E** | **DIN 371/376** | **6H** | 60° | **B** | **Vap**

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.117

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TQ428136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TQ428156	8	45	13	2.8	2.1	5	3	1.75
M2.3	× 0.4	TQ428196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TQ428176	9	50	15	2.8	2.1	5	3	2.05
M2.6	× 0.45	TQ428496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TQ428206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TQ428226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TQ428246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TQ428266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TQ428286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TQ428316	17	80	30	6	4.9	8	3	5
M7	× 1	TQ428346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TQ428366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TQ428396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TQ428426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TQ428466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TQ428506	24	110	44	9	7	10	3	10.2
M14	× 2	TB428546	26	110	44	11	9	12	3	12
M16	× 2	TB428606	27	110	44	12	9	12	3	14
M18	× 2.5	TB428656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TB428706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TB428746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TB428786	34	160	60	18	14.5	17	4	21
M27	× 3	TB428866	36	160	60	20	16	19	4	24
M30	× 3.5	TB428946	40	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)
▶HSS-PM(M2~M12/TQ428) and HSS-E(M14~M30/TB428)

* Coating(TiN, TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

TQ438 SERIES

MF ISO Metric fine threads DIN 13

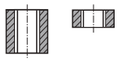
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo grosso DIN 13

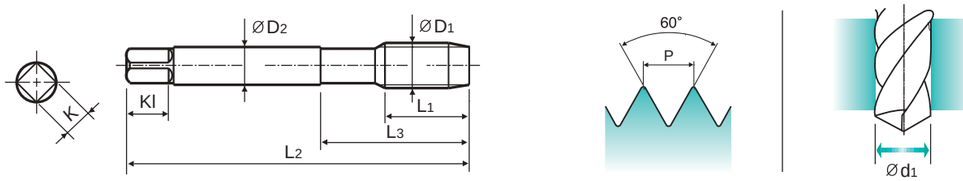
▶ For stainless steels and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

▶ Für rostfreie stähle, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 374

Hole type
3.0×D





Material groups **VA** | **HSS-PM** | **DIN 374** | **6H** | 60° | **B** | **Vap**

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.117

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	TQ438256	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TQ438296	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TQ438326	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TQ438336	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TQ438356	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	TQ438376	17	90	36	6	4.9	8	3	7
M8	× 0.75	TQ438386	14	80	30	6	4.9	8	3	7.2
M10	× 1.25	TQ438436	22	100	40	7	5.5	8	3	8.8
M10	× 1	TQ438446	18	90	36	7	5.5	8	3	9
M10	× 0.75	TQ438456	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	TQ438516	22	100	40	9	7	10	3	10.5
M12	× 1.25	TQ438526	22	100	40	9	7	10	3	10.8
M12	× 1	TQ438536	18	100	40	9	7	10	3	11

* Coating(TiN, TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

TB438 SERIES

MF ISO Metric fine threads DIN 13

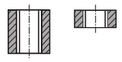
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo grosso DIN 13

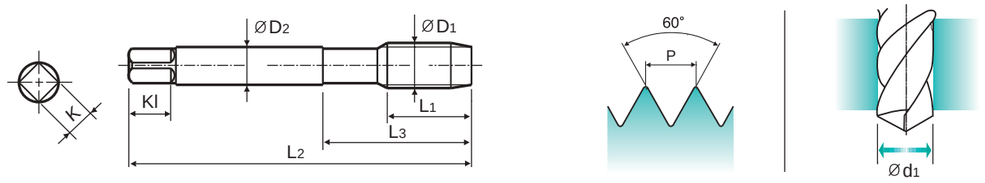
▶ For stainless steels and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

▶ Für rostfreie stähle, genaue Gewindeprofile und lange Standzeitendank einer besonderen Schneidengeometrie. Von YG-1 patentiert.

DIN 374

Hole type
3.0×D





Material groups **VA** | HSS-E | DIN 374 | 6H | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.117

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M14 × 1.5		**TB438556**	22	100	40	11	9	12	3	12.5
M14 × 1.25		**TB438566**	22	100	40	11	9	12	3	12.8
M14 × 1.0		**TB438576**	22	100	40	11	9	12	3	13
M16 × 1.5		**TB438616**	22	100	40	12	9	12	3	14.5
M16 × 1		**TB438626**	18	100	40	12	9	12	3	15
M18 × 1.5		**TB438676**	25	110	44	14	11	14	4	16.5
M18 × 1		**TB438686**	20	110	44	14	11	14	4	17
M20 × 1.5		**TB438726**	25	125	50	16	12	15	4	18.5
M20 × 1		**TB438736**	20	125	50	16	12	15	4	19
M22 × 1.5		**TB438766**	25	125	50	18	14.5	17	4	20.5
M22 × 1		**TB438776**	20	125	50	18	14.5	17	4	21
M24 × 2		**TB438796**	27	140	54	18	14.5	17	4	22
M24 × 1.5		**TB438806**	27	140	54	18	14.5	17	4	22.5
M26 × 1.5		**TB438856**	28	140	54	18	14.5	17	4	24.5
M27 × 2		**TB438876**	28	140	54	20	16	19	4	25
M27 × 1.5		**TB438886**	28	140	54	20	16	19	4	25.5
M28 × 1.5		**TB438916**	28	140	54	20	16	19	4	26.5
M30 × 2		**TB438966**	30	150	57	22	18	21	4	28
M30 × 1.5		**TB438976**	30	150	57	22	18	21	4	28.5

* Coating(TiN, TiCN or TiAlN) is available on your request.

◎ : Excellent ○ : Good

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

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

COMBO TAPS

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

UNC Unified coarse threads

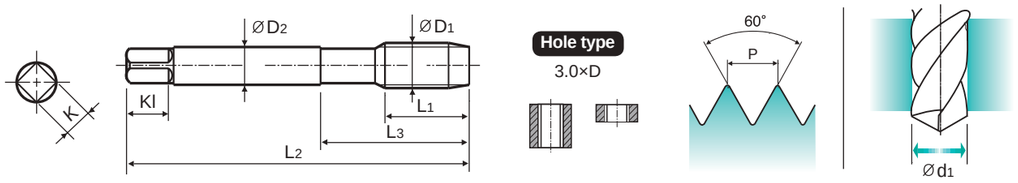
- Unified Grobgewinde
- UNC
- Unificato passo grosso

▶ 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.

DIN 371

DIN 376



Material groups **MU** | HSS-E | DIN 371/376 | 2B | 60° | B | Vap Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Vap	Bright	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#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	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

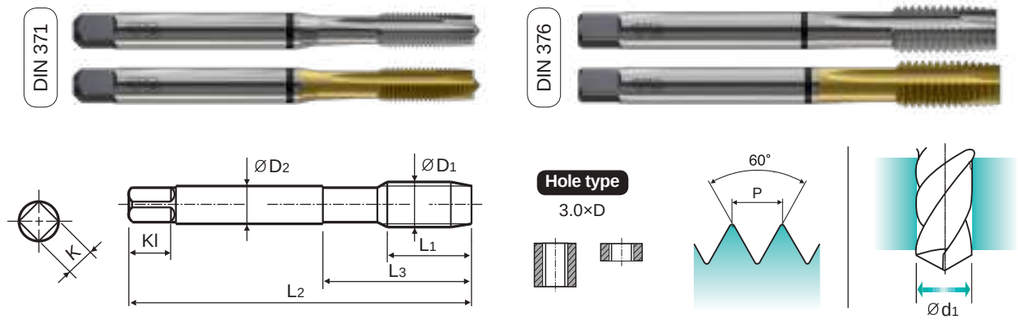
Bright **TCJ01** SERIES
TiN **TDJ01** SERIES

UNC — Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

▶ 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 | Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE	TPI	EDP No.		Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

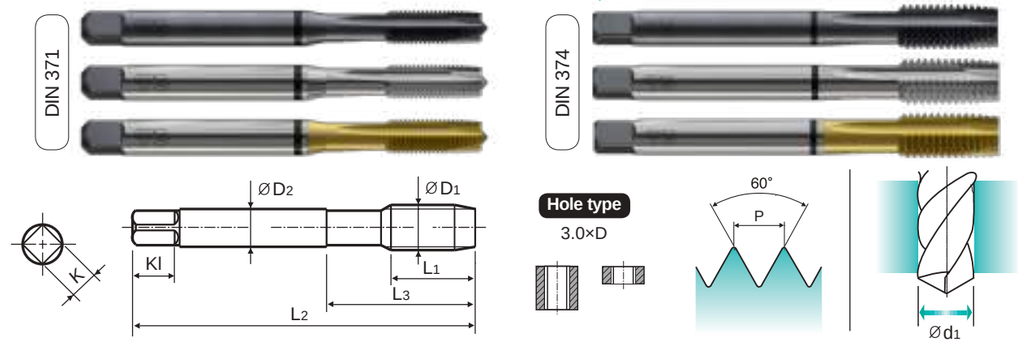
Vap **TB874** SERIES
Bright **TC874** SERIES
TiN **TD874** SERIES

UNF — Unified fine threads

- Unified Feingewindea
- UNF
- Unificato passo grosso

▶ 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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE	TPI	EDP No.			Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Vap	Bright	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

COMBO TAPS

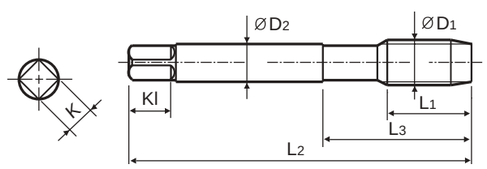
Bright **TCJ02** SERIES
TiN **TDJ02** SERIES

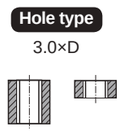
UNF Unified fine threads

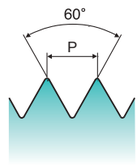
- Unified Grobgewinde
- UNF
- Unificato passo grosso

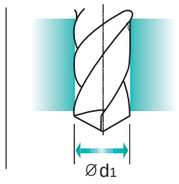
▶ For using multi-purpose and correct thread profiles & long tool life due to special tap geometry. YG-1 company has a patent.

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









Material groups **MU** | HSS-E | DIN 371/374 | 3B | 60° | B | Bright TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.116

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	EDP No. TiN	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	- 48 UNF	TCJ02182	TDJ02182	11	56	18	3.5	2.7	6	3	2.4
#5	- 44 UNF	TCJ02222	TDJ02222	11	56	18	3.5	2.7	6	3	2.7
#6	- 40 UNF	TCJ02262	TDJ02262	12	56	20	4	3	6	3	3
#8	- 36 UNF	TCJ02302	TDJ02302	13	63	21	4.5	3.4	6	3	3.5
#10	- 32 UNF	TCJ02342	TDJ02342	15	70	25	6	4.9	8	3	4.1
#12	- 28 UNF	TCJ02382	TDJ02382	16	80	30	6	4.9	8	3	4.7
1/4	- 28 UNF	TCJ02422	TDJ02422	17	80	30	7	5.5	8	3	5.5
5/16	- 24 UNF	TCJ02462	TDJ02462	17	90	35	8	6.2	9	3	6.9
3/8	- 24 UNF	TCJ02502	TDJ02502	18	100	39	9	7	10	3	8.5
7/16	- 20 UNF	TCJ02542	TDJ02542	22	100	40	8	6.2	9	3	9.9
1/2	- 20 UNF	TCJ02582	TDJ02582	22	100	40	9	7	10	3	11.5
9/16	- 18 UNF	TCJ02622	TDJ02622	22	100	40	11	9	12	3	12.9
5/8	- 18 UNF	TCJ02662	TDJ02662	22	100	40	12	9	12	3	14.5
3/4	- 16 UNF	TCJ02722	TDJ02722	25	110	44	14	11	14	4	17.5
7/8	- 14 UNF	TCJ02762	TDJ02762	26	125	50	18	14.5	17	4	20.5
1	- 12 UNF	TCJ02802	TDJ02802	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					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	◎	◎	◎	◎	◎	◎	◎	○		◎	◎	◎	◎	◎	◎	◎		

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

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

COMBO TAPS

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	14pcs
	DLGP195	TiN	2.5	3.3	4.2	5	6.8	8.5	10.2	

COMBO TAPS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	TC804 TC844 TC824 TC864	TD804 TD844 TD824 TD864	TB804 TB844 TB824 TB864	TCE05 TCE09 TCE01 TCE02	TDE05 TDE09 TDE01 TDE02	TBE05	TCE06	TDE06
					Vc (m/min)							
P	1	Non-alloy steel	125		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25
	2		190	13	15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25
	3		250	25	12-18	18-24	12-18	12-18	18-24	12-18	12-18	18-24
	4		270	28	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20
	5		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14
	6	Low alloy steel	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20
	7		275	29	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20
	8		300	32	6-10	10-14	6-10	6-10	10-14	6-10	6-10	10-14
	9		350	38	3-5	5-7	3-5	3-5	5-7	3-5	3-5	5-7
	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
	11		325	35								
M	12	Stainless steel	200	15	7-10	10-15	7-10	7-10	10-15	7-10	7-10	10-15
	13		240	23	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11
	14		180	10	4-6	6-8	4-6	4-6	6-8	4-6	4-6	6-8
K	15	Grey cast iron	180	10	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20
	16		260	26	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11
	17	Nodular cast iron	160	3	10-15	15-20	10-15	10-15	15-20	10-15	10-15	15-20
	18		250	25	5-8	8-11	5-8	5-8	8-11	5-8	5-8	8-11
	19	Malleable cast iron	130									
	20		230	21								
N	21	Aluminum-wrought alloy	60									
	22		100									
	23	Aluminum-cast, alloyed	75		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25
	24		90									
	25		130									
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	35-40	25-35	25-35	35-40	25-35	25-35	35-40
	27		90		8-12	12-17	8-12	8-12	12-17	8-12	8-12	12-17
	28		100		15-20	20-25	15-20	15-20	20-25	15-20	15-20	20-25
	29	Non Metallic Materials										
	30											
S	31	Heat Resistant Super Alloys	200	15								
	32		280	30								
	33		250	25								
	34		350	38								
	35		320	34								
	36	Titanium Alloys	400 Rm									
	37		1050 Rm									
H	38	Hardened steel	550	55								
	39		630	60								
	40	Chilled Cast Iron	400	42								
	41	Hardened Cast Iron	550	55								

COMBO TAPS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

VDI 3323	TBE06	TCE07	TDE07	TBE07	TCE08	TDE08	TBE08	TC804-IC	TC633	TC807
	Vc (m/min)									
1	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
2	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
3	12-18	12-18	18-24	12-18	12-18	18-24	12-18	12-18	12-18	12-18
4	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
5	6-10	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10	6-10
6	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
7	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
8	6-10	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10	6-10
9	3-5	3-5	5-7	3-5	3-5	5-7	3-5	3-5	3-5	3-5
10	3-5	3-5	5-7	3-5	3-5	5-7	3-5	3-5	3-5	3-5
11										
12	7-10	7-10	10-15	7-10	7-10	10-15	7-10	7-10	7-10	7-10
13	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8
14	4-6	4-6	6-8	4-6	4-6	6-8	4-6	4-6	4-6	4-6
15	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
16	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8
17	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15
18	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8
19										
20										
21										
22										
23	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
24										
25										
26	25-35	25-35	35-40	25-35	25-35	35-40	25-35	25-35	25-35	25-35
27	8-12	8-12	12-17	8-12	8-12	12-17	8-12	8-12	8-12	8-12
28	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										

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

COMBO TAPS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	TB744 TB754 TQ744 TQ754	TC814 TC854 TC834 TC874	TD814 TD854 TD834 TD874	TB814 TB854 TB834 TB874	TCJ05 TCJ09 TCJ01 TCJ02	TDJ05 TDJ09 TDJ01 TDJ02	TBJ05	TCJ06
					Vc (m/min)							
P	1	Non-alloy steel	125			15-20	20-25	15-20	15-20	20-25	15-20	15-20
	2		190	13	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20
	3		250	25		12-18	18-24	12-18	12-18	18-24	12-18	12-18
	4		270	28	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15
	5		300	32		6-10	10-14	6-10	6-10	10-14	6-10	6-10
	6	Low alloy steel	180	10	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15
	7		275	29	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15
	8		300	32		6-10	10-14	6-10	6-10	10-14	6-10	6-10
	9		350	38		3-5	5-7	3-5	3-5	5-7	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
	11		325	35								
M	12	Stainless steel	200	15	7-10	7-10	10-15	7-10	7-10	10-15	7-10	7-10
	13		240	23	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8
	14		180	10	4-6	4-6	6-8	4-6	4-6	6-8	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
	16		260	26		5-8	8-11	5-8	5-8	8-11	5-8	5-8
	17	Nodular cast iron	160	3		10-15	15-20	10-15	10-15	15-20	10-15	10-15
	18		250	25		5-8	8-11	5-8	5-8	8-11	5-8	5-8
	19	Malleable cast iron	130									
	20		230	21								
N	21	Aluminum-wrought alloy	60									
	22		100									
	23	Aluminum-cast, alloyed	75			15-20	20-25	15-20	15-20	20-25	15-20	15-20
	24		90									
	25		130									
	26	Copper and Copper Alloys (Bronze / Brass)	110			25-35	35-40	25-35	25-35	35-40	25-35	25-35
	27		90			8-12	12-17	8-12	8-12	12-17	8-12	8-12
	28		100		15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20
	29	Non Metallic Materials										
	30											
S	31	Heat Resistant Super Alloys	200	15								
	32		280	30								
	33		250	25								
	34		350	38								
	35		320	34								
	36	Titanium Alloys	400 Rm									
	37		1050 Rm									
H	38	Hardened steel	550	55								
	39		630	60								
	40	Chilled Cast Iron	400	42								
	41	Hardened Cast Iron	550	55								

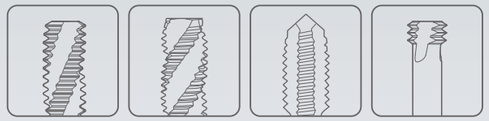
COMBO TAPS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

VDI 3323	TDJ06	TBJ06	TCJ07	TDJ07	TBJ07	TCJ08	TDJ08	TBJ08	TC814-IC	TC445	TB428 TB438	TQ428 TQ438
	Vc (m/min)											
1	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20		
2	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20	15-20
3	18-24	12-18	12-18	18-24	12-18	12-18	18-24	12-18	12-18	12-18		
4	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15	10-15
5	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10		
6	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15	10-15
7	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15	10-15	10-15
8	10-14	6-10	6-10	10-14	6-10	6-10	10-14	6-10	6-10	6-10		
9	5-7	3-5	3-5	5-7	3-5	3-5	5-7	3-5	3-5	3-5		
10	5-7	3-5	3-5	5-7	3-5	3-5	5-7	3-5	3-5	3-5		
11												
12	10-15	7-10	7-10	10-15	7-10	7-10	10-15	7-10	7-10	7-10	7-10	7-10
13	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8	5-8	5-8
14	6-8	4-6	4-6	6-8	4-6	4-6	6-8	4-6	4-6	4-6	4-6	4-6
15	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15		
16	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8		
17	15-20	10-15	10-15	15-20	10-15	10-15	15-20	10-15	10-15	10-15		
18	8-11	5-8	5-8	8-11	5-8	5-8	8-11	5-8	5-8	5-8		
19												
20												
21												
22												
23	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20		
24												
25												
26	35-40	25-35	25-35	35-40	25-35	25-35	35-40	25-35	25-35	25-35		
27	12-17	8-12	8-12	12-17	8-12	8-12	12-17	8-12	8-12	8-12		
28	20-25	15-20	15-20	20-25	15-20	15-20	20-25	15-20	15-20	15-20	15-20	15-20
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												

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

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

HSS & HSS-E

YG TAP GENERAL

YG TAP GENERAL

- **Suitable for Tapping Blind / Through Holes due to Flute Geometry and Excellent Chip Evacuation**
- **Geeignet für das Gewindeschneiden von Grund- und Durchgangsbohrungen aufgrund der Nutengeometrie und der hervorragenden Spanabfuhr**

SELECTION GUIDE

YG THREADING TOOLS

HSS & HSS-E
YG TAP GENERAL

Suitable for Tapping Blind / Through Holes
due to Flute Geometry and Excellent Chip Evacuation

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◎ : Excellent ○ : Good

Recommended cutting conditions : P.161

HOLE TYPE				Max. 2.5xD Blind Hole			Max. 3.0xD Through Hole				Max. 2.0xD Blind/Through Hole		
TOOL MATERIAL				HSS-E			HSS-E						
CHAMFER LEAD ACC. TO DIN2197				C	C	C	B	B	B	B	C	C	
FLUTE TYPE				Spiral Flute	Spiral Flute	Spiral Flute	Spiral Point	Spiral Point	Spiral Point	Spiral Point	Spiral Flute	Straight Flute	
SPIRAL FLUTE ANGLE				R40	R40	R20	-	-	-	-	L20	-	
SERIES	M	DIN371/376		TC711 (P.124)	TD711 (P.125)	TC517 (P.133)	TC127 (P.135)	TD127 (P.136)	TC227 (P.145)	TD227 (P.146)	TC211 (P.147)	TC463 (P.148)	M
		DIN352				TC612 (P.134)	TC122 (P.137)						
		DIN357/LONG											
	MF	DIN374		TC411 (P.126)	TD411 (P.128)		TC222 (P.138)	TD222 (P.140)				TC473 (P.149)	MF
		DIN2181											
	UNC	DIN371/376		TC144 (P.130)			TC214 (P.142)					TC424 (P.150)	UNC
		DIN351											
	UNF	DIN371/374		TC124 (P.131)			TC234 (P.143)						UNF
		DIN2181											
	BSW	DIN2182/2183		TC134 (P.132)			TC224 (P.144)						BSW
		DIN351											
	G(BSP)	DIN5156/5157											G(BSP)
	EG-M	DIN371/376											EG-M
	EG-UNC	DIN371/376											EG-UNC
	EG-UNF	DIN371/374											EG-UNF
SURFACE TREATMENT				Bright	TiN	Bright	Bright	TiN	Bright	TiN	Bright	Bright	
MODEL													

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

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

SELECTION GUIDE

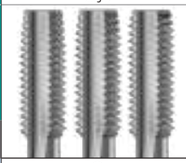
YG THREADING TOOLS

HSS & HSS-E
YG TAP GENERAL

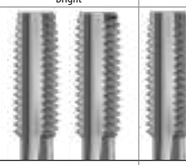
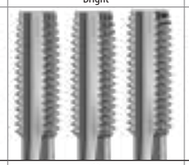
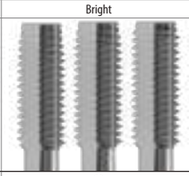
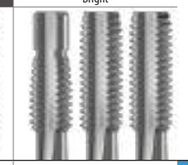
Suitable for Tapping Blind / Through Holes
due to Flute Geometry and Excellent Chip Evacuation

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

HOLE TYPE			Max. 2.0xD Blind/Through Hole			
TOOL MATERIAL			HSS			
CHAMFER LEAD ACC. TO DIN2197			I / II / III	I / III		
FLUTE TYPE			Straight Flute	Straight Flute		
SPIRAL FLUTE ANGLE			-	-		
	M	DIN371/376				
		DIN352	T7109 (P.151)			
		DIN357/LONG				
	MF	DIN374				
		DIN2181		T7309 (P.153)		
	UNC	DIN371/376				
		DIN351				
	UNF	DIN371/374				
		DIN2181				
	BSW	DIN2182/2183				
		DIN351				
	G(BSP)	DIN5156/5157				
	EG-M	DIN371/376				
	EG-UNC	DIN371/376				
	EG-UNF	DIN371/374				
SURFACE TREATMENT			Bright	Bright		
MODEL						

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

			Max. 2.0xD Blind/Through Hole			
HSS					HSS-E	
I / II / III	I / III	I / II / III	I / II / III	I / II / III	I / II / III	
Straight Flute	Straight Flute	Straight Flute	Straight Flute	Straight Flute	Straight Flute	
-	-	-	Left Hand Cut	-	-	
						M
			T7343 (P.158)	TB373 (P.159)	TC353 (P.160)	
						MF
						UNC
T7363 (P.155)						
						UNF
	T7509 (P.156)					
						BSW
		T7609 (P.157)				
						G(BSP)
						EG-M
						EG-UNC
						EG-UNF
Bright	Bright	Bright	Bright	VAP	Bright	
						

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

YG TAP GENERAL

TC711 SERIES

M ISO metric coarse threads DIN 13

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

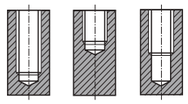
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

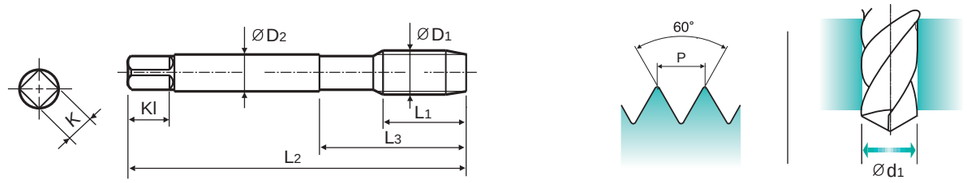
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **GS** | HSS-E | DIN 371/376 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TC711136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TC711156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TC711196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TC711176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TC711496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TC711206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TC711226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TC711246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TC711266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TC711286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TC711316	10	80	30	6	4.9	8	3	5
M7 × 1		TC711346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TC711366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TC711396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TC711426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TC711466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TC711506	18	110	44	9	7	10	3	10.2
M14 × 2		TC711546	20	110	44	11	9	12	3	12
M16 × 2		TC711606	20	110	44	12	9	12	3	14
M18 × 2.5		TC711656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TC711706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TC711746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TC711786	30	160	60	18	14.5	17	4	21
M27 × 3		TC711866	30	160	60	20	16	19	4	24
M30 × 3.5		TC711946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD711 SERIES

M ISO metric coarse threads DIN 13

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

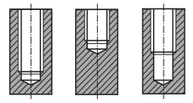
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

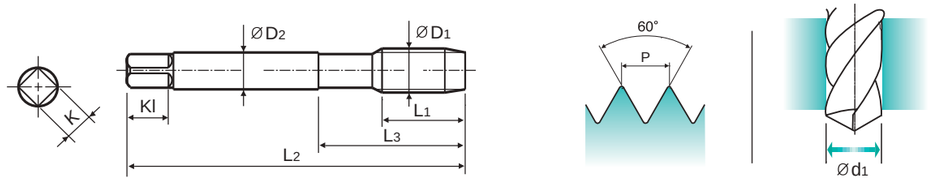
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **GS** | HSS-E | DIN 371/376 | 6H | 60° | C | TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TD711136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TD711156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TD711196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TD711176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TD711496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TD711206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TD711226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TD711246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TD711266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TD711286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TD711316	10	80	30	6	4.9	8	3	5
M7 × 1		TD711346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TD711366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TD711396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TD711426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TD711466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TD711506	18	110	44	9	7	10	3	10.2
M14 × 2		TD711546	20	110	44	11	9	12	3	12
M16 × 2		TD711606	20	110	44	12	9	12	3	14
M18 × 2.5		TD711656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TD711706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TD711746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TD711786	30	160	60	18	14.5	17	4	21
M27 × 3		TD711866	30	160	60	20	16	19	4	24
M30 × 3.5		TD711946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC411 SERIES

MF ISO metric fine threads DIN 13

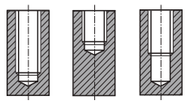
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

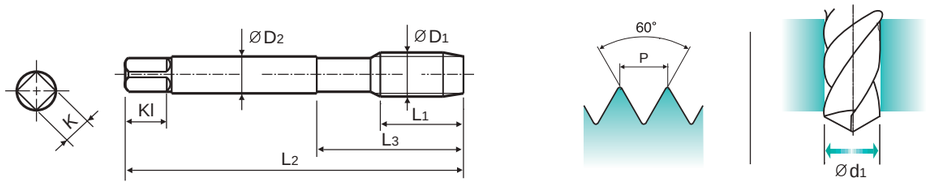
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 374

Hole type
2.5×D





Material groups GS | HSS-E | DIN 374 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	TC411256	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TC411296	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TC411326	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TC411336	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TC411356	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	TC411376	10	90	36	6	4.9	8	3	7
M8	× 0.75	TC411386	8	80	30	6	4.9	8	3	7.2
M8	× 0.5	TC411936	5	80	30	6	4.9	8	3	7.5
M10	× 1.25	TC411436	16	100	40	7	5.5	8	3	8.8
M10	× 1	TC411446	10	90	36	7	5.5	8	3	9
M10	× 0.75	TC411456	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	TC411516	15	100	40	9	7	10	3	10.5
M12	× 1.25	TC411526	15	100	40	9	7	10	3	10.8
M12	× 1	TC411536	11	100	40	9	7	10	3	11
M14	× 1.5	TC411556	15	100	40	11	9	12	3	12.5
M14	× 1.25	TC411566	15	100	40	11	9	12	3	12.8
M14	× 1	TC411576	11	100	40	11	9	12	3	13
M16	× 1.5	TC411616	15	100	40	12	9	12	3	14.5
M16	× 1	TC411626	12	100	40	12	9	12	3	15
M18	× 1.5	TC411676	17	110	44	14	11	14	4	16.5
M18	× 1	TC411686	13	110	44	14	11	14	4	17

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC411 SERIES

MF ISO metric fine threads DIN 13

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

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

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

DIN 374

Hole type
2.5×D

Material groups GS | HSS-E | DIN 374 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M20	× 1.5	TC411726	17	125	50	16	12	15	4	18.5
M20	× 1	TC411736	14	125	50	16	12	15	4	19
M22	× 1.5	TC411766	17	125	50	18	14.5	17	4	20.5
M22	× 1	TC411776	14	125	50	18	14.5	17	4	21
M24	× 2	TC411796	20	140	54	18	14.5	17	4	22
M24	× 1.5	TC411806	20	140	54	18	14.5	17	4	22.5
M26	× 1.5	TC411856	20	140	54	18	14.5	17	4	24.5
M27	× 2	TC411876	20	140	54	20	16	19	4	25
M27	× 1.5	TC411886	20	140	54	20	16	19	4	25.5
M28	× 1.5	TC411916	20	140	54	20	16	19	4	26.5
M30	× 2	TC411966	22	150	57	22	18	21	4	28
M30	× 1.5	TC411976	22	150	57	22	18	21	4	28.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD411 SERIES

MF ISO metric fine threads DIN 13

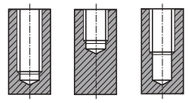
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo grosso DIN 13

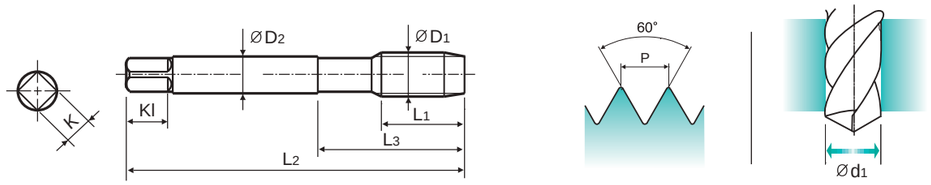
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 374

Hole type
2.5×D





Material groups **GS** | HSS-E | DIN 374 | 6H | 60° | C | TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TD411256**	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TD411296**	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TD411326**	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TD411336**	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TD411356**	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TD411376**	10	90	36	6	4.9	8	3	7
M8	× 0.75	**TD411386**	8	80	30	6	4.9	8	3	7.2
M8	× 0.5	**TD411936**	5	80	30	6	4.9	8	3	7.5
M10	× 1.25	**TD411436**	16	100	40	7	5.5	8	3	8.8
M10	× 1	**TD411446**	10	90	36	7	5.5	8	3	9
M10	× 0.75	**TD411456**	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TD411516**	15	100	40	9	7	10	3	10.5
M12	× 1.25	**TD411526**	15	100	40	9	7	10	3	10.8
M12	× 1	**TD411536**	11	100	40	9	7	10	3	11
M14	× 1.5	**TD411556**	15	100	40	11	9	12	3	12.5
M14	× 1.25	**TD411566**	15	100	40	11	9	12	3	12.8
M14	× 1	**TD411576**	11	100	40	11	9	12	3	13
M16	× 1.5	**TD411616**	15	100	40	12	9	12	3	14.5

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD411 SERIES

MF ISO metric fine threads DIN 13

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

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

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

DIN 374

Hole type
2.5×D

Material groups GS | HSS-E | DIN 374 | 6H | 60° | C | TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M16	× 1	**TD411626**	12	100	40	12	9	12	3	15
M18	× 1.5	**TD411676**	17	110	44	14	11	14	4	16.5
M18	× 1	**TD411686**	13	110	44	14	11	14	4	17
M20	× 1.5	**TD411726**	17	125	50	16	12	15	4	18.5
M20	× 1	**TD411736**	14	125	50	16	12	15	4	19
M22	× 1.5	**TD411766**	17	125	50	18	14.5	17	4	20.5
M22	× 1	**TD411776**	14	125	50	18	14.5	17	4	21
M24	× 2	**TD411796**	20	140	54	18	14.5	17	4	22
M24	× 1.5	**TD411806**	20	140	54	18	14.5	17	4	22.5
M26	× 1.5	**TD411856**	20	140	54	18	14.5	17	4	24.5
M27	× 2	**TD411876**	20	140	54	20	16	19	4	25
M27	× 1.5	**TD411886**	20	140	54	20	16	19	4	25.5
M28	× 1.5	**TD411916**	20	140	54	20	16	19	4	26.5
M30	× 2	**TD411966**	22	150	57	22	18	21	4	28
M30	× 1.5	**TD411976**	22	150	57	22	18	21	4	28.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC144 SERIES

UNC

Unified coarse threads

Unified Grobgewinde
UNC
Unificato passo grosso

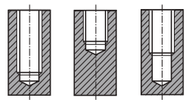
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

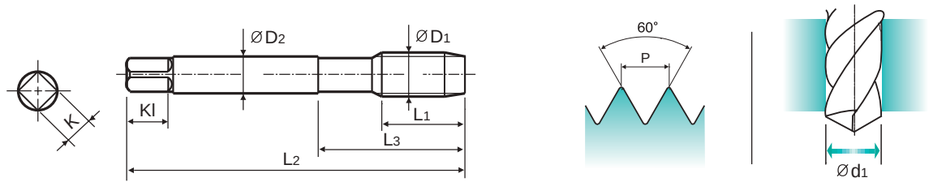
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups GS | HSS-E | DIN 371/376 | 2B | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	- 40UNC	**TC144162**	6	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	**TC144202**	7	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	**TC144242**	7	56	20	4	3	6	3	2.85
#8	- 32UNC	**TC144282**	8	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	**TC144322**	10	70	25	6	4.9	8	3	3.9
#12	- 24UNC	**TC144362**	10	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	**TC144402**	13	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	**TC144442**	14	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	**TC144482**	16	100	39	9	7	10	3	8
7/16	- 14UNC	**TC144522**	17	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	**TC144562**	20	110	44	9	7	10	3	10.75
9/16	- 12UNC	**TC144602**	20	110	44	11	9	12	3	12.25
5/8	- 11UNC	**TC144642**	22	110	44	12	9	12	3	13.5
3/4	- 10UNC	**TC144702**	25	125	50	14	11	14	4	16.5
7/8	- 9UNC	**TC144742**	27	140	54	18	14.5	17	4	19.5
1	- 8UNC	**TC144782**	30	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	**TC144822**	35	180	65	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC124 SERIES

UNF

Unified fine threads

Unified Feingewinde
UNF
Unificato passo grosso

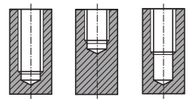
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

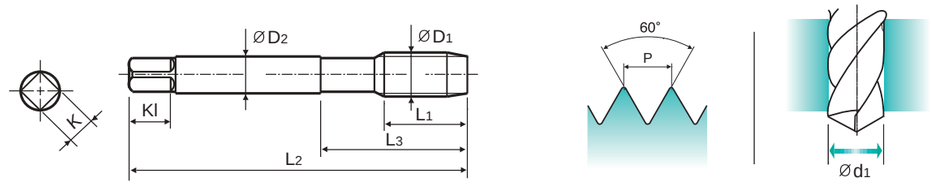
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 374

Hole type
2.5×D





Material groups GS | HSS-E | DIN 371/374 | 2B | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	- 48UNF	**TC124182**	6	56	18	3.5	2.7	6	3	2.4
#5	- 44UNF	**TC124222**	7	56	18	3.5	2.7	6	3	2.7
#6	- 40UNF	**TC124262**	7	56	20	4	3	6	3	3
#8	- 36UNF	**TC124302**	8	63	21	4.5	3.4	6	3	3.5
#10	- 32UNF	**TC124342**	10	70	25	6	4.9	8	3	4.1
#12	- 28UNF	**TC124382**	10	80	30	6	4.9	8	3	4.7
1/4	- 28UNF	**TC124422**	10	80	30	7	5.5	8	3	5.5
5/16	- 24UNF	**TC124462**	10	90	35	8	6.2	9	3	6.9
3/8	- 24UNF	**TC124502**	10	100	39	9	7	10	3	8.5
7/16	- 20UNF	**TC124542**	13	100	40	8	6.2	9	3	9.9
1/2	- 20UNF	**TC124582**	13	100	40	9	7	10	3	11.5
9/16	- 18UNF	**TC124622**	15	100	40	11	9	12	3	12.9
5/8	- 18UNF	**TC124662**	15	100	40	12	9	12	3	14.5
3/4	- 16UNF	**TC124722**	17	110	44	14	11	14	4	17.5
7/8	- 14UNF	**TC124762**	17	125	50	18	14.5	17	4	20.5
1	- 12UNF	**TC124802**	20	140	54	18	14.5	17	4	23.25
1-1/8	- 12UNF	**TC124842**	22	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC134 SERIES

BSW Whitworth threads

- Whitworth Gewinde
- BSW
- Unificato passo grosso

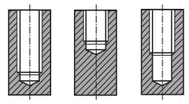
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

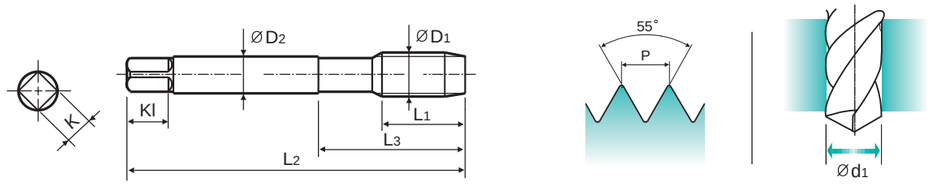
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 2182

DIN 2183

Hole type 2.5×D





Material groups GS | HSS-E | DIN 2182/2183 | 55° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
W1/8	- 40	**TC134200**	7	56	18	3.5	2.7	6	3	2.5
W5/32	- 32	**TC134280**	7	63	21	4.5	3.4	6	3	3.1
W3/16	- 24	**TC134320**	10	70	25	6	4.9	8	3	3.6
W7/32	- 24	**TC134360**	10	80	30	6	4.9	8	3	4.4
W1/4	- 20	**TC134400**	13	80	30	7	5.5	8	3	5.1
W5/16	- 18	**TC134440**	14	90	35	8	6.2	9	3	6.5
W3/8	- 16	**TC134480**	16	100	39	9	7	10	3	7.9
W7/16	- 14	**TC134520**	17	100	40	8	6.2	9	3	9.3
W1/2	- 12	**TC134560**	20	110	44	9	7	10	3	10.5
W9/16	- 12	**TC134600**	20	110	44	11	9	12	3	12
W5/8	- 11	**TC134640**	22	110	40	12	9	12	3	13.5
W3/4	- 10	**TC134700**	25	125	50	14	11	14	4	16.5
W7/8	- 9	**TC134740**	27	140	54	18	14.5	17	4	19.25
W1	- 8	**TC134780**	30	160	60	20	16	19	4	22
W1-1/8	- 7	**TC134820**	35	180	65	22	18	21	4	24.75

▶DIN 2182(W1/8~W3/8) and DIN 2183(W7/16~W1-1/8)

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC517 SERIES

M ISO metric coarse threads DIN 13

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

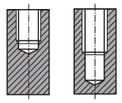
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

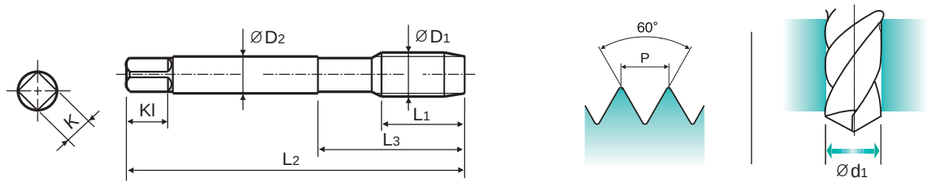
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type 2.5×D





Material groups GS | HSS-E | DIN 371/376 | 6H | 60° | C | Bright | R20

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TC517136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TC517156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TC517196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TC517176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TC517496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TC517206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TC517226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TC517246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TC517266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TC517286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TC517316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TC517346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TC517366**	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	**TC517396**	13	90	35	9	7	10	3	7.8
M10	× 1.5	**TC517426**	15	100	39	10	8	11	3	8.5
M11	× 1.5	**TC517466**	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	**TC517506**	18	110	44	9	7	10	3	10.2
M14	× 2	**TC517546**	20	110	44	11	9	12	3	12
M16	× 2	**TC517606**	20	110	44	12	9	12	3	14
M18	× 2.5	**TC517656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TC517706**	25	140	54	16	12	15	4	17.5
M22	× 2.5	**TC517746**	25	140	54	18	14.5	17	4	19.5
M24	× 3	**TC517786**	30	160	60	18	14.5	17	4	21
M27	× 3	**TC517866**	30	160	60	20	16	19	4	24
M30	× 3.5	**TC517946**	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC612 SERIES

M ISO metric coarse threads DIN 13

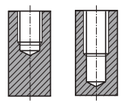
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

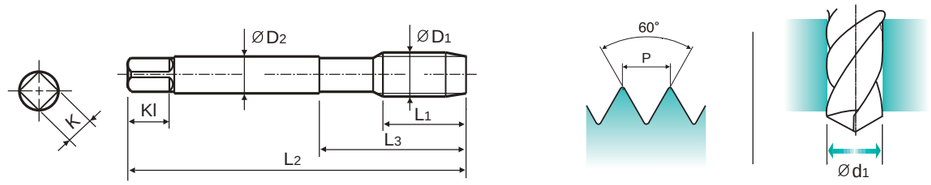
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 352

Hole type
2.5×D





Material groups **GS** | HSS-E | DIN 352 | 6H | 60° | C | Bright | R20

Short machine taps
Maschinengewindebohrer kurz

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	TC612206	11	40	18	3.5	2.7	6	3	2.5
M4	× 0.7	TC612246	13	45	21	4.5	3.4	6	3	3.3
M5	× 0.8	TC612286	16	52	26	6	4.9	8	3	4.2
M6	× 1	TC612316	18	56	27	6	4.9	8	3	5
M8	× 1.25	TC612366	20	63	34	6	4.9	8	3	6.8
M10	× 1.5	TC612426	22	70	38	7	5.5	8	3	8.5
M12	× 1.75	TC612506	24	80	45	9	7	10	3	10.2
M14	× 2	TC612546	26	80	45	11	9	12	3	12
M16	× 2	TC612606	27	80	45	12	9	12	3	14
M18	× 2.5	TC612656	30	95	58	14	11	14	4	15.5
M20	× 2.5	TC612706	32	95	58	16	12	15	4	17.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC127 SERIES

M ISO metric coarse threads DIN 13

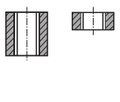
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

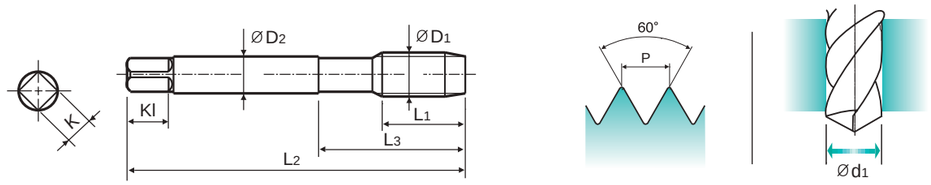
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 371

Hole type
3.0×D





Material groups **GS** | HSS-E | DIN 371 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TC127136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC127156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TC127196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC127176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TC127496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC127206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC127226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TC127246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC127266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC127286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TC127316	17	80	30	6	4.9	8	3	5
M7	× 1	TC127346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TC127366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC127396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TC127426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TC127466	22	100	39	11	9	12	3	9.5
M12	× 1.75	TC127506	24	110	44	12	9	12	3	10.2

▶ * DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD127 SERIES

M ISO metric coarse threads DIN 13

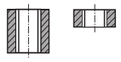
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

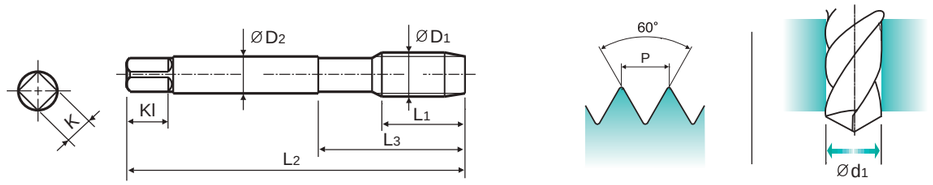
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 371

Hole type 3.0×D





Material groups **GS** | HSS-E | DIN 371 | 6H | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TD127136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TD127156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TD127196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TD127176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TD127496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TD127206**	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TD127226**	12	56	20	4	3	6	3	2.9
M4	× 0.7	**TD127246**	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TD127266**	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TD127286**	15	70	25	6	4.9	8	3	4.2
M6	× 1	**TD127316**	17	80	30	6	4.9	8	3	5
M7	× 1	**TD127346**	17	80	30	7	5.5	8	3	6
M8	× 1.25	**TD127366**	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	**TD127396**	20	90	35	9	7	10	3	7.8
M10	× 1.5	**TD127426**	22	100	39	10	8	11	3	8.5
M11	× 1.5	**TD127466**	22	100	39	11	9	12	3	9.5
M12	× 1.75	**TD127506**	24	110	44	12	9	12	3	10.2

▶ *DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC122 SERIES

M ISO metric coarse threads DIN 13

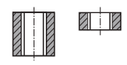
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

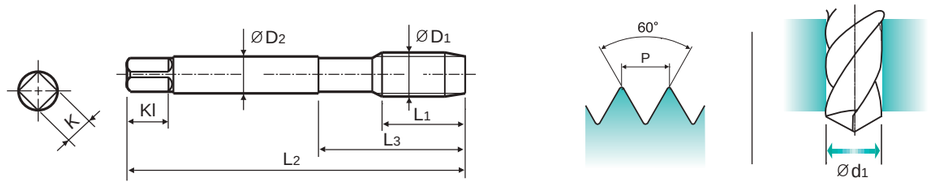
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 352

Hole type 3.0×D





Material groups **GS** | HSS-E | DIN 352 | 6H | 60° | B | Bright

Short machine taps
Maschinengewindebohrer kurz

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TC122136**	8	36	13	2.8	2.1	5	3	1.6
M2.5	× 0.45	**TC122176**	9	40	15	2.8	2.1	5	3	2.05
M3	× 0.5	**TC122206**	11	40	18	3.5	2.7	6	3	2.5
M4	× 0.7	**TC122246**	13	45	21	4.5	3.4	6	3	3.3
M5	× 0.8	**TC122286**	16	52	26	6	4.9	8	3	4.2
M6	× 1	**TC122316**	18	56	27	6	4.9	8	3	5
M8	× 1.25	**TC122366**	20	63	34	6	4.9	8	3	6.8
M10	× 1.5	**TC122426**	22	70	38	7	5.5	8	3	8.5
M12	× 1.75	**TC122506**	24	80	45	9	7	10	3	10.2
M14	× 2	**TC122546**	26	80	45	11	9	12	3	12
M16	× 2	**TC122606**	27	80	45	12	9	12	3	14

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC222 SERIES

MF — ISO metric fine threads DIN 13

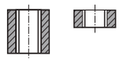
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo fine DIN 13

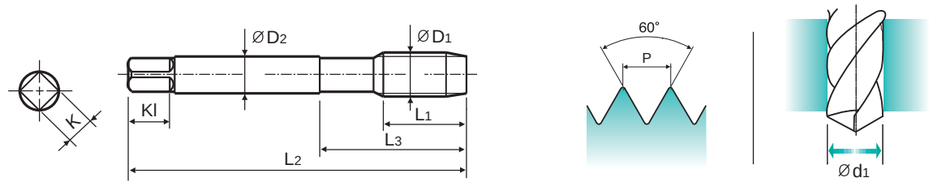
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 374

Hole type 3.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TC222256**	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TC222296**	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TC222326**	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TC222336**	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TC222356**	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TC222376**	17	90	36	6	4.9	8	3	7
M8	× 0.75	**TC222386**	14	80	30	6	4.9	8	3	7.2
M8	× 0.5	**TC222936**	14	80	30	6	4.9	8	3	7.5
M10	× 1.25	**TC222436**	22	100	40	7	5.5	8	3	8.8
M10	× 1	**TC222446**	18	90	36	7	5.5	8	3	9
M10	× 0.75	**TC222456**	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TC222516**	22	100	40	9	7	10	3	10.5
M12	× 1.25	**TC222526**	22	100	40	9	7	10	3	10.8
M12	× 1	**TC222536**	18	100	40	9	7	10	3	11
M14	× 1.5	**TC222556**	22	100	40	11	9	12	3	12.5
M14	× 1.25	**TC222566**	22	100	40	11	9	12	3	12.8
M14	× 1	**TC222576**	18	100	40	11	9	12	3	13

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC222 SERIES

MF — ISO metric fine threads DIN 13

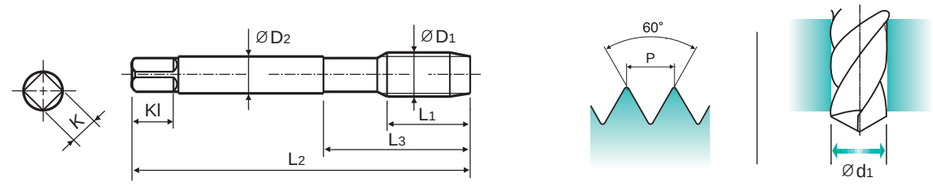
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo fine DIN 13

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

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

DIN 374

Hole type 3.0×D



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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M16	× 1.5	**TC222616**	22	100	40	12	9	12	3	14.5
M16	× 1	**TC222626**	18	100	40	12	9	12	3	15
M18	× 1.5	**TC222676**	25	110	44	14	11	14	4	16.5
M18	× 1	**TC222686**	20	110	44	14	11	14	4	17
M20	× 1.5	**TC222726**	25	125	50	16	12	15	4	18.5
M20	× 1	**TC222736**	20	125	50	16	12	15	4	19
M22	× 1.5	**TC222766**	25	125	50	18	14.5	17	4	20.5
M22	× 1	**TC222776**	20	125	50	18	14.5	17	4	21
M24	× 2	**TC222796**	27	140	54	18	14.5	17	4	22
M24	× 1.5	**TC222806**	27	140	54	18	14.5	17	4	22.5
M26	× 1.5	**TC222856**	28	140	54	18	14.5	17	4	24.5
M27	× 2	**TC222876**	28	140	54	20	16	19	4	25
M27	× 1.5	**TC222886**	28	140	54	20	16	19	4	25.5
M28	× 1.5	**TC222916**	28	140	54	20	16	19	4	26.5
M30	× 2	**TC222966**	30	150	57	22	18	21	4	28
M30	× 1.5	**TC222976**	30	150	57	22	18	21	4	28.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD222 SERIES

MF ISO metric fine threads DIN 13

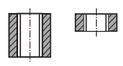
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

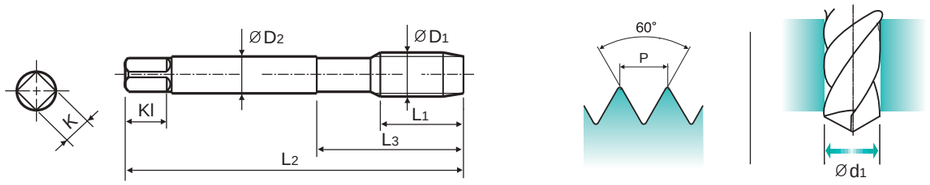
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 374

Hole type
3.0×D





Material groups **GS** | HSS-E | DIN 374 | 6H | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4 × 0.5		TD222256	10	63	21	2.8	2.1	5	3	3.5
M5 × 0.5		TD222296	11	70	25	3.5	2.7	6	3	4.5
M6 × 0.75		TD222326	13	80	30	4.5	3.4	6	3	5.2
M6 × 0.5		TD222336	13	80	30	4.5	3.4	6	3	5.5
M7 × 0.75		TD222356	14	80	30	5.5	4.3	7	3	6.2
M8 × 1		TD222376	17	90	36	6	4.9	8	3	7
M8 × 0.75		TD222386	14	80	30	6	4.9	8	3	7.2
M8 × 0.5		TD222936	14	80	30	6	4.9	8	3	7.5
M10 × 1.25		TD222436	22	100	40	7	5.5	8	3	8.8
M10 × 1		TD222446	18	90	36	7	5.5	8	3	9
M10 × 0.75		TD222456	18	90	36	7	5.5	8	3	9.2
M12 × 1.5		TD222516	22	100	40	9	7	10	3	10.5
M12 × 1.25		TD222526	22	100	40	9	7	10	3	10.8
M12 × 1		TD222536	18	100	40	9	7	10	3	11
M14 × 1.5		TD222556	22	100	40	11	9	12	3	12.5
M14 × 1.25		TD222566	22	100	40	11	9	12	3	12.8
M14 × 1		TD222576	18	100	40	11	9	12	3	13
M16 × 1.5		TD222616	22	100	40	12	9	12	3	14.5

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD222 SERIES

MF ISO metric fine threads DIN 13

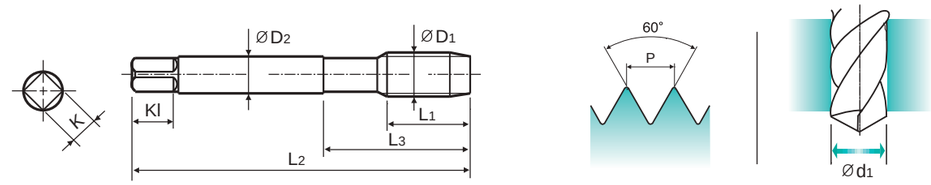
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

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

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

DIN 374

Hole type
3.0×D



Material groups GS | HSS-E | DIN 374 | 6H | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M16 × 1		TD222626	18	100	40	12	9	12	3	15
M18 × 1.5		TD222676	25	110	44	14	11	14	4	16.5
M18 × 1		TD222686	20	110	44	14	11	14	4	17
M20 × 1.5		TD222726	25	125	50	16	12	15	4	18.5
M20 × 1		TD222736	20	125	50	16	12	15	4	19
M22 × 1.5		TD222766	25	125	50	18	14.5	17	4	20.5
M22 × 1		TD222776	20	125	50	18	14.5	17	4	21
M24 × 2		TD222796	27	140	54	18	14.5	17	4	22
M24 × 1.5		TD222806	27	140	54	18	14.5	17	4	22.5
M26 × 1.5		TD222856	28	140	54	18	14.5	17	4	24.5
M27 × 2		TD222876	28	140	54	20	16	19	4	25
M27 × 1.5		TD222886	28	140	54	20	16	19	4	25.5
M28 × 1.5		TD222916	28	140	54	20	16	19	4	26.5
M30 × 2		TD222966	30	150	57	22	18	21	4	28
M30 × 1.5		TD222976	30	150	57	22	18	21	4	28.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC214 SERIES

UNC Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

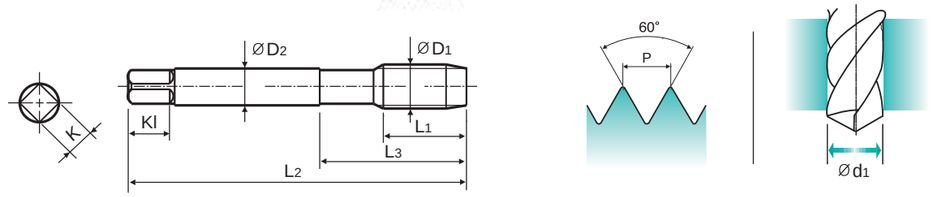
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 371

DIN 376

Hole type 3.0×D



Material groups **GS** | HSS-E | DIN 371/376 | 2B | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	40UNC	TC214162	11	56	18	3.5	2.7	6	3	2.3
#5	40UNC	TC214202	11	56	18	3.5	2.7	6	3	2.6
#6	32UNC	TC214242	12	56	20	4	3	6	3	2.85
#8	32UNC	TC214282	13	63	21	4.5	3.4	6	3	3.5
#10	24UNC	TC214322	15	70	25	6	4.9	8	3	3.9
#12	24UNC	TC214362	16	80	30	6	4.9	8	3	4.5
1/4	20UNC	TC214402	17	80	30	7	5.5	8	3	5.2
5/16	18UNC	TC214442	20	90	35	8	6.2	9	3	6.6
3/8	16UNC	TC214482	22	100	39	9	7	10	3	8
7/16	14UNC	TC214522	22	100	40	8	6.2	9	3	9.4
1/2	13UNC	TC214562	25	110	44	9	7	10	3	10.75
9/16	12UNC	TC214602	26	110	44	11	9	12	3	12.25
5/8	11UNC	TC214642	27	110	44	12	9	12	3	13.5
3/4	10UNC	TC214702	30	125	50	14	11	14	4	16.5
7/8	9UNC	TC214742	32	140	54	18	14.5	17	4	19.5
1	8UNC	TC214782	36	160	60	20	16	19	4	22.25
1-1/8	7UNC	TC214822	40	180	70	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC234 SERIES

UNF Unified fine threads

- Unified Feingewinde
- UNF
- Unificato passo fine

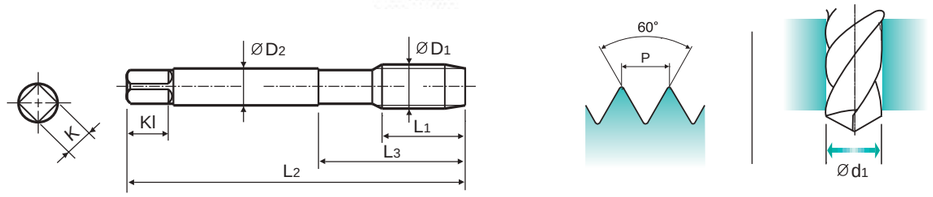
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 371

DIN 374

Hole type 3.0×D



Material groups **GS** | HSS-E | DIN 371/374 | 2B | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	48UNF	TC234182	11	56	18	3.5	2.7	6	3	2.4
#5	44UNF	TC234222	11	56	18	3.5	2.7	6	3	2.7
#6	40UNF	TC234262	12	56	20	4	3	6	3	3
#8	36UNF	TC234302	13	63	21	4.5	3.4	6	3	3.5
#10	32UNF	TC234342	15	70	25	6	4.9	8	3	4.1
#12	28UNF	TC234382	16	80	30	6	4.9	8	3	4.7
1/4	28UNF	TC234422	17	80	30	7	5.5	8	3	5.5
5/16	24UNF	TC234462	17	90	35	8	6.2	9	3	6.9
3/8	24UNF	TC234502	18	100	39	9	7	10	3	8.5
7/16	20UNF	TC234542	22	100	40	8	6.2	9	3	9.9
1/2	20UNF	TC234582	22	100	40	9	7	10	3	11.5
9/16	18UNF	TC234622	22	100	40	11	9	12	3	12.9
5/8	18UNF	TC234662	22	100	40	12	9	12	3	14.5
3/4	16UNF	TC234722	25	110	44	14	11	14	4	17.5
7/8	14UNF	TC234762	26	125	50	18	14.5	17	4	20.5
1	12UNF	TC234802	28	140	54	18	14.5	17	4	23.25
1-1/8	12UNF	TC234842	30	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC224 SERIES

BSW Whitworth threads

Whitworth Gewinde
BSW
Filettatura Whitworth

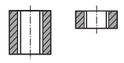
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

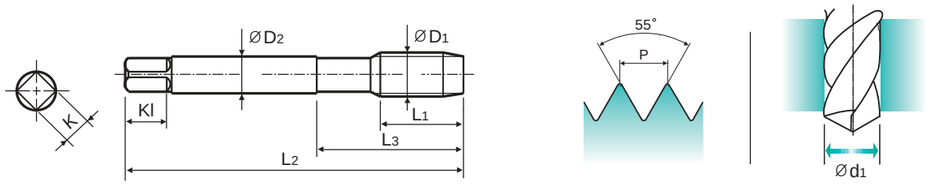
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 2182

DIN 2183

Hole type
3.0×D





Material groups GS | HSS-E | DIN 2182/2183 | 55° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
W1/8	- 40	TC224200	11	56	18	3.5	2.7	6	3	2.5
W5/32	- 32	TC224280	13	63	21	4.5	3.4	6	3	3.1
W3/16	- 24	TC224320	15	70	25	6	4.9	8	3	3.6
W7/32	- 24	TC224360	16	80	30	6	4.9	8	3	4.4
W1/4	- 20	TC224400	17	80	30	7	5.5	8	3	5.1
W5/16	- 18	TC224440	20	90	35	8	6.2	9	3	6.5
W3/8	- 16	TC224480	22	100	39	9	7	10	3	7.9
W7/16	- 14	TC224520	22	100	40	8	6.2	9	3	9.3
W1/2	- 12	TC224560	25	110	44	9	7	10	3	10.5
W9/16	- 12	TC224600	26	110	44	11	9	12	3	12
W5/8	- 11	TC224640	27	110	44	12	9	12	3	13.5
W3/4	- 10	TC224700	30	125	50	14	11	14	4	16.5
W7/8	- 9	TC224740	32	140	54	18	14.5	17	4	19.25
W1	- 8	TC224780	36	160	60	20	16	19	4	22
W1-1/8	- 7	TC224820	40	180	65	22	18	21	4	24.75

▶DIN 2182(W1/8~W3/8) and DIN 2183(W7/16~W1-1/8)

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC227 SERIES

M ISO metric coarse threads DIN 13

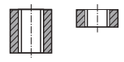
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

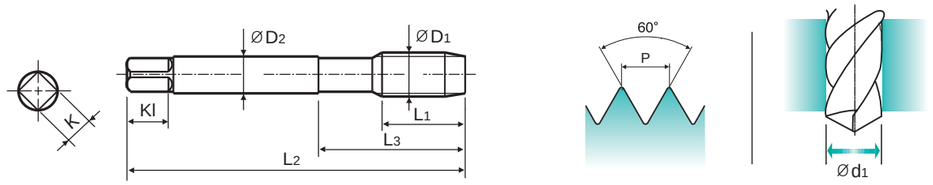
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 376

Hole type
3.0×D





Material groups GS | HSS-E | DIN 376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	TC227206	11	56	18	2.2	1.8	5	3	2.5
M3.5	× 0.6	TC227226	12	56	20	2.5	2.1	5	3	2.9
M4	× 0.7	TC227246	13	63	21	2.8	2.1	5	3	3.3
M4.5	× 0.75	TC227266	14	70	25	3.5	2.7	6	3	3.7
M5	× 0.8	TC227286	15	70	25	3.5	2.7	6	3	4.2
M6	× 1	TC227316	17	80	30	4.5	3.4	6	3	5
M7	× 1	TC227346	17	80	30	5.5	4.3	7	3	6
M8	× 1.25	TC227366	20	90	36	6	4.9	8	3	6.8
M9	× 1.25	TC227396	20	90	36	7	5.5	8	3	7.8
M10	× 1.5	TC227426	22	100	40	7	5.5	8	3	8.5
M11	× 1.5	TC227466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC227506	24	110	44	9	7	10	3	10.2
M14	× 2	TC227546	26	110	44	11	9	12	3	12
M16	× 2	TC227606	27	110	44	12	9	12	3	14
M18	× 2.5	TC227656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TC227706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TC227746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TC227786	34	160	60	18	14.5	17	4	21
M27	× 3	TC227866	36	160	60	20	16	19	4	24
M30	× 3.5	TC227946	40	180	70	22	18	21	4	26.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TD227 SERIES

M ISO metric coarse threads DIN 13

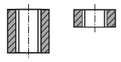
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

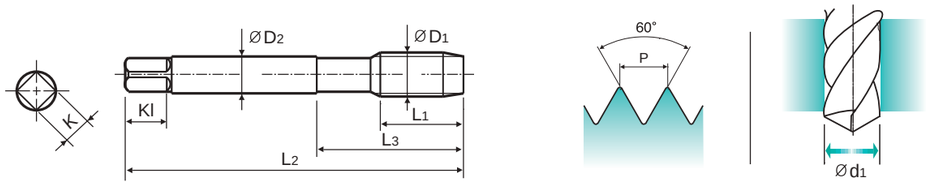
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 376

Hole type
3.0×D





Material groups **GS** | HSS-E | DIN 376 | 6H | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	TD227206	11	56	18	2.2	1.8	5	3	2.5
M3.5	× 0.6	TD227226	12	56	20	2.5	2.1	5	3	2.9
M4	× 0.7	TD227246	13	63	21	2.8	2.1	5	3	3.3
M4.5	× 0.75	TD227266	14	70	25	3.5	2.7	6	3	3.7
M5	× 0.8	TD227286	15	70	25	3.5	2.7	6	3	4.2
M6	× 1	TD227316	17	80	30	4.5	3.4	6	3	5
M7	× 1	TD227346	17	80	30	5.5	4.3	7	3	6
M8	× 1.25	TD227366	20	90	36	6	4.9	8	3	6.8
M9	× 1.25	TD227396	20	90	36	7	5.5	8	3	7.8
M10	× 1.5	TD227426	22	100	40	7	5.5	8	3	8.5
M11	× 1.5	TD227466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TD227506	24	110	44	9	7	10	3	10.2
M14	× 2	TD227546	26	110	44	11	9	12	3	12
M16	× 2	TD227606	27	110	44	12	9	12	3	14
M18	× 2.5	TD227656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TD227706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TD227746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TD227786	34	160	60	18	14.5	17	4	21
M27	× 3	TD227866	36	160	60	20	16	19	4	24
M30	× 3.5	TD227946	40	180	70	22	18	21	4	26.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC211 SERIES

M ISO metric coarse threads DIN 13

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

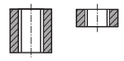
▶ Left spiral flute and right hand thread tap to push chips ahead in powerful than spiral point taps.

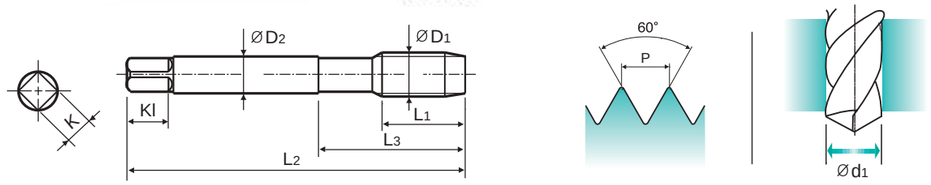
▶ Rechtsschneidender Gewindebohrer mit Linksdrall um kraftvoller nach vorne zu entspanen als mit Gewindebohrern mit Rechtsdrall.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **GS** | HSS-E | DIN 371/376 | 6H | 60° | C | Bright | L20

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TC211136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC211156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TC211196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC211176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TC211496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC211206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC211226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TC211246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC211266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC211286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TC211316	17	80	30	6	4.9	8	3	5
M7	× 1	TC211346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TC211366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC211396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TC211426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TC211466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC211506	24	110	44	9	7	10	3	10.2
M14	× 2	TC211546	26	110	44	11	9	12	3	12
M16	× 2	TC211606	27	110	44	12	9	12	3	14
M18	× 2.5	TC211656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TC211706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TC211746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TC211786	34	160	60	18	14.5	17	4	21
M27	× 3	TC211866	36	160	60	20	16	19	4	24
M30	× 3.5	TC211946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC463 SERIES

M ISO metric coarse threads DIN 13

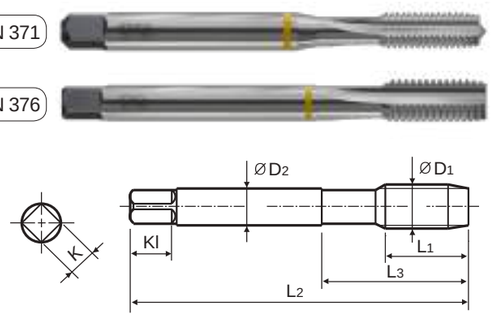
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ Suitable for tapping shallow holes and the blind holes having enough chip space at the bottom of holes.

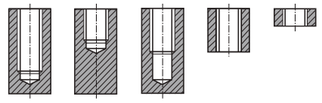
▶ Geeignet zum Schneiden von kurzem Durchgangsgewinde und in Sacklöchern mit ausreichendem Raum für Späne am Bohrungsgrund.

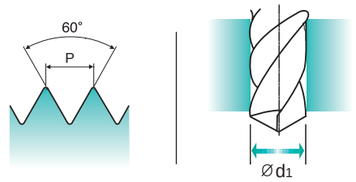
DIN 371

DIN 376



Hole type
2.0×D





Material groups **GS** | HSS-E | DIN 371/376 | 6H | 60° | C | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TC463136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC463156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TC463196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC463176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TC463496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC463206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC463226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TC463246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC463266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC463286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TC463316	17	80	30	6	4.9	8	3	5
M7	× 1	TC463346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TC463366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC463396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TC463426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TC463466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC463506	24	110	44	9	7	10	3	10.2
M14	× 2	TC463546	26	110	44	11	9	12	3	12
M16	× 2	TC463606	27	110	44	12	9	12	3	14
M18	× 2.5	TC463656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TC463706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TC463746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TC463786	34	160	60	18	14.5	17	4	21
M27	× 3	TC463866	36	160	60	20	16	19	4	24
M30	× 3.5	TC463946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC473 SERIES

MF ISO metric fine threads DIN 13

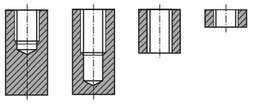
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

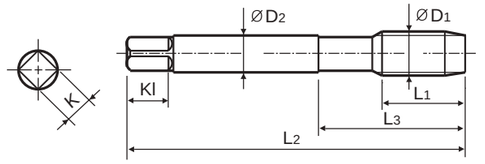
▶ Suitable for tapping shallow holes.

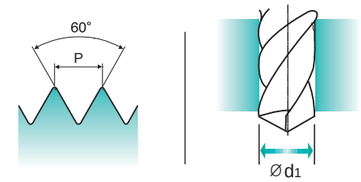
▶ Geeignet zum Gewindeschneiden flacher Sacklöcher.

DIN 374

Hole type
2.0×D







Material groups **GS** | HSS-E | DIN 374 | 6H | 60° | C | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	TC473256	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TC473296	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TC473326	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TC473336	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TC473356	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	TC473376	17	90	36	6	4.9	8	3	7
M8	× 0.75	TC473386	14	80	30	6	4.9	8	3	7.2
M8	× 0.5	TC473936	14	80	30	6	4.9	8	3	7.5
M10	× 1.25	TC473436	22	100	40	7	5.5	8	3	8.8
M10	× 1	TC473446	18	90	36	7	5.5	8	3	9
M10	× 0.75	TC473456	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	TC473516	22	100	40	9	7	10	3	10.5
M12	× 1.25	TC473526	22	100	40	9	7	10	3	10.8
M12	× 1	TC473536	18	100	40	9	7	10	3	11
M14	× 1.5	TC473556	22	100	40	11	9	12	3	12.5
M14	× 1.25	TC473566	22	100	40	11	9	12	3	12.8
M14	× 1	TC473576	18	100	40	11	9	12	3	13
M16	× 1.5	TC473616	22	100	40	12	9	12	3	14.5
M18	× 1.5	TC473676	25	110	44	14	11	14	4	16.5
M20	× 1.5	TC473726	25	125	50	16	12	15	4	18.5
M22	× 1.5	TC473766	25	125	50	18	14.5	17	4	20.5
M24	× 1.5	TC473806	27	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC424 SERIES

UNC

Unified coarse threads

Unified Grobgewinde
UNC
Unificato passo grosso

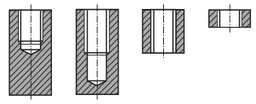
▶ Suitable for tapping shallow holes.

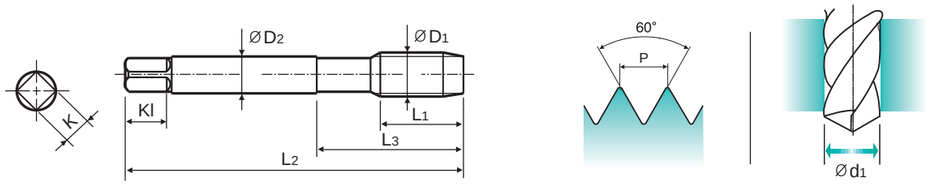
▶ Geeignet zum Gewindeschneiden flacher Sacklöcher.

DIN 371

DIN 376

Hole type
2.0×D





Material groups GS | HSS-E | DIN 371/376 | 2B | 60° | C | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.161

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4 -	40UNC	TC424162	11	56	18	3.5	2.7	6	3	2.3
#5 -	40UNC	TC424202	11	56	18	3.5	2.7	6	3	2.6
#6 -	32UNC	TC424242	12	56	20	4	3	6	3	2.85
#8 -	32UNC	TC424282	13	63	21	4.5	3.4	6	3	3.5
#10 -	24UNC	TC424322	15	70	25	6	4.9	8	3	3.9
#12 -	24UNC	TC424362	16	80	30	6	4.9	8	3	4.5
1/4 -	20UNC	TC424402	17	80	30	7	5.5	8	3	5.2
5/16 -	18UNC	TC424442	20	90	35	8	6.2	9	3	6.6
3/8 -	16UNC	TC424482	22	100	39	9	7	10	3	8
7/16 -	14UNC	TC424522	22	100	40	8	6.2	9	3	9.4
1/2 -	13UNC	TC424562	25	110	44	9	7	10	3	10.75
9/16 -	12UNC	TC424602	26	110	44	11	9	12	3	12.25
5/8 -	11UNC	TC424642	27	110	44	12	9	12	3	13.5
3/4 -	10UNC	TC424702	30	125	50	14	11	14	4	16.5
7/8 -	9UNC	TC424742	32	140	54	18	14.5	17	4	19.5
1 -	8UNC	TC424782	36	160	60	20	16	19	4	22.25
1-1/8 -	7UNC	TC424822	40	180	70	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7109 SERIES

M

ISO metric coarse threads DIN 13

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

▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

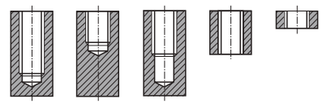
▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden

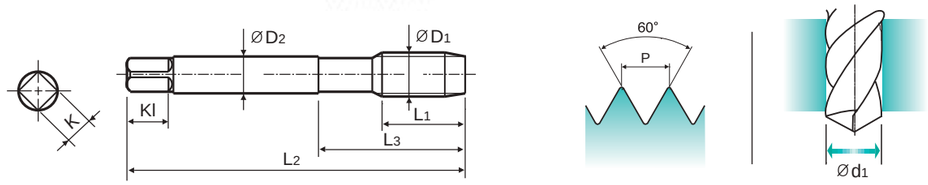
First

Second

Bottoming

Hole type
2.0×D





Material groups GS | HSS | DIN 352 | 6H | 60° | I / II / III | Bright

Sets of taps
Gewindebohrer -Satz

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	T7109139	8	36	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	T7109159	9	36	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	T7109199	9	36	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	T7109179	9	40	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	T7109499	9	40	15	2.8	2.1	5	3	2.1
M3	× 0.5	T7109209	11	40	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	T7109229	13	45	21	4	3	6	3	2.9
M4	× 0.7	T7109249	13	45	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	T7109269	16	50	25	6	4.9	8	3	3.7
M5	× 0.8	T7109289	16	52	26	6	4.9	8	3	4.2
M5.5	× 0.9	T7109N69	18	56	27	6	4.9	8	3	4.6
M6	× 1	T7109319	18	56	27	6	4.9	8	3	5
M7	× 1	T7109349	18	56	28.5	6	4.9	8	3	6
M8	× 1.25	T7109369	20	63	34	6	4.9	8	3	6.8
M9	× 1.25	T7109399	20	63	34	7	5.5	8	4	7.8
M10	× 1.5	T7109429	22	70	38	7	5.5	8	4	8.5
M11	× 1.5	T7109469	22	70	38	8	6.2	9	4	9.5
M12	× 1.75	T7109509	24	80	45	9	7	10	4	10.2
M14	× 2	T7109549	26	80	45	11	9	12	4	12
M16	× 2	T7109609	27	80	45	12	9	12	4	14
M18	× 2.5	T7109659	30	95	58	14	11	14	4	15.5
M20	× 2.5	T7109709	32	95	58	16	12	15	4	17.5

▶*DIN profile not ISO

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7109 SERIES

M — ISO metric coarse threads DIN 13

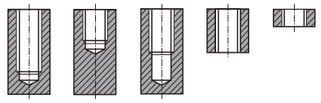
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

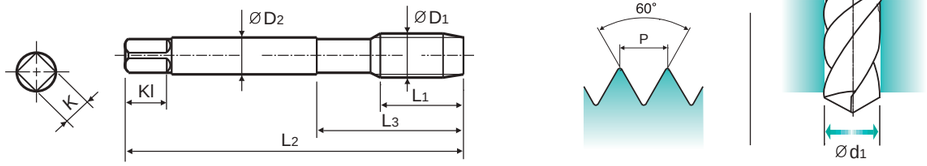
▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

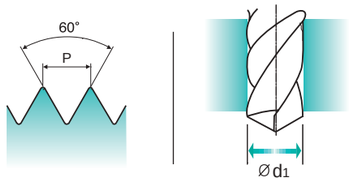
▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

First
Second
Bottoming

Hole type
2.0×D







Material groups **GS** | HSS | DIN 352 | 6H | 60° | I/II/III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M22	× 2.5	**T7109749**	32	100	62	18	14.5	17	4	19.5
M24	× 3	**T7109789**	34	110	69	18	14.5	17	4	21
M27	× 3	**T7109869**	36	110	69	20	16	19	4	24
M30	× 3.5	**T7109949**	40	125	77	22	18	21	4	26.5
M33	× 3.5	**T7109A49**	40	125	77	25	20	23	4	29.5
M36	× 4	**T7109B39**	50	150	88	28	22	25	4	32
M39	× 4	**T7109C09**	50	150	88	32	24	27	4	35
M42	× 4.5	**T7109C89**	56	150	88	32	24	27	4	37.5
M45	× 4.5	**T7109D59**	58	160	93	36	29	32	4	40.5
M48	× 5	**T7109E29**	65	180	102	36	29	32	4	43
M52	× 5	**T7109F39**	65	180	102	40	32	35	4	47

▶*DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7309 SERIES

MF — ISO metric fine threads DIN 13

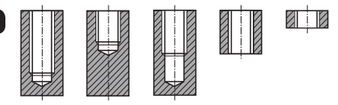
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

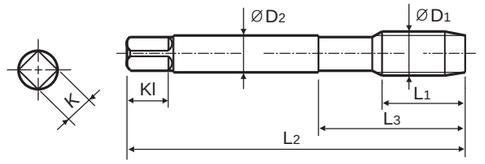
▶ This tap is a serial hand tap in set, First and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

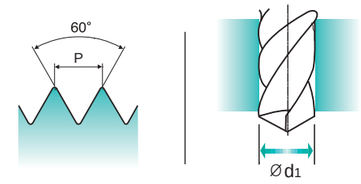
▶ Handgewindebohrersatz mit Vor- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

First
Bottoming

Hole type
2.0×D







Material groups **GS** | HSS | DIN 2181 | 6H | 60° | I/III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.35	**T7309219**	9	40	18	3.5	2.7	6	3	2.65
M4	× 0.5	**T7309259**	10	45	18	4.5	3.4	6	3	3.5
M5	× 0.5	**T7309299**	13	52	22	6	4.9	8	3	4.5
M6	× 0.75	**T7309329**	14	56	24	6	4.9	8	3	5.2
M6	× 0.5	**T7309339**	13	56	24	6	4.9	8	3	5.5
M7	× 0.75	**T7309359**	14	56	27	6	4.9	8	3	6.2
M8	× 1	**T7309379**	17	63	27	6	4.9	8	3	7
M8	× 0.75	**T7309389**	14	63	27	6	4.9	8	3	7.2
M8	× 0.5	**T7309939**	14	63	27	6	4.9	8	3	7.5
M9	× 1	**T7309409**	17	63	27	7	5.5	8	4	8
M10	× 1.25	**T7309439**	22	70	32	7	5.5	8	4	8.8
M10	× 1	**T7309449**	18	63	27	7	5.5	8	4	9
M10	× 0.75	**T7309459**	18	63	27	7	5.5	8	4	9.2
M11	× 1	**T7309479**	18	63	27	8	6.2	9	4	10
M12	× 1.5	**T7309519**	20	70	32	9	7	10	4	10.5
M12	× 1.25	**T7309529**	20	70	32	9	7	10	4	10.8
M12	× 1	**T7309539**	18	70	32	9	7	10	4	11
M13	× 1.5	**T7309N19**	20	70	32	11	9	12	4	11.5
M13	× 1	**T7309N29**	18	70	32	11	9	12	4	12
M14	× 1.5	**T7309559**	20	70	32	11	9	12	4	12.5
M14	× 1.25	**T7309569**	20	70	32	11	9	12	4	12.8
M14	× 1	**T7309579**	18	70	32	11	9	12	4	13
M15	× 1.5	**T7309589**	20	70	32	12	9	12	4	13.5
M15	× 1	**T7309599**	18	70	32	12	9	12	4	14
M16	× 1.5	**T7309619**	20	70	32	12	9	12	4	14.5

▶ NEXT PAGE

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7309 SERIES

MF ISO metric fine threads DIN 13

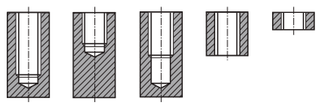
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

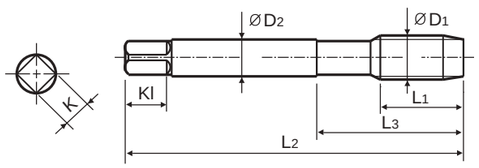
▶ This tap is a serial hand tap in set, First and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

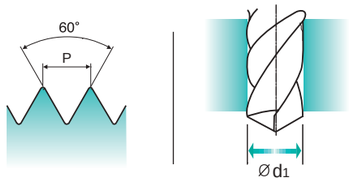
▶ Handgewindebohrersatz mit Vor- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

First
Bottoming

Hole type
2.0×D







Material groups GS | HSS | DIN 2181 | 6H | 60° | I / III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE ØD1	Pitch P	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
M16	× 1	T7309629	18	70	32	12	9	12	4	15
M18	× 2	T7309669	22	80	35	14	11	14	4	16
M18	× 1.5	T7309679	22	80	35	14	11	14	4	16.5
M18	× 1	T7309689	18	80	35	14	11	14	4	17
M20	× 2	T7309719	22	80	35	16	12	15	4	18
M20	× 1.5	T7309729	22	80	35	16	12	15	4	18.5
M20	× 1	T7309739	18	80	35	16	12	15	4	19
M22	× 2	T7309759	22	80	35	18	14.5	17	4	20
M22	× 1.5	T7309769	22	80	35	18	14.5	17	4	20.5
M22	× 1	T7309779	18	80	35	18	14.5	17	4	21
M24	× 2	T7309799	22	90	40	18	14.5	17	4	22
M24	× 1.5	T7309809	22	90	40	18	14.5	17	4	22.5
M24	× 1	T7309819	18	90	40	18	14.5	17	4	23
M25	× 1.5	T7309839	22	90	40	18	14.5	17	4	23.5
M25	× 1	T7309849	18	90	40	18	14.5	17	4	24
M26	× 1.5	T7309859	22	90	40	18	14.5	17	4	24.5
M26	× 1	T7309N59	18	90	40	18	14.5	17	4	25
M27	× 2	T7309879	22	90	40	20	16	19	4	25
M27	× 1.5	T7309889	22	90	40	20	16	19	4	25.5
M27	× 1	T7309899	18	90	40	20	16	19	4	26
M28	× 2	T7309909	22	90	40	20	16	19	4	26
M28	× 1.5	T7309919	22	90	40	20	16	19	4	26.5
M30	× 2	T7309969	22	90	40	22	18	21	4	28
M30	× 1.5	T7309979	22	90	40	22	18	21	4	28.5
M30	× 1	T7309989	18	90	40	22	18	21	4	29

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7363 SERIES

UNC Unified coarse threads

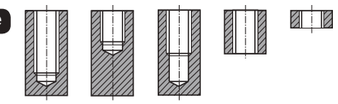
Unified Grobgewinde
UNC
Unificato passo grosso

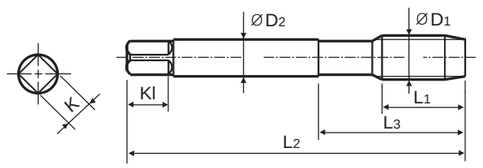
▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

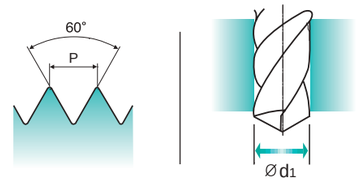
▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

First
Second
Bottoming

Hole type
2.0×D







Material groups GS | HSS | DIN 351 | 2B | 60° | I / II / III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#2	- 56UNC	T7363089	9	36	13	2.8	2.1	5	3	1.8
#3	- 48UNC	T7363129	10	40	15	2.8	2.1	5	3	2.1
#4	- 40UNC	T7363169	10	42	18	3.5	2.7	6	3	2.3
#5	- 40UNC	T7363209	10	42	18	3.5	2.7	6	3	2.6
#6	- 32UNC	T7363249	11	45	18	4	3	6	3	2.85
#8	- 32UNC	T7363289	12	48	23	4.5	3.4	6	3	3.5
#10	- 24UNC	T7363329	14	52	26	6	4.9	6	3	3.9
#12	- 24UNC	T7363369	16	56	27	6	4.9	8	3	4.5
1/4	- 20UNC	T7363409	16	56	27	6	4.9	8	3	5.2
5/16	- 18UNC	T7363449	20	63	34	6	4.9	8	3	6.6
3/8	- 16UNC	T7363489	22	70	38	7	5.5	8	4	8
7/16	- 14UNC	T7363529	22	70	38	8	6.2	9	4	9.4
1/2	- 13UNC	T7363569	25	80	45	9	7	10	4	10.75
9/16	- 12UNC	T7363609	26	80	45	11	9	12	4	12.25
5/8	- 11UNC	T7363649	27	90	55	12	9	12	4	13.5
3/4	- 10UNC	T7363709	32	105	65	14	11	14	4	16.5
7/8	- 9UNC	T7363749	32	110	69	18	14.5	17	4	19.5
1	- 8UNC	T7363789	36	110	69	20	16	19	4	22.25
1-1/8	- 7UNC	T7363829	40	125	77	22	18	21	4	25
1-1/4	- 7UNC	T7363869	40	125	77	25	20	23	4	28.25
1-1/8	- 6UNC	T7363909	50	150	88	28	22	25	4	30.75
1-1/2	- 6UNC	T7363949	50	150	88	32	24	27	4	34
1-3/4	- 5UNC	T7363B89	58	160	93	36	29	32	4	39.5
2	- 4½UNC	T7363D29	65	180	102	40	32	35	4	45.25

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7509 SERIES

UNF

Unified fine threads

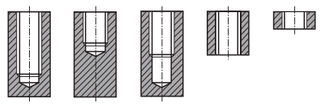
Unified Feingewinde
UNF
Unificato passo fine

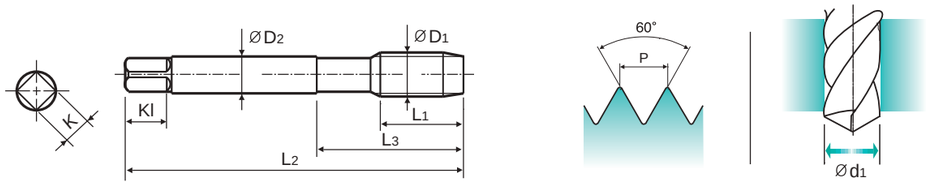
▶ This tap is a serial hand tap in set, First and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

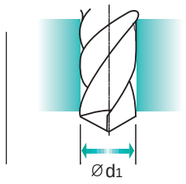
▶ Handgewindebohrersatz mit Vor- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

First
Bottoming

Hole type
2.0×D







Material groups GS | HSS | DIN 2181 | 2B | 60° | I/III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	48 UNF	T7509189	10	42	18	3.5	2.7	6	3	2.4
#5	44 UNF	T7509229	10	42	18	3.5	2.7	6	3	2.7
#6	40 UNF	T7509269	11	45	18	4	3	6	3	3
#8	36 UNF	T7509309	12	48	23	4.5	3.4	6	3	3.5
#10	32 UNF	T7509349	14	52	22	6	4.9	8	3	4.1
#12	28 UNF	T7509389	16	56	24	6	4.9	8	3	4.7
1/4	28 UNF	T7509429	16	56	24	6	4.9	8	3	5.5
5/16	24 UNF	T7509469	17	63	27	6	4.9	8	3	6.9
3/8	24 UNF	T7509509	18	63	27	7	5.5	8	4	8.5
7/16	20 UNF	T7509549	20	70	32	8	6.2	9	4	9.9
1/2	20 UNF	T7509589	20	70	32	9	7	10	4	11.5
9/16	18 UNF	T7509629	20	70	32	11	9	12	4	12.9
5/8	18 UNF	T7509669	20	70	32	12	9	12	4	14.5
3/4	16 UNF	T7509729	22	80	38	14	11	14	4	17.5
7/8	14 UNF	T7509769	22	80	38	18	14.5	17	4	20.5
1	12 UNF	T7509809	22	90	40	18	14.5	17	4	23.25
1-1/8	12 UNF	T7509849	22	90	40	22	18	21	4	26.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

T7609 SERIES

BSW

Whitworth threads

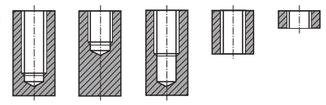
Whitworth Gewinde
BSW
Filettatura Whitworth

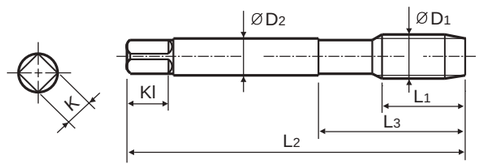
▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

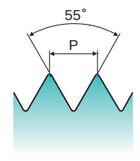
▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

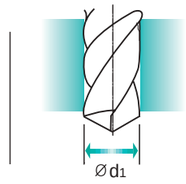
First
Second
Bottoming

Hole type
2.0×D









Material groups GS | HSS | DIN 351 | 55° | I/II/III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
W3/32	48	T7609129	10	40	15	2.8	2.1	5	3	1.8
W1/8	40	T7609209	10	42	18	3.5	2.7	6	3	2.5
W5/32	32	T7609289	12	48	23	4.5	3.4	6	3	3.1
W3/16	24	T7609329	14	52	26	6	4.9	8	3	3.6
W7/32	24	T7609369	16	56	27	6	4.9	8	3	4.4
W1/4	20	T7609409	16	56	27	6	4.9	8	3	5.1
W5/16	18	T7609449	20	63	34	6	4.9	8	3	6.5
W3/8	16	T7609489	22	70	38	7	5.5	8	4	7.9
W7/16	14	T7609529	22	70	38	8	6.2	9	4	9.3
W1/2	12	T7609569	25	80	45	9	7	10	4	10.5
W9/16	12	T7609609	26	80	45	11	9	12	4	12
W5/8	11	T7609649	27	90	55	12	9	12	4	13.5
W3/4	10	T7609709	32	105	65	14	11	14	4	16.5
W7/8	9	T7609749	32	110	69	18	14.5	17	4	19.25
W1	8	T7609789	36	110	69	20	16	19	4	22
W1-1/8	7	T7609829	40	125	77	22	18	21	4	24.75
W1-1/4	7	T7609869	40	125	77	25	20	23	4	27.75
W1-3/8	6	T7609909	50	150	88	28	22	25	4	30.5
W1-1/2	6	T7609949	50	150	88	32	24	27	4	33.5
W1-5/8	5	T7609B29	56	150	88	32	24	27	4	35.5
W1-3/4	5	T7609B89	58	160	93	36	29	32	4	39
W1-7/8	4½	T7609C69	65	180	102	36	29	32	4	41.5
W2	4½	T7609D29	65	180	102	40	32	35	4	44.5

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

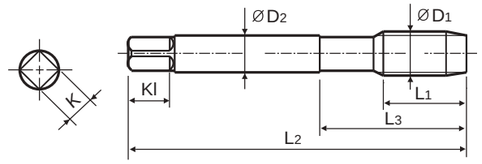
T7343 SERIES

M-LH ISO metric coarse threads DIN 13

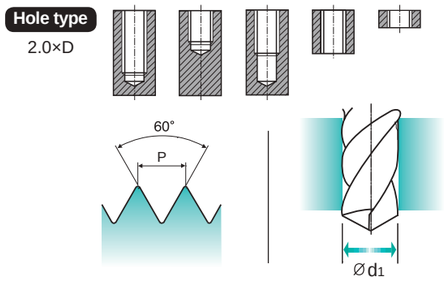
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.



Hole type
2.0×D



Material groups **GS** | HSS | DIN 352 | 6H | 60° | I/II/III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	**T7343209**	11	40	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**T7343229**	13	45	21	4	3	6	3	2.9
M4	× 0.7	**T7343249**	13	45	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**T7343269**	16	50	25	6	4.9	8	3	3.7
M5	× 0.8	**T7343289**	16	52	26	6	4.9	8	3	4.2
M6	× 1	**T7343319**	18	56	27	6	4.9	8	3	5
M8	× 1.25	**T7343369**	20	63	34	6	4.9	8	3	6.8
M10	× 1.5	**T7343429**	22	70	38	7	5.5	8	4	8.5
M12	× 1.75	**T7343509**	24	80	45	9	7	10	4	10.2
M14	× 2	**T7343549**	26	80	45	11	9	12	4	12
M16	× 2	**T7343609**	27	80	45	12	9	12	4	14
M18	× 2.5	**T7343659**	30	95	58	14	11	14	4	15.5
M20	× 2.5	**T7343709**	32	95	58	16	12	15	4	17.5
M22	× 2.5	**T7343749**	32	100	62	18	14.5	17	4	19.5
M24	× 3	**T7343789**	34	110	69	18	14.5	17	4	21
M27	× 3	**T7343869**	36	110	69	20	16	19	4	24
M30	× 3.5	**T7343949**	40	125	77	22	18	21	4	26.5

▶ LH=Left hand thread

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

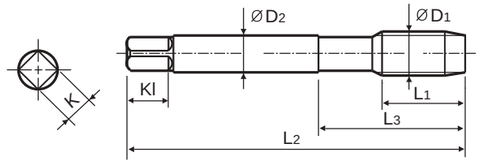
TB373 SERIES

M ISO metric coarse threads DIN 13

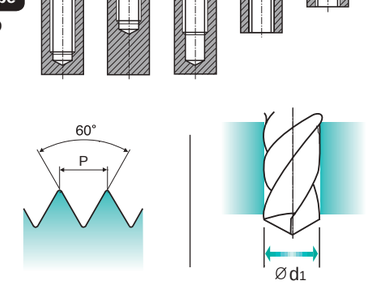
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.



Hole type
2.0×D



Material groups **GS** | HSS-E | DIN 352 | 6HX | 60° | I/II/III | Vap

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	**TB373209**	11	40	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TB373229**	13	45	21	4	3	6	3	2.9
M4	× 0.7	**TB373249**	13	45	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TB373269**	16	50	25	6	4.9	8	3	3.7
M5	× 0.8	**TB373289**	16	52	26	6	4.9	8	3	4.2
M6	× 1	**TB373319**	18	56	27	6	4.9	8	3	5
M8	× 1.25	**TB373369**	20	63	34	6	4.9	8	3	6.8
M10	× 1.5	**TB373429**	22	70	38	7	5.5	8	4	8.5
M12	× 1.75	**TB373509**	24	80	45	9	7	10	4	10.2
M14	× 2	**TB373549**	26	80	45	11	9	12	4	12
M16	× 2	**TB373609**	27	80	45	12	9	12	4	14
M18	× 2.5	**TB373659**	30	95	58	14	11	14	4	15.5
M20	× 2.5	**TB373709**	32	95	58	16	12	15	4	17.5

▶ First with pilot guide

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

TC353 SERIES

M ISO metric coarse threads DIN 13

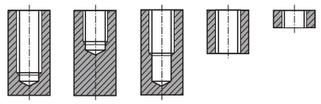
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

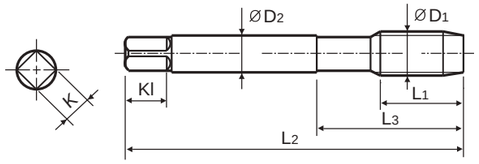
▶ This tap is a serial hand tap in set, First, Second and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only..

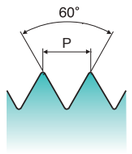
▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

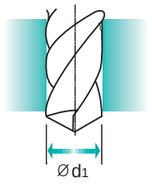
First
Second
Bottoming

Hole type
2.0×D









Material groups VG | HSS-E | DIN 352 | 6H | 60° | I/II/III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	TC353209	11	40	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC353229	13	45	21	4	3	6	3	2.9
M4	× 0.7	TC353249	13	45	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC353269	16	50	25	6	4.9	8	3	3.7
M5	× 0.8	TC353289	16	52	26	6	4.9	8	3	4.2
M6	× 1	TC353319	18	56	27	6	4.9	8	3	5
M8	× 1.25	TC353369	20	63	34	6	4.9	8	3	6.8
M10	× 1.5	TC353429	22	70	38	7	5.5	8	4	8.5
M12	× 1.75	TC353509	24	80	45	9	7	10	4	10.2
M14	× 2	TC353549	26	80	45	11	9	12	4	12
M16	× 2	TC353609	27	80	45	12	9	12	4	14
M18	× 2.5	TC353659	30	95	58	14	11	14	4	15.5
M20	× 2.5	TC353709	32	95	58	16	12	15	4	17.5

▶ First with pilot guide

◎ : Excellent ○ : Good

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

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

YG TAP GENERAL

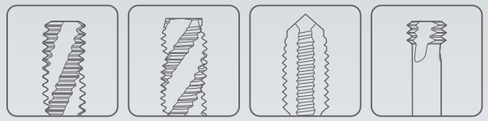
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	TC711 TC411 TC144 TC124 TC134	TD711 TD411	TC517 TC612	TC127 TC122 TC222 TC214 TC234 TC224	TD127 TD222	TC227	TD227	TC211	TC463 TC473 TC424
					Vc (m/min)								
P	1	Non-alloy steel	125		15-20	20-25	15-20	15-20	20-25	15-20	20-25	15-20	15-20
	2		190	13	15-20	20-25	15-20	15-20	20-25	15-20	20-25	15-20	15-20
	3		250	25	12-18	18-24	12-18	12-18	18-24	12-18	18-24	12-18	12-18
	4		270	28	10-15	15-20	10-15	10-15	15-20	10-15	15-20	10-15	10-15
	5		300	32	6-10	10-14	6-10	6-10	10-14	6-10	10-14	6-10	6-10
	6	Low alloy steel	180	10	10-15	15-20	10-15	10-15	15-20	10-15	15-20	10-15	10-15
	7		275	29	10-15	15-20	10-15	10-15	15-20	10-15	15-20	10-15	10-15
	8		300	32	6-10	10-14	6-10	6-10	10-14	6-10	10-14	6-10	6-10
	9		350	38									
	10	High alloyed steel, and tool steel	200	15									
	11		325	35									
M	12	Stainless steel	200	15	7-10	10-13	7-10	7-10	10-13	7-10	10-13	7-10	7-10
	13		240	23	5-8	8-11	5-8	5-8	8-11	5-8	8-11	5-8	5-8
	14		180	10									
K	15	Grey cast iron	180	10									10-15
	16		260	26									5-8
	17	Nodular cast iron	160	3	10-15	15-20	10-15	10-15	15-20	10-15	15-20	10-15	10-15
	18		250	25	5-8	8-11	5-8	5-8	8-11	5-8	8-11	5-8	5-8
	19	Malleable cast iron	130										
	20		230	21									
N	21	Aluminum-wrought alloy	60		10-15	15-20	10-15	10-15	15-20	10-15	15-20	10-15	
	22		100										
	23	Aluminum-cast, alloyed	75		15-20	20-25	15-20	15-20	20-25	15-20	20-25	15-20	
	24		90		15-20	20-25	15-20	15-20	20-25	15-20	20-25	15-20	
	25		130		10-15	15-20	10-15	10-15	15-20	10-15	15-20	10-15	10-15
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	35-40	25-35	25-35	35-40	25-35	35-40	25-35	25-35
	27		90										8-12
	28		100		15-20	20-25	15-20	15-20	20-25	15-20	20-25	15-20	
	29	Non Metallic Materials											
	30												
S	31	Heat Resistant Super Alloys	200	15									
	32		280	30									
	33		250	25									
	34		350	38									
	35		320	34									
	36	Titanium Alloys	400 Rm										
	37		1050 Rm										
H	38	Hardened steel	550	55									
	39		630	60									
	40	Chilled Cast Iron	400	42									
	41	Hardened Cast Iron	550	55									

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

Leading Through Innovation

Global Cutting Tool Leader **YG-1**



THREADING

HSS-E & HSS-PM

YG TAP STEEL

YG TAP STEEL

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

SELECTION GUIDE

YG THREADING TOOLS

HSS-E & HSS-PM
YG TAP STEEL

For Steel Materials but also other Long Chip Forming Materials

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.189

| | | |

YG TAP STEEL

TQ823 SERIES

M ISO metric coarse threads DIN 13

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

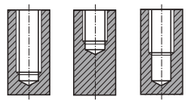
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

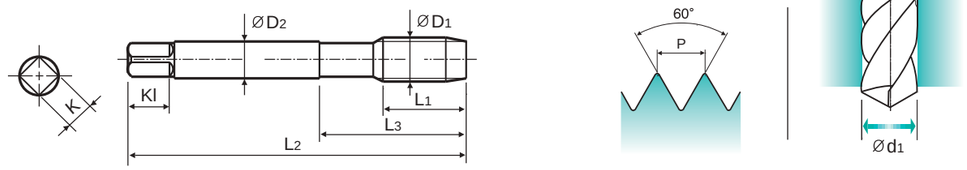
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TQ823136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TQ823156**	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	**TQ823176**	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	**TQ823206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TQ823226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TQ823246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TQ823266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TQ823286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TQ823316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TQ823346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TQ823366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TQ823426**	15	100	39	10	8	11	3	8.5
M12	× 1.75	**TQ823506**	18	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TR823 SERIES

M ISO metric coarse threads DIN 13

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

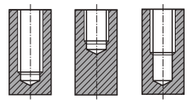
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

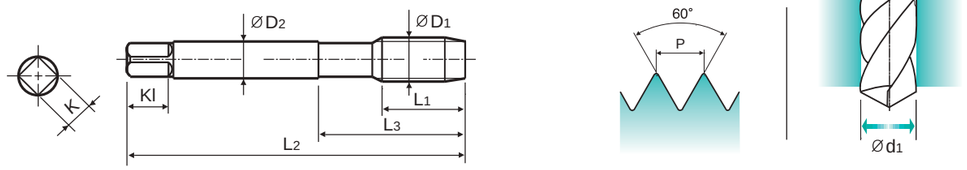
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TR823136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TR823156**	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	**TR823176**	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	**TR823206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TR823226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TR823246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TR823266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TR823286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TR823316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TR823346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TR823366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TR823426**	15	100	39	10	8	11	3	8.5
M12	× 1.75	**TR823506**	18	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TC312 SERIES

M ISO metric coarse threads DIN 13

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

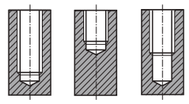
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

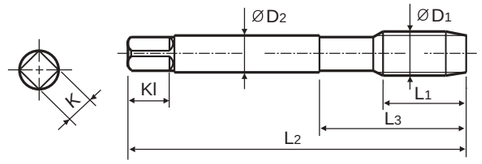
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TC312136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC312156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TC312196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC312176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TC312496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC312206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC312226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TC312246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC312266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC312286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TC312316	10	80	30	6	4.9	8	3	5
M7	× 1	TC312346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TC312366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC312396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TC312426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TC312466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC312506	18	110	44	9	7	10	3	10.2
M14	× 2	TC312546	20	110	44	11	9	12	3	12
M16	× 2	TC312606	20	110	44	12	9	12	3	14
M18	× 2.5	TC312656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TC312706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TC312746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TC312786	30	160	60	18	14.5	17	4	21
M27	× 3	TC312866	30	160	60	20	16	19	4	24
M30	× 3.5	TC312946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TD312 SERIES

M ISO metric coarse threads DIN 13

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

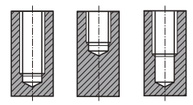
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

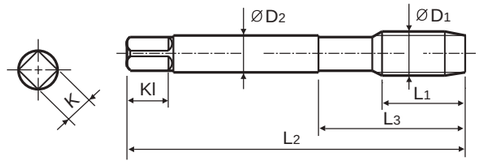
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

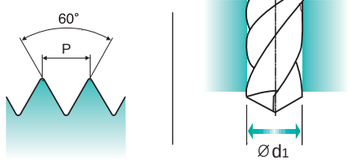
DIN 371

DIN 376

Hole type
2.5×D







Material groups **VG** | HSS-E | DIN 371/376 | 6H | 60° | C | TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TD312136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TD312156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TD312196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TD312176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TD312496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TD312206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TD312226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TD312246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TD312266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TD312286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TD312316	10	80	30	6	4.9	8	3	5
M7	× 1	TD312346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TD312366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TD312396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TD312426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TD312466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TD312506	18	110	44	9	7	10	3	10.2
M14	× 2	TD312546	20	110	44	11	9	12	3	12
M16	× 2	TD312606	20	110	44	12	9	12	3	14
M18	× 2.5	TD312656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TD312706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TD312746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TD312786	30	160	60	18	14.5	17	4	21
M27	× 3	TD312866	30	160	60	20	16	19	4	24
M30	× 3.5	TD312946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

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

YG TAP STEEL

TB312 SERIES

M ISO metric coarse threads DIN 13

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

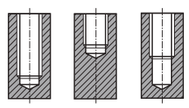
▶ Suitable for threading blind holes due to excellent chip evacuation of tempered steels or similar work materials.

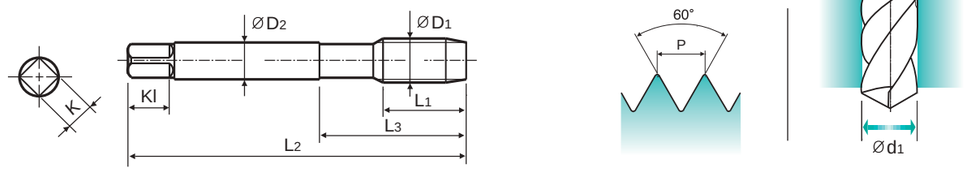
▶ Geeignet zum Gewinden von Sacklöchern dank ausgezeichneter Spanabfuhr von angelassenen Stählen oder ähnlichen Werkstoffen.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **VG** | HSS-E | DIN 371/376 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L_1	L_2	L_3	ØD_2	K	Kl	Z	Ød_1
M2	× 0.4	**TB312136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TB312156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TB312196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TB312176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TB312496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TB312206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TB312226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TB312246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TB312266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TB312286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TB312316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TB312346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TB312366**	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	**TB312396**	13	90	35	9	7	10	3	7.8
M10	× 1.5	**TB312426**	15	100	39	10	8	11	3	8.5
M11	× 1.5	**TB312466**	17	100	40	8	6.2	12	3	9.5
M12	× 1.75	**TB312506**	18	110	44	9	7	10	3	10.2
M14	× 2	**TB312546**	20	110	44	11	9	12	3	12
M16	× 2	**TB312606**	20	110	44	12	9	12	3	14
M18	× 2.5	**TB312656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TB312706**	25	140	54	16	12	15	4	17.5
M22	× 2.5	**TB312746**	25	140	54	18	14.5	17	4	19.5
M24	× 3	**TB312786**	30	160	60	18	14.5	17	4	21
M27	× 3	**TB312866**	30	160	60	20	16	19	4	24
M30	× 3.5	**TB312946**	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TY312 SERIES

M ISO metric coarse threads DIN 13

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

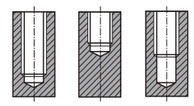
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

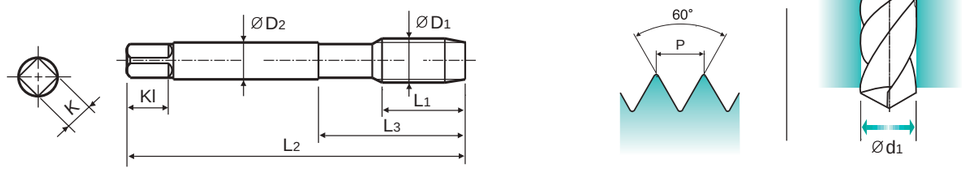
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L_1	L_2	L_3	ØD_2	K	Kl	Z	Ød_1
M2	× 0.4	**TY312136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TY312156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TY312196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TY312176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TY312496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TY312206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TY312226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TY312246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TY312266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TY312286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TY312316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TY312346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TY312366**	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	**TY312396**	13	90	35	9	7	10	3	7.8
M10	× 1.5	**TY312426**	15	100	39	10	8	11	3	8.5
M11	× 1.5	**TY312466**	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	**TY312506**	18	110	44	9	7	10	3	10.2
M14	× 2	**TY312546**	20	110	44	11	9	12	3	12
M16	× 2	**TY312606**	20	110	44	12	9	12	3	14
M18	× 2.5	**TY312656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TY312706**	25	140	54	16	12	15	4	17.5
M22	× 2.5	**TY312746**	25	140	54	18	14.5	17	4	19.5
M24	× 3	**TY312786**	30	160	60	18	14.5	17	4	21
M27	× 3	**TY312866**	30	160	60	20	16	19	4	24
M30	× 3.5	**TY312946**	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

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

YG TAP STEEL

TC413 SERIES

MF ISO metric fine threads DIN 13

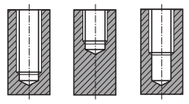
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo grosso DIN 13

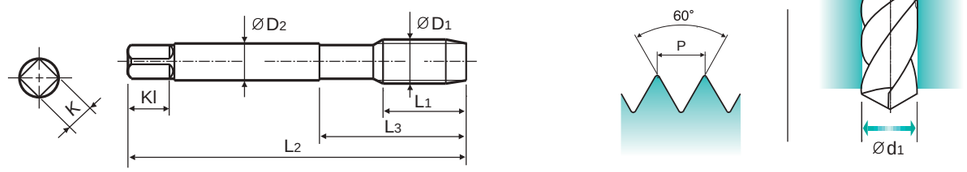
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 374

Hole type
2.5×D





Material groups **VG** | HSS-E | DIN 374 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TC413256**	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TC413296**	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TC413326**	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TC413336**	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TC413356**	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TC413376**	10	90	36	6	4.9	8	3	7
M8	× 0.75	**TC413386**	8	80	30	6	4.9	8	3	7.2
M10	× 1.25	**TC413436**	16	100	40	7	5.5	8	3	8.8
M10	× 1	**TC413446**	10	90	36	7	5.5	8	3	9
M10	× 0.75	**TC413456**	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TC413516**	15	100	40	9	7	10	3	10.5
M12	× 1.25	**TC413526**	15	100	40	9	7	10	3	10.8
M12	× 1	**TC413536**	11	100	40	9	7	10	3	11
M14	× 1.5	**TC413556**	15	100	40	11	9	12	3	12.5
M14	× 1.25	**TC413566**	15	100	40	11	9	12	3	12.8
M16	× 1.5	**TC413616**	15	100	40	12	9	12	3	14.5
M18	× 1.5	**TC413676**	17	110	44	14	11	14	4	16.5
M20	× 1.5	**TC413726**	17	125	50	16	12	15	4	18.5
M22	× 1.5	**TC413766**	17	125	50	18	14.5	17	4	20.5
M24	× 1.5	**TC413806**	20	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TD413 SERIES

MF ISO metric fine threads DIN 13

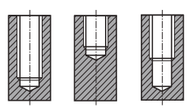
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo grosso DIN 13

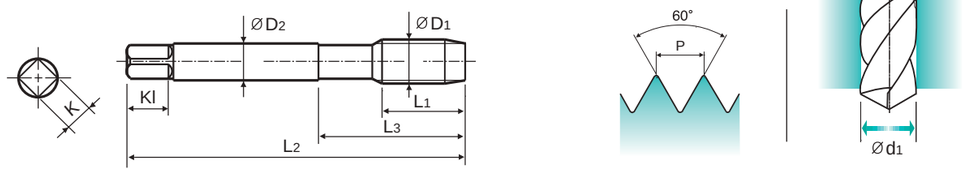
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 374

Hole type
2.5×D





Material groups **VG** | HSS-E | DIN 374 | 6H | 60° | C | TiN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TD413256**	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TD413296**	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TD413326**	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TD413336**	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TD413356**	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TD413376**	10	90	36	6	4.9	8	3	7
M8	× 0.75	**TD413386**	8	80	30	6	4.9	8	3	7.2
M10	× 1.25	**TD413436**	16	100	40	7	5.5	8	3	8.8
M10	× 1	**TD413446**	10	90	36	7	5.5	8	3	9
M10	× 0.75	**TD413456**	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TD413516**	15	100	40	9	7	10	3	10.5
M12	× 1.25	**TD413526**	15	100	40	9	7	10	3	10.8
M12	× 1	**TD413536**	11	100	40	9	7	10	3	11
M14	× 1.5	**TD413556**	15	100	40	11	9	12	3	12.5
M14	× 1.25	**TD413566**	15	100	40	11	9	12	3	12.8
M16	× 1.5	**TD413616**	15	100	40	12	9	12	3	14.5
M18	× 1.5	**TD413676**	17	110	44	14	11	14	4	16.5
M20	× 1.5	**TD413726**	17	125	50	16	12	15	4	18.5
M22	× 1.5	**TD413766**	17	125	50	18	14.5	17	4	20.5
M24	× 1.5	**TD413806**	20	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

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

YG TAP STEEL

TC174 SERIES

UNC Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

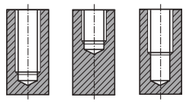
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

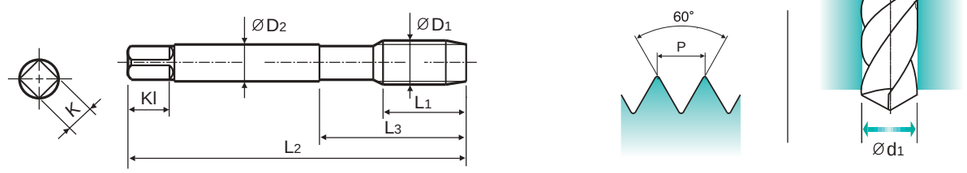
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type 2.5×D





Material groups **VG** | HSS-E | DIN 371/376 | 2B | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	40UNC	**TC174162**	6	56	18	3.5	2.7	6	3	2.3
#5	40UNC	**TC174202**	7	56	18	3.5	2.7	6	3	2.6
#6	32UNC	**TC174242**	7	56	20	4	3	6	3	2.85
#8	32UNC	**TC174282**	8	63	21	4.5	3.4	6	3	3.5
#10	24UNC	**TC174322**	10	70	25	6	4.9	8	3	3.9
#12	24UNC	**TC174362**	10	80	30	6	4.9	8	3	4.5
1/4	20UNC	**TC174402**	13	80	30	7	5.5	8	3	5.2
5/16	18UNC	**TC174442**	14	90	35	8	6.2	9	3	6.6
3/8	16UNC	**TC174482**	16	100	39	9	7	10	3	8
7/16	14UNC	**TC174522**	17	100	40	8	6.2	9	3	9.4
1/2	13UNC	**TC174562**	20	110	44	9	7	10	3	10.75
9/16	12UNC	**TC174602**	20	110	44	11	9	12	3	12.25
5/8	11UNC	**TC174642**	22	110	44	12	9	12	3	13.5
3/4	10UNC	**TC174702**	25	125	50	14	11	14	4	16.5
7/8	9UNC	**TC174742**	27	140	54	18	14.5	17	4	19.5
1	8UNC	**TC174782**	30	160	60	20	16	19	4	22.25
1-1/8	7UNC	**TC174822**	35	180	65	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TD174 SERIES

UNC Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

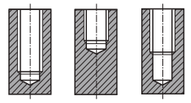
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

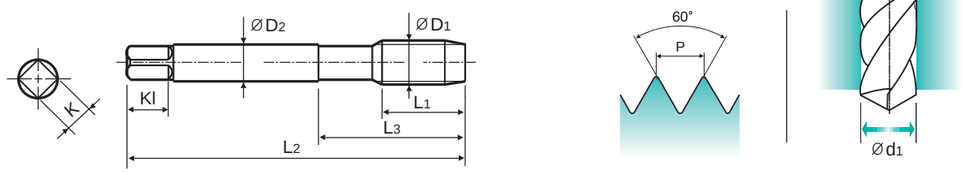
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type 2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE ØD1	TPI	EDP No. TiN	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	40UNC	**TD174162**	6	56	18	3.5	2.7	6	3	2.3
#5	40UNC	**TD174202**	7	56	18	3.5	2.7	6	3	2.6
#6	32UNC	**TD174242**	7	56	20	4	3	6	3	2.85
#8	32UNC	**TD174282**	8	63	21	4.5	3.4	6	3	3.5
#10	24UNC	**TD174322**	10	70	25	6	4.9	8	3	3.9
#12	24UNC	**TD174362**	10	80	30	6	4.9	8	3	4.5
1/4	20UNC	**TD174402**	13	80	30	7	5.5	8	3	5.2
5/16	18UNC	**TD174442**	14	90	35	8	6.2	9	3	6.6
3/8	16UNC	**TD174482**	16	100	39	9	7	10	3	8
7/16	14UNC	**TD174522**	17	100	40	8	6.2	9	3	9.4
1/2	13UNC	**TD174562**	20	110	44	9	7	10	3	10.75
9/16	12UNC	**TD174602**	20	110	44	11	9	12	3	12.25
5/8	11UNC	**TD174642**	22	110	44	12	9	12	3	13.5
3/4	10UNC	**TD174702**	25	125	50	14	11	14	4	16.5
7/8	9UNC	**TD174742**	27	140	54	18	14.5	17	4	19.5
1	8UNC	**TD174782**	30	160	60	20	16	19	4	22.25
1-1/8	7UNC	**TD174822**	35	180	65	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TC184 SERIES

UNF

Unified fine threads

Unified Feingewinde
UNF
Unificato passo grosso

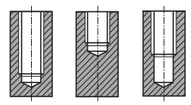
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

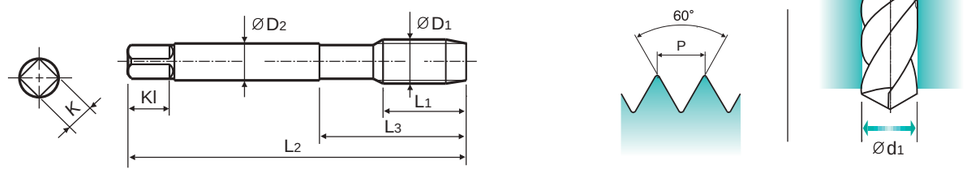
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 374

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	- 48UNF	TC184182	6	56	18	3.5	2.7	6	3	2.4
#5	- 44UNF	TC184222	7	56	18	3.5	2.7	6	3	2.7
#6	- 40UNF	TC184262	7	56	20	4	3	6	3	3
#8	- 36UNF	TC184302	8	63	21	4.5	3.4	6	3	3.5
#10	- 32UNF	TC184342	10	70	25	6	4.9	8	3	4.1
#12	- 28UNF	TC184382	10	80	30	6	4.9	8	3	4.7
1/4	- 28UNF	TC184422	10	80	30	7	5.5	8	3	5.5
5/16	- 24UNF	TC184462	10	90	35	8	6.2	9	3	6.9
3/8	- 24UNF	TC184502	10	100	39	9	7	10	3	8.5
7/16	- 20UNF	TC184542	13	100	40	8	6.2	9	3	9.9
1/2	- 20UNF	TC184582	13	100	40	9	7	10	3	11.5
9/16	- 18UNF	TC184622	15	100	40	11	9	12	3	12.9
5/8	- 18UNF	TC184662	15	100	40	12	9	12	3	14.5
3/4	- 16UNF	TC184722	17	110	44	14	11	14	4	17.5
7/8	- 14UNF	TC184762	17	125	50	18	14.5	17	4	20.5
1	- 12UNF	TC184802	20	140	54	18	14.5	17	4	23.25
1-1/8	- 12UNF	TC184842	22	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TB913 SERIES

M

ISO metric coarse threads DIN 13

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

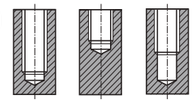
▶ With recessed threads for machine tapping of deep blind holes.
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

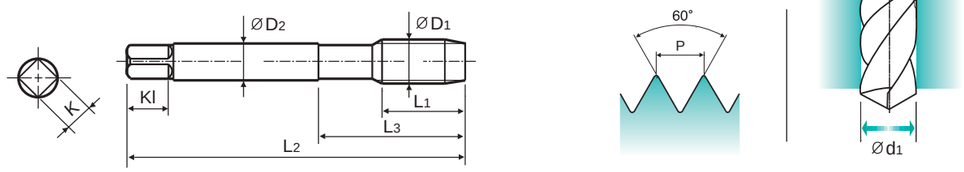
▶ Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups VG | HSS-E | DIN 371/376 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TB913136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TB913156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TB913196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TB913176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TB913496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TB913206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TB913226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TB913246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TB913266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TB913286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TB913316	10	80	30	6	4.9	8	3	5
M7	× 1	TB913346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TB913366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TB913396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TB913426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TB913466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TB913506	18	110	44	9	7	10	3	10.2
M14	× 2	TB913546	20	110	44	11	9	12	3	12
M16	× 2	TB913606	20	110	44	12	9	12	3	14
M18	× 2.5	TB913656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TB913706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TB913746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TB913786	30	160	60	18	14.5	17	4	21
M27	× 3	TB913866	30	160	60	20	16	19	4	24
M30	× 3.5	TB913946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

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

YG TAP STEEL

TQ863 SERIES

M ISO metric coarse threads DIN 13

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

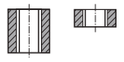
▶ Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.

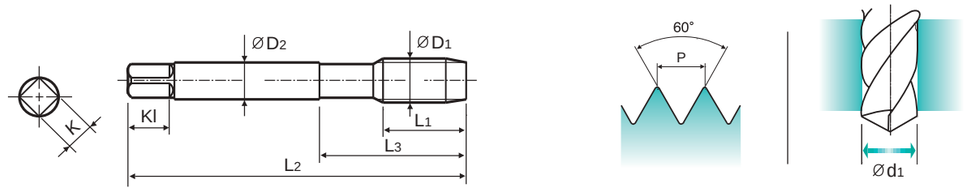
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke und bestem Werkstoff.

DIN 371

DIN 376

Hole type
3.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TQ863136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TQ863156	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	TQ863176	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	TQ863206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TQ863226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TQ863246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TQ863266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TQ863286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TQ863316	17	80	30	6	4.9	8	3	5
M7	× 1	TQ863346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TQ863366	20	90	35	8	6.2	9	3	6.8
M10	× 1.5	TQ863426	22	100	39	10	8	11	3	8.5
M12	× 1.75	TQ863506	24	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TR863 SERIES

M ISO metric coarse threads DIN 13

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

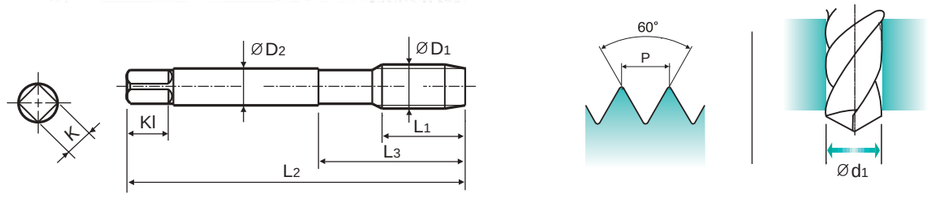
▶ Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.

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

DIN 371

DIN 376

Hole type
3.0×D



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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TR863136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TR863156	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	TR863176	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	TR863206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TR863226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TR863246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TR863266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TR863286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TR863316	17	80	30	6	4.9	8	3	5
M7	× 1	TR863346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TR863366	20	90	35	8	6.2	9	3	6.8
M10	× 1.5	TR863426	22	100	39	10	8	11	3	8.5
M12	× 1.75	TR863506	24	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

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

YG TAP STEEL

TC422 SERIES

M ISO metric coarse threads DIN 13

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

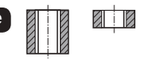
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

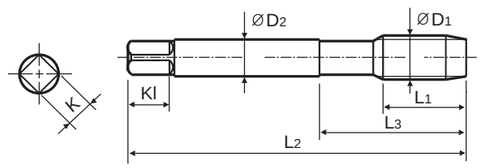
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

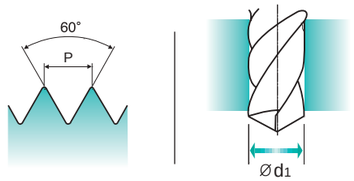
DIN 371

DIN 376

Hole type
3.0×D







Material groups **VG** | HSS-E | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TC422136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TC422196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TC422496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC422206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC422226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TC422246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC422266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC422286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TC422316	17	80	30	6	4.9	8	3	5
M7	× 1	TC422346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TC422366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC422396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TC422426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TC422466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC422506	24	110	44	9	7	10	3	10.2
M14	× 2	TC422546	26	110	44	11	9	12	3	12
M16	× 2	TC422606	27	110	44	12	9	12	3	14
M18	× 2.5	TC422656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TC422706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TC422746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TC422786	34	160	60	18	14.5	17	4	21
M27	× 3	TC422866	36	160	60	20	16	19	4	24
M30	× 3.5	TC422946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TD422 SERIES

M ISO metric coarse threads DIN 13

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

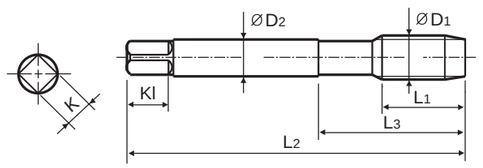
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

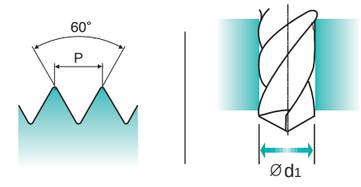
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **VG** | HSS-E | DIN 371/376 | 6H | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TD422136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TD422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TD422196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TD422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TD422496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TD422206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TD422226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TD422246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TD422266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TD422286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TD422316	17	80	30	6	4.9	8	3	5
M7	× 1	TD422346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TD422366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TD422396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TD422426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TD422466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TD422506	24	110	44	9	7	10	3	10.2
M14	× 2	TD422546	26	110	44	11	9	12	3	12
M16	× 2	TD422606	27	110	44	12	9	12	3	14
M18	× 2.5	TD422656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TD422706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TD422746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TD422786	34	160	60	18	14.5	17	4	21
M27	× 3	TD422866	36	160	60	20	16	19	4	24
M30	× 3.5	TD422946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TE422 SERIES

M ISO metric coarse threads DIN 13

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

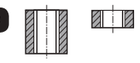
▶ Recommended for tapping abrasive materials due to nitriding, not suitable for tapping tough or high strength materials.

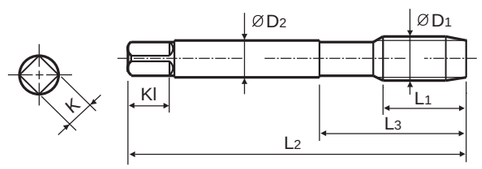
▶ Empfohlen für das Gewindeschneiden verschleißfordernder Werkstoffe wegen der Nitrierung; nicht geeignet für das Gewinden zaher oder hochfester Werkstoffe.

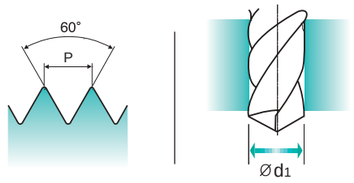
DIN 371

DIN 376

Hole type
3.0×D







Material groups **VG** | HSS-E | DIN 371/376 | 6H | 60° | B | Nl

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Ni	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TE422136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TE422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TE422196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TE422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TE422496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TE422206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TE422226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TE422246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TE422266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TE422286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TE422316	17	80	30	6	4.9	8	3	5
M7	× 1	TE422346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TE422366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TE422396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TE422426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TE422466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TE422506	24	110	44	9	7	10	3	10.2
M14	× 2	TE422546	26	110	44	11	9	12	3	12
M16	× 2	TE422606	27	110	44	12	9	12	3	14
M18	× 2.5	TE422656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TE422706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TE422746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TE422786	34	160	60	18	14.5	17	4	21
M27	× 3	TE422866	36	160	60	20	16	19	4	24
M30	× 3.5	TE422946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TY422 SERIES

M ISO metric coarse threads DIN 13

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

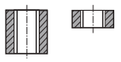
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

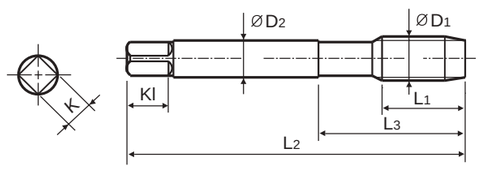
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

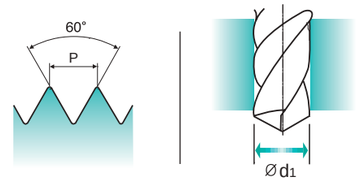
DIN 371

DIN 376

Hole type
3.0×D







Material groups **VG** | HSS-E | DIN 371/376 | 6H | 60° | B | TiAlN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TY422136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TY422156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TY422196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TY422176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TY422496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TY422206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TY422226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TY422246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TY422266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TY422286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TY422316	17	80	30	6	4.9	8	3	5
M7	× 1	TY422346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TY422366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TY422396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TY422426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TY422466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TY422506	24	110	44	9	7	10	3	10.2
M14	× 2	TY422546	26	110	44	11	9	12	3	12
M16	× 2	TY422606	27	110	44	12	9	12	3	14
M18	× 2.5	TY422656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TY422706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TY422746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TY422786	34	160	60	18	14.5	17	4	21
M27	× 3	TY422866	36	160	60	20	16	19	4	24
M30	× 3.5	TY422946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TC263 SERIES

MF — ISO metric fine threads DIN 13

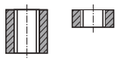
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

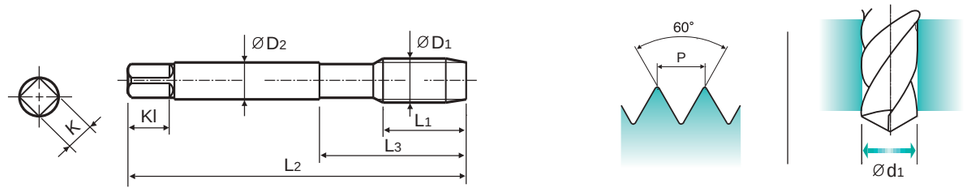
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 374

Hole type 3.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TC263256**	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TC263296**	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TC263326**	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TC263336**	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TC263356**	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TC263376**	17	90	36	6	4.9	8	3	7
M8	× 0.75	**TC263386**	14	80	30	6	4.9	8	3	7.2
M10	× 1.25	**TC263436**	22	100	40	7	5.5	8	3	8.8
M10	× 1	**TC263446**	18	90	36	7	5.5	8	3	9
M10	× 0.75	**TC263456**	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TC263516**	22	100	40	9	7	10	3	10.5
M12	× 1.25	**TC263526**	22	100	40	9	7	10	3	10.8
M12	× 1	**TC263536**	18	100	40	9	7	10	3	11
M14	× 1.5	**TC263556**	22	100	40	11	9	12	3	12.5
M14	× 1.25	**TC263566**	22	100	40	11	9	12	3	12.8
M16	× 1.5	**TC263616**	22	100	40	12	9	12	3	14.5
M18	× 1.5	**TC263676**	25	110	44	14	11	14	4	16.5
M20	× 1.5	**TC263726**	25	125	50	16	12	15	4	18.5
M22	× 1.5	**TC263766**	25	125	50	18	14.5	17	4	20.5
M24	× 1.5	**TC263806**	27	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TD263 SERIES

MF — ISO metric fine threads DIN 13

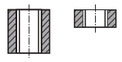
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

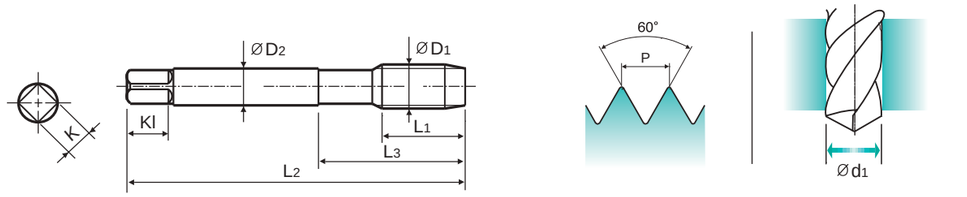
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 374

Hole type 3.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TD263256**	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TD263296**	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TD263326**	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TD263336**	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TD263356**	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TD263376**	17	90	36	6	4.9	8	3	7
M8	× 0.75	**TD263386**	14	80	30	6	4.9	8	3	7.2
M10	× 1.25	**TD263436**	22	100	40	7	5.5	8	3	8.8
M10	× 1	**TD263446**	18	90	36	7	5.5	8	3	9
M10	× 0.75	**TD263456**	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TD263516**	22	100	40	9	7	10	3	10.5
M12	× 1.25	**TD263526**	22	100	40	9	7	10	3	10.8
M12	× 1	**TD263536**	18	100	40	9	7	10	3	11
M14	× 1.5	**TD263556**	22	100	40	11	9	12	3	12.5
M14	× 1.25	**TD263566**	22	100	40	11	9	12	3	12.8
M16	× 1.5	**TD263616**	22	100	40	12	9	12	3	14.5
M18	× 1.5	**TD263676**	25	110	44	14	11	14	4	16.5
M20	× 1.5	**TD263726**	25	125	50	16	12	15	4	18.5
M22	× 1.5	**TD263766**	25	125	50	18	14.5	17	4	20.5
M24	× 1.5	**TD263806**	27	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

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

YG TAP STEEL

TC244 SERIES

UNC — Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

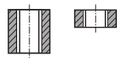
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

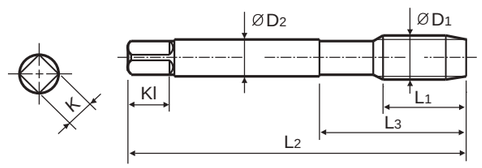
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

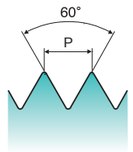
DIN 371

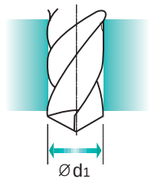
DIN 376

Hole type 3.0×D









Material groups **VG** | HSS-E | DIN 371/376 | 2B | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	- 40UNC	**TC244162**	11	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	**TC244202**	11	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	**TC244242**	12	56	20	4	3	6	3	2.85
#8	- 32UNC	**TC244282**	13	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	**TC244322**	15	70	25	6	4.9	8	3	3.9
#12	- 24UNC	**TC244362**	16	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	**TC244402**	17	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	**TC244442**	20	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	**TC244482**	22	100	39	9	7	10	3	8
7/16	- 14UNC	**TC244522**	22	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	**TC244562**	25	110	44	9	7	10	3	10.75
9/16	- 12UNC	**TC244602**	26	110	44	11	9	12	3	12.25
5/8	- 11UNC	**TC244642**	27	110	44	12	9	12	3	13.5
3/4	- 10UNC	**TC244702**	30	125	50	14	11	14	4	16.5
7/8	- 9UNC	**TC244742**	32	140	54	18	14.5	17	4	19.5
1	- 8UNC	**TC244782**	36	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	**TC244822**	40	180	70	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TD244 SERIES

UNC — Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

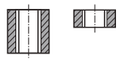
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

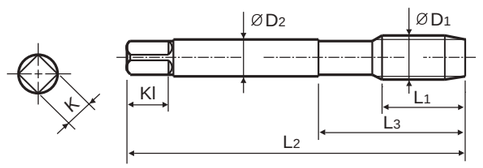
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

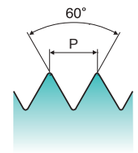
DIN 371

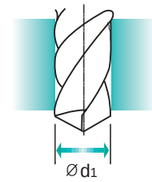
DIN 376

Hole type 3.0×D









Material groups **VG** | HSS-E | DIN 371/376 | 2B | 60° | B | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE ØD1	TPI	EDP No. TiN	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	- 40UNC	**TD244162**	11	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	**TD244202**	11	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	**TD244242**	12	56	20	4	3	6	3	2.85
#8	- 32UNC	**TD244282**	13	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	**TD244322**	15	70	25	6	4.9	8	3	3.9
#12	- 24UNC	**TD244362**	16	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	**TD244402**	17	80	30	7	5.5	8	3	5.2
5/16	- 18UNC	**TD244442**	20	90	35	8	6.2	9	3	6.6
3/8	- 16UNC	**TD244482**	22	100	39	9	7	10	3	8
7/16	- 14UNC	**TD244522**	22	100	40	8	6.2	9	3	9.4
1/2	- 13UNC	**TD244562**	25	110	44	9	7	10	3	10.75
9/16	- 12UNC	**TD244602**	26	110	44	11	9	12	3	12.25
5/8	- 11UNC	**TD244642**	27	110	44	12	9	12	3	13.5
3/4	- 10UNC	**TD244702**	30	125	50	14	11	14	4	16.5
7/8	- 9UNC	**TD244742**	32	140	54	18	14.5	17	4	19.5
1	- 8UNC	**TD244782**	36	160	60	20	16	19	4	22.25
1-1/8	- 7UNC	**TD244822**	40	180	70	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

TC254 SERIES

UNF Unified fine threads

Unified Feingewinde
UNF
Unificato passo fine

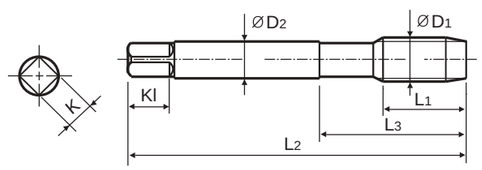
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

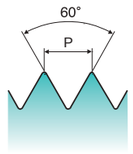
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

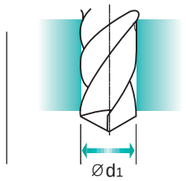
DIN 371

DIN 374

Hole type
3.0×D







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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.189

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	48UNF	TC254182	11	56	18	3.5	2.7	6	3	2.4
#5	44UNF	TC254222	11	56	18	3.5	2.7	6	3	2.7
#6	40UNF	TC254262	12	56	20	4	3	6	3	3
#8	36UNF	TC254302	13	63	21	4.5	3.4	6	3	3.5
#10	32UNF	TC254342	15	70	25	6	4.9	8	3	4.1
#12	28UNF	TC254382	16	80	30	6	4.9	8	3	4.7
1/4	28UNF	TC254422	17	80	30	7	5.5	8	3	5.5
5/16	24UNF	TC254462	17	90	35	8	6.2	9	3	6.9
3/8	24UNF	TC254502	18	100	39	9	7	10	3	8.5
7/16	20UNF	TC254542	22	100	40	8	6.2	9	3	9.9
1/2	20UNF	TC254582	22	100	40	9	7	10	3	11.5
9/16	18UNF	TC254622	22	100	40	11	9	12	3	12.9
5/8	18UNF	TC254662	22	100	40	12	9	12	3	14.5
3/4	16UNF	TC254722	25	110	44	14	11	14	4	17.5
7/8	14UNF	TC254762	26	125	50	18	14.5	17	4	20.5
1	12UNF	TC254802	28	140	54	18	14.5	17	4	23.25
1-1/8	12UNF	TC254842	30	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP STEEL

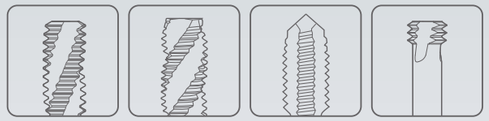
RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	TQ823	TR823	TC312 TC413 TC174 TC184	TD312 TD413 TD174	TB312	TY312	TB913	TQ863	TR863	TC422 TC263 TC244 TC254	TD422 TD263 TD244	TE422	TY422
					Vc (m/min)												
P	1	Non-alloy steel	125														
	2		190	13	15-20	15-20	15-20	20-25	15-20	20-25	15-20	15-20	15-20	15-20	15-20	20-25	20-25
	3		250	25	12-18	12-18	12-18	18-24	12-18	18-24	12-18	12-18	12-18	12-18	12-18	18-24	18-24
	4		270	28	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20
	5		300	32	6-10	6-10	6-10	10-14	6-10	10-14	6-10	6-10	6-10	6-10	6-10	10-14	10-14
	6	Low alloy steel	180	10	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20
	7		275	29	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20
	8		300	32	6-10	6-10	6-10	10-14	6-10	10-14	6-10	6-10	6-10	6-10	6-10	10-14	10-14
	9		350	38	3-5	3-5	3-5	5-7	3-5	5-7	3-5	3-5	3-5	3-5	3-5	5-7	5-7
	10	High alloyed steel, and tool steel	200	15	3-5	3-5	3-5	5-7	3-5	5-7	3-5	3-5	3-5	3-5	3-5	5-7	5-7
	11		325	35													
M	12	Stainless steel	200	15								7-10	7-10	7-10	7-10	10-15	10-15
	13		240	23								5-8	5-8	5-8	5-8	8-11	8-11
	14		180	10	4-6	4-6	4-6	6-8	4-6	6-8	4-6	4-6	4-6	4-6	4-6	6-8	6-8
K	15	Grey cast iron	180	10													
	16		260	26													
	17	Nodular cast iron	160	3													
	18		250	25													
	19	Malleable cast iron	130														
	20		230	21													
N	21	Aluminum-wrought alloy	60														
	22		100														
	23	Aluminum-cast, alloyed	75														
	24		90														
	25		130														
	26	Copper and Copper Alloys (Bronze / Brass)	110														
	27		90														
	28		100														
	29	Non Metallic Materials															
	30																
S	31	Heat Resistant Super Alloys	200	15	10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20
	32		280	30													
	33		250	25													
	34		350	38													
	35		320	34													
	36	Titanium Alloys	400 Rm		10-15	10-15	10-15	15-20	10-15	15-20	10-15	10-15	10-15	10-15	10-15	15-20	15-20
	37		1050 Rm														
H	38	Hardened steel	550	55													
	39		630	60													
	40	Chilled Cast Iron	400	42													
	41	Hardened Cast Iron	550	55													

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

Leading Through Innovation

Global Cutting Tool Leader **YG-1**



THREADING

SOLID CARBIDE & HSS-E

YG TAP HARDENED
YG HAHN GEHÄRTET

- **For Hardened Steels Applications to Control the Continuous and Red-glowing Chips**
- **Für gehärtete Stähle zur Kontrolle der kontinuierlichen und rotglühenden Späne**

SELECTION GUIDE

YG THREADING TOOLS

SOLID CARBIDE & HSS-E
YG TAP HARDENED

For Hardened Steels Applications
to Control the Continuous and Red-glowing Chips

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.201

			Max. 2.0xD Blind / Through Hole	
HOLE TYPE				
TOOL MATERIAL			CARBIDE	
CHAMFER LEAD ACC. TO DIN2197			C	D
FLUTE TYPE			Straight Flute	Straight Flute
SPIRAL FLUTE ANGLE			-	-
	M	DIN371/376	T0997-TIC (P.194)	T0999-TIC (P.195)
		DIN352		
		DIN357/LONG		
	MF	DIN—374		
		DIN2181		
	UNC	DIN371/376		
		DIN351		
	UNF	DIN371/374		
		DIN2181		
	BSW	DIN2182/2183		
		DIN351		
	G(BSP)	DIN5156/5157		
	EG-M	DIN371/376		
	EG-UNC	DIN371/376		
	EG-UNF	DIN371/374		
SURFACE TREATMENT			TiCN	TiCN
MODEL				

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

		Max. 2.5xD Blind Hole			Max. 3.0xD Through Hole		
		HSS-E			HSS-E		
		C	C	C	B	B	
		Spiral Flute	Spiral Flute	Spiral Flute	Spiral Point	Spiral Point	
		R40	R40	R40	-	-	
		TC313 (P.196)	TB313 (P.197)	TY313 (P.198)	TC283 (P.199)	TY283 (P.200)	
	M						M
	MF						MF
	UNC						UNC
	UNF						UNF
	BSW						BSW
	G(BSP)						G(BSP)
	EG-M						EG-M
	EG-UNC						EG-UNC
	EG-UNF						EG-UNF
		Bright	VAP	TiAlN	Bright	TiAlN	
P	1						1
	2						2
	3						3
	4						4
	5						5
	6						6
	7	○	○	○	○	○	7
	8	○	○	○	○	○	8
	9	◎	◎	◎	◎	◎	9
	10						10
	11						11
M	12						12
	13						13
	14	○	○	○	○	○	14
K	15						15
	16						16
	17						17
	18						18
	19						19
	20						20
N	21						21
	22						22
	23						23
	24						24
	25						25
	26	○	○	○	○	○	26
	27						27
	28						28
	29						29
	30						30
S	31						31
	32						32
	33						33
	34						34
	35						35
	36						36
	37						37
H	38						38
	39						39
	40						40
	41						41

YG TAP HARDENED

T0997-TIC SERIES

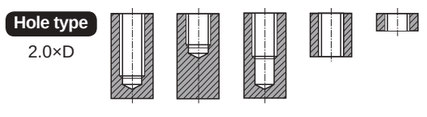
M ISO metric coarse threads DIN 13

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

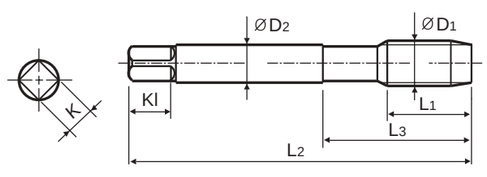
▶ Carbide tap can increase tool life longer than HSS taps due to higher hardness. Suitable for hardened steels (HRc50~60)

▶ VHM-Gewindebohrer ermöglichen aufgrund ihrer höheren Härte bessere Standzeiten als HSS-Gewindebohrer. Geeignet für gehärtete Stähle (HRc50~60)

DIN 371
DIN 376



Hole type
2.0×D



Material groups **HR** | CARBIDE | DIN 371/376 | 6HX | 60° | C | TiCN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

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	TiCN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	T0997206TIC	11	56	18	3.5	2.7	6	4	2.55
M4	× 0.7	T0997246TIC	13	63	21	4.5	3.4	6	4	3.4
M5	× 0.8	T0997286TIC	15	70	25	6	4.9	8	4	4.3
M6	× 1	T0997316TIC	17	80	30	6	4.9	8	5	5.1
M8	× 1.25	T0997366TIC	20	90	35	8	6.2	9	5	6.9
M10	× 1.5	T0997426TIC	22	100	39	10	8	11	5	8.6
M12	× 1.75	T0997506TIC	24	110	–	9	7	12	5	10.4
M14	× 2	T0997546TIC	26	110	–	11	9	12	6	12.2
M16	× 2	T0997606TIC	27	110	–	12	9	12	6	14.2
M18	× 2.5	T0997656TIC	30	125	–	14	11	14	6	15.7
M20	× 2.5	T0997706TIC	32	140	–	16	12	15	6	17.7

▶DIN 371(M3~M10) and DIN 376(M12~M20)

◎ : Excellent ○ : Good

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

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

YG TAP HARDENED

T0999-TIC SERIES

M ISO metric coarse threads DIN 13

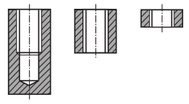
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

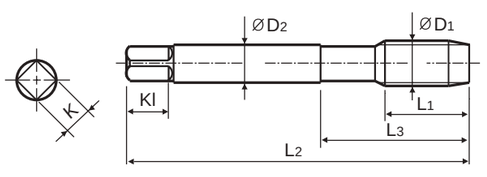
▶ Carbide tap can increase tool life longer than HSS taps due to higher hardness. Suitable for hardened steels (HRc50~60)

▶ VHM-Gewindebohrer ermöglichen aufgrund ihrer höheren Härte bessere Standzeiten als HSS-Gewindebohrer. Geeignet für gehärtete Stähle (HRc50~60)

DIN 371
DIN 376

Hole type
2.0×D





Material groups **HR** | CARBIDE | DIN 371/376 | 6HX | 60° | D | TiCN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

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	TiCN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M3	× 0.5	T0999206TIC	11	56	18	3.5	2.7	6	4	2.55
M4	× 0.7	T0999246TIC	13	63	21	4.5	3.4	6	4	3.4
M5	× 0.8	T0999286TIC	15	70	25	6	4.9	8	4	4.3
M6	× 1	T0999316TIC	17	80	30	6	4.9	8	5	5.1
M8	× 1.25	T0999366TIC	20	90	35	8	6.2	9	5	6.9
M10	× 1.5	T0999426TIC	22	100	39	10	8	11	5	8.6
M12	× 1.75	T0999506TIC	24	110	–	9	7	12	5	10.4
M14	× 2	T0999546TIC	26	110	–	11	9	12	6	12.2
M16	× 2	T0999606TIC	27	110	–	12	9	12	6	14.2
M18	× 2.5	T0999656TIC	30	125	–	14	11	14	6	15.7
M20	× 2.5	T0999706TIC	32	140	–	16	12	15	6	17.7

▶DIN 371(M3~M10) and DIN 376(M12~M20)

◎ : Excellent ○ : Good

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

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

YG TAP HARDENED

TC313 SERIES

M ISO metric coarse threads DIN 13

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

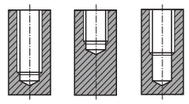
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

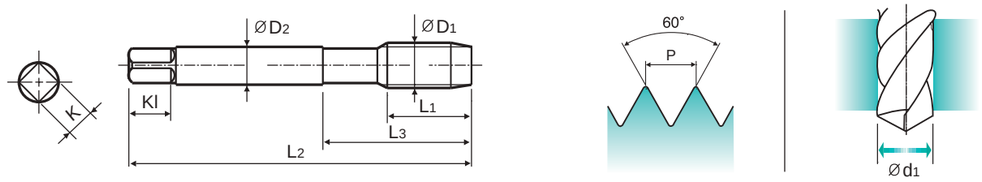
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **HR** | HSS-E | DIN 371/376 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

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		L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TC313136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TC313156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TC313196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TC313176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TC313496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TC313206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TC313226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TC313246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TC313266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TC313286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TC313316	10	80	30	6	4.9	8	3	5
M7	× 1	TC313346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TC313366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TC313396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TC313426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TC313466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TC313506	18	110	44	9	7	10	3	10.2
M14	× 2	TC313546	20	110	44	11	9	12	3	12
M16	× 2	TC313606	20	110	44	12	9	12	3	14
M18	× 2.5	TC313656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TC313706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TC313746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TC313786	30	160	60	18	14.5	17	4	21
M27	× 3	TC313866	30	160	60	20	16	19	4	24
M30	× 3.5	TC313946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP HARDENED

TB313 SERIES

M ISO metric coarse threads DIN 13

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

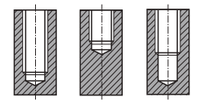
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

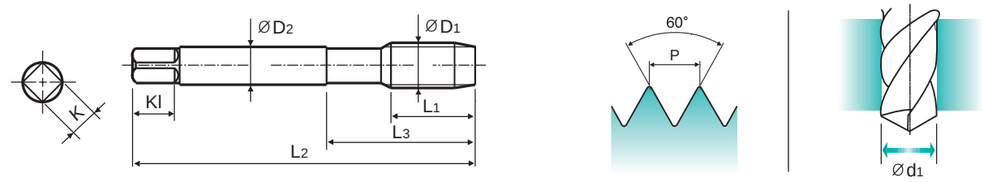
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **HR** | HSS-E | DIN 371/376 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

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		L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TB313136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TB313156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TB313196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TB313176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TB313496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TB313206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TB313226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TB313246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TB313266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TB313286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TB313316	10	80	30	6	4.9	8	3	5
M7	× 1	TB313346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TB313366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TB313396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TB313426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TB313466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TB313506	18	110	44	9	7	10	3	10.2
M14	× 2	TB313546	20	110	44	11	9	12	3	12
M16	× 2	TB313606	20	110	44	12	9	12	3	14
M18	× 2.5	TB313656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TB313706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TB313746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TB313786	30	160	60	18	14.5	17	4	21
M27	× 3	TB313866	30	160	60	20	16	19	4	24
M30	× 3.5	TB313946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP HARDENED

TY313 SERIES

M ISO metric coarse threads DIN 13

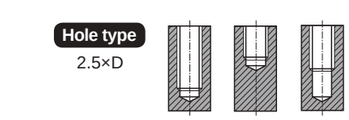
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

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

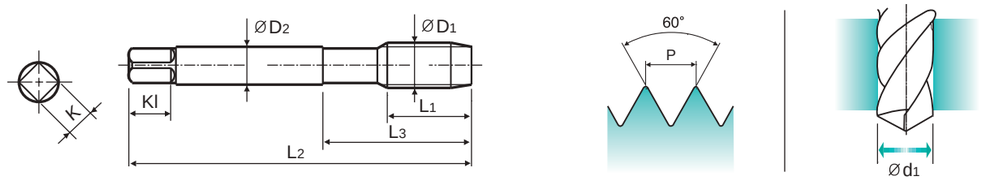
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376



Hole type
2.5×D



Material groups **HR** | HSS-E | DIN 371/376 | 6H | 60° | C | TiAlN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TY313136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TY313156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TY313196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TY313176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TY313496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TY313206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TY313226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TY313246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TY313266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TY313286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TY313316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TY313346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TY313366**	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	**TY313396**	13	90	35	9	7	10	3	7.8
M10	× 1.5	**TY313426**	15	100	39	10	8	11	3	8.5
M11	× 1.5	**TY313466**	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	**TY313506**	18	110	44	9	7	10	3	10.2
M14	× 2	**TY313546**	20	110	44	11	9	12	3	12
M16	× 2	**TY313606**	20	110	44	12	9	12	3	14
M18	× 2.5	**TY313656**	25	125	50	14	11	14	4	15.5
M20	× 2.5	**TY313706**	25	140	54	16	12	15	4	17.5
M22	× 2.5	**TY313746**	25	140	54	18	14.5	17	4	19.5
M24	× 3	**TY313786**	30	160	60	18	14.5	17	4	21
M27	× 3	**TY313866**	30	160	60	20	16	19	4	24
M30	× 3.5	**TY313946**	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP HARDENED

TC283 SERIES

M ISO metric coarse threads DIN 13

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

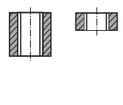
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

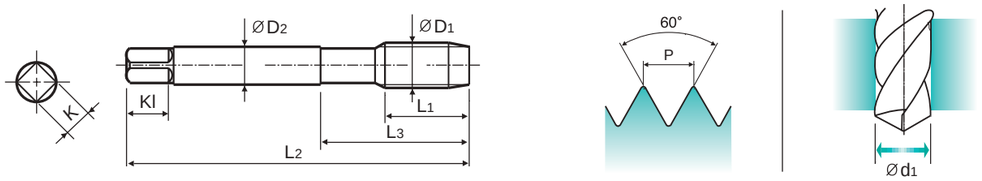
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **HR** | HSS-E | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TC283136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TC283156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TC283196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TC283176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TC283496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TC283206**	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TC283226**	12	56	20	4	3	6	3	2.9
M4	× 0.7	**TC283246**	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TC283266**	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TC283286**	15	70	25	6	4.9	8	3	4.2
M6	× 1	**TC283316**	17	80	30	6	4.9	8	3	5
M7	× 1	**TC283346**	17	80	30	7	5.5	8	3	6
M8	× 1.25	**TC283366**	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	**TC283396**	20	90	35	9	7	10	3	7.8
M10	× 1.5	**TC283426**	22	100	39	10	8	11	3	8.5
M11	× 1.5	**TC283466**	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	**TC283506**	24	110	44	9	7	10	3	10.2
M14	× 2	**TC283546**	26	110	44	11	9	12	3	12
M16	× 2	**TC283606**	27	110	44	12	9	12	3	14
M18	× 2.5	**TC283656**	30	125	50	14	11	14	4	15.5
M20	× 2.5	**TC283706**	32	140	54	16	12	15	4	17.5
M22	× 2.5	**TC283746**	32	140	54	18	14.5	17	4	19.5
M24	× 3	**TC283786**	34	160	60	18	14.5	17	4	21
M27	× 3	**TC283866**	36	160	60	20	16	19	4	24
M30	× 3.5	**TC283946**	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP HARDENED

TY283 SERIES

M ISO metric coarse threads DIN 13

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

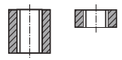
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

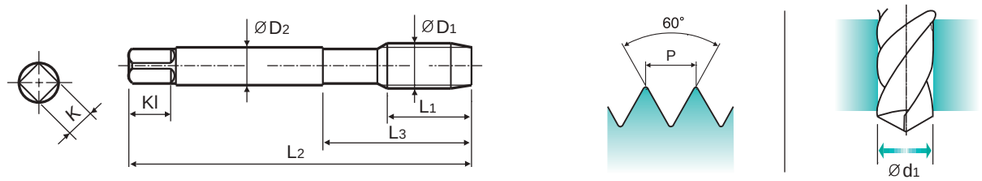
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **HR** | HSS-E | DIN 371/376 | 6H | 60° | B | TiAlN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.201

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2 × 0.4		**TY283136**	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		**TY283156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		**TY283196**	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		**TY283176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		**TY283496**	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		**TY283206**	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		**TY283226**	12	56	20	4	3	6	3	2.9
M4 × 0.7		**TY283246**	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		**TY283266**	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		**TY283286**	15	70	25	6	4.9	8	3	4.2
M6 × 1		**TY283316**	17	80	30	6	4.9	8	3	5
M7 × 1		**TY283346**	17	80	30	7	5.5	8	3	6
M8 × 1.25		**TY283366**	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		**TY283396**	20	90	35	9	7	10	3	7.8
M10 × 1.5		**TY283426**	22	100	39	10	8	11	3	8.5
M11 × 1.5		**TY283466**	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		**TY283506**	24	110	44	9	7	10	3	10.2
M14 × 2		**TY283546**	26	110	44	11	9	12	3	12
M16 × 2		**TY283606**	27	110	44	12	9	12	3	14
M18 × 2.5		**TY283656**	30	125	50	14	11	14	4	15.5
M20 × 2.5		**TY283706**	32	140	54	16	12	15	4	17.5
M22 × 2.5		**TY283746**	32	140	54	18	14.5	17	4	19.5
M24 × 3		**TY283786**	34	160	60	18	14.5	17	4	21
M27 × 3		**TY283866**	36	160	60	20	16	19	4	24
M30 × 3.5		**TY283946**	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

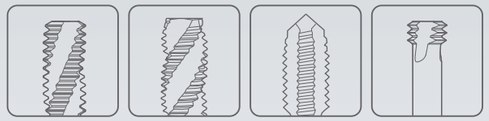
YG TAP HARDENED

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

					T0997-TiC	T0999-TiC	TC313 TB313 TY313	TC283 TY283
ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min)			
P	1	Non-alloy steel	125					
	2		190	13				
	3		250	25				
	4		270	28				
	5		300	32				
	6	Low alloy steel	180	10				
	7		275	29			10-15	10-15
	8		300	32			6-10	6-10
	9		350	38	5-8	5-8	3-5	3-5
	10	High alloyed steel, and tool steel	200	15				
	11		325	35				
M	12	Stainless steel	200	15				
	13		240	23				
	14		180	10			4-6	4-6
K	15	Grey cast iron	180	10				
	16		260	26				
	17	Nodular cast iron	160	3				
	18		250	25				
	19	Malleable cast iron	130					
	20		230	21				
N	21	Aluminum-wrought alloy	60					
	22		100					
	23	Aluminum-cast, alloyed	75					
	24		90					
	25		130					
	26	Copper and Copper Alloys (Bronze / Brass)	110				25-35	25-35
	27		90					
	28		100					
	29	Non Metallic Materials						
	30							
S	31	Heat Resistant Super Alloys	200	15				
	32		280	30				
	33		250	25				
	34		350	38				
	35		320	34				
	36	Titanium Alloys	400 Rm					
	37		1050 Rm					
H	38	Hardened steel	550	55	3-7	3-7		
	39		630	60	3-7	3-7		
	40	Chilled Cast Iron	400	42	3-7	3-7		
	41	Hardened Cast Iron	550	55	3-7	3-7		

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

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

HSS-E & HSS-PM

YG TAP INOX

YG TAP INOX

- **For Stainless Steels with Lamellar, Irregular Chip Formation where the Cutting Forces are Higher**
- Für nichtrostende St hle mit lamellarer, unregelm Biger Sp nebildung, bei denen die Schnittkr fte gr Ber sind.

SELECTION GUIDE

YG THREADING TOOLS

HSS-E & HSS-PM
YG TAP INOX

For Stainless Steels with Lamellar, Irregular Chip Formation where the Cutting Forces are Higher

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.225

| | | |

YG TAP INOX

TB711 SERIES

M ISO metric coarse threads DIN 13

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

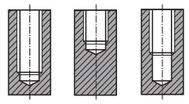
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

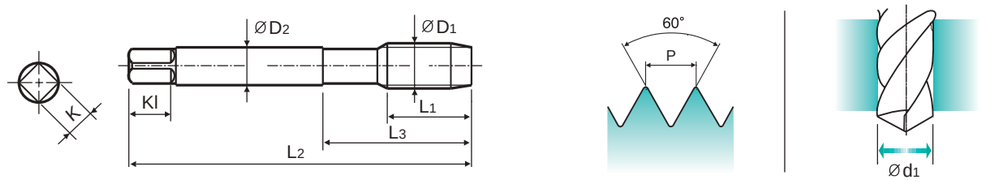
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.0×D





Material groups **NW** | HSS-E | DIN 371/376 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TB711136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TB711156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TB711196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TB711176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TB711496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TB711206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TB711226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TB711246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TB711266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TB711286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TB711316	10	80	30	6	4.9	8	3	5
M7 × 1		TB711346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TB711366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TB711396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TB711426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TB711466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TB711506	18	110	44	9	7	10	3	10.2
M14 × 2		TB711546	20	110	44	11	9	12	3	12
M16 × 2		TB711606	20	110	44	12	9	12	3	14
M18 × 2.5		TB711656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TB711706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TB711746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TB711786	30	160	60	18	14.5	17	4	21
M27 × 3		TB711866	30	160	60	20	16	19	4	24
M30 × 3.5		TB711946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TQ813 SERIES

M ISO metric coarse threads DIN 13

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

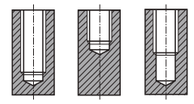
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

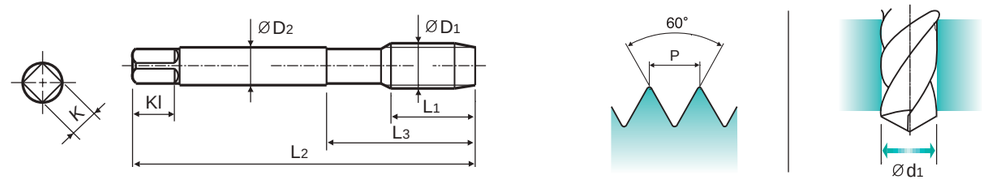
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **VA** | HSS-PM | DIN 371/376 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TQ813136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TQ813156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TQ813176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TQ813206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TQ813226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TQ813246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TQ813266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TQ813286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TQ813316	10	80	30	6	4.9	8	3	5
M7 × 1		TQ813346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TQ813366	13	90	35	8	6.2	9	3	6.8
M10 × 1.5		TQ813426	15	100	39	10	8	11	3	8.5
M12 × 1.75		TQ813506	18	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

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

YG TAP INOX

TR813 SERIES

M ISO metric coarse threads DIN 13

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

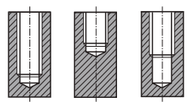
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

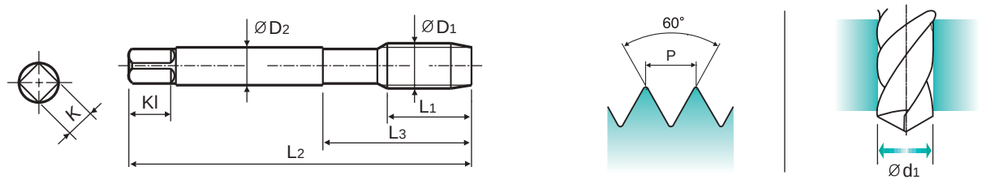
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TR813136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TR813156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TR813176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TR813206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TR813226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TR813246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TR813266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TR813286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TR813316	10	80	30	6	4.9	8	3	5
M7 × 1		TR813346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TR813366	13	90	35	8	6.2	9	3	6.8
M10 × 1.5		TR813426	15	100	39	10	8	11	3	8.5
M12 × 1.75		TR813506	18	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP INOX

Vap **TB914 SERIES**
TiCN **TI914 SERIES**

M ISO metric coarse threads DIN 13

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

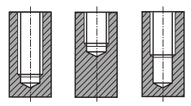
▶ With recessed threads for machine tapping of deep blind holes.
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

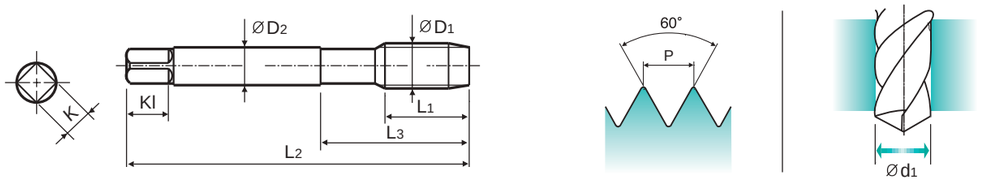
▶ Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: **VA NW** | HSS-E | DIN 371/376 | 6H | 60° | C | Vap TiCN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

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	TiCN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TB914136	TI914136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TB914156	TI914156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TB914196	TI914196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TB914176	TI914176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TB914496	TI914496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TB914206	TI914206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TB914226	TI914226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TB914246	TI914246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TB914266	TI914266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TB914286	TI914286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TB914316	TI914316	10	80	30	6	4.9	8	3	5
M7 × 1		TB914346	TI914346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TB914366	TI914366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TB914396	TI914396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TB914426	TI914426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TB914466	TI914466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TB914506	TI914506	18	110	44	9	7	10	3	10.2
M12 × 1.75		TB914506F4	TI914506F4	18	110	44	9	7	10	4	10.2
M14 × 2		TB914546	TI914546	20	110	44	11	9	12	3	12
M14 × 2		TB914546F4	TI914546F4	20	110	44	11	9	12	4	12
M16 × 2		TB914606	TI914606	20	110	44	12	9	12	3	14
M16 × 2		TB914606F4	TI914606F4	20	110	44	12	9	12	4	14
M18 × 2.5		TB914656	TI914656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TB914706	TI914706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TB914746	TI914746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TB914786	TI914786	30	160	60	18	14.5	17	4	21
M27 × 3		TB914866	TI914866	30	160	60	20	16	19	4	24
M30 × 3.5		TB914946	TI914946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TBE15 SERIES

M ISO metric coarse threads DIN 13

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

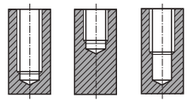
- With recessed threads for machine tapping of deep blind holes.
- Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

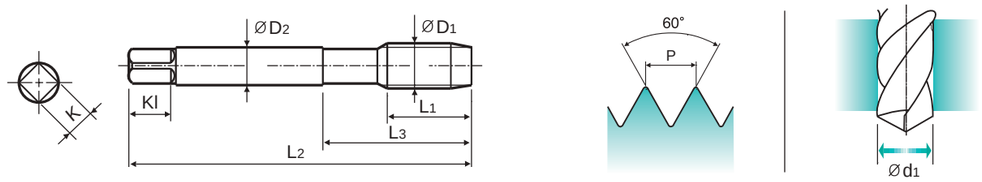
- Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
- Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups VA NW | HSS-E | DIN 371/376 | 4H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TBE15136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TBE15156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TBE15196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TBE15176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TBE15496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TBE15206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TBE15226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TBE15246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TBE15266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TBE15286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TBE15316	10	80	30	6	4.9	8	3	5
M7 × 1		TBE15346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TBE15366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TBE15396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TBE15426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TBE15466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TBE15506	18	110	44	9	7	10	3	10.2
M14 × 2		TBE15546	20	110	44	11	9	12	3	12
M16 × 2		TBE15606	20	110	44	12	9	12	3	14
M18 × 2.5		TBE15656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TBE15706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TBE15746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TBE15786	30	160	60	18	14.5	17	4	21
M27 × 3		TBE15866	30	160	60	20	16	19	4	24
M30 × 3.5		TBE15946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

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

YG TAP INOX

TBE16 SERIES

M ISO metric coarse threads DIN 13

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

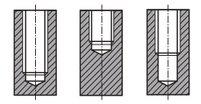
- With recessed threads for machine tapping of deep blind holes.
- Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

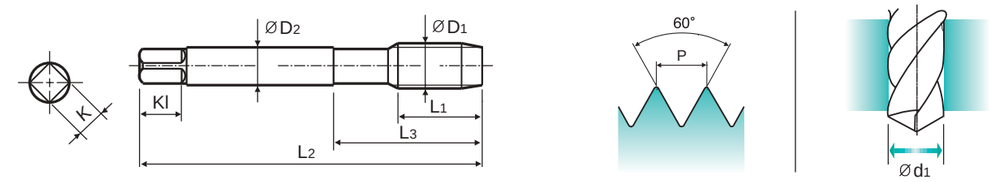
- Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
- Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups VA NW | HSS-E | DIN 371/376 | 6H+0.1 | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TBE16136	8	45	13	2.8	2.1	5	3	1.7
M2.2 × 0.45		TBE16156	8	45	13	2.8	2.1	5	3	1.85
*M2.3 × 0.4		TBE16196	8	45	13	2.8	2.1	5	3	2
M2.5 × 0.45		TBE16176	9	50	15	2.8	2.1	5	3	2.15
*M2.6 × 0.45		TBE16496	9	50	15	2.8	2.1	5	3	2.2
M3 × 0.5		TBE16206	6	56	18	3.5	2.7	6	3	2.6
M3.5 × 0.6		TBE16226	7	56	20	4	3	6	3	3
M4 × 0.7		TBE16246	7	63	21	4.5	3.4	6	3	3.4
M4.5 × 0.75		TBE16266	8	70	25	6	4.9	8	3	3.8
M5 × 0.8		TBE16286	8	70	25	6	4.9	8	3	4.3
M6 × 1		TBE16316	10	80	30	6	4.9	8	3	5.1
M7 × 1		TBE16346	10	80	30	7	5.5	8	3	6.1
M8 × 1.25		TBE16366	13	90	35	8	6.2	9	3	6.9
M9 × 1.25		TBE16396	13	90	35	9	7	10	3	7.9
M10 × 1.5		TBE16426	15	100	39	10	8	11	3	8.6
M11 × 1.5		TBE16466	17	100	40	8	6.2	9	3	9.6
M12 × 1.75		TBE16506	18	110	44	9	7	10	3	10.3
M14 × 2		TBE16546	20	110	44	11	9	12	3	12.1
M16 × 2		TBE16606	20	110	44	12	9	12	3	14.1
M18 × 2.5		TBE16656	25	125	50	14	11	14	4	15.6
M20 × 2.5		TBE16706	25	140	54	16	12	15	4	17.6
M22 × 2.5		TBE16746	25	140	54	18	14.5	17	4	19.6
M24 × 3		TBE16786	30	160	60	18	14.5	17	4	21.1
M27 × 3		TBE16866	30	160	60	20	16	19	4	24.1
M30 × 3.5		TBE16946	35	180	70	22	18	21	4	26.6

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TBE17 SERIES

M ISO metric coarse threads DIN 13

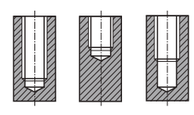
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

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

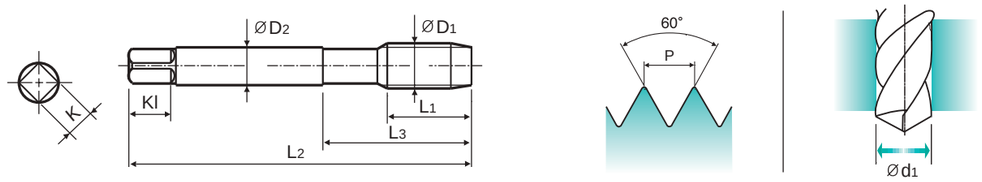
- Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
- Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376



Hole type
2.5×D



Material groups VA NW | HSS-E | DIN 371/376 | 6G | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TBE17136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TBE17156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TBE17196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TBE17176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TBE17496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TBE17206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TBE17226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TBE17246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TBE17266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TBE17286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TBE17316	10	80	30	6	4.9	8	3	5
M7	× 1	TBE17346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TBE17366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TBE17396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TBE17426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TBE17466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TBE17506	18	110	44	9	7	10	3	10.2
M14	× 2	TBE17546	20	110	44	11	9	12	3	12
M16	× 2	TBE17606	20	110	44	12	9	12	3	14
M18	× 2.5	TBE17656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TBE17706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TBE17746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TBE17786	30	160	60	18	14.5	17	4	21
M27	× 3	TBE17866	30	160	60	20	16	19	4	24
M30	× 3.5	TBE17946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TBE18 SERIES

M ISO metric coarse threads DIN 13

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

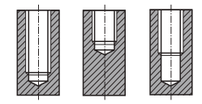
- With recessed threads for machine tapping of deep blind holes.
- Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

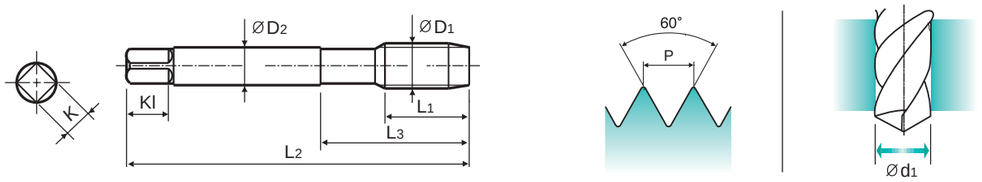
- Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
- Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups VA NW | HSS-E | DIN 371/376 | 7G | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TBE18136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TBE18156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TBE18196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TBE18176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TBE18496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TBE18206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TBE18226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TBE18246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TBE18266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TBE18286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TBE18316	10	80	30	6	4.9	8	3	5
M7	× 1	TBE18346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TBE18366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TBE18396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TBE18426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TBE18466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TBE18506	18	110	44	9	7	10	3	10.2
M14	× 2	TBE18546	20	110	44	11	9	12	3	12
M16	× 2	TBE18606	20	110	44	12	9	12	3	14
M18	× 2.5	TBE18656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TBE18706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TBE18746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TBE18786	30	160	60	18	14.5	17	4	21
M27	× 3	TBE18866	30	160	60	20	16	19	4	24
M30	× 3.5	TBE18946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TCH14 SERIES

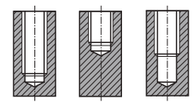
M ISO metric coarse threads DIN 13

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

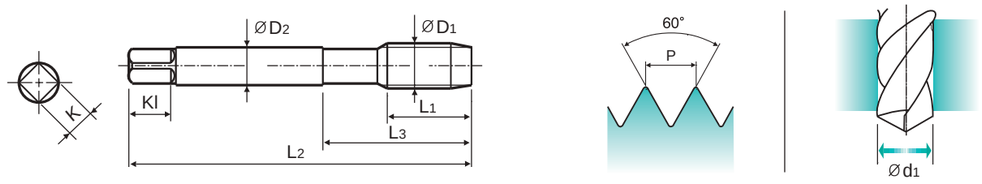
▶ With recessed threads for machine tapping of deep blind holes.
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 371
DIN 376



Hole type
2.5×D



Material groups: VA NW | HSS-E | DIN 371/376 | 6H | 60° | C | Hardslick | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TCH14136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TCH14156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TCH14196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TCH14176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TCH14496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TCH14206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TCH14226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TCH14246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TCH14266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TCH14286	8	70	25	6	4.9	8	3	4.2
M6	× 1	TCH14316	10	80	30	6	4.9	8	3	5
M7	× 1	TCH14346	10	80	30	7	5.5	8	3	6
M8	× 1.25	TCH14366	13	90	35	8	6.2	9	3	6.8
M9	× 1.25	TCH14396	13	90	35	9	7	10	3	7.8
M10	× 1.5	TCH14426	15	100	39	10	8	11	3	8.5
M11	× 1.5	TCH14466	17	100	40	8	6.2	9	3	9.5
M12	× 1.75	TCH14506	18	110	44	9	7	10	3	10.2
M14	× 2	TCH14546	20	110	44	11	9	12	3	12
M16	× 2	TCH14606	20	110	44	12	9	12	3	14
M18	× 2.5	TCH14656	25	125	50	14	11	14	4	15.5
M20	× 2.5	TCH14706	25	140	54	16	12	15	4	17.5
M22	× 2.5	TCH14746	25	140	54	18	14.5	17	4	19.5
M24	× 3	TCH14786	30	160	60	18	14.5	17	4	21
M27	× 3	TCH14866	30	160	60	20	16	19	4	24
M30	× 3.5	TCH14946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TQ853 SERIES

M ISO metric coarse threads DIN 13

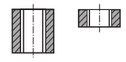
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

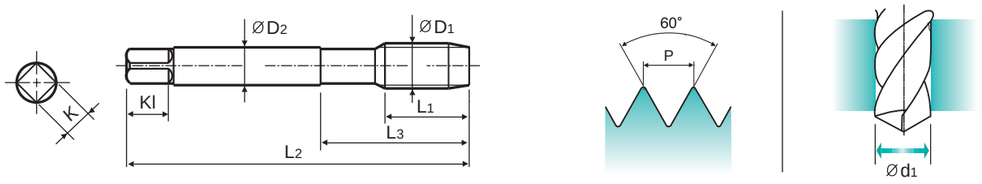
▶ Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.

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

DIN 371
DIN 376

Hole type
3.0×D





Material groups: VA | HSS-PM | DIN 371/376 | 6H | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TQ853136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TQ853156	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	TQ853176	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	TQ853206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TQ853226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TQ853246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TQ853266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TQ853286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TQ853316	17	80	30	6	4.9	8	3	5
M7	× 1	TQ853346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TQ853366	20	90	35	8	6.2	9	3	6.8
M10	× 1.5	TQ853426	22	100	39	10	8	11	3	8.5
M12	× 1.75	TQ853506	24	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TR853 SERIES

M ISO metric coarse threads DIN 13

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

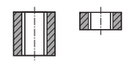
▶ Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.

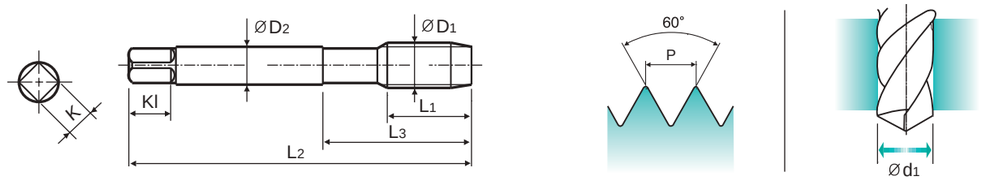
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke und bestem Werkstoff.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **VA** | HSS-PM | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TR853136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TR853156	8	45	13	2.8	2.1	5	3	1.75
M2.5 × 0.45		TR853176	9	50	15	2.8	2.1	5	3	2.05
M3 × 0.5		TR853206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TR853226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TR853246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TR853266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TR853286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TR853316	17	80	30	6	4.9	8	3	5
M7 × 1		TR853346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TR853366	20	90	35	8	6.2	9	3	6.8
M10 × 1.5		TR853426	22	100	39	10	8	11	3	8.5
M12 × 1.75		TR853506	24	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TB623 SERIES

M ISO metric coarse threads DIN 13

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

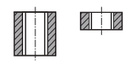
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

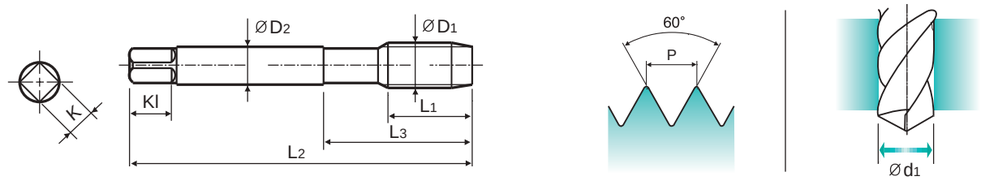
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **VA NW** | HSS-E | DIN 371/376 | 6HX | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TB623136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TB623156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TB623196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TB623176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TB623496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TB623206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TB623226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TB623246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TB623266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TB623286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TB623316	17	80	30	6	4.9	8	3	5
M7 × 1		TB623346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TB623366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TB623396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TB623426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TB623466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TB623506	24	110	44	9	7	10	4	10.2
M14 × 2		TB623546	26	110	44	11	9	12	4	12
M16 × 2		TB623606	27	110	44	12	9	12	4	14
M18 × 2.5		TB623656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TB623706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TB623746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TB623786	34	160	60	18	14.5	17	4	21
M27 × 3		TB623866	36	160	60	20	16	19	4	24
M30 × 3.5		TB623946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TCH23 SERIES

M ISO metric coarse threads DIN 13

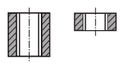
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

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

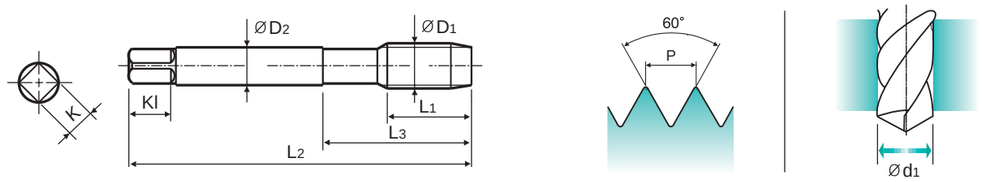
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 371

DIN 376



Hole type 3.0×D



Material groups VA NW | HSS-E | DIN 371/376 | 6HX | 60° | B | Hardslick

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

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	Hardslick	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TCH23136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TCH23156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TCH23196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TCH23176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TCH23496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TCH23206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TCH23226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TCH23246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TCH23266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TCH23286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TCH23316	17	80	30	6	4.9	8	3	5
M7	× 1	TCH23346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TCH23366	20	90	35	8	6.2	9	3	6.8
M9	× 1.25	TCH23396	20	90	35	9	7	10	3	7.8
M10	× 1.5	TCH23426	22	100	39	10	8	11	3	8.5
M11	× 1.5	TCH23466	22	100	40	8	6.2	9	3	9.5
M12	× 1.75	TCH23506	24	110	44	9	7	10	4	10.2
M14	× 2	TCH23546	26	110	44	11	9	12	4	12
M16	× 2	TCH23606	27	110	44	12	9	12	4	14
M18	× 2.5	TCH23656	30	125	50	14	11	14	4	15.5
M20	× 2.5	TCH23706	32	140	54	16	12	15	4	17.5
M22	× 2.5	TCH23746	32	140	54	18	14.5	17	4	19.5
M24	× 3	TCH23786	34	160	60	18	14.5	17	4	21
M27	× 3	TCH23866	36	160	60	20	16	19	4	24
M30	× 3.5	TCH23946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TB183 SERIES

MF ISO metric fine threads DIN 13

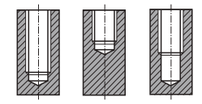
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo grosso DIN 13

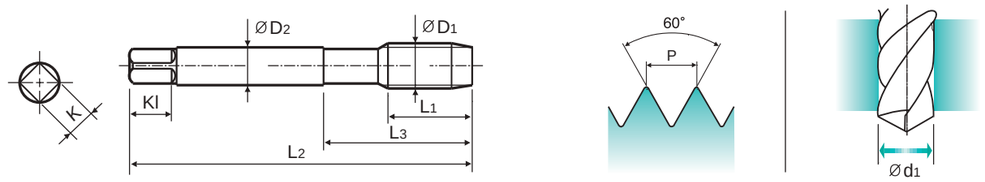
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 374

Hole type 2.5×D





Material groups VA NW | HSS-E | DIN 374 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
	ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	TB183256	5	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	TB183296	5	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	TB183326	8	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	TB183336	5	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	TB183356	10	80	30	5.5	4.3	7	3	6.2
M8	× 1	TB183376	10	90	36	6	4.9	8	3	7
M8	× 0.75	TB183386	8	80	30	6	4.9	8	3	7.2
M10	× 1.25	TB183436	16	100	40	7	5.5	8	3	8.8
M10	× 1	TB183446	10	90	36	7	5.5	8	3	9
M10	× 0.75	TB183456	10	90	36	7	5.5	8	3	9.2
M12	× 1.5	TB183516	15	100	40	9	7	10	3	10.5
M12	× 1.25	TB183526	15	100	40	9	7	10	3	10.8
M12	× 1	TB183536	11	100	40	9	7	10	3	11
M14	× 1.5	TB183556	15	100	40	11	9	12	3	12.5
M14	× 1.25	TB183566	15	100	40	11	9	12	3	12.8
M16	× 1.5	TB183616	15	100	40	12	9	12	3	14.5
M18	× 1.5	TB183676	17	110	44	14	11	14	4	16.5
M20	× 1.5	TB183726	17	125	50	16	12	15	4	18.5
M22	× 1.5	TB183766	17	125	50	18	14.5	17	4	20.5
M24	× 1.5	TB183806	20	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

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

YG TAP INOX

TB904 SERIES

UNC Unified coarse threads

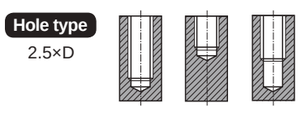
- Unified Grobgewinde
- UNC
- Unificato passo grosso

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

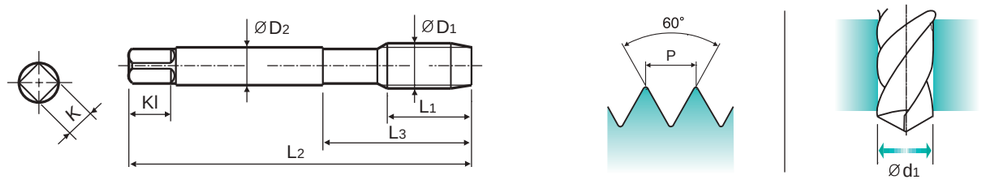
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376



Hole type 2.5×D



Material groups VA NW | HSS-E | DIN 371/376 | 2B | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE ØD1	TPI	EDP No. Vap	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	40UNC	TB904162	6	56	18	3.5	2.7	6	3	2.3
#5	40UNC	TB904202	7	56	18	3.5	2.7	6	3	2.6
#6	32UNC	TB904242	7	56	20	4	3	6	3	2.85
#8	32UNC	TB904282	8	63	21	4.5	3.4	6	3	3.5
#10	24UNC	TB904322	10	70	25	6	4.9	8	3	3.9
#12	24UNC	TB904362	10	80	30	6	4.9	8	3	4.5
1/4	20UNC	TB904402	13	80	30	7	5.5	8	3	5.2
5/16	18UNC	TB904442	14	90	35	8	6.2	9	3	6.6
3/8	16UNC	TB904482	16	100	39	9	7	10	3	8
7/16	14UNC	TB904522	17	100	40	8	6.2	9	3	9.4
1/2	13UNC	TB904562	20	110	44	9	7	10	3	10.75
9/16	12UNC	TB904602	20	110	44	11	9	12	3	12.25
5/8	11UNC	TB904642	22	110	44	12	9	12	3	13.5
3/4	10UNC	TB904702	25	125	50	14	11	14	4	16.5
7/8	9UNC	TB904742	27	140	54	18	14.5	17	4	19.5
1	8UNC	TB904782	30	160	60	20	16	19	4	22.25
1-1/8	7UNC	TB904822	35	180	65	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TB924 SERIES

UNF Unified fine threads

- Unified Feingewinde
- UNF
- Unificato passo grosso

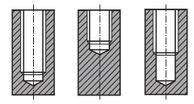
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

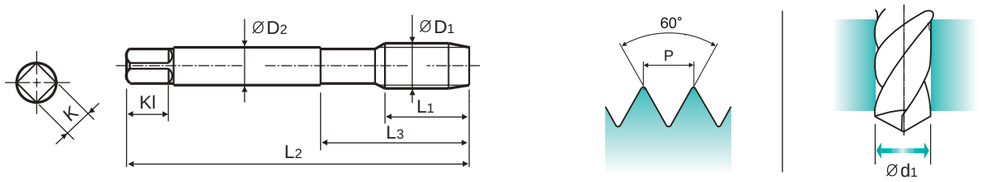
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 374

Hole type 2.5×D





Material groups VA NW | HSS-E | DIN 371/374 | 2B | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE ØD1	TPI	EDP No. Vap	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	48UNF	TB924182	6	56	18	3.5	2.7	6	3	2.4
#5	44UNF	TB924222	7	56	18	3.5	2.7	6	3	2.7
#6	40UNF	TB924262	7	56	20	4	3	6	3	3
#8	36UNF	TB924302	8	63	21	4.5	3.4	6	3	3.5
#10	32UNF	TB924342	10	70	25	6	4.9	8	3	4.1
#12	28UNF	TB924382	10	80	30	6	4.9	8	3	4.7
1/4	28UNF	TB924422	10	80	30	7	5.5	8	3	5.5
5/16	24UNF	TB924462	10	90	35	8	6.2	9	3	6.9
3/8	24UNF	TB924502	10	100	39	9	7	10	3	8.5
7/16	20UNF	TB924542	13	100	40	8	6.2	9	3	9.9
1/2	20UNF	TB924582	13	100	40	9	7	10	3	11.5
9/16	18UNF	TB924622	15	100	40	11	9	12	3	12.9
5/8	18UNF	TB924662	15	100	40	12	9	12	3	14.5
3/4	16UNF	TB924722	17	110	44	14	11	14	4	17.5
7/8	14UNF	TB924762	17	125	50	18	14.5	17	4	20.5
1	12UNF	TB924802	20	140	54	18	14.5	17	4	23.25
1-1/8	12UNF	TB924842	22	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TB123 SERIES

MF ISO metric fine threads DIN 13

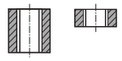
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

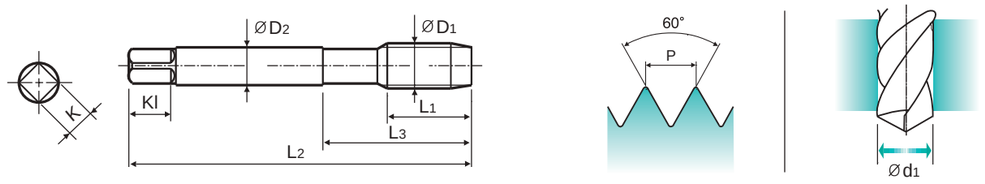
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 374

Hole type
3.0×D





Material groups VA NW | HSS-E | DIN 374 | 6HX | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TB123256**	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TB123296**	11	70	25	3.5	2.7	6	3	4.5
M6	× 0.75	**TB123326**	13	80	30	4.5	3.4	6	3	5.2
M6	× 0.5	**TB123336**	13	80	30	4.5	3.4	6	3	5.5
M7	× 0.75	**TB123356**	14	80	30	5.5	4.3	7	3	6.2
M8	× 1	**TB123376**	17	90	36	6	4.9	8	3	7
M8	× 0.75	**TB123386**	14	80	30	6	4.9	8	3	7.2
M10	× 1.25	**TB123436**	22	100	40	7	5.5	8	3	8.8
M10	× 1	**TB123446**	18	90	36	7	5.5	8	3	9
M10	× 0.75	**TB123456**	18	90	36	7	5.5	8	3	9.2
M12	× 1.5	**TB123516**	22	100	40	9	7	10	4	10.5
M12	× 1.25	**TB123526**	22	100	40	9	7	10	3	10.8
M12	× 1	**TB123536**	18	100	40	9	7	10	3	11
M14	× 1.5	**TB123556**	22	100	40	11	9	12	3	12.5
M14	× 1.25	**TB123566**	22	100	40	11	9	12	3	12.8
M16	× 1.5	**TB123616**	22	100	40	12	9	12	3	14.5
M18	× 1.5	**TB123676**	25	110	44	14	11	14	4	16.5
M20	× 1.5	**TB123726**	25	125	50	16	12	15	4	18.5
M22	× 1.5	**TB123766**	25	125	50	18	14.5	17	4	20.5
M24	× 1.5	**TB123806**	27	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TB264 SERIES

UNC Unified coarse threads

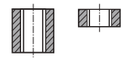
Unified Grobgewinde
UNC
Unificato passo grosso

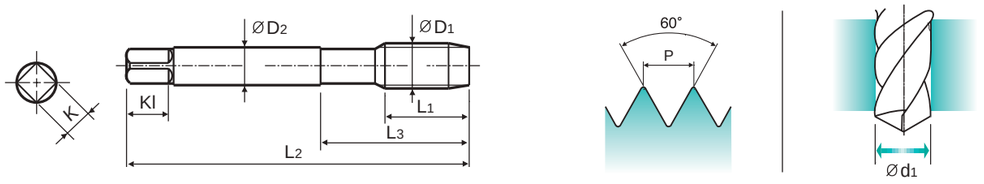
▶ Suitable for through hole in more cutting speed than other taps due to thick web.

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

DIN 371
DIN 376

Hole type
3.0×D





Material groups VA NW | HSS-E | DIN 371/376 | 2B | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	– 40UNC	**TB264162**	11	56	18	3.5	2.7	6	3	2.3
#5	– 40UNC	**TB264202**	11	56	18	3.5	2.7	6	3	2.6
#6	– 32UNC	**TB264242**	12	56	20	4	3	6	3	2.85
#8	– 32UNC	**TB264282**	13	63	21	4.5	3.4	6	3	3.5
#10	– 24UNC	**TB264322**	15	70	25	6	4.9	8	3	3.9
#12	– 24UNC	**TB264362**	16	80	30	6	4.9	8	3	4.5
1/4	– 20UNC	**TB264402**	17	80	30	7	5.5	8	3	5.2
5/16	– 18UNC	**TB264442**	20	90	35	8	6.2	9	3	6.6
3/8	– 16UNC	**TB264482**	22	100	39	9	7	10	3	8
7/16	– 14UNC	**TB264522**	22	100	44	8	6.2	9	3	9.4
1/2	– 13UNC	**TB264562**	25	110	44	9	7	10	3	10.75
9/16	– 12UNC	**TB264602**	26	110	44	11	9	12	3	12.25
5/8	– 11UNC	**TB264642**	27	110	44	12	9	12	3	13.5
3/4	– 10UNC	**TB264702**	30	125	50	14	11	14	4	16.5
7/8	– 9UNC	**TB264742**	32	140	54	18	14.5	17	4	19.5
1	– 8UNC	**TB264782**	36	160	60	20	16	17	4	22.25
1-1/8	– 7UNC	**TB264822**	40	180	70	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP INOX

TB274 SERIES

UNF

Unified fine threads

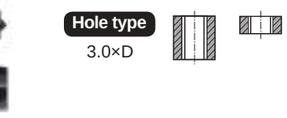
Unified Feingewinde
UNF
Unificato passo fine

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

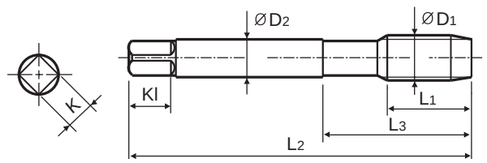
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

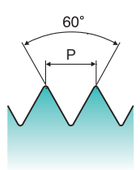
DIN 371

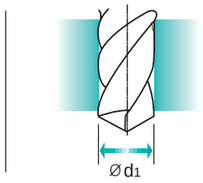
DIN 374



Hole type
3.0×D







Material groups VA NW | HSS-E | DIN 371/374 | 2B | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.225

Unit : mm

SIZE ØD1	TPI	EDP No. Vap	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	48UNF	TB274182	11	56	18	3.5	2.7	6	3	2.4
#5	44UNF	TB274222	11	56	18	3.5	2.7	6	3	2.7
#6	40UNF	TB274262	12	56	20	4	3	6	3	3
#8	36UNF	TB274302	13	63	21	4.5	3.4	6	3	3.5
#10	32UNF	TB274342	15	70	25	6	4.9	8	3	4.1
#12	28UNF	TB274382	16	80	30	6	4.9	8	3	4.7
1/4	28UNF	TB274422	17	80	30	7	5.5	8	3	5.5
5/16	24UNF	TB274462	17	90	35	8	6.2	9	3	6.9
3/8	24UNF	TB274502	18	100	39	9	7	10	3	8.5
7/16	20UNF	TB274542	22	100	40	8	6.2	9	3	9.9
1/2	20UNF	TB274582	22	100	40	9	7	10	3	11.5
9/16	18UNF	TB274622	22	100	40	11	9	12	3	12.9
5/8	18UNF	TB274662	22	100	40	12	9	12	3	14.5
3/4	16UNF	TB274722	25	110	44	14	11	14	4	17.5
7/8	14UNF	TB274762	26	125	50	18	14.5	17	4	20.5
1	12UNF	TB274802	28	140	54	18	14.5	17	4	23.25
1-1/8	12UNF	TB274842	30	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

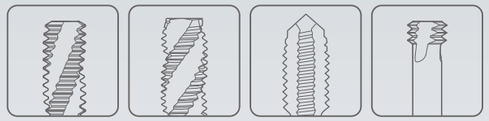
CARBIDE
HSS
THREAD MILLS
SYNCHRO TAPS
COMBO TAPS
YG TAP GENERAL
YG TAP STEEL
YG TAP HARDENED
YG TAP INOX
YG TAP CAST IRON
YG TAP ALU
YG TAP Ti Ni
YG TAP FORMING
NUT TAPS
STI TAPS
PIPE TAPS
TECHNICAL DATA

YG TAP INOX

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	TB711	TQ813	TR813	TB914 TB183 TB904 TB924	TI914	TBE15	TBE16	TBE17	TBE18	TCH14	TQ853	TR853	TB623 TB123 TB264 TB274	TCH23
					Vc (m/min)													
P	1	Non-alloy steel	125		15-20	15-20	15-20	15-20	20-25	15-20	15-20	15-20	15-20	20-25	15-20	15-20	15-20	20-25
	2		190	13	15-20	15-20	15-20	15-20	20-25	15-20	15-20	15-20	15-20	20-25	15-20	15-20	15-20	20-25
	3		250	25		12-18	12-18	12-18	18-24	12-18	12-18	12-18	12-18	18-24	12-18	12-18	12-18	18-24
	4		270	28		10-15	10-15	10-15	15-20	10-15	10-15	10-15	10-15	15-20	10-15	10-15	10-15	15-20
	5		300	32														
	6	Low alloy steel	180	10		10-15	10-15	10-15	15-20	10-15	10-15	10-15	10-15	15-20	10-15	10-15	10-15	15-20
	7		275	29														
	8		300	32														
	9		350	38														
	10	High alloyed steel, and tool steel	200	15														
	11		325	35														
M	12	Stainless steel	200	15	7-10	7-10	7-10	7-10	10-13	7-10	7-10	7-10	7-10	10-13	7-10	7-10	7-10	10-13
	13		240	23	5-8	5-8	5-8	5-8	8-11	5-8	5-8	5-8	5-8	8-11	5-8	5-8	5-8	8-11
	14		180	10	4-6	4-6	4-6	4-6	6-8	4-6	4-6	4-6	4-6	6-8	4-6	4-6	4-6	6-8
K	15	Grey cast iron	180	10														
	16		260	26														
	17	Nodular cast iron	160	3														
	18		250	25														
	19	Malleable cast iron	130															
	20		230	21														
N	21	Aluminum-wrought alloy	60		10-15													
	22		100															
	23	Aluminum-cast, alloyed	75															
	24		90															
	25		130															
	26	Copper and Copper Alloys (Bronze / Brass)	110															
	27		90															
	28		100		15-20													
	29	Non Metallic Materials																
	30																	
S	31	Heat Resistant Super Alloys	200	15		10-15	10-15	10-15	15-20	10-15	10-15	10-15	10-15	15-20	10-15	10-15	10-15	15-20
	32		280	30														
	33		250	25														
	34		350	38														
	35		320	34														
	36	Titanium Alloys	400Rm			10-15	10-15	10-15	15-20	10-15	10-15	10-15	10-15	15-20	10-15	10-15	10-15	15-20
	37		1050Rm															
H	38	Hardened steel	550	55														
	39		630	60														
	40	Chilled Cast Iron	400	42														
	41	Hardened Cast Iron	550	55														

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

SOLID CARBIDE & HSS-E

YG TAP CAST IRON

YG TAP CAST IRON

- **For Cast Iron or Similar Work Materials**
- **Für Gusseisen oder ähnliche Werkstoffe**

SELECTION GUIDE

YG THREADING TOOLS

SOLID CARBIDE & HSS-E
YG TAP
CAST IRON

For Cast Iron or Similar Work Materials

HOLE TYPE			Max. 2.0xD Blind / Through Hole				
TOOL MATERIAL			CARBIDE	HSS-E			
CHAMFER LEAD ACC. TO DIN2197			C	C	C	C	C
FLUTE TYPE			Straight Flute	Straight Flute	Straight Flute	Straight Flute	Straight Flute
SPIRAL FLUTE ANGLE			-	-	-	-	-
SERIES	M	DIN371/376	T0993 (P.229)	TE821 (P.230)	TD821 (P.231)	TI821 (P.232)	TY821 (P.233)
		DIN352					
		DIN357/LONG					
	MF	DIN374		TE403 (P.234)			
		DIN2181					
	UNC	DIN371/376		TE434 (P.235)			
		DIN351					
	UNF	DIN371/374		TE454 (P.236)			
		DIN2181					
	BSW	DIN2182/2183					
		DIN351					
	G(BSP)	DIN5156/5157					
	EG-M	DIN371/376					
	EG-UNC	DIN371/376					
	EG-UNF	DIN371/374					
SURFACE TREATMENT			Bright	NI	TiN	TiCN	TiAlN
MODEL							

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.237

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

YG TAP CAST IRON

T0993 SERIES

M ISO metric coarse threads DIN 13

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

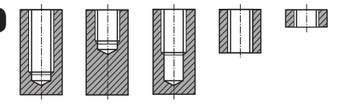
▶ Carbide tap can increase tool life longer than HSS taps due to higher hardness. Suitable for cast iron and high silicon aluminiums.

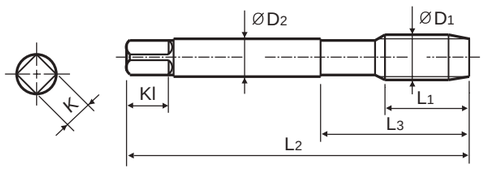
▶ Der VHM-Gewindebohrer kann die Lebensdaüer gegenuber HSS-Gewindebohrern erhöhen dank der größeren Härte. Geeignet für Guss und Aluminium mit hohem Siliziumanteil

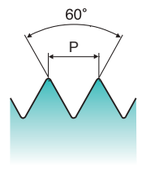
DIN 371

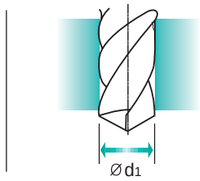
DIN 376

Hole type
2.0×D









Material groups GG | CARBIDE | DIN 371/376 | 6HX | 60° | C | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

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	T0993206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	T0993226	12	56	20	4	3	6	3	2.9
M4	× 0.7	T0993246	13	63	21	4.5	3.4	6	3	3.3
M5	× 0.8	T0993286	15	70	25	6	4.9	8	4	4.2
M6	× 1	T0993316	17	80	30	6	4.9	8	4	5
M8	× 1.25	T0993366	20	90	35	8	6.2	9	4	6.8
M10	× 1.5	T0993426	22	100	39	10	8	11	4	8.5
M12	× 1.75	T0993506	24	110	44	9	7	10	4	10.2
M14	× 2	T0993546	26	110	44	11	9	12	4	12
M16	× 2	T0993606	27	110	44	12	9	12	4	14
M18	× 2.5	T0993656	30	125	50	14	11	14	4	15.5
M20	× 2.5	T0993706	32	140	54	16	12	15	4	17.5

▶DIN 371(M2~M10) and DIN 376(M11~M20)

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TE821 SERIES

M ISO metric coarse threads DIN 13

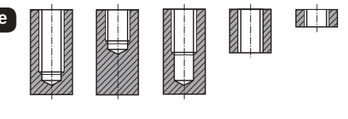
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

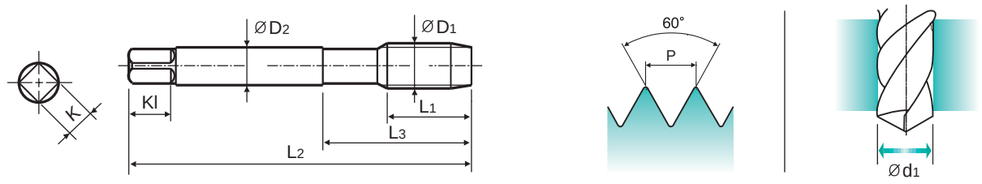
▶ Suitable for tapping cast iron or similar work materials.

▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen

DIN 371

DIN 376





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L_1	L_2	L_3	$ØD_2$	K	Kl	Z	$Ød_1$
M2	× 0.4	**TE821136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TE821156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TE821196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TE821176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TE821496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TE821206**	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TE821226**	12	56	20	4	3	6	3	2.9
M4	× 0.7	**TE821246**	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TE821266**	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TE821286**	15	70	25	6	4.9	8	4	4.2
M6	× 1	**TE821316**	17	80	30	6	4.9	8	4	5
M7	× 1	**TE821346**	17	80	30	7	5.5	8	4	6
M8	× 1.25	**TE821366**	20	90	35	8	6.2	9	4	6.8
M9	× 1.25	**TE821396**	20	90	35	9	7	10	4	7.8
M10	× 1.5	**TE821426**	22	100	39	10	8	11	4	8.5
M11	× 1.5	**TE821466**	22	100	40	8	6.2	9	4	9.5
M12	× 1.75	**TE821506**	24	110	44	9	7	10	4	10.2
M14	× 2	**TE821546**	26	110	44	11	9	12	4	12
M16	× 2	**TE821606**	27	110	44	12	9	12	4	14
M18	× 2.5	**TE821656**	30	125	50	14	11	14	4	15.5
M20	× 2.5	**TE821706**	32	140	54	16	12	15	4	17.5
M22	× 2.5	**TE821746**	32	140	54	18	14.5	17	4	19.5
M24	× 3	**TE821786**	34	160	60	18	14.5	17	4	21
M27	× 3	**TE821866**	36	160	60	20	16	19	4	24
M30	× 3.5	**TE821946**	40	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶ * DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TD821 SERIES

M ISO metric coarse threads DIN 13

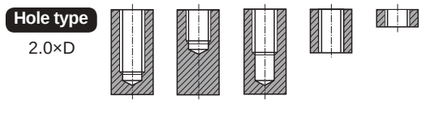
- Metrisches ISO-Gewinde DIN 13
- ISO MÉTRIQUE DIN13
- ISO Metrico passo grosso DIN 13

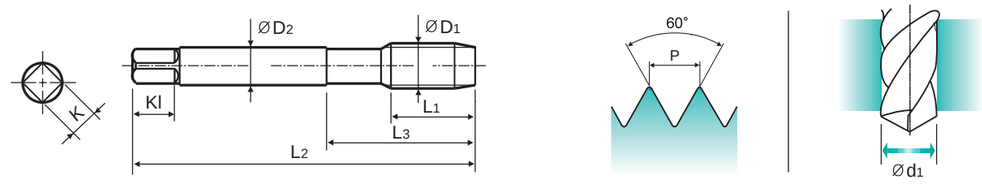
▶ Suitable for tapping cast iron or similar work materials.

▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen

DIN 371

DIN 376





Material groups **GG** | HSS-E | DIN 371/376 | 6HX | 60° | C | TiN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
			L_1	L_2	L_3	$ØD_2$	K	Kl	Z	$Ød_1$
M2	× 0.4	**TD821136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TD821156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	**TD821196**	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	**TD821176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	**TD821496**	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	**TD821206**	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TD821226**	12	56	20	4	3	6	3	2.9
M4	× 0.7	**TD821246**	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TD821266**	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TD821286**	15	70	25	6	4.9	8	4	4.2
M6	× 1	**TD821316**	17	80	30	6	4.9	8	4	5
M7	× 1	**TD821346**	17	80	30	7	5.5	8	4	6
M8	× 1.25	**TD821366**	20	90	35	8	6.2	9	4	6.8
M9	× 1.25	**TD821396**	20	90	35	9	7	10	4	7.8
M10	× 1.5	**TD821426**	22	100	39	10	8	11	4	8.5
M11	× 1.5	**TD821466**	22	100	40	8	6.2	9	4	9.5
M12	× 1.75	**TD821506**	24	110	44	9	7	10	4	10.2
M14	× 2	**TD821546**	26	110	44	11	9	12	4	12
M16	× 2	**TD821606**	27	110	44	12	9	12	4	14
M18	× 2.5	**TD821656**	30	125	50	14	11	14	4	15.5
M20	× 2.5	**TD821706**	32	140	54	16	12	15	4	17.5
M22	× 2.5	**TD821746**	32	140	54	18	14.5	17	4	19.5
M24	× 3	**TD821786**	34	160	60	18	14.5	17	4	21
M27	× 3	**TD821866**	36	160	60	20	16	19	4	24
M30	× 3.5	**TD821946**	40	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶ * DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TI821 SERIES

M ISO metric coarse threads DIN 13

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

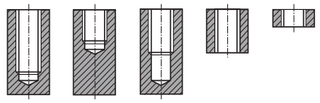
▶ Suitable for tapping cast iron or similar work materials.

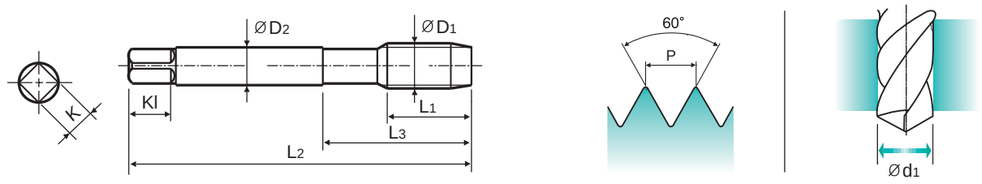
▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen

DIN 371

DIN 376

Hole type
2.0×D





Material groups **GG** | HSS-E | DIN 371/376 | 6HX | 60° | C | TiCN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

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	TiCN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 ×	0.4	**TI821136**	8	45	13	2.8	2.1	5	3	1.6
M2.2 ×	0.45	**TI821156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3 ×	0.4	**TI821196**	8	45	13	2.8	2.1	5	3	1.9
M2.5 ×	0.45	**TI821176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6 ×	0.45	**TI821496**	9	50	15	2.8	2.1	5	3	2.1
M3 ×	0.5	**TI821206**	11	56	18	3.5	2.7	6	3	2.5
M3.5 ×	0.6	**TI821226**	12	56	20	4	3	6	3	2.9
M4 ×	0.7	**TI821246**	13	63	21	4.5	3.4	6	3	3.3
M4.5 ×	0.75	**TI821266**	14	70	25	6	4.9	8	3	3.7
M5 ×	0.8	**TI821286**	15	70	25	6	4.9	8	4	4.2
M6 ×	1	**TI821316**	17	80	30	6	4.9	8	4	5
M7 ×	1	**TI821346**	17	80	30	7	5.5	8	4	6
M8 ×	1.25	**TI821366**	20	90	35	8	6.2	9	4	6.8
M9 ×	1.25	**TI821396**	20	90	35	9	7	10	4	7.8
M10 ×	1.5	**TI821426**	22	100	39	10	8	11	4	8.5
M11 ×	1.5	**TI821466**	22	100	40	8	6.2	9	4	9.5
M12 ×	1.75	**TI821506**	24	110	44	9	7	10	4	10.2
M14 ×	2	**TI821546**	26	110	44	11	9	12	4	12
M16 ×	2	**TI821606**	27	110	44	12	9	12	4	14
M18 ×	2.5	**TI821656**	30	125	50	14	11	14	4	15.5
M20 ×	2.5	**TI821706**	32	140	54	16	12	15	4	17.5
M22 ×	2.5	**TI821746**	32	140	54	18	14.5	17	4	19.5
M24 ×	3	**TI821786**	34	160	60	18	14.5	17	4	21
M27 ×	3	**TI821866**	36	160	60	20	16	19	4	24
M30 ×	3.5	**TI821946**	40	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶ * DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TY821 SERIES

M ISO metric coarse threads DIN 13

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

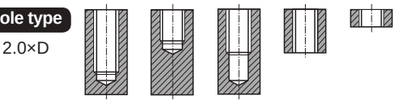
▶ Suitable for tapping cast iron or similar work materials.

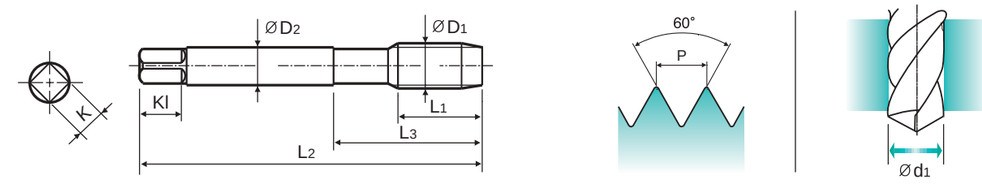
▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen

DIN 371

DIN 376

Hole type
2.0×D





Material groups **GG** | HSS-E | DIN 371/376 | 6HX | 60° | C | TiAlN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 ×	0.4	**TY821136**	8	45	13	2.8	2.1	5	3	1.6
M2.2 ×	0.45	**TY821156**	8	45	13	2.8	2.1	5	3	1.75
*M2.3 ×	0.4	**TY821196**	8	45	13	2.8	2.1	5	3	1.9
M2.5 ×	0.45	**TY821176**	9	50	15	2.8	2.1	5	3	2.05
*M2.6 ×	0.45	**TY821496**	9	50	15	2.8	2.1	5	3	2.1
M3 ×	0.5	**TY821206**	11	56	18	3.5	2.7	6	3	2.5
M3.5 ×	0.6	**TY821226**	12	56	20	4	3	6	3	2.9
M4 ×	0.7	**TY821246**	13	63	21	4.5	3.4	6	3	3.3
M4.5 ×	0.75	**TY821266**	14	70	25	6	4.9	8	3	3.7
M5 ×	0.8	**TY821286**	15	70	25	6	4.9	8	4	4.2
M6 ×	1	**TY821316**	17	80	30	6	4.9	8	4	5
M7 ×	1	**TY821346**	17	80	30	7	5.5	8	4	6
M8 ×	1.25	**TY821366**	20	90	35	8	6.2	9	4	6.8
M9 ×	1.25	**TY821396**	20	90	35	9	7	10	4	7.8
M10 ×	1.5	**TY821426**	22	100	39	10	8	11	4	8.5
M11 ×	1.5	**TY821466**	22	100	40	8	6.2	9	4	9.5
M12 ×	1.75	**TY821506**	24	110	44	9	7	10	4	10.2
M14 ×	2	**TY821546**	26	110	44	11	9	12	4	12
M16 ×	2	**TY821606**	27	110	44	12	9	12	4	14
M18 ×	2.5	**TY821656**	30	125	50	14	11	14	4	15.5
M20 ×	2.5	**TY821706**	32	140	54	16	12	15	4	17.5
M22 ×	2.5	**TY821746**	32	140	54	18	14.5	17	4	19.5
M24 ×	3	**TY821786**	34	160	60	18	14.5	17	4	21
M27 ×	3	**TY821866**	36	160	60	20	16	19	4	24
M30 ×	3.5	**TY821946**	40	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶ * DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TE403 SERIES

MF — ISO metric fine threads DIN 13

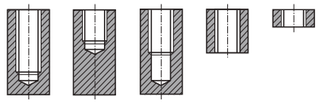
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo fine DIN 13

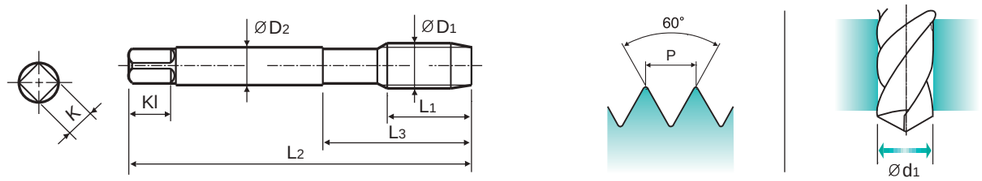
▶ Suitable for tapping cast iron or similar work materials due to nitriding.

▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen dank der Nitrierung

DIN 374

Hole type 2.0×D





Material groups **GG** | HSS-E | DIN 374 | 6HX | 60° | C | NI

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Ni	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.5	**TE403256**	10	63	21	2.8	2.1	5	3	3.5
M5	× 0.5	**TE403296**	11	70	25	3.5	2.7	6	4	4.5
M6	× 0.75	**TE403326**	13	80	30	4.5	3.4	6	4	5.2
M6	× 0.5	**TE403336**	13	80	30	4.5	3.4	6	4	5.5
M7	× 0.75	**TE403356**	14	80	30	5.5	4.3	7	4	6.2
M8	× 1	**TE403376**	17	90	36	6	4.9	8	4	7
M8	× 0.75	**TE403386**	14	80	30	6	4.9	8	4	7.2
M10	× 1.25	**TE403436**	22	100	40	7	5.5	8	4	8.8
M10	× 1	**TE403446**	18	90	36	7	5.5	8	4	9
M10	× 0.75	**TE403456**	18	90	36	7	5.5	8	4	9.2
M12	× 1.5	**TE403516**	22	100	40	9	7	10	4	10.5
M12	× 1.25	**TE403526**	22	100	40	9	7	10	4	10.8
M12	× 1	**TE403536**	18	100	40	9	7	10	4	11
M14	× 1.5	**TE403556**	22	100	40	11	9	12	4	12.5
M14	× 1.25	**TE403566**	22	100	40	11	9	12	4	12.8
M16	× 1.5	**TE403616**	22	100	40	12	9	12	4	14.5
M18	× 1.5	**TE403676**	25	110	44	14	11	14	4	16.5
M20	× 1.5	**TE403726**	25	125	50	16	12	15	4	18.5
M22	× 1.5	**TE403766**	25	125	50	18	14.5	17	4	20.5
M24	× 1.5	**TE403806**	27	140	54	18	14.5	17	4	22.5

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TE434 SERIES

UNC — Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

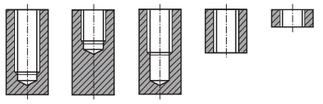
▶ Suitable for tapping cast iron or similar work materials due to nitriding.

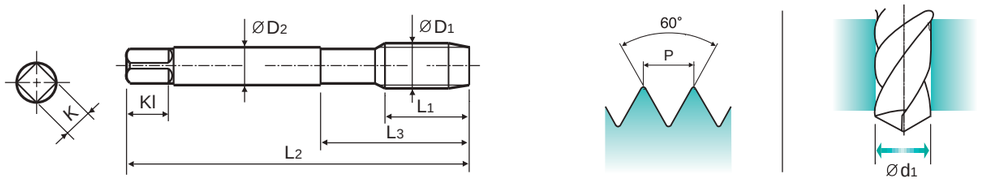
▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen dank der Nitrierung

DIN 371

DIN 376

Hole type 2.0×D





Material groups **GG** | HSS-E | DIN 371/376 | 2BX | 60° | C | NI

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Ni	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	- 40UNC	**TE434162**	11	56	18	3.5	2.7	6	3	2.3
#5	- 40UNC	**TE434202**	11	56	18	3.5	2.7	6	3	2.6
#6	- 32UNC	**TE434242**	12	56	20	4	3	6	3	2.85
#8	- 32UNC	**TE434282**	13	63	21	4.5	3.4	6	3	3.5
#10	- 24UNC	**TE434322**	15	70	25	6	4.9	8	3	3.9
#12	- 24UNC	**TE434362**	16	80	30	6	4.9	8	3	4.5
1/4	- 20UNC	**TE434402**	17	80	30	7	5.5	8	4	5.2
5/16	- 18UNC	**TE434442**	20	90	35	8	6.2	9	4	6.6
3/8	- 16UNC	**TE434482**	22	100	39	9	7	10	4	8
7/16	- 14UNC	**TE434522**	22	100	40	8	6.2	9	4	9.4
1/2	- 13UNC	**TE434562**	25	110	44	9	7	10	4	10.75
9/16	- 12UNC	**TE434602**	26	110	44	11	9	12	4	12.25
5/8	- 11UNC	**TE434642**	27	110	44	12	9	12	4	13.5
3/4	- 10UNC	**TE434702**	30	125	50	14	11	14	4	16.5
7/8	- 9UNC	**TE434742**	32	140	54	18	14.5	17	4	19.5
1	- 8UNC	**TE434782**	36	160	60	20	16	17	4	22.25
1-1/8	- 7UNC	**TE434822**	40	180	70	22	18	21	4	25

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

◎ : Excellent ○ : Good

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

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

YG TAP CAST IRON

TE454 SERIES

UNF — Unified fine threads

Unified Feingewinde
UNF
Unificato passo fine

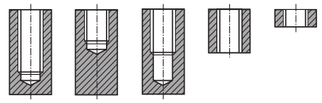
▶ Suitable for tapping cast iron or similar work materials due to nitriding.

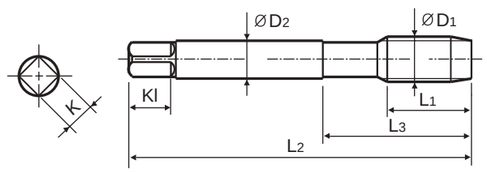
▶ Geeignet zum Gewindeschneiden von Guss oder ähnlichen Werkstoffen dank der Nitrierung

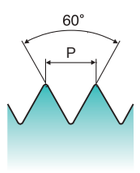
DIN 371

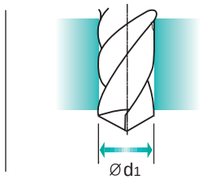
DIN 374

Hole type
2.0×D









Material groups **GG** | HSS-E | DIN 371/374 | 2BX | 60° | C | NI

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.237

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Ni	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4 -	48UNF	TE454182	11	56	18	3.5	2.7	6	3	2.4
#5 -	44UNF	TE454222	11	56	18	3.5	2.7	6	3	2.7
#6 -	40UNF	TE454262	12	56	20	4	3	6	3	3
#8 -	36UNF	TE454302	13	63	21	4.5	3.4	6	3	3.5
#10 -	32UNF	TE454342	15	70	25	6	4.9	8	3	4.1
#12 -	28UNF	TE454382	16	80	30	6	4.9	8	4	4.7
1/4 -	28UNF	TE454422	17	80	30	7	5.5	8	4	5.5
5/16 -	24UNF	TE454462	17	90	35	8	6.2	9	4	6.9
3/8 -	24UNF	TE454502	18	100	39	9	7	10	4	8.5
7/16 -	20UNF	TE454542	22	100	40	8	6.2	9	4	9.9
1/2 -	20UNF	TE454582	22	100	40	9	7	10	4	11.5
9/16 -	18UNF	TE454622	22	100	40	11	9	12	4	12.9
5/8 -	18UNF	TE454662	22	100	40	12	9	12	4	14.5
3/4 -	16UNF	TE454722	25	110	44	14	11	14	4	17.5
7/8 -	14UNF	TE454762	26	125	50	18	14.5	17	4	20.5
1 -	12UNF	TE454802	28	140	54	18	14.5	17	4	23.25
1-1/8 -	12UNF	TE454842	30	150	60	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

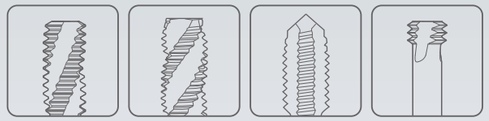
YG TAP CAST IRON

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

						T0993	TE821 TE403 TE434 TE454	TD821	TI821	TY821
ISO	VDI 3323	Material Description	HB	HRc		Vc (m/min)				
P	1	Non-alloy steel	125							
	2		190	13						
	3		250	25						
	4		270	28						
	5		300	32						
	6	Low alloy steel	180	10						
	7		275	29						
	8		300	32						
	9		350	38						
	10	High alloyed steel, and tool steel	200	15						
	11		325	35						
M	12	Stainless steel	200	15						
	13		240	23						
	14		180	10						
K	15	Grey cast iron	180	10		10-15	10-15	15-20	15-20	15-20
	16		260	26		5-8	5-8	8-11	8-11	8-11
	17	Nodular cast iron	160	3		10-15	10-15	15-20	15-20	15-20
	18		250	25		5-8	5-8	8-11	8-11	8-11
	19	Malleable cast iron	130			10-15	10-15	15-20	15-20	15-20
	20		230	21		5-8	5-8	8-11	8-11	8-11
N	21	Aluminum-wrought alloy	60							
	22		100							
	23	Aluminum-cast, alloyed	75			15-20				
	24		90							
	25		130			10-15				
	26	Copper and Copper Alloys (Bronze / Brass)	110							
	27		90				8-12	12-16	12-16	12-16
	28		100							
	29	Non Metallic Materials								
	30									
S	31	Heat Resistant Super Alloys	200	15						
	32		280	30						
	33		250	25						
	34		350	38						
	35		320	34						
	36	Titanium Alloys	400 Rm							
	37		1050 Rm							
H	38	Hardened steel	550	55						
	39		630	60						
	40	Chilled Cast Iron	400	42		3-5				
	41	Hardened Cast Iron	550	55						

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

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

HSS-E

YG TAP ALU

YG TAP ALU

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

SELECTION GUIDE

YG THREADING TOOLS

HSS-E
YG TAP
ALU

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

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.252

			Max. 2.5xD Blind Hole		Max. 3.0xD Through Hole		Max. 2.0xD Blind/Through Hole			
HOLE TYPE										
TOOL MATERIAL			HSS-E							
CHAMFER LEAD ACC. TO DIN2197			C	C	B	B	C	C	C	
FLUTE TYPE			Spiral Flute	Spiral Flute	Spiral Point	Spiral Point	Straight Flute	Straight Flute	Straight Flute	
SPIRAL FLUTE ANGLE			R45	R40	-	-	-	-	-	
SERIES	M	DIN371/376	TC163 (P.242)	TE953 (P.243)	TC622 (P.247)	TE943 (P.248)	TC433 (P.249)	TE443 (P.250)	TY433 (P.251)	M
		DIN352								
		DIN357/LONG								
	MF	DIN374	TC963 (P.244)							MF
		DIN2181								
	UNC	DIN371/376	TC169 (P.245)							UNC
		DIN351								
	UNF	DIN371/374	TC170 (P.246)							UNF
		DIN2181								
	BSW	DIN2182/2183								BSW
		DIN351								
	G(BSP)	DIN5156/5157								G(BSP)
	EG-M	DIN371/376								EG-M
	EG-UNC	DIN371/376								EG-UNC
	EG-UNF	DIN371/374								EG-UNF
SURFACE TREATMENT			Bright	NI	Bright	NI	Bright	NI	TiAlN	
MODEL										

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

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

YG TAP ALU

TC163 SERIES

M ISO metric coarse threads DIN 13

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

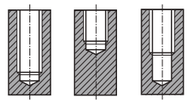
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

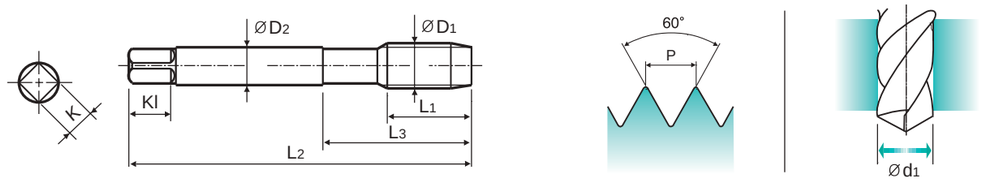
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: Al | HSS-E | DIN 371/376 | 6H | 60° | C | Bright | R45

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TE953 SERIES

M ISO metric coarse threads DIN 13

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

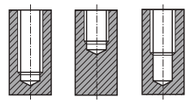
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

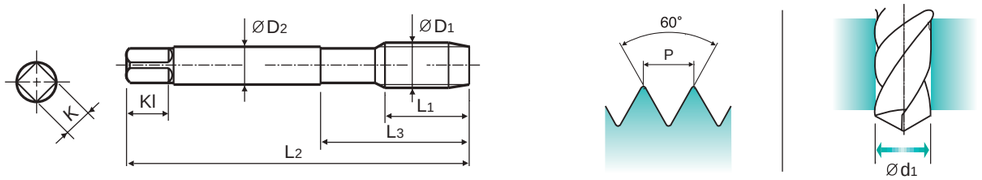
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: Al | HSS-E | DIN 371/376 | 6H | 60° | C | Ni | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TC963 SERIES

MF ISO metric fine threads DIN 13

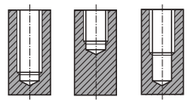
- Metrisches ISO-Feingewinde DIN 13
- ISO MÉTRIQUE PAS FINS DIN13
- ISO Metrico passo grosso DIN 13

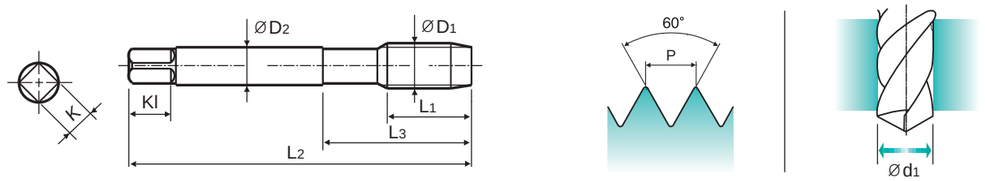
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 374

Hole type
2.5×D





Material groups: Al | HSS-E | DIN 374 | 6H | 60° | C | Bright | R45

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TC169 SERIES

UNC Unified coarse threads

- Unified Grobgewinde
- UNC
- Unificato passo grosso

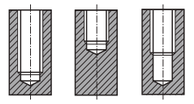
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

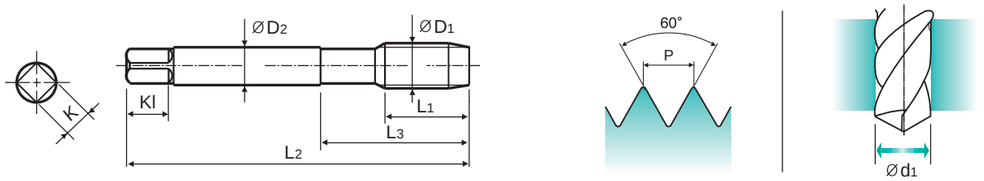
Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: Al | HSS-E | DIN 371/376 | 2B | 60° | C | Bright | R45

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TC170 SERIES

UNF — Unified fine threads

- Unified Feingewinde
- UNF
- Unificato passo grosso

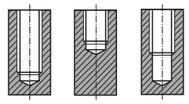
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

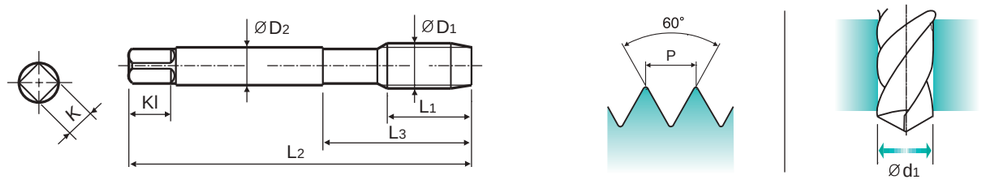
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 374

Hole type
2.5×D





Material groups: Al | HSS-E | DIN 371/374 | 2B | 60° | C | Bright | R45

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TC622 SERIES

M-Az — ISO metric coarse threads DIN 13

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

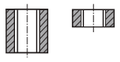
▶ Interrupted tap to reduce contact area and tapping torque, and to give more chip space.

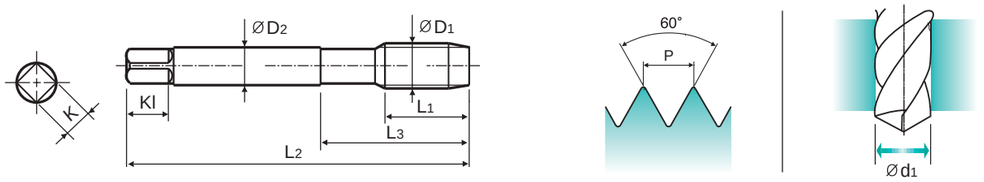
▶ Gewindebohrer mit ausgesetzten Zahnen um die Kontaktzone mit dem Werkstuck und das Drehmoment zu minimieren und dem Span mehr Raum zu geben.

DIN 371

DIN 376

Hole type
3.0×D





Material groups: Al | HSS-E | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TE943 SERIES

M ISO metric coarse threads DIN 13

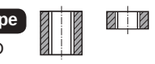
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

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

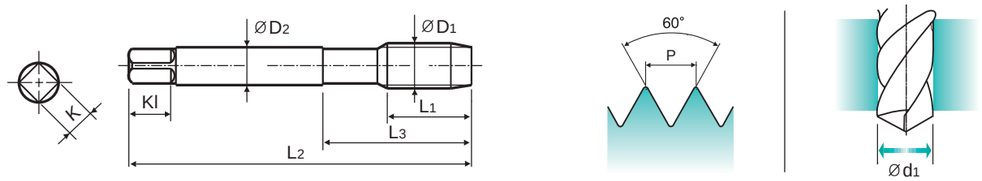
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke.

DIN 371

DIN 376



Hole type
3.0×D



Material groups **Al** | HSS-E | DIN 371/376 | 6H | 60° | B | Nl

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TC433 SERIES

M ISO metric coarse threads DIN 13

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

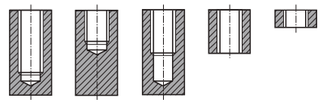
▶ Suitable for brass and short chip work materials.

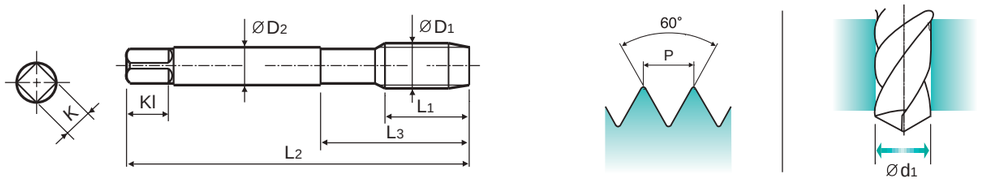
▶ Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen

DIN 371

DIN 376

Hole type
2.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

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

YG TAP ALU

TE443 SERIES

M ISO metric coarse threads DIN 13

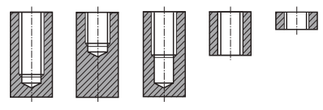
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

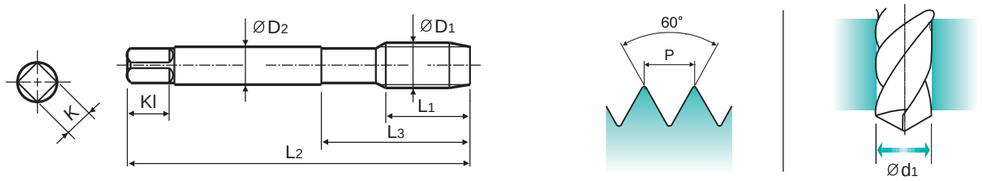
▶ Suitable for brass and short chip work materials.

▶ Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen

DIN 371
DIN 376

Hole type
2.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

YG TAP ALU

TY433 SERIES

M ISO metric coarse threads DIN 13

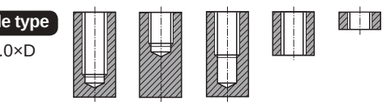
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

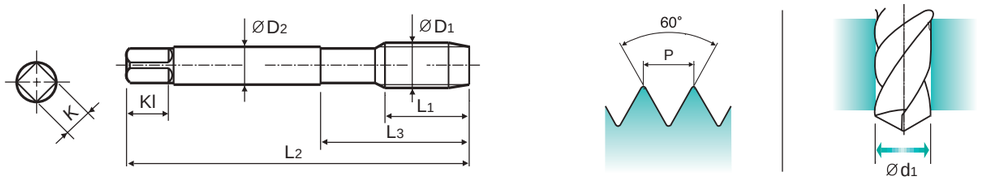
▶ Suitable for brass and short chip work materials.

▶ Geeignet zum Gewindeschneiden von Messing und anderen kurzspanenden Werkstoffen

DIN 371
DIN 376

Hole type
2.0×D





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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.252

Unit : mm

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

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

◎ : Excellent ○ : Good

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

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

YG TAP ALU

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

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

Leading Through Innovation

HSS-PM

YG TAP Ti Ni
YG TAP Ti Ni

- For Heat Resistent Super Alloys and Titanium Alloys Applied with Cutting Edge Rake Angles and Thread Relief
- Für hitzebeständige Superlegierungen und Titanlegierungen, mit Schneidkanten-Spanwinkeln und Gewindehinterschliff

SELECTION GUIDE

YG THREADING TOOLS

HSS-PM
YG TAP
Ti Ni

For Heat Resistent Super Alloys and Titanium Alloys
Applied with Cutting Edge Rake Angles and Thread Relief

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.268

			Max. 2.5xD Blind Hole	Max. 3.0xD Through Hole	Max. 2.5xD Blind Hole	Max. 3.0xD Through Hole
HOLE TYPE						
TOOL MATERIAL			HSS-PM			
CHAMFER LEAD ACC.TO DIN2197			C	C	B	B
FLUTE TYPE			Spiral Flute	Spiral Flute	Spiral Point	Spiral Point
SPIRAL FLUTE ANGLE			R25	R25	-	-
SERIES	M	DIN371/376	TM903 (P.256)	TZ903 (P.257)	TM293 (P.258)	TZ293 (P.259)
		DIN352				
		DIN357/LONG				
	MF	DIN374				
		DIN2181				
	UNC	DIN371/376				
		DIN351				
	UNF	DIN371/374				
		DIN2181				
	BSW	DIN2182/2183				
		DIN351				
	G(BSP)	DIN5156/5157				
	EG-M	DIN371/376				
	EG-UNC	DIN371/376				
	EG-UNF	DIN371/374				
SURFACE TREATMENT			Bright	TiAlN	Bright	TiAlN
MODEL						

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

			Max. 2.5xD Blind Hole	Max. 3.0xD Through Hole	Max. 2.5xD Blind Hole	Max. 3.0xD Through Hole
HOLE TYPE						
TOOL MATERIAL			HSS-PM			
CHAMFER LEAD ACC.TO DIN2197			C	C	B	B
FLUTE TYPE			Spiral Flute	Spiral Flute	Spiral Point	Spiral Point
SPIRAL FLUTE ANGLE			R40	R40	-	-
SERIES	M	DIN371/376	TM933 (P.260)	TZ933 (P.261)	TM923 (P.262)	TZ923 (P.263)
		DIN352				
		DIN357/LONG				
	MF	DIN374				
		DIN2181				
	UNC	DIN371/376				
		DIN351				
	UNF	DIN371/374				
		DIN2181				
	BSW	DIN2182/2183				
		DIN351				
	G(BSP)	DIN5156/5157				
	EG-M	DIN371/376				
	EG-UNC	DIN371/376				
	EG-UNF	DIN371/374				
SURFACE TREATMENT			Bright	TiAlN	Bright	TiAlN
MODEL						

P	1									
	2									
	3									
	4									
	5									
	6	◎	◎	◎	◎	◎	◎	◎	◎	
	7	◎	◎	◎	◎	◎	◎	◎	◎	
	8	◎	◎	◎	◎	◎	◎	◎	◎	
	9	◎	◎	◎	◎	◎	◎	◎	◎	
	10									
	11									
M	12									
	13									
	14									
K	15									
	16									
	17									
	18									
	19									
	20									
N	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
S	31	◎	◎	◎	◎	◎	◎	◎	◎	
	32	◎	◎	◎	◎	◎	◎	◎	◎	
	33	◎	◎	◎	◎	◎	◎	◎	◎	
	34	◎	◎	◎	◎	◎	◎	◎	◎	
	35	◎	◎	◎	◎	◎	◎	◎	◎	
	36					○	○	○	○	
	37	○	○	○	○	◎	◎	◎	◎	
H	38				○					
	39									
	40			○	○			○	○	
	41									

YG TAP Ti Ni

TM903 SERIES

M ISO metric coarse threads DIN 13

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

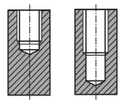
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

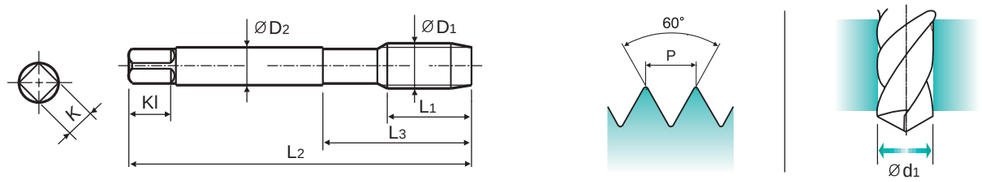
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: **Ti** | HSS-PM | DIN 371/376 | 6H | 60° | C | Bright | R25

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TM903136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TM903156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TM903196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TM903176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TM903496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TM903206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TM903226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TM903246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TM903266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TM903286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TM903316	10	80	30	6	4.9	8	3	5
M7 × 1		TM903346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TM903366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TM903396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TM903426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TM903466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TM903506	18	110	44	9	7	10	3	10.2
M14 × 2		TM903546	20	110	44	11	9	12	3	12
M16 × 2		TM903606	20	110	44	12	9	12	3	14
M18 × 2.5		TM903656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TM903706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TM903746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TM903786	30	160	60	18	14.5	17	4	21
M27 × 3		TM903866	30	160	60	20	16	19	4	24
M30 × 3.5		TM903946	35	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TZ903 SERIES

M ISO metric coarse threads DIN 13

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

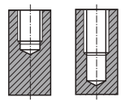
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

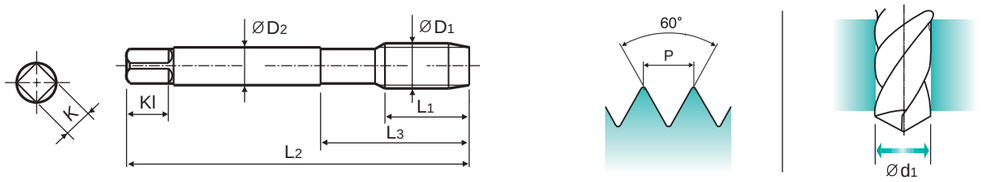
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: **Ti** | HSS-PM | DIN 371/376 | 6H | 60° | C | TiAlN | R25

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TZ903136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TZ903156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TZ903196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TZ903176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TZ903496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TZ903206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TZ903226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TZ903246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TZ903266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TZ903286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TZ903316	10	80	30	6	4.9	8	3	5
M7 × 1		TZ903346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TZ903366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TZ903396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TZ903426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TZ903466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TZ903506	18	110	44	9	7	10	3	10.2
M14 × 2		TZ903546	20	110	44	11	9	12	3	12
M16 × 2		TZ903606	20	110	44	12	9	12	3	14
M18 × 2.5		TZ903656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TZ903706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TZ903746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TZ903786	30	160	60	18	14.5	17	4	21
M27 × 3		TZ903866	30	160	60	20	16	19	4	24
M30 × 3.5		TZ903946	35	180	70	22	18	21	4	26.5

▶DIN 371(M2~M10) and DIN 376(M11~M30)

▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TM293 SERIES

M-Az ISO metric coarse threads DIN 13

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

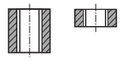
▶ Interrupted tap to reduce contact area and tapping torque, and to give more chip space.

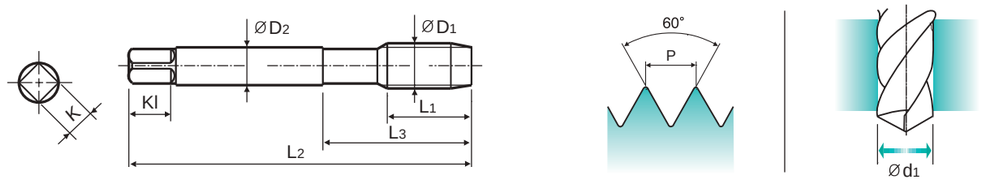
▶ Gewindebohrer mit ausgesetzten Zahnen um die Kontaktzone mit dem Werkstuck und das Drehmoment zu minimieren und dem Span mehr Raum zu geben.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **Ti** | HSS-PM | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TM293136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TM293156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TM293196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TM293176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TM293496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TM293206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TM293226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TM293246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TM293266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TM293286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TM293316	17	80	30	6	4.9	8	3	5
M7 × 1		TM293346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TM293366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TM293396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TM293426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TM293466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TM293506	24	110	44	9	7	10	3	10.2
M14 × 2		TM293546	26	110	44	11	9	12	3	12
M16 × 2		TM293606	27	110	44	12	9	12	3	14
M18 × 2.5		TM293656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TM293706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TM293746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TM293786	34	160	60	18	14.5	17	4	21
M27 × 3		TM293866	36	160	60	20	16	19	4	24
M30 × 3.5		TM293946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TZ293 SERIES

M-Az ISO metric coarse threads DIN 13

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

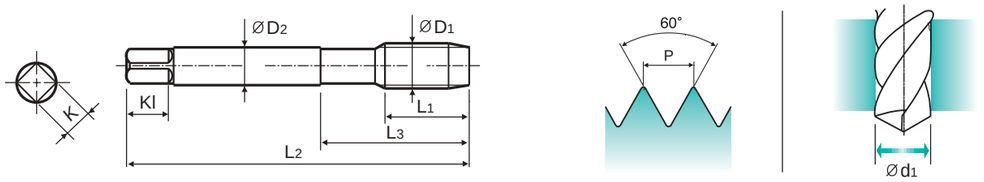
▶ Interrupted tap to reduce contact area and tapping torque, and to give more chip space.

▶ Gewindebohrer mit ausgesetzten Zahnen um die Kontaktzone mit dem Werkstuck und das Drehmoment zu minimieren und dem Span mehr Raum zu geben.

DIN 371

DIN 376

Hole type
3.0×D



Material groups **Ti** | HSS-PM | DIN 371/376 | 6H | 60° | B | TiAlN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TZ293136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TZ293156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TZ293196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TZ293176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TZ293496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TZ293206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TZ293226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TZ293246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TZ293266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TZ293286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TZ293316	17	80	30	6	4.9	8	3	5
M7 × 1		TZ293346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TZ293366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TZ293396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TZ293426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TZ293466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TZ293506	24	110	44	9	7	10	3	10.2
M14 × 2		TZ293546	26	110	44	11	9	12	3	12
M16 × 2		TZ293606	27	110	44	12	9	12	3	14
M18 × 2.5		TZ293656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TZ293706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TZ293746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TZ293786	34	160	60	18	14.5	17	4	21
M27 × 3		TZ293866	36	160	60	20	16	19	4	24
M30 × 3.5		TZ293946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TM933 SERIES

M ISO metric coarse threads DIN 13

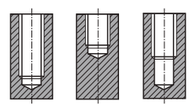
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ For tapping Nickel alloys and heat resistant alloy steels which are used in aerospace and checmical industries.

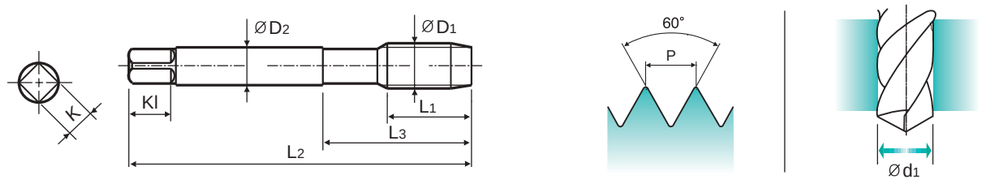
▶ Zum Gewindeschneiden von Nickellegierungen und hitzefesten Legierungsstählen, die in der Luftfahrtindustrie und chemischen Industrie verwendet werden.

DIN 371

DIN 376



Hole type
2.5×D



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

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TM933136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TM933156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TM933196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TM933176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TM933496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TM933206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TM933226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TM933246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TM933266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TM933286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TM933316	10	80	30	6	4.9	8	3	5
M7 × 1		TM933346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TM933366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TM933396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TM933426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TM933466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TM933506	18	110	44	9	7	10	3	10.2
M14 × 2		TM933546	20	110	44	11	9	12	3	12
M16 × 2		TM933606	20	110	44	12	9	12	3	14
M18 × 2.5		TM933656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TM933706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TM933746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TM933786	30	160	60	18	14.5	17	4	21
M27 × 3		TM933866	30	160	60	20	16	19	4	24
M30 × 3.5		TM933946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TZ933 SERIES

M ISO metric coarse threads DIN 13

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

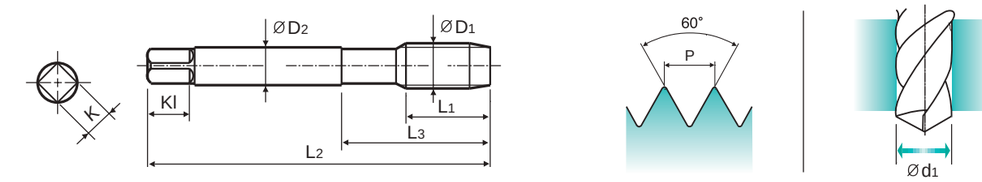
▶ For tapping Nickel alloys and heat resistant alloy steels which are used in aerospace and checmical industries.

▶ Zum Gewindeschneiden von Nickellegierungen und hitzefesten Legierungsstählen, die in der Luftfahrtindustrie und chemischen Industrie verwendet werden.

DIN 371

DIN 376

Hole type
2.5×D



Material groups **Ni** | HSS-PM | DIN 371/376 | 6H | 60° | C | TiAlN | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TZ933136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TZ933156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TZ933196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TZ933176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TZ933496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TZ933206	6	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TZ933226	7	56	20	4	3	6	3	2.9
M4 × 0.7		TZ933246	7	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TZ933266	8	70	25	6	4.9	8	3	3.7
M5 × 0.8		TZ933286	8	70	25	6	4.9	8	3	4.2
M6 × 1		TZ933316	10	80	30	6	4.9	8	3	5
M7 × 1		TZ933346	10	80	30	7	5.5	8	3	6
M8 × 1.25		TZ933366	13	90	35	8	6.2	9	3	6.8
M9 × 1.25		TZ933396	13	90	35	9	7	10	3	7.8
M10 × 1.5		TZ933426	15	100	39	10	8	11	3	8.5
M11 × 1.5		TZ933466	17	100	40	8	6.2	9	3	9.5
M12 × 1.75		TZ933506	18	110	44	9	7	10	3	10.2
M14 × 2		TZ933546	20	110	44	11	9	12	3	12
M16 × 2		TZ933606	20	110	44	12	9	12	3	14
M18 × 2.5		TZ933656	25	125	50	14	11	14	4	15.5
M20 × 2.5		TZ933706	25	140	54	16	12	15	4	17.5
M22 × 2.5		TZ933746	25	140	54	18	14.5	17	4	19.5
M24 × 3		TZ933786	30	160	60	18	14.5	17	4	21
M27 × 3		TZ933866	30	160	60	20	16	19	4	24
M30 × 3.5		TZ933946	35	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TM923 SERIES

M ISO metric coarse threads DIN 13

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

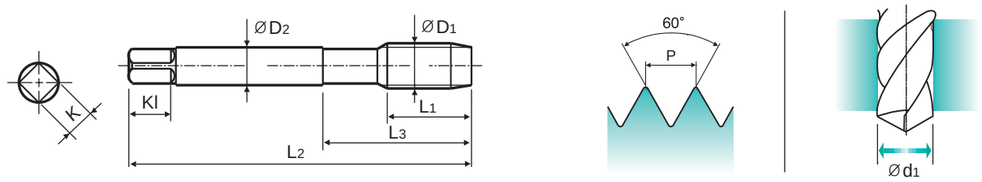
▶ For tapping Nickel alloys and heat resistant alloy steels which are used in aero space and checmical industries.

▶ Zum Gewindeschneiden von Nickellegierungen und hitzefesten Legierungsstählen, die in der Luftfahrtindustrie und chemischen Industrie verwendet werden.

DIN 371

DIN 376

Hole type
3.0×D



Material groups **Ni** | HSS-PM | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TM923136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TM923156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TM923196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TM923176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TM923496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TM923206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TM923226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TM923246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TM923266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TM923286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TM923316	17	80	30	6	4.9	8	3	5
M7 × 1		TM923346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TM923366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TM923396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TM923426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TM923466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TM923506	24	110	44	9	7	10	3	10.2
M14 × 2		TM923546	26	110	44	11	9	12	3	12
M16 × 2		TM923606	27	110	44	12	9	12	3	14
M18 × 2.5		TM923656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TM923706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TM923746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TM923786	34	160	60	18	14.5	17	4	21
M27 × 3		TM923866	36	160	60	20	16	19	4	24
M30 × 3.5		TM923946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TZ923 SERIES

M ISO metric coarse threads DIN 13

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

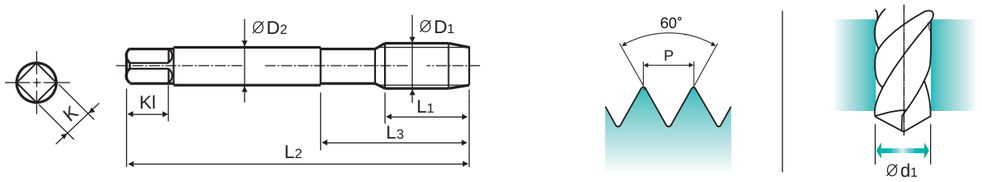
▶ For tapping Nickel alloys and heat resistant alloy steels which are used in aero space and checmical industries.

▶ Zum Gewindeschneiden von Nickellegierungen und hitzefesten Legierungsstählen, die in der Luftfahrtindustrie und chemischen Industrie verwendet werden.

DIN 371

DIN 376

Hole type
3.0×D



Material groups **Ni** | HSS-PM | DIN 371/376 | 6H | 60° | B | TiAlN

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2 × 0.4		TZ923136	8	45	13	2.8	2.1	5	3	1.6
M2.2 × 0.45		TZ923156	8	45	13	2.8	2.1	5	3	1.75
*M2.3 × 0.4		TZ923196	8	45	13	2.8	2.1	5	3	1.9
M2.5 × 0.45		TZ923176	9	50	15	2.8	2.1	5	3	2.05
*M2.6 × 0.45		TZ923496	9	50	15	2.8	2.1	5	3	2.1
M3 × 0.5		TZ923206	11	56	18	3.5	2.7	6	3	2.5
M3.5 × 0.6		TZ923226	12	56	20	4	3	6	3	2.9
M4 × 0.7		TZ923246	13	63	21	4.5	3.4	6	3	3.3
M4.5 × 0.75		TZ923266	14	70	25	6	4.9	8	3	3.7
M5 × 0.8		TZ923286	15	70	25	6	4.9	8	3	4.2
M6 × 1		TZ923316	17	80	30	6	4.9	8	3	5
M7 × 1		TZ923346	17	80	30	7	5.5	8	3	6
M8 × 1.25		TZ923366	20	90	35	8	6.2	9	3	6.8
M9 × 1.25		TZ923396	20	90	35	9	7	10	3	7.8
M10 × 1.5		TZ923426	22	100	39	10	8	11	3	8.5
M11 × 1.5		TZ923466	22	100	40	8	6.2	9	3	9.5
M12 × 1.75		TZ923506	24	110	44	9	7	10	3	10.2
M14 × 2		TZ923546	26	110	44	11	9	12	3	12
M16 × 2		TZ923606	27	110	44	12	9	12	3	14
M18 × 2.5		TZ923656	30	125	50	14	11	14	4	15.5
M20 × 2.5		TZ923706	32	140	54	16	12	15	4	17.5
M22 × 2.5		TZ923746	32	140	54	18	14.5	17	4	19.5
M24 × 3		TZ923786	34	160	60	18	14.5	17	4	21
M27 × 3		TZ923866	36	160	60	20	16	19	4	24
M30 × 3.5		TZ923946	40	180	70	22	18	21	4	26.5

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

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TQ833 SERIES

M ISO metric coarse threads DIN 13

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

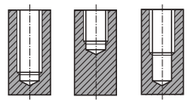
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

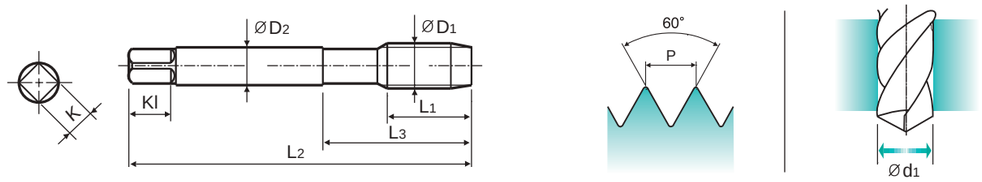
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: Ti Ni | HSS-PM | DIN 371/376 | 6H | 60° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TQ833136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TQ833156**	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	**TQ833176**	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	**TQ833206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TQ833226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TQ833246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TQ833266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TQ833286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TQ833316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TQ833346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TQ833366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TQ833426**	15	100	39	10	8	11	3	8.5
M12	× 1.75	**TQ833506**	18	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TR833 SERIES

M ISO metric coarse threads DIN 13

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

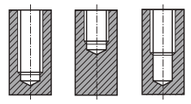
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

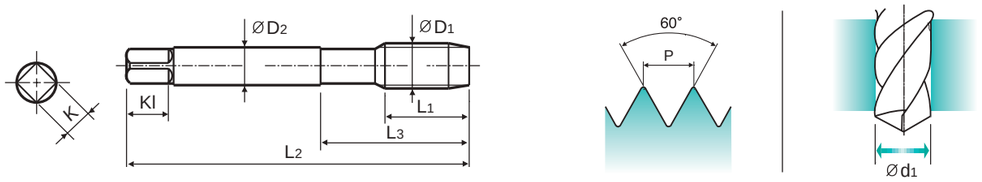
▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 371

DIN 376

Hole type
2.5×D





Material groups: Ti Ni | HSS-PM | DIN 371/376 | 6H | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	**TR833136**	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	**TR833156**	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	**TR833176**	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	**TR833206**	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	**TR833226**	7	56	20	4	3	6	3	2.9
M4	× 0.7	**TR833246**	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	**TR833266**	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	**TR833286**	8	70	25	6	4.9	8	3	4.2
M6	× 1	**TR833316**	10	80	30	6	4.9	8	3	5
M7	× 1	**TR833346**	10	80	30	7	5.5	8	3	6
M8	× 1.25	**TR833366**	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	**TR833426**	15	100	39	10	8	11	3	8.5
M12	× 1.75	**TR833506**	18	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TQ873 SERIES

M ISO metric coarse threads DIN 13

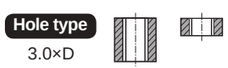
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.

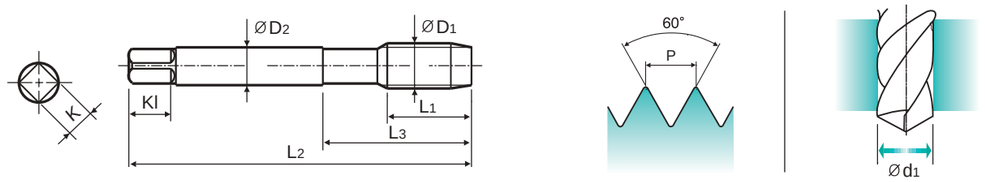
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke und bestem Werkstoff.

DIN 371

DIN 376



Hole type
3.0×D



Material groups: Ti Ni | HSS-PM | DIN 371/376 | 6H | 60° | B | Vap

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TQ873136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TQ873156	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	TQ873176	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	TQ873206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TQ873226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TQ873246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TQ873266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TQ873286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TQ873316	17	80	30	6	4.9	8	3	5
M7	× 1	TQ873346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TQ873366	20	90	35	8	6.2	9	3	6.8
M10	× 1.5	TQ873426	22	100	39	10	8	11	3	8.5
M12	× 1.75	TQ873506	24	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

TR873 SERIES

M ISO metric coarse threads DIN 13

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

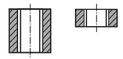
▶ Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.

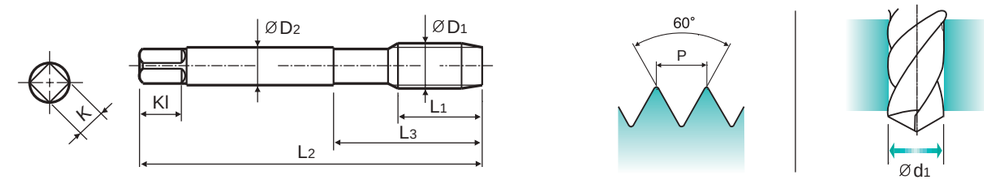
▶ Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke und bestem Werkstoff.

DIN 371

DIN 376

Hole type
3.0×D





Material groups: Ti Ni | HSS-PM | DIN 371/376 | 6H | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.268

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2	× 0.4	TR873136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TR873156	8	45	13	2.8	2.1	5	3	1.75
M2.5	× 0.45	TR873176	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	TR873206	11	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TR873226	12	56	20	4	3	6	3	2.9
M4	× 0.7	TR873246	13	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TR873266	14	70	25	6	4.9	8	3	3.7
M5	× 0.8	TR873286	15	70	25	6	4.9	8	3	4.2
M6	× 1	TR873316	17	80	30	6	4.9	8	3	5
M7	× 1	TR873346	17	80	30	7	5.5	8	3	6
M8	× 1.25	TR873366	20	90	35	8	6.2	9	3	6.8
M10	× 1.5	TR873426	22	100	39	10	8	11	3	8.5
M12	× 1.75	TR873506	24	110	44	9	7	10	3	10.2

▶DIN 371(M2~M10) and DIN 376(M12)

◎ : Excellent ○ : Good

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

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

YG TAP Ti Ni

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

					TM903	TZ903	TM293	TZ293	TM933	TZ933	TM923	TZ923	TQ833	TR833	TQ873	TR873
ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min)											
P	1	Non-alloy steel	125													
	2		190	13												
	3		250	25												
	4		270	28												
	5		300	32												
	6	Low alloy steel	180	10					10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	7		275	29	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	8		300	32	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10	6-10
	9		350	38	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5
	10	High alloyed steel, and tool steel	200	15												
	11		325	35												
M	12	Stainless steel	200	15												
	13		240	23												
	14		180	10												
K	15	Grey cast iron	180	10												
	16		260	26												
	17	Nodular cast iron	160	3												
	18		250	25												
	19	Malleable cast iron	130													
	20		230	21												
N	21	Aluminum-wrought alloy	60													
	22		100													
	23	Aluminum-cast, alloyed	75													
	24		90													
	25		130													
	26	Copper and Copper Alloys (Bronze / Brass)	110													
	27		90													
	28		100													
	29	Non Metallic Materials														
	30															
S	31	Heat Resistant Super Alloys	200	15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	32		280	30			10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	33		250	25			2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
	34		350	38			2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
	35		320	34			2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4
	36	Titanium Alloys	400 Rm		10-15	10-15	10-15	10-15					10-15	10-15	10-15	10-15
	37		1050 Rm		4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6
H	38	Hardened steel	550	55								3-5				
	39		630	60												
	40	Chilled Cast Iron	400	42			3-5	3-5			3-5	3-5			3-5	3-5
	41	Hardened Cast Iron	550	55												

Leading Through Innovation

HSS-E & HSS-PM

YG TAP FORMING
YG TAP FORMING

- **Tapping by Forming Soft Materials**
- Gewindeherstellung duch Formen von weichen Materialien

SELECTION GUIDE

YG THREADING TOOLS

HSS-E & HSS-PM
YG TAP FORMING

Tapping by Forming Soft Materials

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.285

| | | |

YG TAP FORMING

TD703 SERIES

M ISO metric coarse threads DIN 13

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

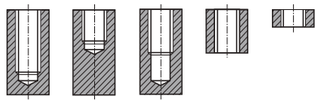
▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

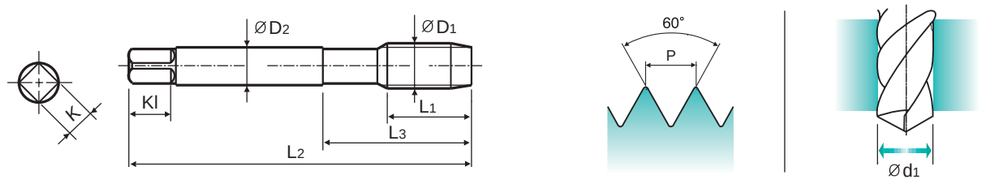
▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **GV** | HSS-E | DIN 371/376 | 6HX | 60° | C | TiN

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
			ØD1	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	**TD703136**	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	**TD703156**	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	**TD703196**	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	**TD703176**	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	**TD703496**	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	**TD703206**	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	**TD703226**	12	56	20	4	3	6	3.25
M4	× 0.7	**TD703246**	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	**TD703266**	14	70	25	6	4.9	8	4.15
M5	× 0.8	**TD703286**	15	70	25	6	4.9	8	4.65
M6	× 1	**TD703316**	17	80	30	6	4.9	8	5.55
M7	× 1	**TD703346**	17	80	30	7	5.5	8	6.55
M8	× 1.25	**TD703366**	20	90	35	8	6.2	9	7.4
M9	× 1.25	**TD703396**	20	90	35	9	7	10	8.4
M10	× 1.5	**TD703426**	22	100	39	10	8	11	9.3
M11	× 1.5	**TD703466**	22	100	40	8	6.2	9	10.3
M12	× 1.75	**TD703506**	24	110	44	9	7	10	11.2
M14	× 2	**TD703546**	26	110	44	11	9	12	13
M16	× 2	**TD703606**	27	110	44	12	9	12	15
M18	× 2.5	**TD703656**	30	125	50	14	11	14	16.8
M20	× 2.5	**TD703706**	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TE703 SERIES

M ISO metric coarse threads DIN 13

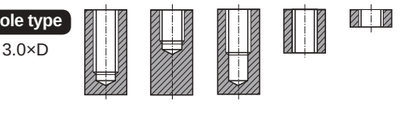
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

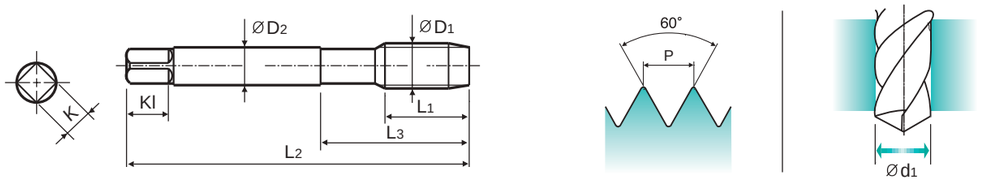
▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376



Hole type
3.0×D



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

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
			ØD1	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	**TE703136**	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	**TE703156**	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	**TE703196**	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	**TE703176**	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	**TE703496**	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	**TE703206**	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	**TE703226**	12	56	20	4	3	6	3.25
M4	× 0.7	**TE703246**	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	**TE703266**	14	70	25	6	4.9	8	4.15
M5	× 0.8	**TE703286**	15	70	25	6	4.9	8	4.65
M6	× 1	**TE703316**	17	80	30	6	4.9	8	5.55
M7	× 1	**TE703346**	17	80	30	7	5.5	8	6.55
M8	× 1.25	**TE703366**	20	90	35	8	6.2	9	7.4
M9	× 1.25	**TE703396**	20	90	35	9	7	10	8.4
M10	× 1.5	**TE703426**	22	100	39	10	8	11	9.3
M11	× 1.5	**TE703466**	22	100	40	8	6.2	9	10.3
M12	× 1.75	**TE703506**	24	110	44	9	7	10	11.2
M14	× 2	**TE703546**	26	110	44	11	9	12	13
M16	× 2	**TE703606**	27	110	44	12	9	12	15
M18	× 2.5	**TE703656**	30	125	50	14	11	14	16.8
M20	× 2.5	**TE703706**	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TY703 SERIES

M ISO metric coarse threads DIN 13

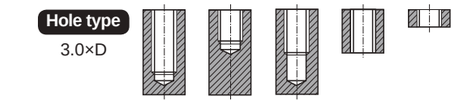
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

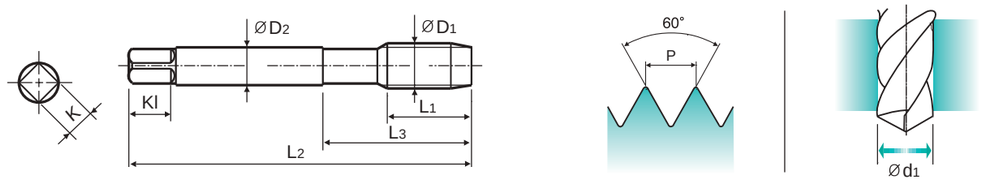
▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376





Material groups **GV** | HSS-E | DIN 371/376 | 6HX | 60° | C | TiAlN

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
	ØD1	P	TiAlN	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	**TY703136**	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	**TY703156**	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	**TY703196**	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	**TY703176**	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	**TY703496**	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	**TY703206**	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	**TY703226**	12	56	20	4	3	6	3.25
M4	× 0.7	**TY703246**	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	**TY703266**	14	70	25	6	4.9	8	4.15
M5	× 0.8	**TY703286**	15	70	25	6	4.9	8	4.65
M6	× 1	**TY703316**	17	80	30	6	4.9	8	5.55
M7	× 1	**TY703346**	17	80	30	7	5.5	8	6.55
M8	× 1.25	**TY703366**	20	90	35	8	6.2	9	7.4
M9	× 1.25	**TY703396**	20	90	35	9	7	10	8.4
M10	× 1.5	**TY703426**	22	100	39	10	8	11	9.3
M11	× 1.5	**TY703466**	22	100	40	8	6.2	9	10.3
M12	× 1.75	**TY703506**	24	110	44	9	7	10	11.2
M14	× 2	**TY703546**	26	110	44	11	9	12	13
M16	× 2	**TY703606**	27	110	44	12	9	12	15
M18	× 2.5	**TY703656**	30	125	50	14	11	14	16.8
M20	× 2.5	**TY703706**	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TQ703 SERIES

M ISO metric coarse threads DIN 13

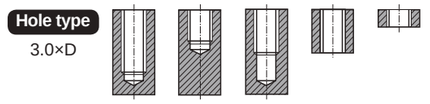
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

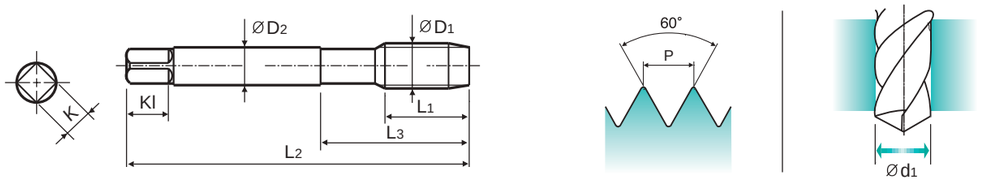
▶ Suitable for threading soft materials with at least 8-10% elongation in the best substrate.
▶ The pre-drilling holes are bigger than normal sized holes.

▶ Aus bestem Werkstoff geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376





Material groups **GV** | HSS-PM | DIN 371/376 | 6HX | 60° | C | Vap

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
	ØD1	P	Vap	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	**TQ703136**	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	**TQ703156**	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	**TQ703196**	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	**TQ703176**	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	**TQ703496**	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	**TQ703206**	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	**TQ703226**	12	56	20	4	3	6	3.25
M4	× 0.7	**TQ703246**	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	**TQ703266**	14	70	25	6	4.9	8	4.15
M5	× 0.8	**TQ703286**	15	70	25	6	4.9	8	4.65
M6	× 1	**TQ703316**	17	80	30	6	4.9	8	5.55
M7	× 1	**TQ703346**	17	80	30	7	5.5	8	6.55
M8	× 1.25	**TQ703366**	20	90	35	8	6.2	9	7.4
M9	× 1.25	**TQ703396**	20	90	35	9	7	10	8.4
M10	× 1.5	**TQ703426**	22	100	39	10	8	11	9.3
M11	× 1.5	**TQ703466**	22	100	40	8	6.2	9	10.3
M12	× 1.75	**TQ703506**	24	110	44	9	7	10	11.2
M14	× 2	**TQ703546**	26	110	44	11	9	12	13
M16	× 2	**TQ703606**	27	110	44	12	9	12	15
M18	× 2.5	**TQ703656**	30	125	50	14	11	14	16.8
M20	× 2.5	**TQ703706**	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TD713 SERIES

M ISO metric coarse threads DIN 13

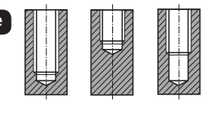
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

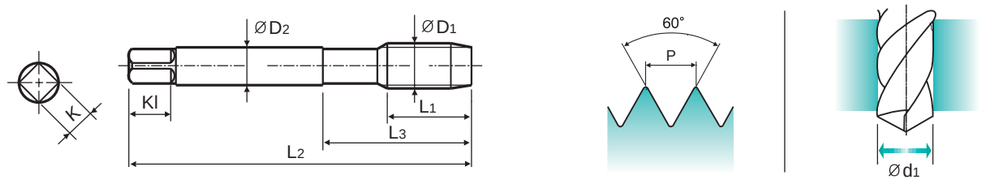
▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376





Material groups **GV** | HSS-E | DIN 371/376 | 6GX | 60° | C | TiN

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
ØD1	P	TiN	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	**TD713136**	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	**TD713156**	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	**TD713196**	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	**TD713176**	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	**TD713496**	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	**TD713206**	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	**TD713226**	12	56	20	4	3	6	3.25
M4	× 0.7	**TD713246**	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	**TD713266**	14	70	25	6	4.9	8	4.15
M5	× 0.8	**TD713286**	15	70	25	6	4.9	8	4.65
M6	× 1	**TD713316**	17	80	30	6	4.9	8	5.55
M7	× 1	**TD713346**	17	80	30	7	5.5	8	6.55
M8	× 1.25	**TD713366**	20	90	35	8	6.2	9	7.4
M9	× 1.25	**TD713396**	20	90	35	9	7	10	8.4
M10	× 1.5	**TD713426**	22	100	39	10	8	11	9.3
M11	× 1.5	**TD713466**	22	100	40	8	6.2	9	10.3
M12	× 1.75	**TD713506**	24	110	44	9	7	10	11.2
M14	× 2	**TD713546**	26	110	44	11	9	12	13
M16	× 2	**TD713606**	27	110	44	12	9	12	15
M18	× 2.5	**TD713656**	30	125	50	14	11	14	16.8
M20	× 2.5	**TD713706**	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TE713 SERIES

M ISO metric coarse threads DIN 13

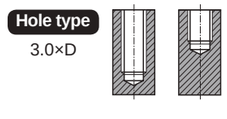
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

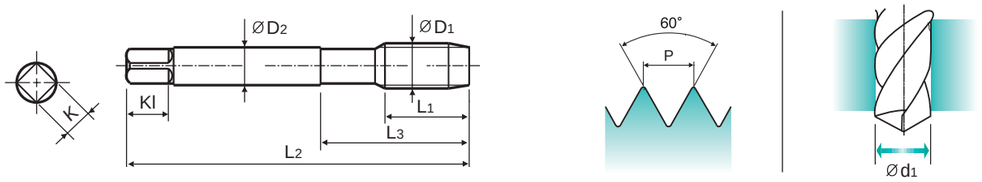
▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

▶ Aus bestem Werkstoff geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376





Material groups **GV** | HSS-E | DIN 371/376 | 6GX | 60° | C | NI

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
ØD1	P	Ni	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	**TE713136**	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	**TE713156**	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	**TE713196**	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	**TE713176**	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	**TE713496**	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	**TE713206**	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	**TE713226**	12	56	20	4	3	6	3.25
M4	× 0.7	**TE713246**	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	**TE713266**	14	70	25	6	4.9	8	4.15
M5	× 0.8	**TE713286**	15	70	25	6	4.9	8	4.65
M6	× 1	**TE713316**	17	80	30	6	4.9	8	5.55
M7	× 1	**TE713346**	17	80	30	7	5.5	8	6.55
M8	× 1.25	**TE713366**	20	90	35	8	6.2	9	7.4
M9	× 1.25	**TE713396**	20	90	35	9	7	10	8.4
M10	× 1.5	**TE713426**	22	100	39	10	8	11	9.3
M11	× 1.5	**TE713466**	22	100	40	8	6.2	9	10.3
M12	× 1.75	**TE713506**	24	110	44	9	7	10	11.2
M14	× 2	**TE713546**	26	110	44	11	9	12	13
M16	× 2	**TE713606**	27	110	44	12	9	12	15
M18	× 2.5	**TE713656**	30	125	50	14	11	14	16.8
M20	× 2.5	**TE713706**	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TQ723 SERIES

M ISO metric coarse threads DIN 13

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

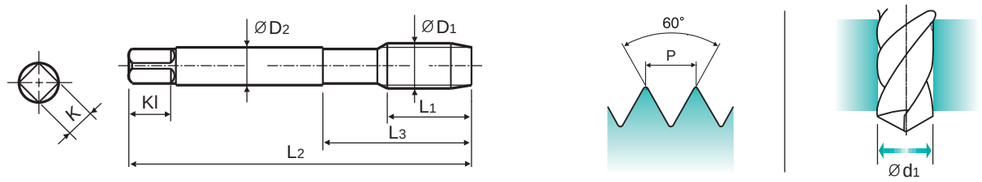
- Suitable for threading soft materials with at least 8-10% elongation in the best substrate.
- The pre-drilling holes are bigger than normal sized holes.

- Aus bestem Werkstoff geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
- Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376

Hole type
3.0×D



Material groups **GV** | HSS-PM | DIN 371/376 | 6HX | 60° | C | Vap

Cold forming taps
Gewindeformer

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
			ØD1	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	TQ723136	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	TQ723156	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	TQ723196	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	TQ723176	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	TQ723496	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	TQ723206	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	TQ723226	12	56	20	4	3	6	3.25
M4	× 0.7	TQ723246	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	TQ723266	14	70	25	6	4.9	8	4.15
M5	× 0.8	TQ723286	15	70	25	6	4.9	8	4.65
M6	× 1	TQ723316	17	80	30	6	4.9	8	5.55
M7	× 1	TQ723346	17	80	30	7	5.5	8	6.55
M8	× 1.25	TQ723366	20	90	35	8	6.2	9	7.4
M9	× 1.25	TQ723396	20	90	35	9	7	10	8.4
M10	× 1.5	TQ723426	22	100	39	10	8	11	9.3
M11	× 1.5	TQ723466	22	100	40	8	6.2	9	10.3
M12	× 1.75	TQ723506	24	110	44	9	7	10	11.2
M14	× 2	TQ723546	26	110	44	11	9	12	13
M16	× 2	TQ723606	27	110	44	12	9	12	15
M18	× 2.5	TQ723656	30	125	50	14	11	14	16.8
M20	× 2.5	TQ723706	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TE723 SERIES

M ISO metric coarse threads DIN 13

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

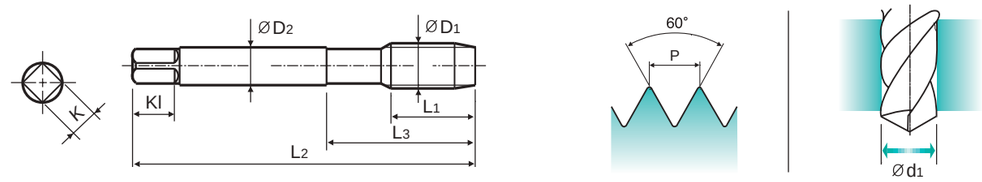
- Suitable for threading soft materials with at least 8-10% elongation.
- The pre-drilling holes are bigger than normal sized holes.

- Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
- Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376

Hole type
3.0×D



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

Cold forming taps
Gewindeformer

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
			ØD1	L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	TE723136	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	TE723156	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	TE723196	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	TE723176	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	TE723496	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	TE723206	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	TE723226	12	56	20	4	3	6	3.25
M4	× 0.7	TE723246	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	TE723266	14	70	25	6	4.9	8	4.15
M5	× 0.8	TE723286	15	70	25	6	4.9	8	4.65
M6	× 1	TE723316	17	80	30	6	4.9	8	5.55
M7	× 1	TE723346	17	80	30	7	5.5	8	6.55
M8	× 1.25	TE723366	20	90	35	8	6.2	9	7.4
M9	× 1.25	TE723396	20	90	35	9	7	10	8.4
M10	× 1.5	TE723426	22	100	39	10	8	11	9.3
M11	× 1.5	TE723466	22	100	40	8	6.2	9	10.3
M12	× 1.75	TE723506	24	110	44	9	7	10	11.2
M14	× 2	TE723546	26	110	44	11	9	12	13
M16	× 2	TE723606	27	110	44	12	9	12	15
M18	× 2.5	TE723656	30	125	50	14	11	14	16.8
M20	× 2.5	TE723706	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TD723 SERIES

M ISO metric coarse threads DIN 13

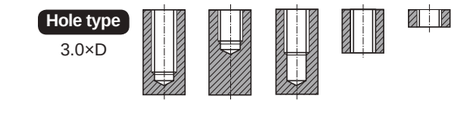
Metrisches ISO-Gewinde DIN 13
ISO MÉTRIQUE DIN13
ISO Metrico passo grosso DIN 13

▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

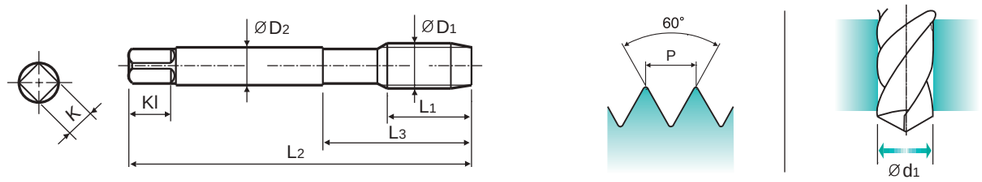
▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371

DIN 376



Hole type
3.0×D



Material groups GV | HSS-E | DIN 371/376 | 6HX | 60° | C | TiN

Cold forming taps
Gewindeformer

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
			ØD1		L1	L2	L3	ØD2	K	Kl	Ød1
M2	× 0.4	TD723136	8	45	13	2.8	2.1	5	1.83
M2.2	× 0.45	TD723156	8	45	13	2.8	2.1	5	2
*M2.3	× 0.4	TD723196	8	45	13	2.8	2.1	5	2.1
M2.5	× 0.45	TD723176	9	50	15	2.8	2.1	5	2.3
*M2.6	× 0.45	TD723496	9	50	15	2.8	2.1	5	2.4
M3	× 0.5	TD723206	11	56	18	3.5	2.7	6	2.8
M3.5	× 0.6	TD723226	12	56	20	4	3	6	3.25
M4	× 0.7	TD723246	13	63	21	4.5	3.4	6	3.7
M4.5	× 0.75	TD723266	14	70	25	6	4.9	8	4.15
M5	× 0.8	TD723286	15	70	25	6	4.9	8	4.65
M6	× 1	TD723316	17	80	30	6	4.9	8	5.55
M7	× 1	TD723346	17	80	30	7	5.5	8	6.55
M8	× 1.25	TD723366	20	90	35	8	6.2	9	7.4
M9	× 1.25	TD723396	20	90	35	9	7	10	8.4
M10	× 1.5	TD723426	22	100	39	10	8	11	9.3
M11	× 1.5	TD723466	22	100	40	8	6.2	9	10.3
M12	× 1.75	TD723506	24	110	44	9	7	10	11.2
M14	× 2	TD723546	26	110	44	11	9	12	13
M16	× 2	TD723606	27	110	44	12	9	12	15
M18	× 2.5	TD723656	30	125	50	14	11	14	16.8
M20	× 2.5	TD723706	32	140	54	16	12	15	18.8

▶DIN 371(M2~M10) and DIN 376(M11~M20)
▶* DIN profile not ISO

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TD733 SERIES

MF ISO metric fine threads DIN 13

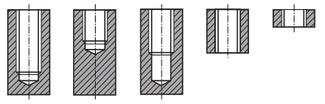
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

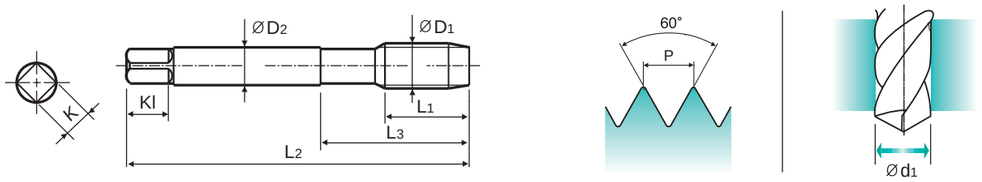
▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 374

Hole type
3.0×D





Material groups GV | HSS-E | DIN 374 | 6HX | 60° | C | TiN

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
			ØD1		L1	L2	L3	ØD2	K	Kl	Ød1
M4	× 0.5	TD733256	10	63	21	2.8	2.1	5	3.75
M5	× 0.5	TD733296	11	70	25	3.5	2.7	6	4.75
M6	× 0.75	TD733326	13	80	30	4.5	3.4	6	5.65
M6	× 0.5	TD733336	13	80	30	4.5	3.4	6	5.75
M7	× 0.75	TD733356	14	80	30	5.5	4.3	7	6.65
M8	× 1	TD733376	17	90	36	6	4.9	8	7.5
M8	× 0.75	TD733386	14	80	30	6	4.9	8	7.65
M10	× 1.25	TD733436	22	100	40	7	5.5	8	9.4
M10	× 1	TD733446	18	90	36	7	5.5	8	9.5
M10	× 0.75	TD733456	18	90	36	7	5.5	8	9.65
M12	× 1.5	TD733516	22	100	40	9	7	10	11.25
M12	× 1.25	TD733526	22	100	40	9	7	10	11.4
M12	× 1	TD733536	18	100	40	9	7	10	11.5
M14	× 1.5	TD733556	22	100	40	11	9	12	13.25
M14	× 1.25	TD733566	22	100	40	11	9	12	13.4
M16	× 1.5	TD733616	22	100	40	12	9	12	15.25
M18	× 1.5	TD733676	25	110	44	14	11	14	17.25
M20	× 1.5	TD733726	25	125	50	16	12	15	19.25

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TE733 SERIES

MF ISO metric fine threads DIN 13

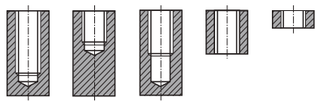
Metrisches ISO-Feingewinde DIN 13
ISO MÉTRIQUE PAS FINS DIN13
ISO Metrico passo fine DIN 13

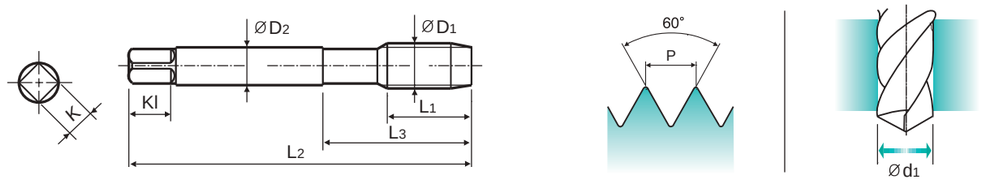
- Suitable for threading soft materials with at least 8-10% elongation.
- The pre-drilling holes are bigger than normal sized holes.

- Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
- Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 374

Hole type
3.0×D





Material groups GV | HSS-E | DIN 374 | 6HX | 60° | C | NI

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE ØD1	Pitch P	EDP No. Ni	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	Tapping Drill Diameter Ød1
M4	× 0.5	**TE733256**	10	63	21	2.8	2.1	5	3.75
M5	× 0.5	**TE733296**	11	70	25	3.5	2.7	6	4.75
M6	× 0.75	**TE733326**	13	80	30	4.5	3.4	6	5.65
M6	× 0.5	**TE733336**	13	80	30	4.5	3.4	6	5.75
M7	× 0.75	**TE733356**	14	80	30	5.5	4.3	7	6.65
M8	× 1	**TE733376**	17	90	36	6	4.9	8	7.5
M8	× 0.75	**TE733386**	14	80	30	6	4.9	8	7.65
M10	× 1.25	**TE733436**	22	100	40	7	5.5	8	9.4
M10	× 1	**TE733446**	18	90	36	7	5.5	8	9.5
M10	× 0.75	**TE733456**	18	90	36	7	5.5	8	9.65
M12	× 1.5	**TE733516**	22	100	40	9	7	10	11.25
M12	× 1.25	**TE733526**	22	100	40	9	7	10	11.4
M12	× 1	**TE733536**	18	100	40	9	7	10	11.5
M14	× 1.5	**TE733556**	22	100	40	11	9	12	13.25
M14	× 1.25	**TE733566**	22	100	40	11	9	12	13.4
M16	× 1.5	**TE733616**	22	100	40	12	9	12	15.25
M18	× 1.5	**TE733676**	25	110	44	14	11	14	17.25
M20	× 1.5	**TE733726**	25	125	50	16	12	15	19.25

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TD704 SERIES

UNC Unified coarse threads

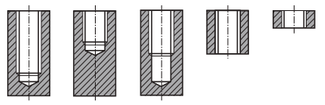
Unified Grobgewinde
UNC
Unificato passo grosso

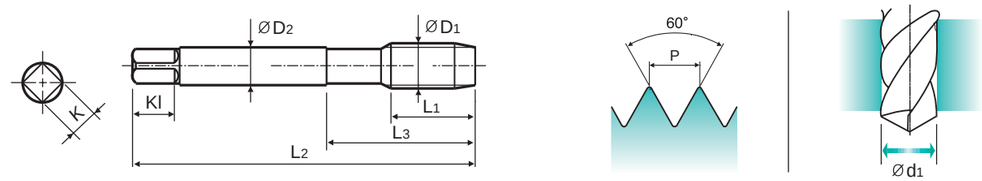
- Suitable for threading soft materials with at least 8-10% elongation.
- The pre-drilling holes are bigger than normal sized holes.

- Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
- Die Kernlochbohrungen sind größer als normale Kernlöcher.

DIN 371
DIN 376

Hole type
3.0×D





Material groups GV | HSS-E | DIN 371/376 | 2BX | 60° | C | TiN

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE ØD1	TPI	EDP No. TiN	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	Tapping Drill Diameter Ød1
#5	– 40 UNC	**TD704202**	11	56	18	3.5	2.7	6	2.87
#6	– 32 UNC	**TD704242**	12	56	20	4	3	6	3.1
#8	– 32 UNC	**TD704282**	13	63	21	4.5	3.4	6	3.8
#10	– 24 UNC	**TD704322**	15	70	25	6	4.9	8	4.3
#12	– 24 UNC	**TD704362**	16	80	30	6	4.9	8	4.95
1/4	– 20 UNC	**TD704402**	17	80	30	7	5.5	8	5.75
5/16	– 18 UNC	**TD704442**	20	90	35	8	6.2	9	7.25
3/8	– 16 UNC	**TD704482**	22	100	39	9	7	10	8.75
7/16	– 14 UNC	**TD704522**	22	100	40	8	6.2	9	10.2
1/2	– 13 UNC	**TD704562**	25	110	44	9	7	10	11.7
9/16	– 12 UNC	**TD704602**	26	110	40	11	9	12	13.2
5/8	– 11 UNC	**TD704642**	27	110	44	12	9	12	14.7
3/4	– 10 UNC	**TD704702**	30	125	50	14	11	14	17.8

▶DIN 371(#4~3/8) and DIN 376(7/16~3/4)

◎ : Excellent ○ : Good

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

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

YG TAP FORMING

TE704 SERIES

UNC

Unified coarse threads

Unified Grobgewinde
UNC
Unificato passo grosso

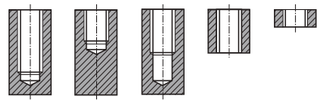
▶ Suitable for threading soft materials with at least 8-10% elongation.
▶ The pre-drilling holes are bigger than normal sized holes.

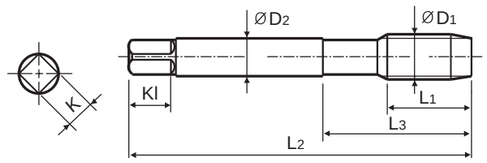
▶ Geeignet zum Gewindeformen weicher Werkstoffe mit mindestens 8-10% Dehnung.
▶ Die Kernlochbohrungen sind größer als normale Kernlöcher.

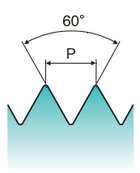
DIN 371

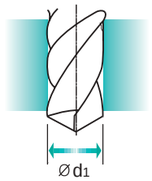
DIN 376

Hole type
3.0×D









Material groups **GV** | HSS-E | DIN 371/376 | 2BX | 60° | C | NI

Cold forming taps with oil grooves
Gewindeformer mit Schmiernuten

Recommended Cutting Page : P.285

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	Tapping Drill Diameter
ØD1		Ni	L1	L2	L3	ØD2	K	Kl	Ød1
#5	40 UNC	TE704202	11	56	18	3.5	2.7	6	2.87
#6	32 UNC	TE704242	12	56	20	4	3	6	3.1
#8	32 UNC	TE704282	13	63	21	4.5	3.4	6	3.8
#10	24 UNC	TE704322	15	70	25	6	4.9	8	4.3
#12	24 UNC	TE704362	16	80	30	6	4.9	8	4.95
1/4	20 UNC	TE704402	17	80	30	7	5.5	8	5.75
5/16	18 UNC	TE704442	20	90	35	8	6.2	9	7.25
3/8	16 UNC	TE704482	22	100	39	9	7	10	8.75
7/16	14 UNC	TE704522	22	100	40	8	6.2	9	10.2
1/2	13 UNC	TE704562	25	110	44	9	7	10	11.7
9/16	12 UNC	TE704602	26	110	40	11	9	12	13.2
5/8	11 UNC	TE704642	27	110	44	12	9	12	14.7
3/4	10 UNC	TE704702	30	125	50	14	11	14	17.8

▶DIN 371(#4~3/8) and DIN 376(7/16~3/4)

◎ : Excellent ○ : Good

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

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

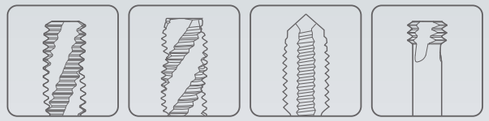
YG TAP FORMING

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	TD703 TD733 TD704	TE703 TE733 TE704	TY703	TQ703	TD713	TE713	TQ723	TE723	TD723
					Vc (m/min)								
P	1	Non-alloy steel	125		15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20
	2		190	13	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20
	3		250	25	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18	12-18
	4		270	28									
	5		300	32									
	6	Low alloy steel	180	10	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	7		275	29									
	8		300	32									
	9		350	38									
	10	High alloyed steel, and tool steel	200	15									
	11		325	35									
M	12	Stainless steel	200	15	10-13	7-10	10-13	7-10	10-13	7-10	7-10	7-10	10-13
	13		240	23	8-11	5-8	8-11	5-8	8-11	5-8	5-8	5-8	8-11
	14		180	10	6-8	4-6	6-8	4-6	6-8	4-6	4-6	4-6	6-8
K	15	Grey cast iron	180	10									
	16		260	26									
	17	Nodular cast iron	160	3									
	18		250	25									
	19	Malleable cast iron	130										
	20		230	21									
N	21	Aluminum-wrought alloy	60		10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	22		100		10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	23	Aluminum-cast, alloyed	75		15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20
	24		90		10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15	10-15
	25		130										
	26	Copper and Copper Alloys (Bronze / Brass)	110		25-35	25-35	25-35	25-35	25-35	25-35	25-35	25-35	25-35
	27		90										
	28		100		15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20	15-20
	29	Non Metallic Materials											
	30												
S	31	Heat Resistant Super Alloys	200	15									
	32		280	30									
	33		250	25									
	34		350	38									
	35		320	34									
	36	Titanium Alloys	400 Rm										
	37		1050 Rm										
H	38	Hardened steel	550	55									
	39		630	60									
	40	Chilled Cast Iron	400	42									
	41	Hardened Cast Iron	550	55									

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

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

HSS-E

NUT TAPS
MUTTERGEWINDEBOHRER

- **Nut Tapping Machines**
- **Zum Gewindeschneiden von Muttern**

SELECTION GUIDE

YG THREADING TOOLS

HSS-E NUT TAPS

Nut Tapping Machines

HOLE TYPE			Max. 2.0xD Through Hole
TOOL MATERIAL			HSS-E
CHAMFER LEAD ACC. TO DIN2197			Long
FLUTE TYPE			Straight Flute
SPIRAL FLUTE ANGLE			-
SERIES	M	DIN371/376	
		DIN352	
		DIN357/LONG	TC803 (P.289)
	MF	DIN374	
		DIN2181	
	UNC	DIN371/376	
		DIN351	
	UNF	DIN371/374	
		DIN2181	
	BSW	DIN2182/2183	
		DIN351	
	G(BSP)	DIN5156/5157	
	EG-M	DIN371/376	
	EG-UNC	DIN371/376	
	EG-UNF	DIN371/374	
SURFACE TREATMENT			Bright
MODEL			

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.288

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

YG NUT TAPS

TC803 SERIES

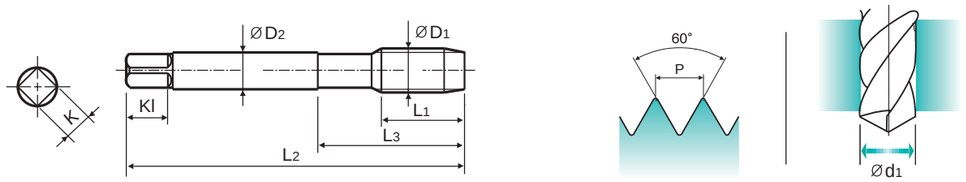
M ISO metric coarse threads DIN 13

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

- For making nuts on machines.
- The work pieces can be taken out from shank side only.
- Zur Herstellung von Muttern auf Sondermaschinen.
- Die fertigen Muttern können nur über das Schaftende entnommen werden.

DIN 357

Hole type 2.0×D



Material groups GS | HSS-E | DIN 357 | 6H | 60° | LONG | Bright

Nut taps
Muttergewindebohrer

Recommended Cutting Page : P.288

Unit : mm

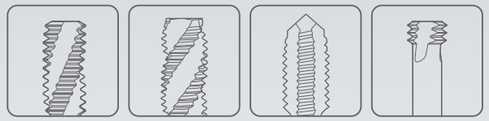
SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M4	× 0.7	TC803246	25	90	45	2.8	2.1	5	3	3.3
M5	× 0.8	TC803286	28	100	50	3.5	2.7	6	3	4.2
M6	× 1	TC803316	32	110	55	4.5	3.4	6	3	5
M7	× 1	TC803346	36	110	55	5.5	4.3	7	3	6
M8	× 1.25	TC803366	40	125	62	6	4.9	8	3	6.8
M10	× 1.5	TC803426	45	140	70	7	5.5	8	3	8.5
M12	× 1.75	TC803506	50	180	90	9	7	10	3	10.2
M14	× 2	TC803546	56	200	100	11	9	12	4	12
M16	× 2	TC803606	63	200	100	12	9	12	4	14
M18	× 2.5	TC803656	63	220	110	14	11	14	4	15.5
M20	× 2.5	TC803706	70	250	125	16	12	15	4	17.5

◎ : Excellent ○ : Good

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

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

Global Cutting Tool Leader **YG-1**



THREADING

Leading Through Innovation

HSS-E

SCREW THREAD INSERT TAPS

SCHRAUBENGEWINDE INSERT TAPS

- **Tapping STI Threads of Soft Materials**
- **Gewindeschneiden von STI-Gewinden in weichen Materialien**

SELECTION GUIDE

YG THREADING TOOLS

HSS-E SCREW THREAD INSERT TAPS

Tapping STI Threads of Soft Materials

HOLE TYPE				Max. 2.5xD Blind Hole	Max. 3.0xD Through Hole
TOOL MATERIAL				HSS-E	
CHAMFER LEAD ACC. TO DIN2197				C	B
FLUTE TYPE				Spiral Flute	Spiral Point
SPIRAL FLUTE ANGLE				R40	-
SERIES	M	DIN371/376			
		DIN352			
		DIN357/LONG			
	MF	DIN374			
		DIN2181			
	UNC	DIN371/376			
		DIN351			
	UNF	DIN371/374			
		DIN2181			
	BSW	DIN2182/2183			
		DIN351			
	G(BSP)	DIN5156/5157			
	EG-M	DIN371/376		TC909 (P.293)	TC973 (P.294)
	EG-UNC	DIN371/376		TC944 (P.295)	TC934 (P.296)
	EG-UNF	DIN371/374			TC954 (P.297)
SURFACE TREATMENT				Bright	Bright
MODEL					

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.298

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

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

SCREW THREAD INSERT TAPS

TC909 SERIES

EG-M ISO metric coarse threads for Screw Thread insert

Metrisches ISO Regelgew.f.Gew. Drahteins
ISO MÉTRIQUE DIN13 POUR FILETS RAPPORTÉS
ISO Metrico passo grosso per Helicoil

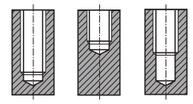
▶ Wire insert threads are used for increasing fastening strength in soft materials.

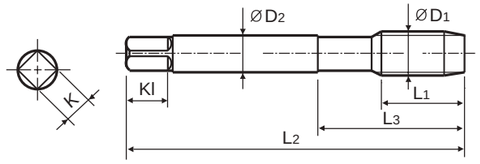
▶ Gewinde mit Drahteinsätzen werden verwendet um größere Drehmomente in weichen Werkstoffen zu erreichen.

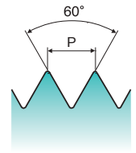
DIN 371

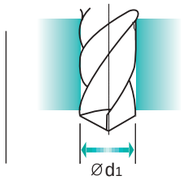
DIN 376

Hole type
2.5×D









Material groups: AI | HSS-E | DIN 371/376 | 6H Mod. | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.298

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2.5	× 0.45	TC909176	6	56	18	3.5	2.7	6	3	2.65
M3	× 0.5	TC909206	5	63	21	4.5	3.4	6	3	3.15
M3.5	× 0.6	TC909226	8	70	25	6	4.9	8	3	3.7
M4	× 0.7	TC909246	8	70	25	6	4.9	8	3	4.2
M5	× 0.8	TC909286	8	80	30	6	4.9	8	3	5.25
M6	× 1	TC909316	10	90	35	8	6.2	9	3	6.3
M8	× 1.25	TC909366	16	100	39	10	8	11	3	8.4
M10	× 1.5	TC909426	15	110	44	9	7	10	3	10.4
M12	× 1.75	TC909506	20	110	44	11	9	12	3	12.5
M14	× 2	TC909546	22	110	44	12	9	12	3	14.5
M16	× 2	TC909606	25	125	50	14	11	14	4	16.5
M18	× 2.5	TC909656	27	140	54	18	14.5	17	4	18.75
M20	× 2.5	TC909706	30	160	60	18	14.5	17	4	20.75

▶DIN 371(M2.5~M8) and DIN 376(M10~M20)

◎ : Excellent ○ : Good

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

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

SCREW THREAD INSERT TAPS

TC973 SERIES

EG-M

ISO metric coarse threads for Screw Thread insert

Metrisches ISO Regelgew.f.Gew. Drahteins
ISO MÉTRIQUE DIN13 POUR FILETS RAPPORTÉS
ISO Metrico passo grosso per Helicoil

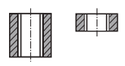
▶ Wire insert threads are used for increasing fastening strength in soft materials.

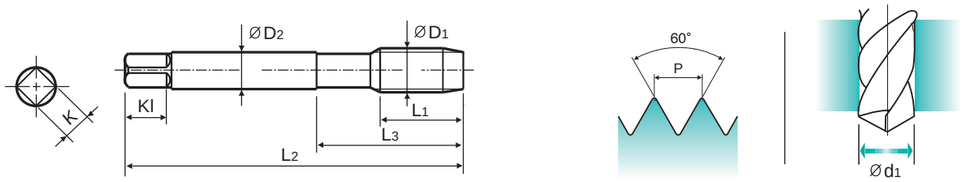
▶ Gewinde mit Drahteinsätzen werden verwendet um größere Drehmomente in weichen Werkstoffen zu erreichen.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **Al** | HSS-E | DIN 371/376 | 6H Mod. | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.298

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
M2.5	× 0.45	**TC973176**	11	56	18	3.5	2.7	6	3	2.65
M3	× 0.5	**TC973206**	10	63	21	4.5	3.4	6	3	3.15
M3.5	× 0.6	**TC973226**	14	70	25	6	4.9	8	3	3.7
M4	× 0.7	**TC973246**	13	70	25	6	4.9	8	3	4.2
M5	× 0.8	**TC973286**	13	80	30	6	4.9	8	3	5.25
M6	× 1	**TC973316**	17	90	35	8	6.2	9	3	6.3
M8	× 1.25	**TC973366**	18	100	39	10	8	11	3	8.4
M10	× 1.5	**TC973426**	22	110	44	9	7	10	3	10.4
M12	× 1.75	**TC973506**	26	110	44	11	9	12	3	12.5
M14	× 2	**TC973546**	27	110	44	12	9	12	3	14.5
M16	× 2	**TC973606**	30	125	50	14	11	14	4	16.5
M18	× 2.5	**TC973656**	32	140	54	18	14.5	17	4	18.75
M20	× 2.5	**TC973706**	34	160	60	18	14.5	17	4	20.75

▶DIN 371(M2.5~M8) and DIN 376(M10~M20)

◎ : Excellent ○ : Good

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

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

SCREW THREAD INSERT TAPS

TC944 SERIES

EG-UNC

Unified coarse threads for Screw Thread insert

Unified Regelgew.f.Gew.Drahteins
UNC POUR FILETS RAPPORTÉS
ISO Metrico passo grosso per Helicoil

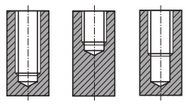
▶ Wire insert threads are used for increasing fastening strength in soft materials.

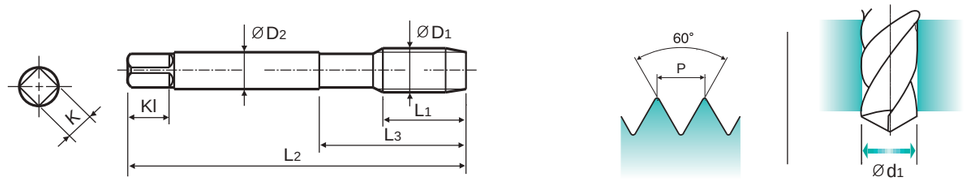
▶ Gewinde mit Drahteinsätzen werden verwendet um größere Drehmomente in weichen Werkstoffen zu erreichen.

DIN 371

DIN 376

Hole type
2.5×D





Material groups **Al** | HSS-E | DIN 371/376 | 2B | 60° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.298

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
#4	- 40 UNC	**TC944162**	7	63	21	4.5	3.4	6	3	3.1
#5	- 40 UNC	**TC944202**	7	63	21	4.5	3.4	6	3	3.4
#6	- 32 UNC	**TC944242**	8	70	25	6	4.9	8	3	3.8
#8	- 32 UNC	**TC944282**	8	80	25	6	4.9	8	3	4.4
#10	- 24 UNC	**TC944322**	10	80	30	7	5.5	8	3	5.2
#12	- 24 UNC	**TC944362**	10	80	30	7	5.5	8	3	5.8
1/4	- 20 UNC	**TC944402**	14	90	35	8	6.2	9	3	6.7
5/16	- 18 UNC	**TC944442**	16	100	39	10	8	11	3	8.4
3/8	- 16 UNC	**TC944482**	16	110	39	12	9	12	3	10
7/16	- 14 UNC	**TC944522**	20	110	44	11	9	12	3	11.6
1/2	- 13 UNC	**TC944562**	22	110	44	12	9	12	3	13.3
9/16	- 12 UNC	**TC944602**	22	125	50	14	11	14	3	15
5/8	- 11 UNC	**TC944642**	25	125	50	14	11	14	4	16.5
3/4	- 10 UNC	**TC944702**	27	140	56	18	14.5	17	4	19.75

▶DIN 371(#4~3/8) and DIN 376(7/16~3/4)

◎ : Excellent ○ : Good

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

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

SCREW THREAD INSERT TAPS

TC934 SERIES

EG-UNC

Unified coarse threads for Screw Thread insert

- Unified Regelgew.f.Gew.Drahteins
- UNC POUR FILETS RAPPORTÉS
- ISO Metrico passo grosso per Helicoil

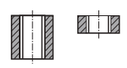
▶ Wire insert threads are used for increasing fastening strength in soft materials.

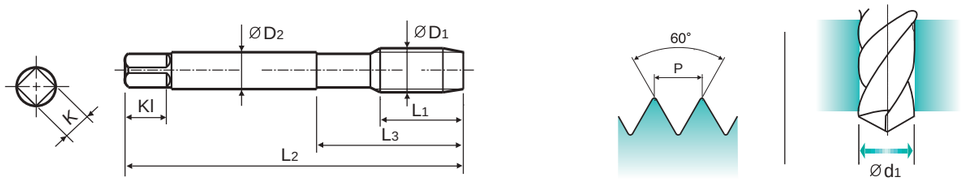
▶ Gewinde mit Drahteinsätzen werden verwendet um größere Drehmomente in weichen Werkstoffen zu erreichen.

DIN 371

DIN 376

Hole type
3.0×D





Material groups **Al** | HSS-E | DIN 371/376 | 2B | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.298

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	40 UNC	**TC934162**	13	63	21	4.5	3.4	6	3	3.1
#5	40 UNC	**TC934202**	13	63	21	4.5	3.4	6	3	3.4
#6	32 UNC	**TC934242**	14	70	25	6	4.9	8	3	3.8
#8	32 UNC	**TC934282**	13	80	25	6	4.9	8	3	4.4
#10	24 UNC	**TC934322**	17	80	30	7	5.5	8	3	5.2
#12	24 UNC	**TC934362**	17	80	30	7	5.5	8	3	5.8
1/4	20 UNC	**TC934402**	20	90	35	8	6.2	9	3	6.7
5/16	18 UNC	**TC934442**	22	100	39	10	8	11	3	8.4
3/8	16 UNC	**TC934482**	21	110	39	12	9	12	3	10
7/16	14 UNC	**TC934522**	26	110	44	11	9	12	3	11.6
1/2	13 UNC	**TC934562**	27	110	44	12	9	12	3	13.3
9/16	12 UNC	**TC934602**	30	125	50	14	11	14	3	15
5/8	11 UNC	**TC934642**	30	125	50	14	11	14	4	16.5
3/4	10 UNC	**TC934702**	32	140	54	18	14.5	17	4	19.75

▶DIN 371(#4~3/8) and DIN 376(7/16~3/4)

◎ : Excellent ○ : Good

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

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

SCREW THREAD INSERT TAPS

TC954 SERIES

EG-UNF

Unified fine threads for Screw Thread insert

- Unified Feingew.f.Gew.Drahteins
- UNC POUR FILETS RAPPORTÉS
- ISO Metrico passo grosso per Helicoil

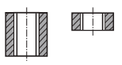
▶ Wire insert threads are used for increasing fastening strength in soft materials.

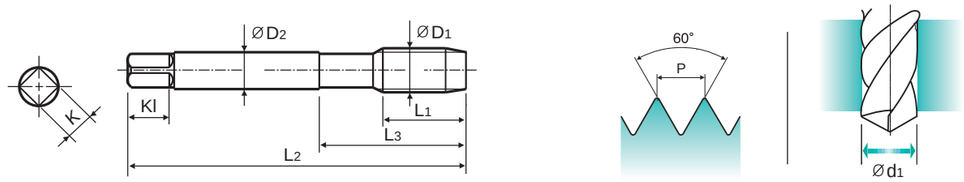
▶ Gewinde mit Drahteinsätzen werden verwendet um größere Drehmomente in weichen Werkstoffen zu erreichen.

DIN 371

DIN 374

Hole type
3.0×D





Material groups **Al** | HSS-E | DIN 371/374 | 2B | 60° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.298

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
#4	48 UNF	**TC954182**	12	56	20	4	3	6	3	3.1
#6	40 UNF	**TC954262**	14	70	25	6	4.9	8	3	3.7
#8	36 UNF	**TC954302**	13	70	25	6	4.9	8	3	4.4
#10	32 UNF	**TC954342**	13	80	25	6	4.9	8	3	5.1
1/4	28 UNF	**TC954422**	17	90	35	8	6.2	9	3	6.6
5/16	24 UNF	**TC954462**	18	100	39	10	8	11	3	8.25
3/8	24 UNF	**TC954502**	18	110	39	12	9	12	3	9.8
7/16	20 UNF	**TC954542**	22	100	40	9	7	10	3	11.5
1/2	20 UNF	**TC954582**	22	100	40	11	9	12	3	13.1
9/16	18 UNF	**TC954622**	22	100	40	12	9	12	3	14.75
5/8	18 UNF	**TC954662**	25	110	44	14	11	14	4	16.25
3/4	16 UNF	**TC954722**	25	125	50	16	12	15	4	19.5

▶DIN 371(#4~3/8) and DIN 374(7/16~3/4)

◎ : Excellent ○ : Good

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

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

SCREW THREAD INSERT TAPS

RECOMMENDED CUTTING CONDITIONS
EMPFOHLENE SCHNEIDKONDITIONEN

					TC909 TC944	TC973 TC934 TC954
ISO	VDI 3323	Material Description	HB	HRc	Vc (m/min)	
P	1	Non-alloy steel	125		15-20	15-20
	2		190	13	15-20	15-20
	3		250	25	12-18	12-18
	4		270	28		
	5		300	32		
	6	Low alloy steel	180	10		
	7		275	29		
	8		300	32		
	9		350	38		
	10	High alloyed steel, and tool steel	200	15		
	11		325	35		
M	12	Stainless steel	200	15		
	13		240	23		
	14		180	10		
K	15	Grey cast iron	180	10		
	16		260	26		
	17	Nodular cast iron	160	3		
	18		250	25		
	19	Malleable cast iron	130			
	20		230	21		
N	21	Aluminum-wrought alloy	60		10-15	10-15
	22		100		10-15	10-15
	23	Aluminum-cast, alloyed	75		15-20	15-20
	24		90		15-20	15-20
	25		130			
	26	Copper and Copper Alloys (Bronze / Brass)	110			
	27		90		8-12	8-12
	28		100			
	29	Non Metallic Materials				
	30					
S	31	Heat Resistant Super Alloys	200	15		
	32		280	30		
	33		250	25		
	34		350	38		
	35		320	34		
	36	Titanium Alloys	400 Rm			
	37		1050 Rm			
H	38	Hardened steel	550	55		
	39		630	60		
	40	Chilled Cast Iron	400	42		
	41	Hardened Cast Iron	550	55		

Leading Through Innovation

HSS & HSS-E

PIPE TAPS
GASGEWINDEBOHRER

- Tapping Whitworth Pipe threads
- Zum Gewindeschneiden von Whitworth-Rohrgewinden

SELECTION GUIDE

YG THREADING TOOLS

HSS & HSS-E PIPE TAPS

Tapping Whitworth Pipe threads

HOLE TYPE			Max. 2.0xD Blind/Through Hole	Max. 2.5xD Blind Hole		Max. 3.0xD Through Hole
TOOL MATERIAL			HSS	HSS-E		
CHAMFER LEAD ACC. TO DIN2197			I/III	C		B
FLUTE TYPE			Straight Flute	Spiral Flute		Spiral Point
SPIRAL FLUTE ANGLE			-	R40	R40	R40	-
SERIES	M	DIN371/376					
		DIN352					
		DIN357/LONG					
	MF	DIN374					
		DIN2181					
	UNC	DIN371/376					
		DIN351					
	UNF	DIN371/374					
		DIN2181					
	BSW	DIN2182/2183					
		DIN351					
	G(BSP)	DIN5156/5157	T7709 (P.301)	TC728 (P.302)	TC729 (P.303)	TB514 (P.304)	TC727 (P.305)
	EG-M	DIN371/376					
	EG-UNC	DIN371/376					
	EG-UNF	DIN371/374					
SURFACE TREATMENT			Bright	Bright	Bright	VAP	Bright
MODEL							

Please visit globalyg1.com/mat for material search

◎ : Excellent ○ : Good

Recommended cutting conditions : P.306

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

PIPE TAPS

T7709 SERIES

G(BSP) Whitworth Pipe threads DIN ISO 228/1

- Whitworth Rohrgewinde DIN ISO 228/1
- G(BSP) PROFIL 55° DIN ISO 228/1
- Filettatura Whitworth per tubi DIN ISO 228/1

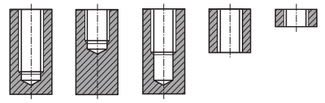
▶ Serial hand tap set in First and Bottoming.
▶ Bottoming tap of set has final internal thread dimensions only.

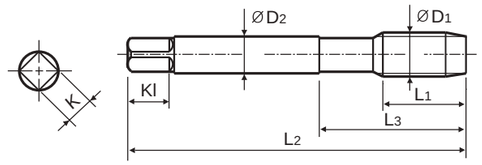
▶ Handgewindebohrersatz mit Vor- und Fertigschneider.
▶ Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

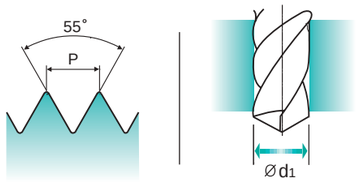
First

Bottoming

Hole type
2.0×D







Material groups **GS** | HSS | DIN 5157 | 55° | I / III | Bright

Sets of taps
Gewindebohrer-Satz

Unit : mm

SIZE ØD1	TPI	EDP No. Bright	Thread Length L1	Overall Length L2	Neck Length L3	Shank Diameter ØD2	Square Size K	Square Length Kl	No. of Flute Z	Tapping Drill Diameter Ød1
G1/16	- 28	T7709029	22	56	26	6	4.9	8	3	6.8
G1/8	- 28	T7709209	20	63	27	7	5.5	8	4	8.8
G1/4	- 19	T7709409	22	70	32	11	9	12	4	11.8
G3/8	- 19	T7709489	22	70	32	12	9	12	4	15.25
G1/2	- 14	T7709569	22	80	35	16	12	15	4	19
G3/4	- 14	T7709709	22	90	40	20	16	19	4	24.5
G1	- 11	T7709789	25	100	45	25	20	23	6	30.75
G1-1/4	- 11	T7709869	40	125	77	32	24	27	6	39.5
G1-1/2	- 11	T7709949	40	140	85	36	29	32	6	45.2

◎ : Excellent ○ : Good

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

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

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

PIPE TAPS

TC728 SERIES

G(BSP) Whitworth pipe threads DIN ISO 228/1

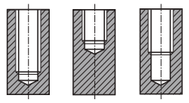
- Whitworth Rohrgewinde DIN ISO 228/1
- G(BSP) PROFIL 55° DIN ISO 228/1
- Filettatura Whitworth per tubi DIN ISO 228/1

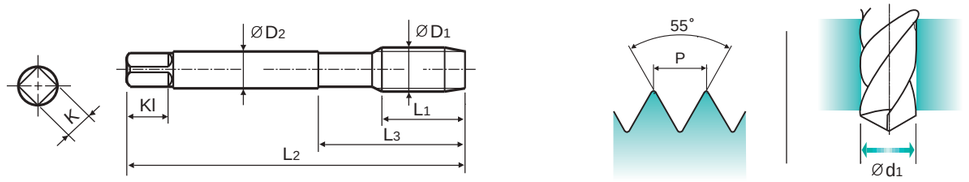
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

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

DIN 5156

Hole type 2.5×D





Material groups **GS** | HSS-E | DIN 5156 | 55° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.306

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
G1/8 - 28		**TC728200**	20	90	36	7	5.5	8	3	8.8
G1/4 - 19		**TC728400**	22	100	40	11	9	12	3	11.8
G3/8 - 19		**TC728480**	22	100	40	12	9	12	3	15.25
G1/2 - 14		**TC728560**	25	125	50	16	12	15	4	19
G3/4 - 14		**TC728700**	28	140	54	20	16	19	4	24.5
G1 - 11		**TC728780**	30	160	60	25	20	23	4	30.75

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended		◎	◎	◎		◎	◎										◎	◎		

ISO	N										S							H		
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended	○	○	○	○	◎	◎	○														

PIPE TAPS

TC729 SERIES

G(BSP) Whitworth pipe threads DIN ISO 228/1

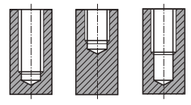
- Whitworth Rohrgewinde DIN ISO 228/1
- G(BSP) PROFIL 55° DIN ISO 228/1
- Filettatura Whitworth per tubi DIN ISO 228/1

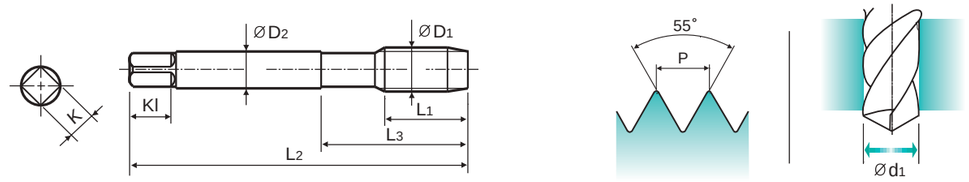
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 5156

Hole type 2.5×D





Material groups **VG** | HSS-E | DIN 5156 | 55° | C | Bright | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.306

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
G1/8 - 28		**TC729200**	20	90	36	7	5.5	8	3	8.8
G1/4 - 19		**TC729400**	22	100	40	11	9	12	3	11.8
G3/8 - 19		**TC729480**	22	100	40	12	9	12	3	15.25
G1/2 - 14		**TC729560**	25	125	50	16	12	15	4	19
G3/4 - 14		**TC729700**	28	140	54	20	16	19	4	24.5
G1 - 11		**TC729780**	30	160	60	25	20	23	4	30.75

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended						○	○	◎	◎					○						

ISO	N										S							H		
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended																					

PIPE TAPS

TB514 SERIES

G(BSP) Whitworth pipe threads DIN ISO 228/1

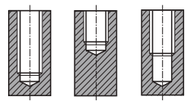
- Whitworth Rohrgewinde DIN ISO 228/1
- G(BSP) PROFIL 55° DIN ISO 228/1
- Filettatura Whitworth per tubi DIN ISO 228/1

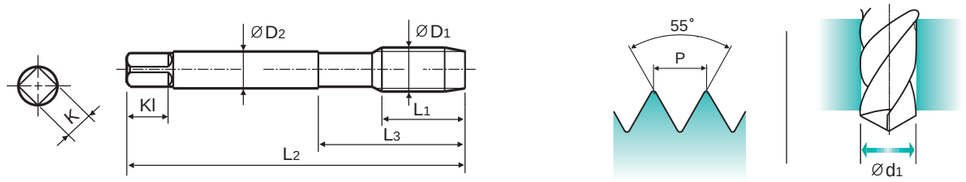
▶ Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.

▶ Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.

DIN 5156

Hole type
2.5×D





Material groups **VA NW** | HSS-E | DIN 5156 | 55° | C | Vap | R40

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.306

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Vap	L1	L2	L3	ØD2	K	Kl	Z	Ød1
G1/8 -	28	**TB514200**	20	90	36	7	5.5	8	3	8.8
G1/4 -	19	**TB514400**	22	100	40	11	9	12	3	11.8
G3/8 -	19	**TB514480**	22	100	40	12	9	12	3	15.25
G1/2 -	14	**TB514560**	25	125	50	16	12	15	4	19
G3/4 -	14	**TB514700**	28	140	54	20	16	19	4	24.5
G1 -	11	**TB514780**	30	160	60	25	20	23	4	30.75

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎										◎	◎	◎						

ISO	N										S							H		
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended																					

PIPE TAPS

TC727 SERIES

G(BSP) Whitworth Pipe threads DIN ISO 228/1

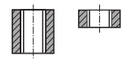
- Whitworth Rohrgewinde DIN ISO 228/1
- G(BSP) PROFIL 55° DIN ISO 228/1
- Filettatura Whitworth per tubi DIN ISO 228/1

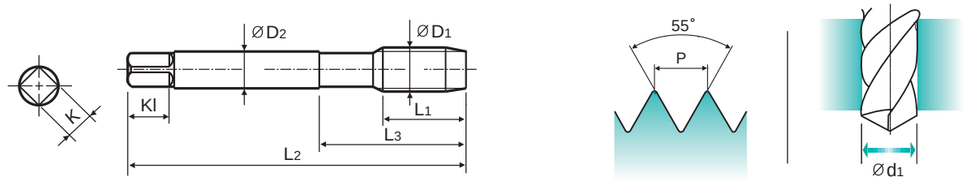
▶ Suitable for through hole in more cutting speed than other taps due to strong geometry.

▶ Geeignet für Sacklöcher in höherer Schnittgeschwindigkeit als andere Gewindebohrer dank einer stabilen Bohrergeometrie.

DIN 5156

Hole type
3.0×D





Material groups **GS** | HSS-E | DIN 5156 | 55° | B | Bright

Machine taps
Maschinengewindebohrer

Recommended Cutting Page : P.306

Unit : mm

SIZE	TPI	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1		Bright	L1	L2	L3	ØD2	K	Kl	Z	Ød1
G1/8 -	28	**TC727200**	20	90	36	7	5.5	8	3	8.8
G1/4 -	19	**TC727400**	22	100	40	11	9	12	3	11.8
G3/8 -	19	**TC727480**	22	100	40	12	9	12	3	15.25
G1/2 -	14	**TC727560**	25	125	50	16	12	15	4	19
G3/4 -	14	**TC727700**	28	140	54	20	16	19	4	24.5
G1 -	11	**TC727780**	30	160	60	25	20	23	4	30.75

◎ : Excellent ○ : Good

ISO	P											M			K					
Material Description	Non-alloy steel					Low alloy steel				High alloyed steel, and tool steel		Stainless steel			Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38	15	35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended		◎	◎	◎		◎	◎										◎	◎		

ISO	N										S							H		
Material Description	Aluminum-wrought alloy		Aluminum-cast, alloyed			Copper and Copper Alloys (Bronze / Brass)			Non Metallic Materials		Heat Resistant Super Alloys					Titanium Alloys		Hardened steel	Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
HRc											15	30	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended	○	○	○	○	◎	◎	○														

CARBIDE
HSS
THREAD MILLS
SYNCHRO TAPS
COMBO TAPS
YG TAP GENERAL
YG TAP STEEL
YG TAP HARDENED
YG TAP INOX
YG TAP CAST IRON
YG TAP ALU
YG TAP Ti Ni
YG TAP FORMING
NUT TAPS
STI TAPS
PIPE TAPS
TECHNICAL DATA