



Leading Through Innovation

HSS-E & HSS-PM

YG TAP INOX

YG Gewindebohrer INOX

- For Stainless Steels with Lamellar, Irregular Chip Formation where the Cutting Forces are Higher
- Für nichtrostende Stähle mit lamellarer, unregelmäßiger Spänebildung, bei denen die Schnittkräfte größer sind.

CARBIDE

HSS

THREAD MILL

SYNCHRO TAP

PRIME TAP

COMBO TAP

YG TAP STEEL

YG TAP CHIP BREAKER

YG TAP INOX

YG TAP CAST IRON

YG TAP HARDENED STEEL

YG TAP Ti Ni

YG TAP ALU

YG TAP FORMING

YG TAP GENERAL

PIPE TAP

STI TAP

NUT TAP

SELECTION GUIDE



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.B193

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	○	◎	◎	◎
	15	Grey cast iron	Pearlitic / ferritic		180	10				
K	16		Pearlitic (Martensitic)		260	26				
	17		Ferritic		160	3				
	18		Pearlitic		250	25				
	19		Ferritic		130					
	20	Malleable cast iron	Pearlitic		230	21				
N	21	Aluminum-wrought alloy	Not Curable		60		○			
	22		Curable	Hardened	100					
	23	Aluminum-cast, alloyed	≤ 12% Si, Not Curable		75					
	24		≤ 12% Si, Curable	Hardened	90					
	25		> 12% Si, Not Curable		130					
	26	Copper and Copper Alloys	Cutting Alloys, PB>1%		110					
	27		CuZn, CuSnZn (Brass)		90					
	28	(Bronze / Brass)	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-PM		HSS-E		
C	C	C	C	C	C	B	B	B	B	
Spiral Flute	Spiral Flute	Spiral Flute	Spiral Flute	Spiral Flute	Spiral Flute	Spiral Point	Spiral Point	Spiral Point	Spiral Point	
R40	R40	R40	R40	R40	R40	-	-	-	-	
Ti914 (p.B177)	TBE15 (p.B178)	TBE16 (p.B179)	TBE17 (p.B180)	TBE18 (p.B181)	TCH14 (p.B182)	TQ853 (p.B183)	TR853 (p.B184)	TB623 (p.B185)	TCH23 (p.B186)	M
								TB123 (p.B190)		MF
								TB264 (p.B191)		UNC
								TB274 (p.B192)		UNF
										BSW
										G(BSP)
										EG-M
										EG-UNC
										EG-UNF
TiCN	VAP	VAP	VAP	VAP	HardSlick	VAP	Bright	VAP	HardSlick	
◎	◎	◎	◎	◎	◎	○	○	◎	◎	1
◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	2
○	○	○	○	○	○	○	○	○	○	3
○	○	○	○	○	○	○	○	○	○	4
										5
○	○	○	○	○	○	○	○	○	○	6
										7
										8
										9
										10
										11
◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	12
◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	13
◎	◎	◎	◎	◎	◎	◎	◎	◎	◎	14
										15
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										26
										27
										28
										29
										30
○	○	○	○	○	○	○	○	○	○	31
										32
										33
										34
										35
○	○	○	○	○	○	○	○	○	○	36
										37
										38
										39
										40
										41

M

ISO metric coarse threads DIN 13

Metrisches ISO-Gewinde DIN 13

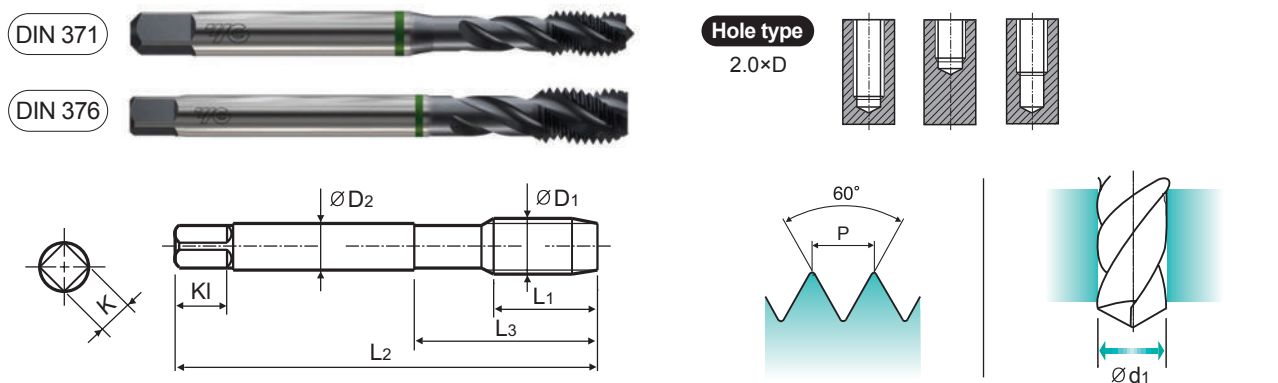
ISO MÉTRIQUE DIN13

ISO Metrico passo grosso DIN 13

Machine taps
Maschinengewindebohrer

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

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



Material groups

NW

HSS-E

DIN 371/376

6H

60°

C

R40

Vap



p.B193

Unit : mm										
SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2	× 0.4	TB711136	8	45	13	2.8	2.1	5	3	1.6
M2.5	× 0.45	TB711176	9	50	15	2.8	2.1	5	3	2.05
M3	× 0.5	TB711206	6	56	18	3.5	2.7	6	3	2.5
M4	× 0.7	TB711246	7	63	21	4.5	3.4	6	3	3.3
M5	× 0.8	TB711286	8	70	25	6	4.9	8	3	4.2
M6	× 1.0	TB711316	10	80	30	6	4.9	8	3	5
M8	× 1.25	TB711366	13	90	35	8	6.2	9	3	6.8
M10	× 1.5	TB711426	15	100	39	10	8	11	3	8.5
M12	× 1.75	TB711506	18	110	44	9	7	10	3	10.2
M14	× 2.0	TB711546	20	110	44	11	9	12	3	12
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
M24	× 3.0	TB711786	30	160	60	18	14.5	17	4	21
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									
Material Description	Non-alloy steel					Low alloy steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10
HRc	13	25	28	32	30	10	29	32	38	15
HB	125	190	250	270	300	180	275	300	350	200
Recommended	◎	◎								○
ISO	M									
Material Description	Stainless steel					Grey cast iron				
VDI 3323	12	13	14	15	16	17	18	19	20	21
HRc	15	23	10	15	23	10	15	23	10	15
HB	125	190	250	270	300	180	275	300	350	200
Recommended	○	○	○							○
ISO	K									
Material Description	Nodular cast iron					Malleable cast iron				
VDI 3323	17	18	19	20	21	22	23	24	25	26
HRc	15	23	10	15	23	10	15	23	10	15
HB	125	190	250	270	300	180	275	300	350	200
Recommended	○	○	○							○

◎ : Excellent ○ : Good										
ISO	N									
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed				
VDI 3323	21	22	23	24	25	26	27	28	29	30
HRc	21	22	23	24	25	26	27	28	29	30
HB	60	100	75	90	130	110	90	100		
Recommended	○								○	
ISO	S									
Material Description	Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	31	32	33	34	35	36	37	38	39	40
HRc	15	30	25	38	34	55	60	42	55	55
HB	200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended										

M

ISO metric coarse threads DIN 13

Metrisches ISO-Gewinde DIN 13

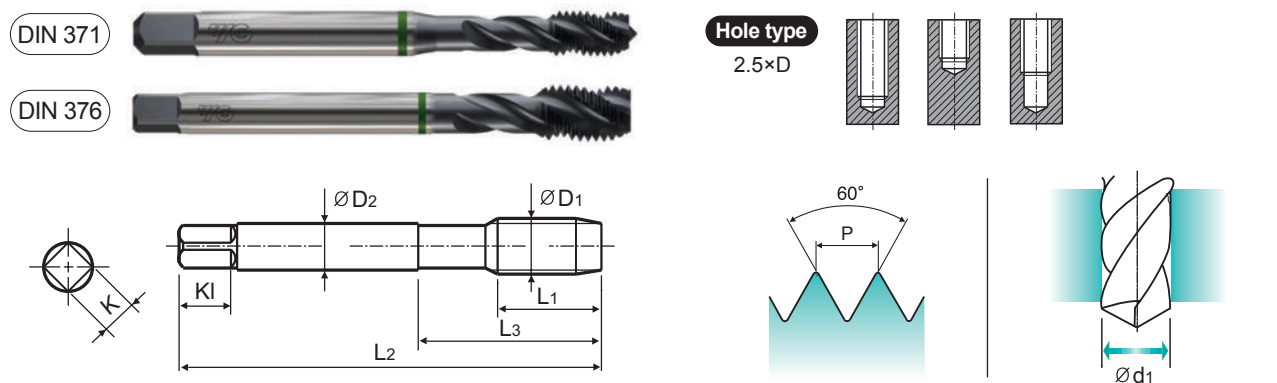
ISO MÉTRIQUE DIN13

ISO Metrico passo grosso DIN 13

Machine taps
Maschinengewindebohrer

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

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



Material groups

VA

HSS PM

DIN 371/376

6H

60°

C

R40

Vap



p.B193

Unit : mm										
SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2	× 0.4	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	× 1.0	TQ813316	10	80	30	6	4.9	8	3	5
M7	× 1.0	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									
Material Description	Non-alloy steel					Low alloy steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10
HRc	13	25	28	32	30	10	29	32	38	15
HB	125	190	250	270	300	180	275	300	350	200
Recommended	○	◎	○	○		○				◎
ISO	M									
Material Description	Stainless steel					Grey cast iron				
VDI 3323	12	13	14	15	16	17	18	19	20	21
HRc	15	23	10	15	23	10	15	23	10	15
HB	125	190	250	270	300	180	275	300	350	200
Recommended	○	◎	○	○						○
ISO	K									
Material Description	Nodular cast iron					Malleable cast iron				
VDI 3323	17	18	19	20	21	22	23	24	25	26
HRc	15	23	10	15	23	10	15	23	10	15
HB	125	190	250	270	300	180	275	300	350	200
Recommended	○	○	○							○
ISO	N									
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed				
VDI 3323	21	22	23	24	25	26	27	28	29	30
HRc	21	22	23	24	25	26	27	28	29	30
HB	60	100	75	90	130	110	90	100		
Recommended	○									
ISO	S									
Material Description	Heat Resistant Super Alloys					Titanium Alloys				
VDI 3323	31	32	33	34	35	36	37	38	39	40
HRc	15	30	25	38	34	55	60	42	55	55
HB	200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended										

CARBIDE

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YG

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

Machine taps
Maschinengewindebohrer

With recessed threads for machine tapping of deep blind holes.

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

Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.

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

DIN 371

DIN 376

Hole type

2.5×D

60°

P

ØD2

ØD1

KI

L1

L2

L3

60°

P

ØD2

ØD1

KI

L1

L2

L3

60°

P

ØD2

ØD1

KI

L1

L2

L3

VA

NW

HSS-E

DIN 371/376

4H

60°

C

R40

Vap

p.B193

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2	× 0.4	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	× 1.0	TBE15316	10	80	30	6	4.9	8	3	5
M7	× 1.0	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	× 2.0	TBE15546	20	110	44	11	9	12	3	12
M16	× 2.0	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	× 3.0	TBE15786	30	160	60	18	14.5	17	4	21
M27	× 3.0	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 alloy steel, and tool steel	Stainless steel				Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRc	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21		
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	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended											○					○						

B178

phone:+82-32-526-0909, www.yg1.solutions, E-mail:yg1@yg1.solutions

YG-1 CO., LTD.

CARBIDE

HSS

YG

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

Machine taps
Maschinengewindebohrer

With recessed threads for machine tapping of deep blind holes.

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

Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.

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

DIN 371

DIN 376

Hole type

2.5×D

60°

P

ØD2

ØD1

KI

L1

L2

L3

60°

P

ØD2

ØD1

KI

L1

L2

L3

60°

P

ØD2

ØD1

KI

L1

L2

L3

VA

NW

HSS-E

DIN 371/376

6H+0.1

60°

C

R40

Vap

p.B193

Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2	× 0.4	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	× 1.0	TBE16316	10	80	30	6	4.9	8	3	5.1
M7	× 1.0	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	× 2.0	TBE16546	20	110	44	11	9	12	3	12.1
M16	× 2.0	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	× 3.0	TBE16786	30	160	60	18	14.5	17	4	21.1
M27	× 3.0	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 alloy steel, and tool steel	Stainless steel				Grey cast iron		Nodular cast iron		Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
HRc	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21		
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	21	22	23	24	25	26	27	28	29	30	15	30	25	38	34	55	60	42	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550	
Recommended											○					○						

B179

phone:+82-32-526-0909, www.yg1.solutions, E-mail:yg1@yg1.solutions

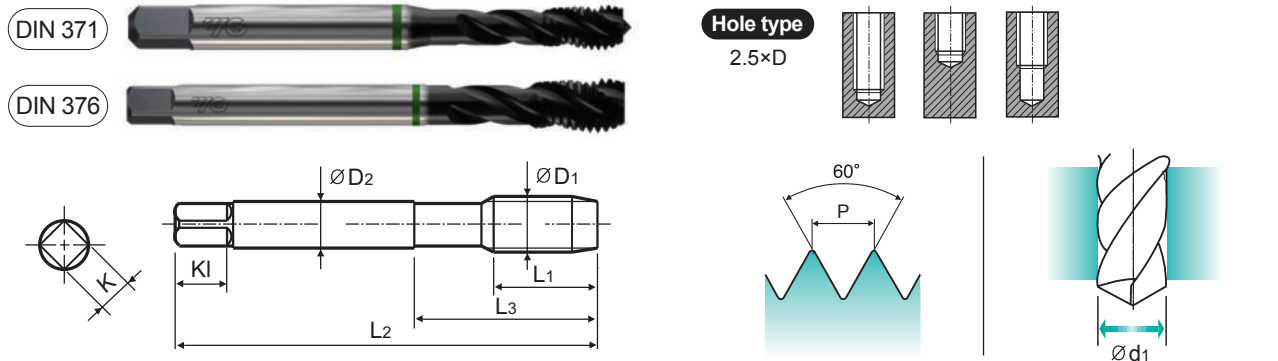
YG-1 CO., LTD.

ISO metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

- With recessed threads for machine tapping of deep blind holes.
Suitable for tapping blind holes due to special flute geometry and excellent chip evacuation.
- Mit abgesetztem Gewinde zum Schneiden von tiefen Sacklochgewinden.
Geeignet zum Gewinden von Sacklöchern dank besonderer Nutengeometrie und ausgezeichneter Spanabfuhr.



Material groups: VAW, HSS-E, DIN 371/376, 6H, 60°, C, R40, Hardslick, p.B193

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	KI	Z	Ød1
M2	× 0.4	TCH14136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TCH14156	8	45	13	2.8	2.1	5	3	1.75
*M2.3	× 0.4	TCH14196	8	45	13	2.8	2.1	5	3	1.9
M2.5	× 0.45	TCH14176	9	50	15	2.8	2.1	5	3	2.05
*M2.6	× 0.45	TCH14496	9	50	15	2.8	2.1	5	3	2.1
M3	× 0.5	TCH14206	6	56	18	3.5	2.7	6	3	2.5
M3.5	× 0.6	TCH14226	7	56	20	4	3	6	3	2.9
M4	× 0.7	TCH14246	7	63	21	4.5	3.4	6	3	3.3
M4.5	× 0.75	TCH14266	8	70	25	6	4.9	8	3	3.7
M5	× 0.8	TCH14286	8	70	25	6	4.9	8	3	4.2
M6	× 1.0	TCH14316	10	80	30	6	4.9	8	3	5
M7	× 1.0	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	× 2.0	TCH14546	20	110	44	11	9	12	3	12
M16	× 2.0	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	× 3.0	TCH14786	30	160	60	18	14.5	17	4	21
M27	× 3.0	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

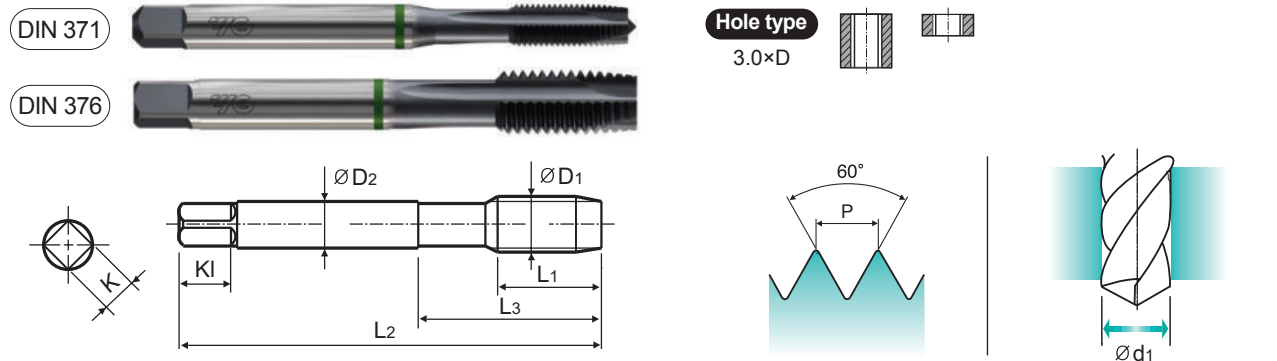
ISO	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	◎	◎	○	○	○	○				◎	◎	◎	◎	◎						
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRc	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended											○					○				

ISO metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

- Suitable for through hole in more cutting speed than other taps due to thick web and the best substrate.
- Geeignet für Durchgangslöcher in höherer Schnittgeschwindigkeit als bei anderen Gewindebohrern dank größerer Kerndicke und bestem Werkstoff.



Material groups: VAP, HSS PM, DIN 371/376, 6H, 60°, B, Vap, p.B193

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
M2	× 0.4	TQ853136	8	45	13	2.8	2.1	5	3	1.6
M2.2	× 0.45	TQ853156	8	45	13	2.8	2.1	5	3	1.75
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	× 1.0	TQ853316	17	80	30	6	4.9	8	3	5
M7	× 1.0	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)

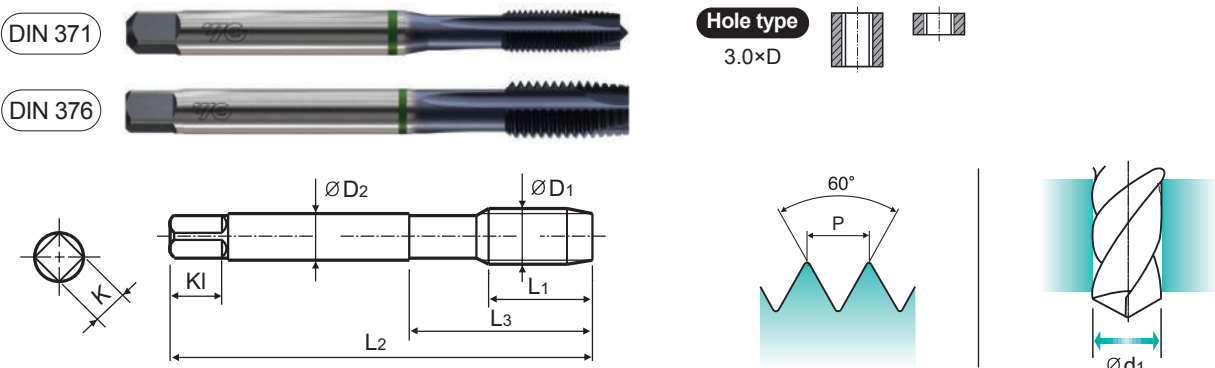
ISO	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	○	◎	○	○	○	○				◎	◎	◎	◎	◎						
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRc	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended											○					○				

ISO metric coarse threads DIN 13

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

Machine taps
Maschinengewindebohrer

Machine taps
Maschinengewindebohrer



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 × 1.0		TB623316	17	80	30	6	4.9	8	3	5
M7 × 1.0		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 × 2.0		TB623546	26	110	44	11	9	12	4	12
M16 × 2.0		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 × 3.0		TB623786	34	160	60	18	14.5	17	4	21
M27 × 3.0		TB623866	36	160	60	20	16	19	4	24
M30 × 3.5		TB623946	40	180	70	22	18	21	4	26.5

► * 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					
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								
Recommended											○					○	○	○	○	○	○		



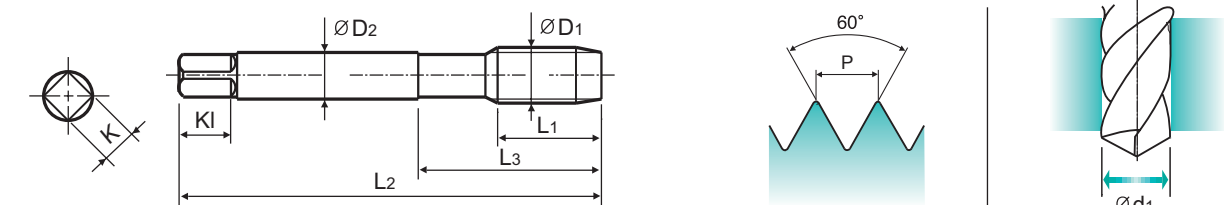
ISO metric fine threads DIN 13

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

Machine taps
Maschinengewindebohrer

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

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



Unit : mm

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
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	× 1.0	TB183376	10	90	36	6	4.9	8	3	7
M10	× 1.25	TB183436	16	100	40	7	5.5	8	3	8.8
M10	× 1.0	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	× 1.0	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	400Rm	1050Rm	550	630	400	550		
Recommended											○					○							

UNC

Unified coarse threads

Unified Grobgewinde

UNC

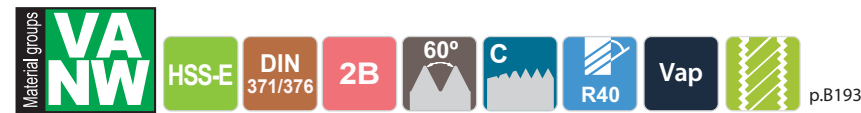
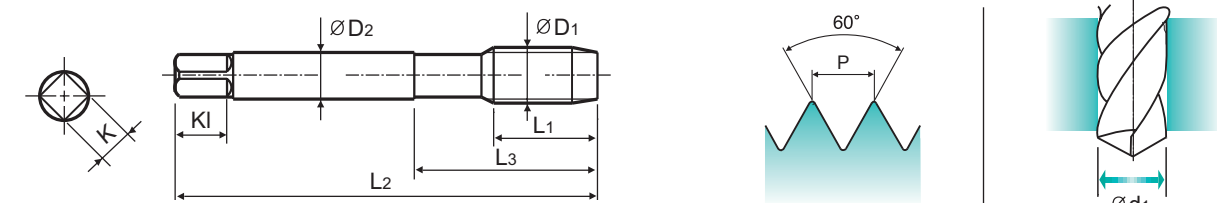
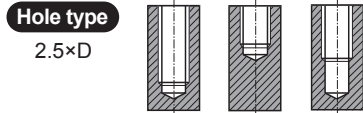
Unificato passo grosso

Machine taps

Maschinengewindebohrer

► 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.



SIZE	TPI	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	KI	Z	Ød ₁
#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
#10	- 24UNC	TB904322	10	70	25	6	4.9	8	3	3.9
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
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
1	- 8UNC	TB904782	30	160	60	20	16	19	4	22.25

► 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
HRc											15	30	25	38	34	36	37	55	60	42
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended											○					○				

UNF

Unified fine threads

Unified Feingewinde

UNF

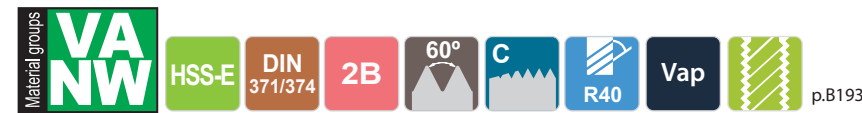
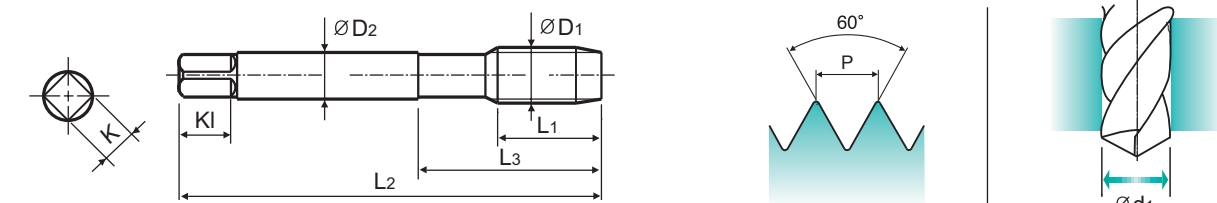
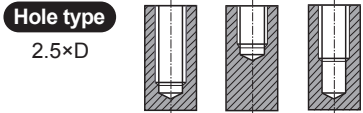
Unificato passo fine

Machine taps

Maschinengewindebohrer

► 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.



SIZE	TPI	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	KI	Z	Ød ₁
#5	- 44UNF	TB924222	7	56	18	3.5	2.7	6	3	2.7
#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
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
7/8	- 14UNF	TB924762	17	125	50	18	14.5	17	4	20.5

► 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	36	37	55	60	42	55		
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400	550		
Recommended											○					○							

MF ISO metric fine threads DIN 13

Metrisches ISO-Feingewinde DIN 13

ISO MÉTRIQUE PAS FINS DIN13

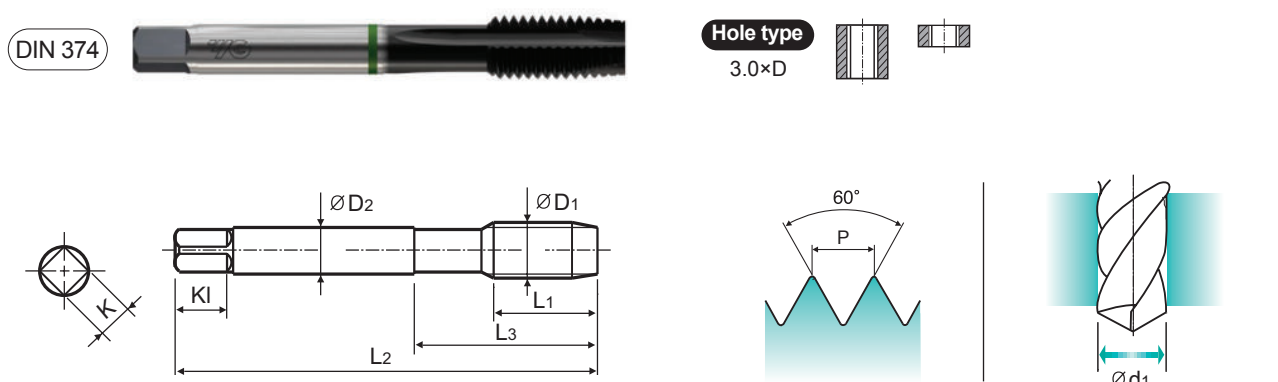
ISO Metrico passo fine DIN 13

Machine taps

Maschinengewindebohrer

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

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



Material groups

VANW HSS-E DIN 374 6HX 60° B Vap p.B193

SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	P	Vap	L1	L2	L3	ØD2	K	KI	Z	Ød1
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	× 1.0	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	× 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	× 1.0	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
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

ISO	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	⊙	⊙	○	○	○	○				⊙	⊙	⊙	⊙	⊙						
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRc	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended											○					○				

UNC Unified coarse threads

Unified Grobgewinde

UNC

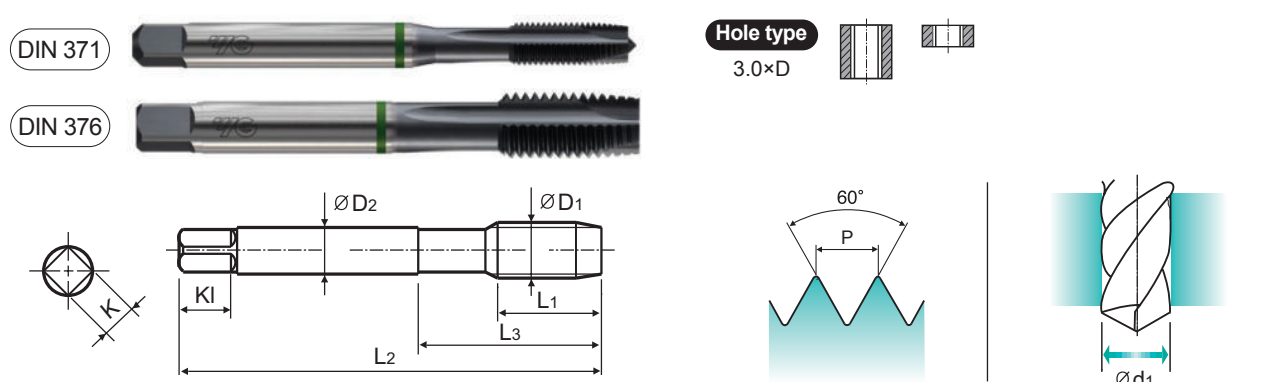
Unificato passo grosso

Machine taps

Maschinengewindebohrer

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

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



Material groups

VANW HSS-E DIN 371/376 2B 60° B Vap p.B193

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	KI	Z	Ød1
#4	- 40UNC	TB264162	11	56	18	3.5	2.7	6	3	2.3
#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

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

ISO	P										M					K				
Material Description	Non-alloy steel					Low alloy steel					High alloyed steel, and tool steel					Stainless steel				
VDI 3323	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
HRc	13	25	28	32	30	10	29	32	38	15	35	15	23	10	10	26	3	25	21	21
HB	125	190	250	270	300	180	275	300	350	200	325	200	240	180	180	260	160	250	130	230
Recommended	⊙	⊙	○	○	○	○				⊙	⊙	⊙	⊙	⊙						
ISO	N										S					H				
Material Description	Aluminum-wrought alloy					Aluminum-cast, alloyed					Copper and Copper Alloys (Bronze / Brass)					Non Metallic Materials				
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HRc	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
HB	60	100	75	90	130	110	90	100			200	280	250	350	320	400Rm	1050Rm	550	630	400
Recommended											○					○				

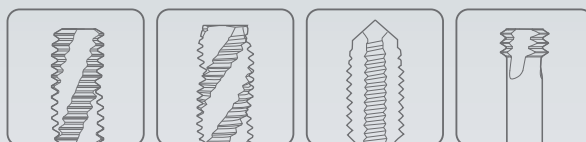
RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDKONDITIONEN

ISO	VDI 3323	Material Description	HB	HRc	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	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	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	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
	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
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	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	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	6-8	
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	15-20	
	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	15-20	

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Global Cutting Tool Leader **YG-1**



THREADING