HSS

SYNCHRO

COMBO

YG TAP GENERAL

YG TAP

NUT TAPS

TECHNICAL

Ti Ni

INOX

YG TAP GENERAL

T7343 SERIES

THREAD MILLS

ISO metric coarse threads DIN 13

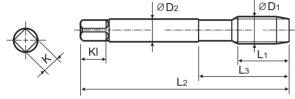
- Metrisches ISO-Gewinde DIN 13
- () ISO MÉTRIQUE DIN13
- () ISO Metrico passo grosso DIN 13
- ▶ This tap is a serial hand tap in set, First, Second and Bottoming.▶ Bottoming tap of set has final internal thread dimensions only.
- ▶ Dies ist ein Handgewindebohrer im Satz mit Vor-, Mittel- und Fertigschneider.



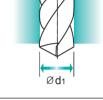


Hole type
2.0×D

60°











Sets of taps Gewindebohrer-Satz

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

► LH=Left hand thread

																		0	: Exc	ellent (∵ Good
ISO	P						M K														
Material Description					Low alloy steel			High ar	High alloyed steel, and tool steel		Stainless steel		Grey cast iron		Nodular cast iron		t Malleable cast iron				
VDI 3323	1	2	3	4	5	6	7	8	9	1	0	11	12	13	14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38			35	15	23	10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	20	00 3	25	200	240	180	180	260	160	250	130	230
Recommended	0	0	0	0		0	0											0	0		
ISO	N								S						Н						
Material Description							copper and Copper Alloys (Bronze / Brass)			Materials Heat R		leat R	Resistant Super Alloys			Titanium Alloys		Hardened steel			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	0 25	0 35	0 320	400Rm	1050 Rm	550	630	400	550
Recommended					0	0	0														

SURFACE TREATMENT AND COATING

The applied High Speed Steels holds a grant of good wear resistance and toughness. Therefore YG-1 normally delivers taps with bright and unfinished surface. For certain materials, various surface treatments provide higher advantage in machining.

STEAM TEMPERED - Vap

Steam Tempered is a Fe3O4-oxyd-coating which reduces friction between the tool and workpiece, also preventing cold welding.

NITRIDING - NI

Recommend surface treatment for machining materials that affect wear abrasion, such as grey cast iron, alu-alloys with high Si-percentages (more than 10%).

Below are the various surface treatments for excellent finish surfaces suitable for many applications. The surface treatments are produced and developed within the company.

TIN-COATING

TiN-coating yields a hardness of approx. 2,300 HV and also a heat resistant up to approx. 600°C. The current coating is an excellent all-round coating for normal applications.

Colour: Golden Coefficient of friction against steel: 0.4

TICN-COATING

TiCN takes place of TiN when the conditions require the coating to have a different hardness and toughness.

The TiCN brings advantages for machining very difficult steels or cutting interrupted bores

The TiCN-coating has a hardness of approx. 3,000 HV, but is heat resistance only holds up to approx. 400°C, meaning that the TiCN needs an excellent cooling system for a long service life.

Colour: Blue-Grey Coefficient of friction against steel: 0.4

TIAIN-COATING

A special coating for machining abrasive materials such as grey cast iron, alu-alloys with silicon, fiber reinforced plastics, etc., or machining at high temperatures with insufficient cooling, or at high speeds \geq 600m/min. TiAIN has a hardness of approx. 3,000 HV and is heat resistant up to approx. 800°C.

Colour: Violet-Grey Coefficient of friction against steel: 0.4

Hardslick-COATING

Hardslick combines the advantages of an extremely hard, thermally stable TiAIN-coating with the sliding and lubricating properties of an outer WC/C(Tungsten carbide/carbon)-coating in a novel way. The Hardslick coating has a hardness of approx. 3,000 HV and is temperature-resistant up to approx. 800°C.

Colour: Violet-Grey Coefficient of friction against steel: 0.2

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

STITAPS

PIPE TAPS

TECHNICAL DATA

SELECTION GUIDE



HSS & HSS-E YG TAP **GENERAL**

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

HOLE TYPE			Max. 2.0xD Blind/Through Hole								
1	OOL MA	ATERIAL			SS						
CHAN	IFER LEAD	ACC. TO DIN2197		1/11/	Ш			17111			
FLUTETYPE				Straight Fl	ute			Straig	ht Flute		
SPIRAL FLUTE ANGLE			-			-					
		DIN371/376									
	M	DIN352		T710 9 (P.151)	•						
		DIN357/LONG									
	ME	DIN374									
	MF	DIN2181							309 153)		
	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		REATMENT	Bright				Bright				
MODEL				***************************************	MANANANANANANANANANANANANANANANANANANAN						

Please visit globalyg1.com/mat for material search

⊚:Excellent ○:Good

ISO	VDI 3323	Material Description	Composition / Struc	ture / Heat Treatment	НВ	HRc		
	3323	_	About 0.15% C	Annealed	125		0	0
	2		About 0.45% C	Annealed	190	13	0	0
	3	Non-alloy steel	About 0.45% C	Quenched & tempered	250	25	0	0
	4	Non anoy steel	About 0.75% C	Annealed	270	28	0	0
	5		About 0.75% C	Quenched & tempered	300	32		<u> </u>
Р	6		71bout 0.7570 C	Annealed	180	10	0	0
· ·	7			Quenched & tempered	275	29	0	0
	8	Low alloy steel		Quenched & tempered	300	32		Ŭ
	9			Quenched & tempered	350	38		
	10	High alloyed steel,		Annealed	200	15		
	11	and tool steel		Quenched & Tempered	325	35		
	12	una toor steel	Ferritic / Martensitic	Annealed	200	15		
M	13	Stainless steel	Martensitic	Quenched & Tempered	240	23		
141	14	Stalliless steel	Austenitic	Querierieu a rempereu	180	10		
	15		Pearlitic / ferritic		180	10		
	16	Grey cast iron	Pearlitic (Martensitic)		260	26		
	17		Ferritic		160	3	0	0
K	18	Nodular cast iron	Pearlitic		250	25	0	0
	19		Ferritic		130	23		<u> </u>
	20	Malleable cast iron	Pearlitic	230	21			
	21	Aluminum-	Not Curable		60			
	22	wrought alloy	Curable	Hardened	100			
	23	,	≤ 12% Si, Not Curable		75			
	24	Aluminum-	≤ 12% Si, Curable	Hardened	90			
	25	cast, alloyed	> 12% Si, Not Curable		130		0	0
N	26	Copper and	Cutting Alloys, PB>19		110		0	0
	27	Copper Alloys	CuZn, CuSnZn (Brass)		90		Ö	0
	28	(Bronze / Brass)		and electrolytic copper	100		Ü	Ü
	29	Non Metallic	Duroplastic, Fiber Rei					
	30	Materials	Rubber, Wood, etc.					
	31			Annealed	200	15		
	32		Fe Based	Cured	280	30		
	33	Heat Resistant		Annealed	250	25		
S	34	Super Alloys	Ni or Co Based	Cured	350	38		
	35			Cast	320	34		
	36		Pure Titanium		400 Rm			
	37	Titanium Alloys	Alpha + Beta Alloys Hardened		1050 Rm			
	38			Hardened	550	55		
	39	Hardened steel		Hardened	630	60		
Н	40	Chilled Cast Iron		Cast	400	42		
	41	Hardened Cast Iron		Hardened	550	55		

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

		Ma Blir	x. 2.0xD Id/Through Hole			
		HSS		HSS		
17117111	1/111	17117111	17117111	1/11/111	1/11/111	
Straight Flute	Straight Flute	Straight Flute	Straight Flute Left Hand Cut	Straight Flute	Straight Flute	
-	-	-	Leit nand Cut	-	-	
			T7343 (P.158)	TB373 (P.159)	TC353 (P.160)	M
			(P.158)	(P.159)	(P.160)	M
						MF
T7363 (P.155)						UNC
(P.155)						
	T7509 (P.156)					UNF
	(P.156)					
		T7609 (P.157)				BSW
		(K.157)				G(BSP)
						EG-M
						G-UN
						G-UNI
Bright	Bright	Bright	Bright	VAP	Bright	
<u> </u>	0	0	0	0	0	1
0	0	0	0	0	0	3
0	0	0	0	0	0	1 2 3 4 5 6 P 7 8 9
0	0	0	0	0	0	5 6 P
0	0	0	0	0	0	7
						8
					1	10
				_	1	10 11
				0	1	12 13 N
				0	1	14
					1	15
0	0	0	0		1	16 17
0	0	0	Ö		1	18 18
					1	19
					2	21
					2	22
					2	23
0	0	0	0		2	25 .
0	0	0	0		2	26 N
0	0	0	0		2	27
					2	29
					3	80
					3	31 32
					3	33
					3	4 S
					3	65 36
					3	37
					3	88
					3	114