

Serial hand tap set in First and Bottoming.
Bottoming tap of set has final internal thread dimensions only.

ΚI

First

Bottoming





CARBIDE

THREAD MILLS

SYNCHRO TAPS

COMBO TAPS

YG TAP GENERAL

YG TAP

YG TAP HARDENED

YG TAP INOX

YG TAP CAST IRON

YG TAP ALU

YG TAP Ti Ni

YG TAP

NUT TAPS

PIPE TAPS

TECHNICAL DATA



L2

ØD2

Sets of taps Gewindebohrer-Satz

Ø**d**1

										Unit : mm
SIZE	ТРІ	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
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

Whitworth Pipe threads DIN ISO 228/1

Hole type

2.0×D

► Handgewindebohrersatz mit Vor- und Fertigschneider.

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Nur der Fertigschneider kann das gewünschte Gewinde schneiden.

 Whitworth Rohrgewinde DIN ISO 228/1 () G(BSP) PROFIL 55° DIN ISO 228/1

ØD1

[†]L1

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Filettatura Whitworth per tubi DIN ISO 228/1

																		©	Exc	ellent ()∶Good
ISO	Ρ											MK									
Material Description		Non-alloy steel Low alloy steel						el	High an	High alloyed steel, and tool steel Stainless steel					Grey ca		lar cast on		Malleable cast iron		
VDI 3323	1	2	3	4	5	6	7	8	9	10) 1	1	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	20	0 3	25	200	240	180	180	260	160	250	130	230
Recommended	0	0	0			0										0	0				
ISO					N									S						н	
Material Description	Aluminum- wrought alloy Aluminum-cast, alloyed Copper and Copper Alloys (Bronze / Brass)					er Alloys ss)	Non Me Materi		н	eat Re	esistant	Super A	lloys	Titani	um Alloys		lened eel		Hardened Cast Iron		
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	33			36	37	38	39	40	41
HRc											15	30	25					55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250) 35	0 320	400 Rm	1050 Rm	550	630	400	550
Recommended	0	0	0																		

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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 TiAINcoating 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

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CARBIDE	SELECTION GUIDE						HOLE	ТҮРЕ	Max. 2.0xD Bind/Through Hole		xD le	Max. 3.0xD Through Hole	
							DOL MA		HSS		SS-E	<u>10 20</u>	
HSS	THREADING TOOLS						FER LEAD / FLUTE	ACC. TO DIN2197	I/III Straight Flute			B Spiral Point	
	-			TOOLS		SPIF		JTE ANGLE	-	R40	Spiral Flute	R40	-
THREAD								DIN371/376					
MILLS							М	DIN352					
				H22 &	HSS-E			DIN357/LONG					
SYNCHRO TAPS					DIDE		MF	DIN374					
					PIPE			DIN2181					
COMBO				-			UNC	DIN371/376					
TAPS					APS	S -		DIN351					
				Tapping Whitw	orth Pipe threads	SERIES	UNF	DIN371/374					
YG TAP GENERAL						S		DIN2181					
							BSW	DIN2182/2183					
YG TAP							C/DEP	DIN351	T7709	TC728	TC729	TB514	TC727
STEEL						-		DIN5156/5157	(P.301)	(P.302)	(P.303)	(P.304)	(P.305)
YG TAP						-	EG-M EG-UNC	DIN371/376					
HARDENED						-							
							EG-UNF	DIN371/374 REATMENT	Bright	Bright	Bright	VAP	Bright
YG TAP INOX													
YG TAP CAST		do	ase visit balyg1.com/mat material search	© ecommended cutting	Excellent O:Good		MO	DEL					
IRON	ISO	VDI	Material Description	Composition / Struc	cture / Heat Treatment	H	НB	HRc					1
YG TAP	-150.	3323		About 0.15% C	Annealed		25		0			0	
ALU		2		About 0.45% C	Annealed	19	90	13	0	O		0	O
		3 4	Non-alloy steel	About 0.45% C About 0.75% C	Quenched & Tempered Annealed		50 70	25 28	0	0			0
YG TAP Ti Ni		5		About 0.75% C	Quenched & Tempered		00	32		0			0
	Р	6			Annealed		80	10	0	0	0		0
YG TAP		7 8	Low alloy steel		Quenched & Tempered Quenched & Tempered		75 00	29 32		O	0		Ø
FORMING		9			Quenched & Tempered	3	50	38			0		
		10 11	High alloyed steel, and tool steel		Annealed Quenched & Tempered		00 25	15 35					
NUT TAPS		12		Ferritic / Martensitic			00	15				0	
	M	13	Stainless steel	Martensitic	Quenched & Tempered		40	23				0	
STI TAPS		14 15		Austenitic Pearlitic / ferritic			80 80	10 10	0		0	O	
		16	Grey cast iron	Pearlitic (Martensitic)	20	60	26	0	-			_
	K	17 18	Nodular cast iron	Ferritic Pearlitic			60 50	3 25		0			0
PIPE TAPS		19	Malleable cast iron	Ferritic			30	23					
		20 21		Pearlitic Not Curable			30	21	0	\sim			\sim
TECHNICAL DATA		21	Aluminum- wrought alloy	Not Curable Curable	Hardened		50 00		0	0			0
DAIA		23	Aluminum-	≤ 12% Si, Not Curabl	e	7	75		0	0			0
		24 25	cast, alloyed	≤ 12% Si, Curable > 12% Si, Not Curabl	Hardened		90 30			0			0 ©
	Ν	25	Copper and	Cutting Alloys, PB>1		1	10			0			0
		27	Copper Alloys (Bronze / Brass)	CuZn, CuSnZn (Brass			00			0			0
		28 29	Non Metallic	CuSn, lead-free coppe Duroplastic, Fiber Re	r and electrolytic copper inforced Plastic	10	00						
		30	Materials	Rubber, Wood, etc.									
		31 32		Fe Based	Annealed Cured		00 80	15 30					
		33	Heat Resistant Super Alloys		Annealed		50 50	25					
	S	34	Super Alloys	Ni or Co Based	Cured		50	38					
		35 36		Pure Titanium	Cast		20) Rm	34					
		37	Titanium Alloys	Alpha + Beta Alloys	Hardened		0 Rm						
		38	Hardened steel		Hardened		50	55					
	Н	39 40	Chilled Cast Iron		Hardened Cast		30 00	60 42					
			cimen custifori		2000			12					

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