

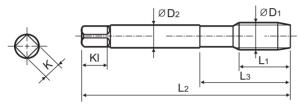
Unified coarse threads

Unified Grobgewinde

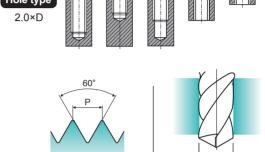
UNC Unificato passo grosso

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.





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

PIPE TAPS

TECHNICAL DATA



									Unit : mn
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
#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

																		Ø	Exc	ellent ():Good
ISO	P												MK								
Material Description	Non-alloy steel					Low a	lloy stee	1	High an	alloyed s d tool ste	steel, eel	l, Stainless steel			Grey cast iron		Nodular cast I iron			Malleable cast iron	
VDI 3323	1	2	3	4	5	6	7	8	9	10) 1	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	20	0 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	Aluminum- wrought alloy Aluminum-cast, alloyed Copper and Copper Alloys Non Metallic Heat					eat R	Resistant Super Alloys Ti			Titaniu	im Alloys	Hard ste		Chilled Cast Iron	Hardened Cast Iron						
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	3	3 3	4 35	36	37	38	39	40	41
HRc											15	30	2		8 34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280) 25	50 3	50 320) 400 Rn	1050 Rm	550	630	400	550
Recommended					0	0	0														

***/G** YG-1 CO., LTD.

CARBIDE

HSS

T7363 SERIES

Ød1

THREAD MILLS

SYNCHRO TAPS

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

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



					TOOL M	ATERIAL	HSS			
					CHAMFER LEAD	ACC. TO DIN2197	17117111	L / III		
			THREADIN	Ð	FLUT	ТҮРЕ	Straight Flute	Straight Flute		
			TOOLS		SPIRAL FL	JTE ANGLE	-	-		
						DIN371/376				
							T7109			
			LCC 2	HSS-E	М	DIN352	(P.151)			
			ΠΟΟα	ПЭЭ-Е		DIN357/LONG				
						DIN374				
			YG	TAP	MF	DIN2181		T7309		
			_			DIN371/376		(P.153)		
			CENI		UNC					
		(GENE			DIN351				
						DIN371/374				
		Suitable	for Tapping Blind	/ Through Holes	UNF	DIN2181				
	due 1	to Flute Geomet	try and Excellent (Chip Evacuation		DIN2182/2183				
			,	- F	BSW					
						DIN351				
					G(BSP)	DIN5156/5157				
					EG-M	DIN371/376				
					EG-UNC					
					EG-UNF	DIN371/374				
					SURFACE	REATMENT	Bright	Bright		
	_									
		ase visit			МС	DEL				
	a glo	balyg1.com/mat material search		:Excellent ⊖:Good						
ED 397 4	TOP TOP	material search								
ISO	VDI	Material Description	Composition / Struc	ture / Heat Treatment	HB	HRc				
	5525									
	1 2 3 4		About 0.15% C About 0.45% C	Annealed Annealed	125 190	13	0	0		
		Non-alloy steel	About 0.45% C	Quenched & tempered	250	25	0	0		
		Non-alloy steel	About 0.45% C	Annealed	230	23	0	0		
	5		About 0.75% C	Quenched & tempered	300	32	0	0		
Р	6		/100010./5/0C	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		Ferritic / Martensitic	Annealed	200	15				
Μ	13	Stainless steel	Martensitic	Quenched & Tempered	240	23				
	14		Austenitic		180	10				
	15	Grey cast iron	Pearlitic / ferritic		180	10				
	16		Pearlitic (Martensitic)		260	26				
Κ	17	Nodular cast iron	Ferritic		160 250	3	0	0		
	18		Pearlitic			25	0	0		
	19 20	Malleable cast iron	Ferritic Pearlitic		130	21				
	20	Aluminum-	Not Curable		230 60	21				
	21	wrought alloy	Curable	Hardened	100					
	23		≤ 12% Si, Not Curable		75					
	24	Aluminum-	$\leq 12\%$ Si, Curable	Hardened	90					
	25	cast, alloyed	> 12% Si, Not Curable		130		0	0		
Ν	26	Copper and	Cutting Alloys, PB>19	6	110		0	0		
	27	Copper Alloys	CuZn, CuSnZn (Brass)		90		0	0		
	28	(Bronze / Brass)	CuSn, lead-free copper	and electrolytic copper	100					
	29	Non Metallic	Duroplastic, Fiber Rei	nforced Plastic						
	30	Materials	Rubber, Wood, etc.							
	31		Fe Based	Annealed	200	15				
	32	Heat Resistant		Cured	280	30				
	33	Super Alloys		Annealed	250	25				
S	34		Ni or Co Based	Cured	350	38				
	35		D T''	Cast	320	34				
	36	Titanium Alloys	Pure Titanium	Usudanad	400 Rm					
	37		Alpha + Beta Alloys	Hardened	1050 Rm					
	38	Hardened steel		Hardened	550	55				
Н	39			Hardened	630	60				
	40	Chilled Cast Iron Hardened Cast Iron		Cast	400	42				
	41	hardened Cast Iron		Hardened	550	55				

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Max. 2.0xD Blind/Through Hole

Max. 2.0xD Blind/Through Hole											
I / II / III Straight Flute	I / III Straight Flute -	HSS I / II / III Straight Flute -	I / II / III Straight Flute Left Hand Cut	HSS	E I / II / III Straight Flute	HSS					
			T7343 (P.158)	TB373 (P.159)	TC353 (P.160)	м THREAD MILLS					
						SYNCHRO TAPS					
T7363 (P.155)						UNC COMBO TAPS					
	T7509 (P.156)					UNF YG TAP GENERAL					
		T7609 (P.157)			G	BSW YG TAP STEEL					
					EC	GANC YG TAP HARDENED					
Bright	Bright	Bright	Bright	VAP	Bright	YG TAP INOX					
						YG TAP CAST IRON					
0 0	0 0	0 0		0 0		YG TAP					
0	0	0	0	0		YG TAP Ti Ni					
0	0	0	0	0		YG TAP FORMING					
				0							
				0		3 M 4 STI TAPS					
0	0	0	0		1	R PIPE TAPS					
					2 2 2	TECHNICAL DATA					
0	0 0	0	0		2	3 4 5 6 N					
0	0	0	0		2	5 7 8 9					
					3						
					3	STI TAPS PIPE TAPS TECHNICAL DATA					
					3	9 7 9 9 1					
					4						