HSS

YG TAP CAST IRON

YG TAP ALU

YG TAP Ti Ni

YG TAP FORMING

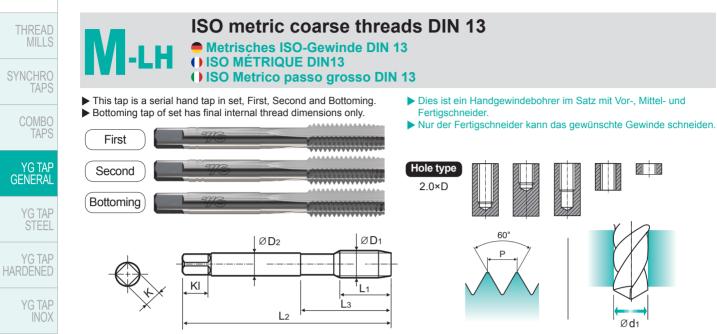
NUT TAPS

STI TAPS

TECHNICAL DATA



T7343 SERIES





										Unit : r
SIZE	Pitch	EDP No.	Thread Length	Overall Length	Neck Length	Shank Diameter	Square Size	Square Length	No. of Flute	Tapping Drill Diameter
ØD1	Р	Bright	L1	L2	L3	ØD2	К	KI	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

																		©	Exc	ellent (⊖:Good
ISO	P												M					Κ			
Material Description	Non-alloy steel				Low a	alloy ste	el	High an	High alloyed steel, Stainless steel			Grey cast iron Nodular cast iron		t 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	5 3	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					Non Met Materia		F	leat Re	esistant	Super A	lloys	Titaniu	m Alloys		ened eel		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	i 38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	280	250	0 350) 320	400 Rm	1050Rm	550	630	400	550
Recommended					0	0	0														



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

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					
					1.0.15	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					
	3323										
	1 2 3 No 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 anoy steel	About 0.75% 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	3	0	0			
	18		Pearlitic		250	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)					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						