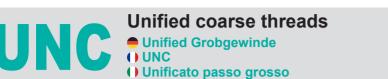
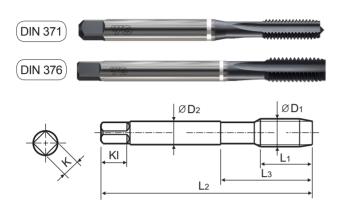
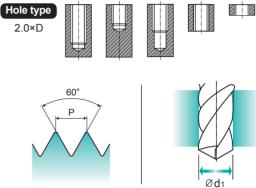


TE434 SERIES



Suitable for tapping cast iron or similar work materials due to nitriding.





► Geeignet zum Gewindeschneiden von Guss oder ähnlichen

Werkstoffen dank der Nitrierung





Machine taps DIN HSS-E NI 2BX Maschinengewindebohrer 371/376

Recommended Cutting Page : P.237 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		Ni	L1	L2	L3	ØD2	К	KI	Z	Ød1		
#4	- 40UNC	TE434162	11	56	18	3.5	2.7	6	3	2.3		
#5	- 40UNC	TE434202	11	56	18	3.5	2.7	6	3	2.6		
#6	- 32UNC	TE434242	12	56	20	4	3	6	3	2.85		
#8	- 32UNC	TE434282	13	63	21	4.5	3.4	6	3	3.5		
#10	- 24UNC	TE434322	15	70	25	6	4.9	8	3	3.9		
#12	- 24UNC	TE434362	16	80	30	6	4.9	8	3	4.5		
1/4	- 20UNC	TE434402	17	80	30	7	5.5	8	4	5.2		
5/16	- 18UNC	TE434442	20	90	35	8	6.2	9	4	6.6		
3/8	- 16UNC	TE434482	22	100	39	9	7	10	4	8		
7/16	- 14UNC	TE434522	22	100	40	8	6.2	9	4	9.4		
1/2	- 13UNC	TE434562	25	110	44	9	7	10	4	10.75		
9/16	- 12UNC	TE434602	26	110	44	11	9	12	4	12.25		
5/8	- 11UNC	TE434642	27	110	44	12	9	12	4	13.5		
3/4	- 10UNC	TE434702	30	125	50	14	11	14	4	16.5		
7/8	- 9UNC	TE434742	32	140	54	18	14.5	17	4	19.5		
1 ·	- 8UNC	TE434782	36	160	60	20	16	17	4	22.25		
1-1/8	- 7UNC	TE434822	40	180	70	22	18	21	4	25		

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

																			©	Exc	ellent	⊖:Good
ISO	P												M						K			
Material Description	Non-alloy steel						Low a	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		0	11	12	13		14	15	16	17	18	19	20
HRc		13	25	28	32	10	29	32	38		5	35	15	23		10	10	26	3	25		21
HB	125	190	250	270	300	180	275	300	350	20	00	325	200	24	0	180	180	260	160	250	130	230
Recommended																	O	O	\odot	0	0	0
ISO					N										S						Н	
Material Description	Aluminum- wrought alloy Aluminum-cast, alloyed C					Copper an (Bron	and Copper Alloys Non Meta onze / Brass) Materials					Heat R	Resistant Super Alloys				Titanium Alloys		s Hardened steel		Chilled Cast Iron	Hardened Cast Iron
VDI 3323	21	22	23	24	25	26	27	28	29	30	31	32	2 3	3	34	35	36	37	38	39	40	41
HRc											15	30) 2	25	38	34			55	60	42	55
HB	60	100	75	90	130	110	90	100			200	28	0 2	50	350	320	400 Rm	1050 Rm	550	630	400	550
Recommended							0															

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

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CARBIDE

HSS

THREAD MILLS

SYNCHRO TAPS

COMBO TAPS

YG TAP GENERAL

YG TAP

YG TAP HARDENED

YG TAP ALU

YG TAP Ti Ni

YG TAP FORMING

NUT TAPS

PIPE TAPS

TECHNICAL DATA

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RECOMMENDED CUTTING CONDITIONS EMPFOHLENE SCHNEIDKONDITIONEN

HSS

					T0993	TE821 TE403 TE434 TE454	TD821	TI821	TY821	THREAD MILLS SYNCHRO TAPS
ISO	VDI 3323	Material Description	HB	HRc			Vc (m/min)			СОМВО
	1		125							TAPS
	2		190	13						YG TAP GENERAL
	3	Non-alloy steel	250	25						GENERAL
	4		270	28						YG TAP
Р	5 6		300 180	32 10						YG TAP STEEL
	7		275	29						
	8	Low alloy steel	300	32						YG TAP HARDENED
	9		350	38						
	10	High alloyed stee	200	15						YG TAP INOX
	11	and tool steel	325	35						
	12		200	15						YG TAP CAST IRON
Μ	13	Stainless steel	240	23						IRON
	14		180	10						YG TAP
	15	Grey cast iron	180	10	10-15	10-15	15-20	15-20	15-20	ALU
	16		260	26	5-8	5-8	8-11	8-11	8-11	VOTAD
Κ	17	Nodular cast iron	160	3	10-15 5-8	10-15 5-8	15-20	15-20 8-11	15-20	YG TAP Ti Ni
	18 19		250 130	25	10-15	10-15	8-11 15-20	15-20	8-11 15-20	
	20	Malleable cast iron	230	21	5-8	5-8	8-11	8-11	8-11	YG TAP FORMING
	21	Aluminum-	60				011	011		
	22	wrought alloy	100							NUT TAPS
	23		75		15-20					
	24	Aluminum- cast, alloyed	90							STI TAPS
N	25	cust, anoyea	130		10-15					STIAFS
		Copper and	110							
	27	Copper Alloys (Bronze / Brass)	90			8-12	12-16	12-16	12-16	PIPE TAPS
			100							TEOLINIIOAL
	29	Non Metallic Materials								TECHNICAL DATA
	30 31	materials	200	15						
	32		280	30						
	33	Heat Resistant	250	25						
S	34	Super Alloys	350	38						
	35		320	34						
	36	Tite a liver Alleve	400 Rm							
	37	Titanium Alloys	1050 Rm							
	38	Hardened steel	550	55						
H	39		630	60						
	40	Chilled Cast Iron	400	42	3-5					
	41	Hardened Cast Iron	550	55						

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	S	SELECTION GUIDE							ТҮРЕ		Max, 2.0xD				
									ATERIAL	CARBIDE	Blind / Through Hole				
HSS		THREADING TOOLS							ACC. TO DIN2197	C	С	C C		С	
		2				IJĞ			ТҮРЕ	Straight Flute	Straight Flute	Straight Flute	Straight Flute	Straight Flute	
		_			IOOLS		SP	IRAL FLI	JTE ANGLE	- T0993	- TE821	- TD821	- TI821	- TY821	
THREAD MILLS								м	DIN371/376 DIN352	(P.229)	(P.230)	(P.231)	(P.232)	(P.233)	
		S	OL	.ID CAF	RBIDE &	HSS-E			DIN357/LONG						
SYNCHRO									DIN374		TE403 (P.234)				
TAPS					YG	TAP		MF	DIN2181						
COMBO								UNC	DIN371/376		TE434 (P.235)				
TAPS				GA	J	RON	S		DIN351		TE454				
YG TAP				For Ca	ast Iron or Simila	r Work Materials	SERIES	UNF	DIN371/374 DIN2181		(P.236)				
GENERAL									DIN2182/2183						
YG TAP								BSW	DIN351						
STEEL								G(BSP)	DIN5156/5157						
2/0 7/0								EG-M	DIN371/376						
YG TAP HARDENED								EG-UNC							
							SU	EG-UNF	DIN371/374 REATMENT	Bright	NI	TiN	TiCN	TiAIN	
YG TAP INOX										i i i i i i i i i i i i i i i i i i i			a te		
		180		ase visit		· Evenlant O · Cood		МО	DEL			MANA	Never		
YG TAP CAST		<mark>%6</mark>	glo	halvo1.com/mat	© ecommended cutting	:Excellent O:Good		mo							
CAST IRON		92 93	VDI												
YG TAP	IS	0	3323	Material Description		ture / Heat Treatment		HB	HRc						
ALU				Non-alloy steel	About 0.15% C About 0.45% C	Annealed Annealed		125 190	13						
YG TAP			3 4		About 0.45% C About 0.75% C		250 270	25 28							
Ti Ni			5		About 0.75% C	Quenched & Tempered		300	32						
	F	2	6 7			Annealed Quenched & Tempered		180 275	10 29						
YG TAP FORMING			8	Low alloy steel		Quenched & Tempered	1	300	32						
			9 10	High alloyed steel,		Quenched & Tempered Annealed		350 200	38 15						
NUT TAPS			11 12	and tool steel	Ferritic / Martensitic	Quenched & Tempered Annealed		325 200	35 15						
	Ν	Λ	12	Stainless steel	Martensitic	Quenched & Tempered		200	23						
STI TAPS			14 15		Austenitic Pearlitic / ferritic			180 180	10 10	0	0	O	0	0	
011 // 11 0		ľ	16	Grey cast iron	Pearlitic (Martensitic)		:	260	26	O	O	O	O	O	
	ł	< -	17 18	Nodular cast iron	Ferritic Pearlitic			160 250	3 25	0	0	0	0	0	
PIPE TAPS			19	Malleable cast iron	Ferritic			130		0	0	0	0	0	
TECHNICAL			20 21	Aluminum-	Pearlitic Not Curable			230 60	21	0	0	0	0	0	
DATA			22 23	wrought alloy	Curable ≤ 12% Si, Not Curable	Hardened		100 75		0					
			24	Aluminum-	≤ 12% Si, Curable	Hardened		90							
	Γ	N	25 26		> 12% Si, Not Curable Cutting Alloys, PB>19			130 110		0					
			27	Copper Alloys	CuZn, CuSnZn (Brass)			90			0	O	O	O	
			28 29	(Bronze / Brass) Non Metallic	CuSn, lead-free copper Duroplastic, Fiber Rei	and electrolytic copper nforced Plastic		100							
			30	Materials	Rubber, Wood, etc.										
			31 32		Fe Based	Annealed Cured		200 280	15 30						
			33	Heat Resistant Super Alloys	Ni or Co Poss d	Annealed		250	25						
	5		34 35		Ni or Co Based	Cured Cast		350 320	38 34						
			36 37	Titanium Alloys	Pure Titanium Alpha + Beta Alloys	Hardened		0 Rm 50 Rm							
			38	Hardened steel	Aiplia + Deta AllOyS	Hardened		550 Rm	55						
	ŀ	1	39 40	Chilled Cast Iron		Hardened Cast		530 400	60 42	0					
			41	Hardened Cast Iron		Hardened		550	55						

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