THREADING

ICONS LEGEND

Thread type

M	Metric	MF	Metric fine	UNC	UNC
UN	UN	UNF	UNF	MJ	MJ
UNJC	UNJC	UNJF	UNJF	EG M	HELICOIL M
EG MJ	HELICOIL MJ	EG UNJC	HELICOIL UNJC	EG UNJF	HELICOIL UNJF
BSW	BSW	BSF	BSF	BA	BA
G	G	Rc (PT)	Rc (PT)	NPT	NPT
PG	PG				

Tool material

CARBIDE	Carbide	HSS-Co	HSS Cobalt (Co8)	XPM	High grade powder metallurgy HSS (XPM) (Co10+V5)
HSSE	High Vanadium HSS-EV3	PM	Powder metallurgy HSS (PM-T15) (Co5 + V5)	HSS	HSS

Coating / surface treatment

CrN	Chromium nitride	HR	Coating HR	NI-OX	Nitride Oxide
OX	Steam oxide	TiN	Coating TiN	V	Multilayer coating TiCN
WX	Multilayer composite TiAlN	SC	Smooth coating	WXS	Multilayer coating WXS

Helix angle

30°	Helix angle

Tool tolerance

ISO 2 6H	Tool tolerance	6H +0.1	Oversized +0,1 mm thread tolerance

Chamfer length

A/6	Form A (6 pitch)	B/5	Form B (5 pitch)	C/3	Form C (3 pitch)
D/5	Form D (5 pitch)	E/1,5	Form E (1,5 pitch)	8 THDS	8 pitch

ICONS LEGEND

Shank

- h7 — Shank diameter tolerance
- SHRINK FIT — Suitable for Shrink fit system
- DIN 376 — Straight shank
- DIN 371 — Reinforced shank
- HB — Weldon shank

Hole specification / thread depth

- For blind holes
- For through holes
- <1,5D — Threading depth
- For blind holes - helicoil
- For through holes - helicoil

Standard DIN

- DIN 371 — Standard DIN
- LH — Left-hand threads

Coolant

- Centre through
- Side through

Recommendation

- P ◉ — Steel, Full recommendation
- M ◉ — Stainless steel, Full recommendation
- K ◉ — Cast iron, Full recommendation
- P ○ — Steel, Suitable
- M ○ — Stainless steel, Suitable
- K ○ — Cast iron, Suitable
- N ◉ — Non-ferrous materials, Full recommendation
- S ◉ — Super alloys, Full recommendation
- H ◉ — Hardened material, Full recommendation
- N ○ — Non-ferrous materials, Suitable
- S ○ — Super alloys, Suitable
- H ○ — Hardened material, Suitable

A-Brand

- A — A-Brand product

Page reference

- Cutting conditions page reference

Product group

- Cutting taps
- Thread mills
- Gauges
- Forming taps
- Round dies
- Synchrofit

MATERIAL OVERVIEW

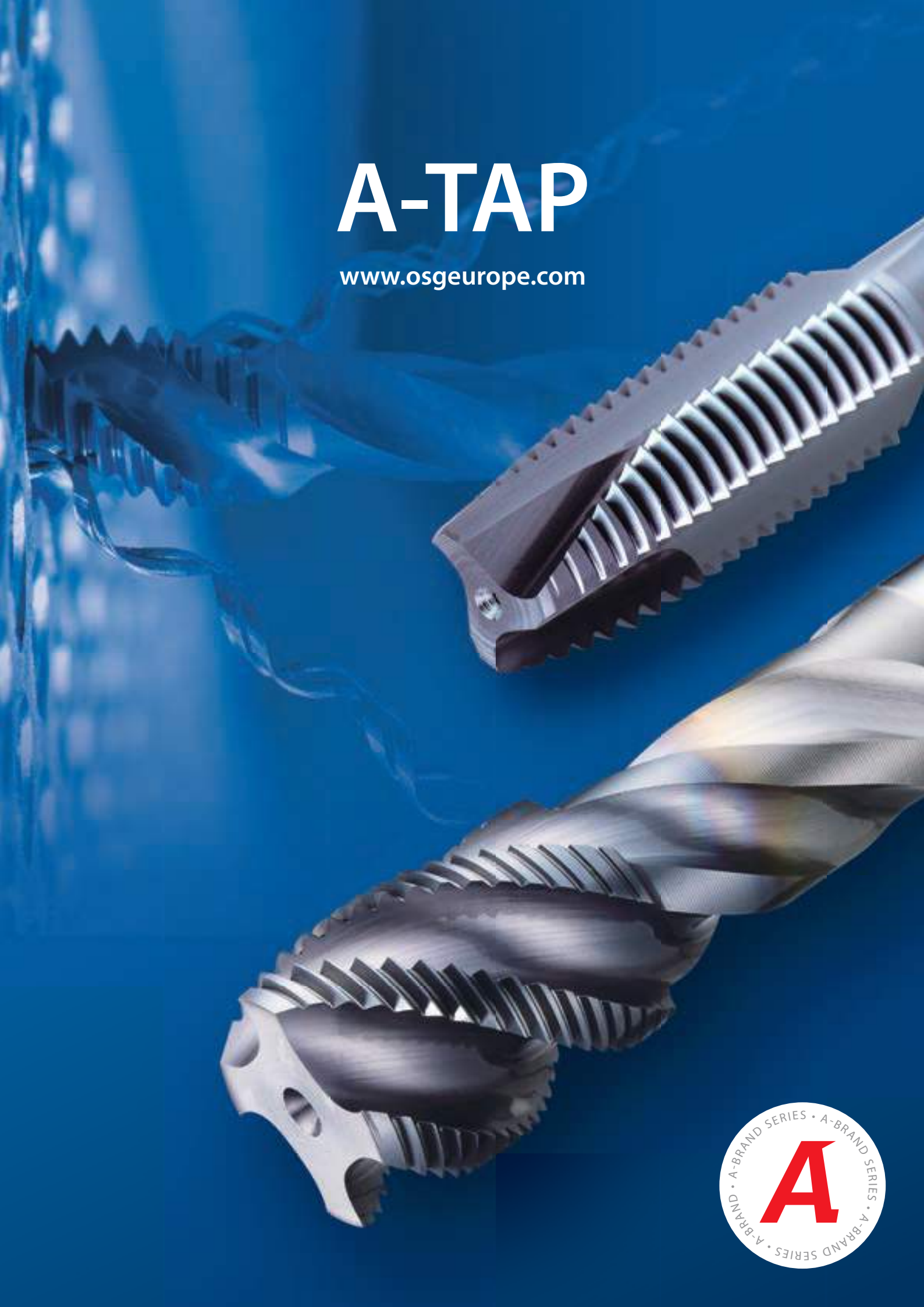
Threading | Overview DIN ISO 513

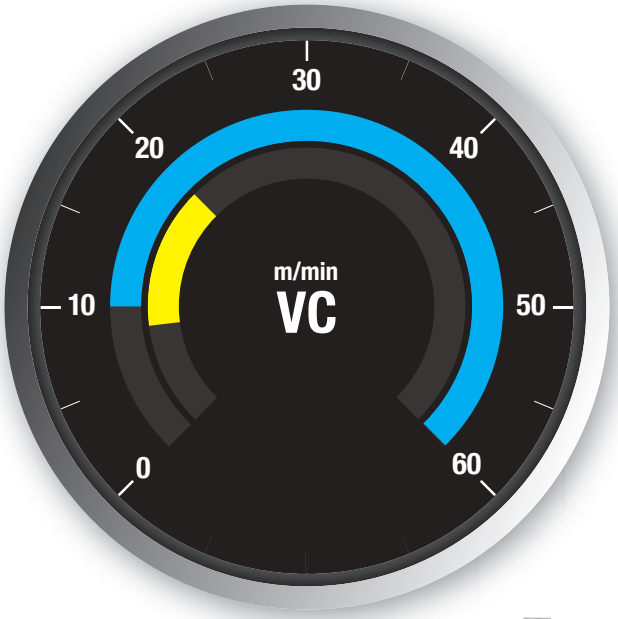
		Work Material	DIN
P	C: ≤0,2%	Low carbon steel	**1.0116** (S235J2G3) **1.0401** (C15)
	C: 0,25-0,45%	Medium carbon steel	**1.0501** (C35)
	C: ≥0,45%	High carbon steel	**1.0535** (C55) **1.0553** (S355J0)
	SCM	Alloy steel	**1.7225** (42CrMo4)
M	INOX	Stainless steel	**1.4301** (X5CrNi18-10)
K	GG	Cast iron	**0.6025** (EN-GJL-250/GG25)
	GGG	Ductile cast iron	**0.7040** (EN-GJS-400-15/GGG-40)
N	Al	Aluminium	**3.0205** (Al99)
	AC, ADC	Cast aluminium alloys	**3.2581** (G-AlSi12)
S	Ti	Titanium	**3.7164** (Ti6Al4V)
	Ni	Nickel alloys	**2.4816** (NiCr15Fe/Inconel® 600)
H	25-35HRC	Hardened steel	
	35-45HRC		
	45-52HRC		
	52-62HRC		

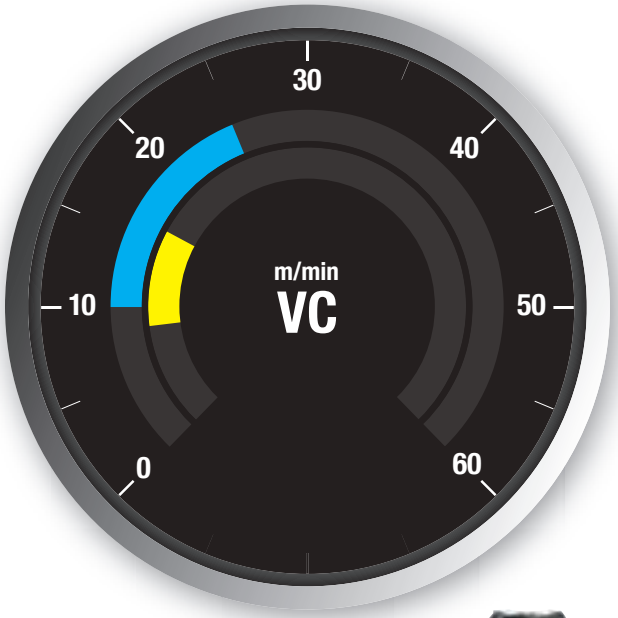
CFRP	CFRP
Honeycomb	Honeycomb
Graphite	Graphite

A-TAP

www.osgeurope.com







A V PM

A-TAP Series

First choice in quality and performance

Powder metal cutting tap

Multilayer V coating:
extreme wear resistance

High speed tapping in general steels, aluminium, stainless steels

M A.123 | MF A.225 | UNC A.267 | UNF A.278 | BSW A.324 | BSF A.328 | BA A.332 | G A.337
Rc (PT) A.349

OX HSSE

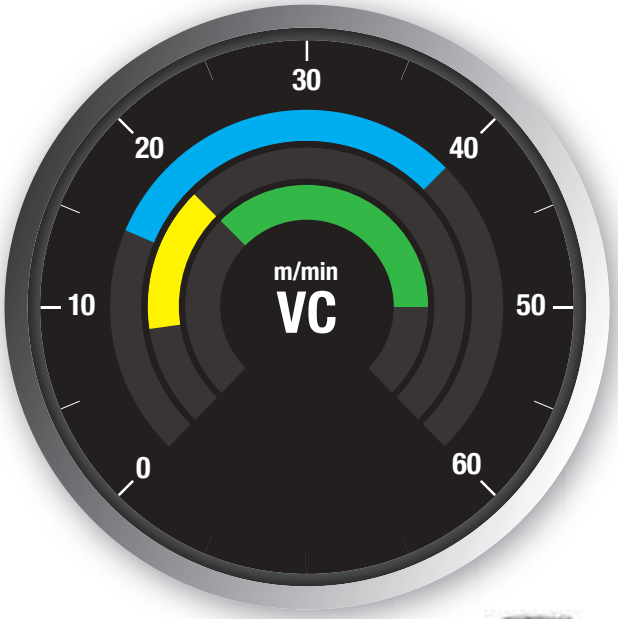
S-TAP Series

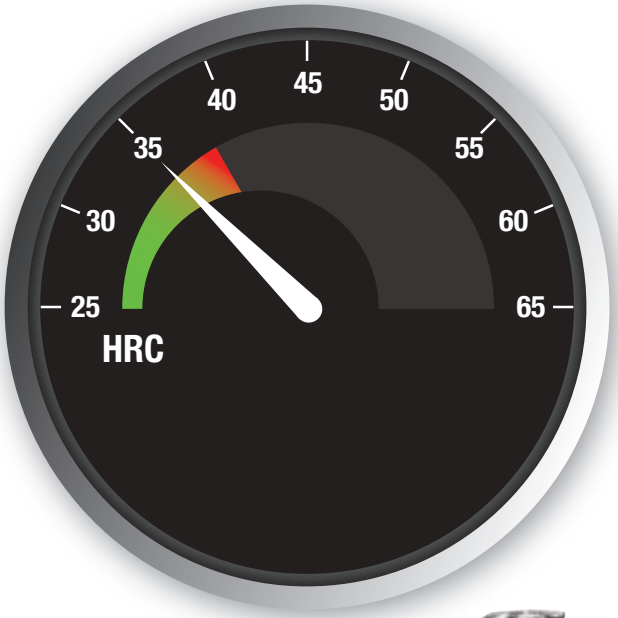
HSSE cutting tap

Steam oxide treatment

General purpose tapping in steels and stainless steels

M A.134 | MF A.230 | UNC A.268 | UNF A.279 | BSW A.325 | BSF A.329 | BA A.333 | G A.338
Rc (PT) A.350





A V PM

A-XPF Series

First choice in quality and performance

Powder metal forming tap for through & blind holes

Multilayer V coating: extreme wear resistance

High speed tapping in general steels, aluminium, stainless steels

M MF

A.190 A.249

A V HSS-Co

S-XPF Series

First choice in quality and performance

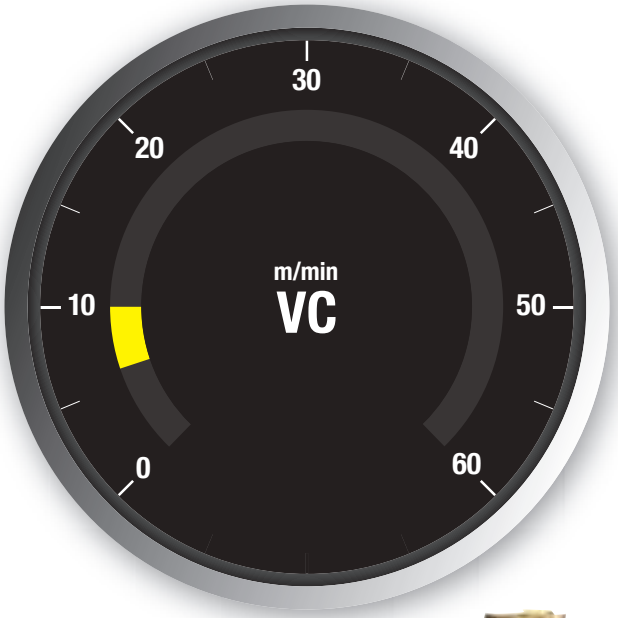
HSSE forming tap for through & blind holes

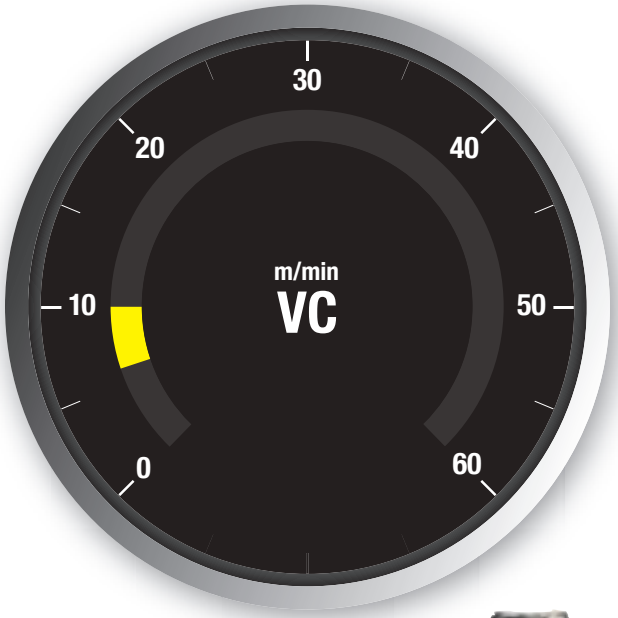
Multilayer V coating: extreme wear resistance

For general steels, stainless steels, aluminium

M MF UNC UNF G

A.192 A.251 A.273 A.282 A.346





TiN HSSE

CC-NEO-SFT

HSSE spiral-fluted cutting tap for blind holes

TIN coating

For general steels, stainless steels and aluminium

Variable helix for better chip evacuation

M A.159 | MJ A.284

CrN HSSE

CC Series

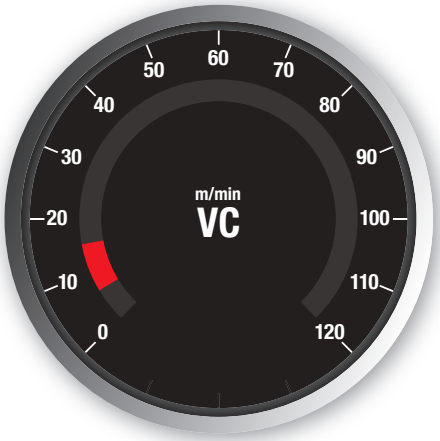
HSSE cutting tap

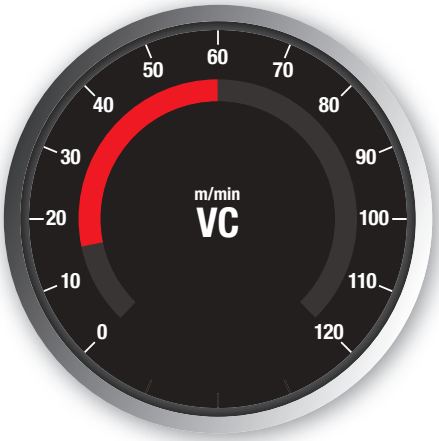
CrN coating

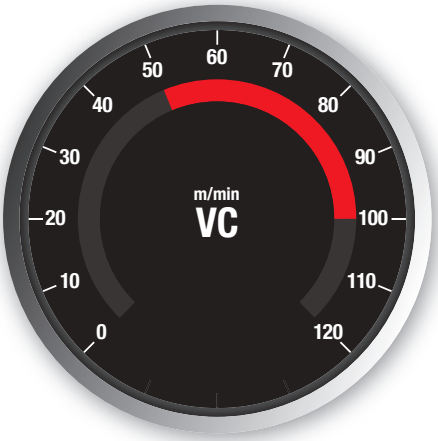
For general steels, stainless steels and aluminium

Developed for rigid tapping on CNC machines

M A.157 | MF A.235 | UNJC A.292 | UNJF A.303 | EG M A.308 | EG UNJF A.319 | G A.342







NI-OX HSSE

GG-MT

HSSE straight flute cutting tap for blind and through holes

NiOx coating

For cast iron

M MF G

A.183 A.248 A.344

V PM

VP-DC

Powder metal straight flute cutting tap for through and blind holes

Multilayer V coating

For cast iron and aluminium cast

M MF UNC UNF G

A.172 A.239 A.272 A.281 A.343

A FX CARBIDE

A-CHT

First choice in quality and performance

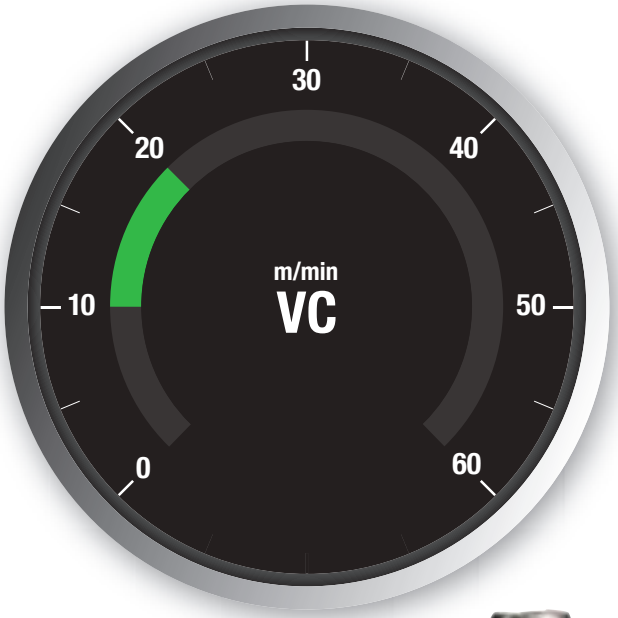
Carbide straight flute cutting tap for through and blind holes

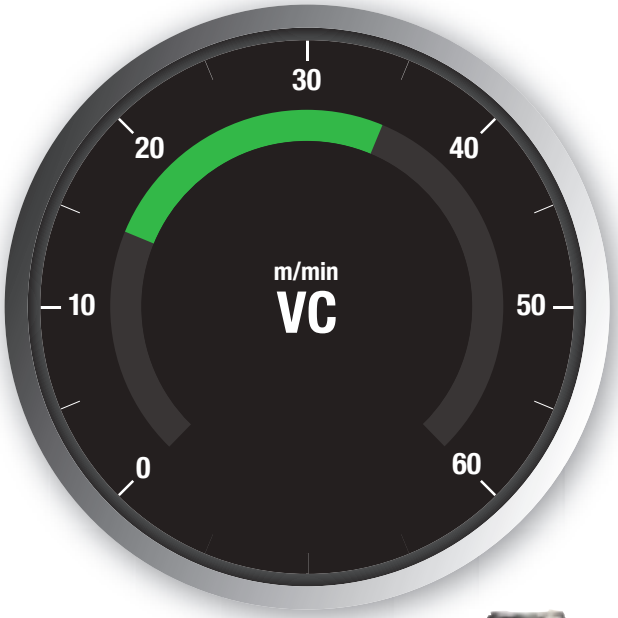
TiAlN coating
For cast iron and aluminium cast

Centre through or side through coolant

M MF

A.177 A.242





HSSE

AL Series

HSSE cutting tap

Bright finish

For aluminium and cast aluminium

M A.162 | MF A.237

CrN | HSSE

CC Series

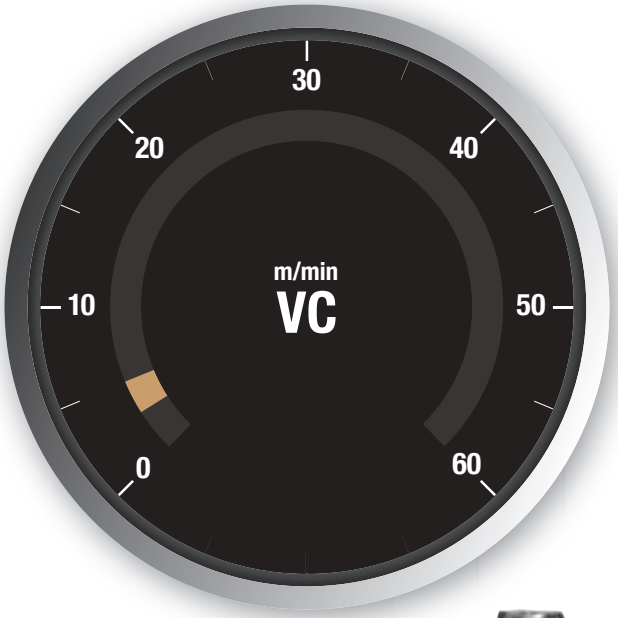
HSSE cutting tap

CrN coating

For general steels, stainless steels and aluminium

Developed for rigid tapping on CNC machines

M A.157 | MF A.235 | UNJC A.292 | UNJF A.303 | EG M A.308 | EG UNJF A.319 | G A.342



V PM

V-TI Series

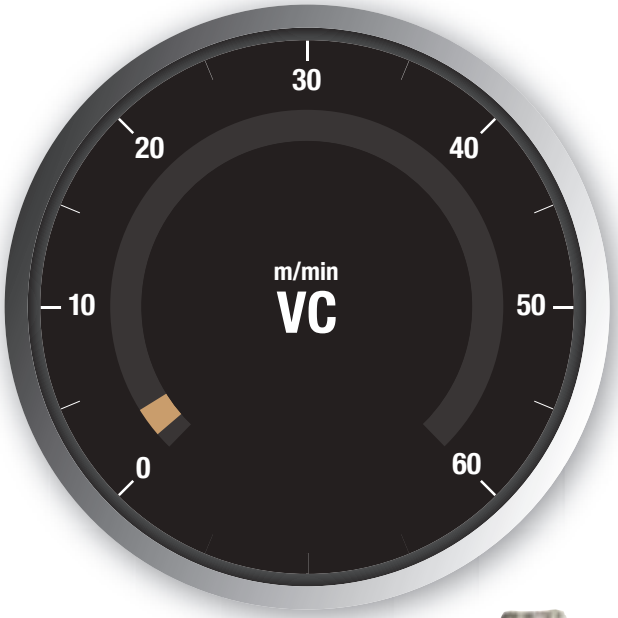
Powder metal low spiral-fluted cutting tap for blind holes

Multilayer V coating

For Titanium alloys

M MJ UNJC UNJF

A.164 A.285 A.293 A.304



HR PM

WHR-NI Series

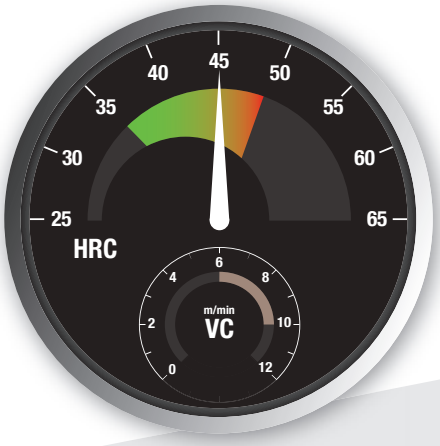
Powder metal low spiral-fluted cutting tap for blind holes

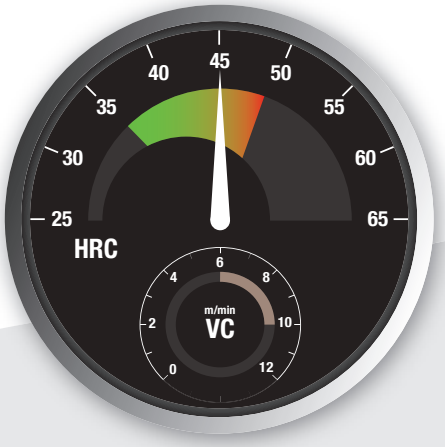
HR coating

For Nickel-based alloys including Inconel 718

M UNJC UNJF

A.166 A.295 A.306





OX PM

H-TAP

Powder metal low spiral-fluted cutting tap for blind holes

Steam oxide treatment

For hardened steels up to **45 HRC**

M A.168 | MF A.238 | UNJC A.296 | UNJF A.307 | EG MJ A.312

EG UNJC A.316 | EG UNJF A.321

V PM

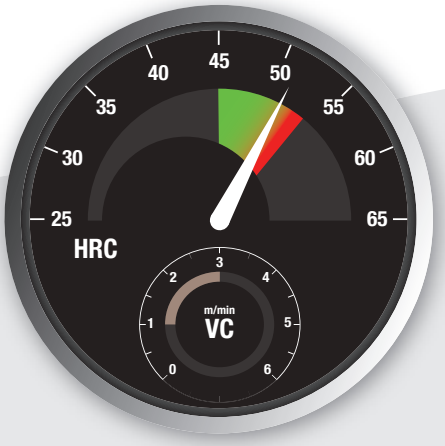
VP-H

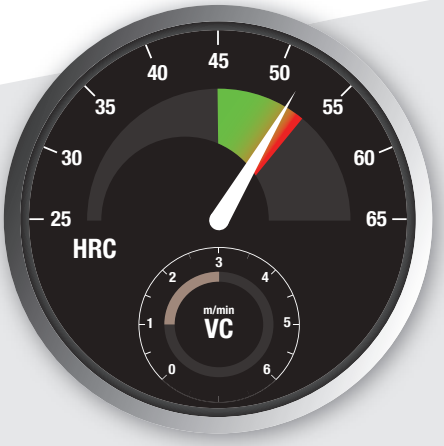
Powder metal low spiral-fluted cutting tap for blind holes

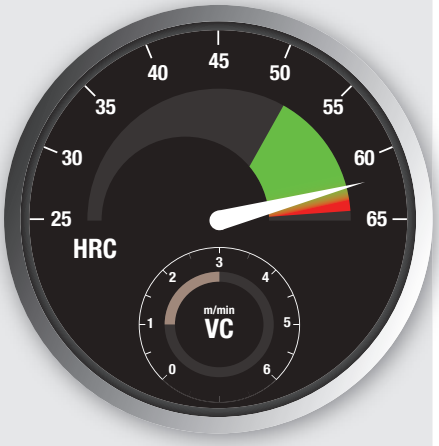
Multilayer V coating

For hardened steels up to **45 HRC**

M A.169







V XPM

V-XPM-HT

Powder metal straight flute cutting tap for through and blind holes

Multilayer V coating

For hardened steels up to **52 HRC**

M

A.186

V CARBIDE

WH55-OT

Carbide straight flute cutting tap for blind and through holes

Multilayer V coating

For hardened steels up to **55 HRC**

M

A.187

V CARBIDE

VX-OT

Carbide straight flute cutting tap for blind and through holes

Multilayer V coating

For hardened steels up to **62 HRC**

M G

A.189 A.345

SELECTION CHART

Threading | Selection chart | By material

Threading | Cutting taps | Through hole

			Tolerance				A-brand	Product series	M	MF	UNC	UNF	MJ	UNJC	UNJF	EG-M	EG-MJ	EG-UNJC
-		FORM B	6HX	PM	-	V	A	A-POT	A.88	A.215	A.264	A.275						
-		FORM B	6HX	PM		V	A	A-OIL-POT	A.89	A.216								
-		FORM B	**6GX**	PM	-	V	A	A-POT 6GX	A.90	A.217								
-		FORM B	**7GX**	PM	-	V	A	A-POT 7GX	A.91									
-		FORM B	**6H +0.1**	PM	-	V	A	A-POT +0.1	A.92									
-		FORM B	6HX	PM	-	V	A	A-LT-POT	A.93									
-		FORM B	6HX	PM	-	V	A	A-POT-LH	A.94									
-		FORM B	6HX	PM	-	V	A	A-POT-HB Weldon	A.95									
-		FORM B	6H	HSSE	-	OX		S-POT	A.96	A.218	A.265	A.276						
-		FORM B	**6G**	HSSE	-	OX		S-POT 6G	A.97	A.219								
-		FORM B	**7G**	HSSE	-	OX		S-POT 7G	A.98									
-		FORM B	**6H +0.1**	HSSE	-	OX		S-POT +0.1	A.99									
-		FORM B	6H	HSSE	-	OX		S-LT-POT	A.100									
-		FORM B	6H	HSSE	-	OX		S-POT-LH	A.101									
-		FORM B	6H	HSSE	-	OX		S-POT-HB Weldon	A.102									
-		FORM B	6H	HSSE	-	OX		VA-POT	A.103	A.220	A.266	A.277		A.286	A.297			
-		FORM B	**6G**	HSSE	-	OX		VA-POT 6G	A.104									
-		FORM B	6HX	PM	-	V		Z-POT	A.105	A.221								
-		FORM B	6HX	PM		V		Z-OIL-POT	A.106									
-		FORM B	6H	HSSE	-	-		POT	A.107	A.222								
-		FORM B	6H	HSSE	-	TiN		TIN-POT	A.109									
-		FORM B	6H	HSSE	-	TiCN		TICN-POT	A.110									
-		FORM B	6HX	HSSE	-	CrN		CC-POT	A.111	A.223								
-		FORM B	6HX	HSSE	-	CrN		CC-LT-POT	A.112									
-		FORM A	6H	HSSE	-	TiN		HS-RFT-TIN	A.113									
-		FORM B	6H	HSSE	-	-		AL-POT	A.114									
-		FORM A	6H	HSSE	-	V		US-AL-RFT	A.115									
-		FORM B	6H	PM	-	V		V-TI-POT	A.116					A.287	A.298			
-		FORM B	6H	PM	-	-		E-(HL)-POT	A.117					A.288	A.299		A.309	A.313
-		FORM B	6HX	PM	-	HR		WHR-NI-POT	A.118					A.289	A.300			
-		FORM B	6H	PM	-	-		CPM-POT	A.119									
-		FORM B	6H	PM	-	OX		H-(HL)-POT	A.120	A.224				A.290	A.301		A.310	A.314
-		FORM B	6HX	PM	-	V		VP-H-POT	A.121									
-		FORM B	6HX	PM		V		VPO-H-POT	A.122									

EG-UNJF	BSW	BSF	BA	G	Rc	NPT	PG	P				M	K		N		S		H			
								C <0,2%	0,25 < C <0,4	0,25<C <0,4	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
	A.322	A.326	A.330	A.334				15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
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	A.323	A.327	A.331	A.335				15-24	10-15	10-15	8-13	8-16		10-15								
								15-24	10-15	10-15	8-13	8-16		10-15								
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				A.336				12-20	8-12	8-12	8-12			8-12	15-25	15-20						
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								15-25	15-25	10-25	10-25	6-15			20-40							
								15-25	15-25	10-25	10-25	6-15			20-40							
								27-32	27-32	22-27	22-27	15-20			50-100	40-100						
															15-25	15-20						
															100-400	100-400						
																	4-6					
A.317																		2-4				
																		2-4				
										8-13				10-15					6-10	6-10		
A.318										8-13				10-15			4-6	2-4	6-10	6-10		
										8-13				10-15			4-6	2-4	6-10	6-10		
										8-13				10-15			4-6	2-4	6-10	6-10		

SELECTION CHART

Threading | Selection chart | By material

Threading | Cutting taps | Blind Hole

			Tolerance				A-brand	Product series	M	MF	UNC	UNF	MJ	UNJC	UNJF	EG-M	EG-MJ	EG-UNJC
	-	FORM C	6HX	PM	-	V	A	A-SFT	A.123	A.225	A.267	A.278						
	-	FORM C	6HX	PM		V	A	A-OIL-SFT	A.124	A.226								
	-	FORM C	**6GX**	PM	-	V	A	A-SFT 6GX	A.125	A.227								
	-	FORM C	**7GX**	PM	-	V	A	A-SFT 7GX	A.126									
	-	FORM C	**6H +0.1**	PM	-	V	A	A-SFT +0.1	A.127									
	-	**FORM E**	6HX	PM	-	V	A	A-SFT FORM E	A.128									
	-	FORM C	6HX	PM	-	V	A	A-LT-SFT	A.129									
	-	FORM C	6HX	PM	-	V	A	A-SFT-LH	A.130									
	-	FORM C	6HX	PM	-	V	A	A-SFT-HB Weldon	A.131									
	-	FORM C	6HX	CAR-BIDE		FX	A	A-CSF OIL	A.132	A.228								
	-	**FORM E**	6HX	CAR-BIDE		FX	A	A-CSF OIL FORM E	A.133	A.229								
	-	FORM C	6H	HSSE	-	OX		S-SFT	A.134	A.230	A.268	A.279						
	-	FORM C	**6G**	HSSE	-	OX		S-SFT 6G	A.135	A.231								
	-	FORM C	**7G**	HSSE	-	OX		S-SFT 7G	A.136									
	-	FORM C	**6H +0.1**	HSSE	-	OX		S-SFT +0.1	A.137									
	-	**FORM E**	6H	HSSE	-	OX		S-SFT FORM E	A.138									
	-	FORM C	6H	HSSE	-	OX		S-LT-SFT	A.139									
	-	FORM C	6H	HSSE	-	OX		S-SFT-LH	A.140									
	-	FORM C	6H	HSSE	-	OX		S-SFT-HB Weldon	A.141									
	-	FORM C	6H	HSSE	-	OX		VA-SFT	A.142	A.232	A.269	A.280		A.291	A.302			
	-	FORM C	**6G**	HSSE	-	OX		VA-SFT 6G	A.143									
	-	**FORM E**	6H	HSSE	-	OX		VA-SFT FORM E	A.144									
	-	FORM C	6H	PM	-	V		Z-SFT	A.145	A.233								
	-	FORM C	6H	PM		V		Z-OIL-SFT	A.146									
	-	FORM C	6H	HSSE	-	-		SFT	A.147	A.234								
	-	FORM C	6H	HSSE	-	TiN		TIN-SFT	A.149									
	-	FORM C	6H	HSSE	-	V		TICN-SFT	A.150									
	-	FORM C	6HX	HSSE	-	OX		HXL-SFT	A.151		A.270							
	-	FORM C	6HX	HSSE		OX		OIL-HXL-SFT	A.152									
	-	FORM C	6HX	HSSE	-	OX		VXL-SFT	A.153		A.271							
	-	FORM C	6HX	HSSE		OX		OIL-VXL-SFT	A.154									
	-	FORM C	6H	HSSE	-	OX		WM-SFT	A.155									
	-	FORM C	6H	HSSE	-	-		SH-SFT	A.156									
	-	FORM C	6HX	HSSE	-	CrN		CC-(HL)-SFT	A.157	A.235				A.292	A.303	A.308		

EG-UNJF	BSW	BSF	BA	G	Rc	NPT	PG	P				M	K		N		S		H			
								C <0,2%	0,25 < C <0,4	0,25<C <0,4	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
	A.324	A.328	A.332	A.337				15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-25	15-25	10-25	8-20	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
								15-60	15-60	10-60	8-30	8-20			15-35	15-35	5-10		8-20			
													50-100	30-60		20-60						
													50-100	30-60		20-60						
	A.325	A.329	A.333	A.338				10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
				A.339				10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-15	8-14	8-14	7-11	7-12		7-14								
								10-25	10-25	10-25	8-20	8-20			15-35	15-35	5-10		8-15			
								10-25	10-25	10-25	8-20	8-20			15-35	15-35	5-10		8-15			
				A.340				8-13	7-12	7-12	6-9			6-8	10-20	10-15						
								8-13	7-12	7-12	6-9	5-8		7-12	10-20	10-15						
								8-13	7-12	7-12	6-9	5-8		7-12	10-20	10-15						
								8-13	7-12	7-12	6-9	5-8	7-12	7-12					3-5			
								8-13	7-12	7-12	6-9	5-8	7-12	7-12					3-5			
								8-13	7-12	7-12	6-9	5-8							3-5			
								8-13	7-12	7-12	6-9	5-8							3-5			
								8-13	7-12	7-12	6-9											
				A.341					7-12	7-12	6-9		7-12	6-8		10-15						
A.319				A.342				15-25	15-25	10-25	10-25	6-10			15-35							

SELECTION CHART

Threading | Cutting taps | Blind Hole

			Tolerance				A-brand	Product series	M	MF	UNC	UNF	MJ	UNJC	UNJF	EG-M	EG-MJ	EG-UNJC
-	FORM C	6HX	HSSE	-	CrN		CC-LT-SFT	A.158									
-	FORM C	6HX	HSSE	-	TiN		CC-NEO-SFT	A.159				A.284					
-	FORM C	6HX	HSSE	-	OX		SUS-SFT	A.160	A.236								
-	FORM C	6H	HSSE	-	TiN		HS-SFT-TIN	A.161									
-	FORM C	6H	HSSE	-	-		AL-SFT	A.162	A.237								
-	FORM C	6H	HSSE	-	V		US-AL-SFT	A.163									
-	FORM C	6H	PM	-	V		V-TI-SFT	A.164				A.285	A.293	A.304			
-	FORM C	6H	PM	-	-		E-(HL)-SFT	A.165					A.294	A.305		A.311	A.315
-	FORM C	6HX	PM	-	HR		WHR-NI-SFT	A.166					A.295	A.306			
-	FORM C	6H	PM	-	-		CPM-SFT	A.167									
-	FORM C	6H	PM	-	OX		H-(HL)-SFT	A.168	A.238				A.296	A.307		A.312	A.316
-	FORM C	6HX	PM	-	V		VP-H-SFT	A.169									
-	FORM C	6HX	PM		V		VPO-H-SFT	A.170									
-	FORM C	6H	HSSE		V		V-EM-SFT	A.171									

EG-UNJF	BSW	BSF	BA	G	Rc	NPT	PG	P				M	K		N		S		H			
								C <0,2%	0,25 < C <0,4	0,25<C <0,4	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
								15-25	15-25	10-25	10-25	6-10			15-35							
								15-25	15-25	10-25	10-25	6-10			15-35							
												6-10										
								27-32	27-32	22-27	22-27	15-20			50-100	40-100						
															10-20	10-15						
															100-400	100-400						
																	3-5					
A.320																		1-3				
																		1-3				
										7-12	6-12		7-12	7-12					4-8	4-8		
A.321										7-12	6-12			7-12			3-5	1-3	4-8	4-8		
										7-12	6-12			7-12			3-5	1-3	4-8	4-8		
										7-12	6-12			7-12			3-5	1-3	4-8	4-8		
																10-15						

SELECTION CHART

Threading | Selection chart | By material

Threading | Cutting taps | Blind & Through hole

			Tolerance				A-brand	Product series	M	MF	UNC	UNF	MJ	UNJC	UNJF	EG-M	EG-MJ	EG-UNJC
		FORM C	6HX	PM	-	V		VP-DC-MT	A.172	A.239	A.272	A.281						
		FORM E	6HX	PM	-	V		VP-DC-MT FORM E	A.173									
	-	FORM C	6HX	PM		V		VPO-DC-MT Center	A.174	A.240								
-		FORM C	6HX	PM		V		VPO-DC-MT Side	A.175	A.241								
	-	**FORM E**	6HX	PM		V		VPO-DC-MT FORM E	A.176									
	-	FORM C	6HX	CAR-BIDE		FX	A	A-CHT OIL Center	A.177	A.242								
-		FORM C	6HX	CAR-BIDE		FX	A	A-CHT OIL Side	A.178	A.243								
	-	**FORM E**	6HX	CAR-BIDE		FX	A	A-CHT OIL FORM E	A.179	A.244								
	-	FORM C	6HX	CAR-BIDE		FX		OIL-C-MT Center	A.180	A.245								
-		FORM C	6HX	CAR-BIDE		FX		OIL-C-MT Side	A.181	A.246								
	-	**FORM E**	6HX	CAR-BIDE		FX		OIL-C-MT FORM E	A.182	A.247								
		FORM C	6HX	HSSE	-	NI-OX		GG-MT	A.183	A.248								
		FORM C	6HX	HSSE		OX		OIL-TXL-MT	A.184									
		FORM C	6H	HSSE	-	OX		EX-MCT	A.185									
		FORM C	6HX	XPM	-	V		V-XPM-HT	A.186									
		FORM C	6HX	CAR-BIDE	-	V		WH55-OT	A.187									
-		**FORM D**	6HX	CAR-BIDE	-	V		WH55-OT FORM D	A.188									
		FORM C	6HX	CAR-BIDE	-	V		VX-OT	A.189									
		FORM C	-	PM	-	V	A	A-TPT										
		FORM C	-	HSSE	-	OX		S-TPT										
		FORM C	-	HSSE	-	-		NPT										
		FORM C	-	HSSE	-	-		PG										

EG-UNJF	BSW	BSF	BA	G	Rc	NPT	PG	P				M	K		N		S		H			
								C <0,2%	0,25 < C <0,4	0,25<C <0,4	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
				A.343						10-25	10-20		15-60	15-40		25-70			8-20	8-20		
										10-25	10-20		15-60	15-40		25-70			8-20	8-20		
										10-25	10-20		15-60	15-40		25-70			8-20	8-20		
										10-25	10-20		15-60	15-40		25-70			8-20	8-20		
										10-25	10-20		15-60	15-40		25-70			8-20	8-20		
													50-100	30-60		20-60						
													50-100	30-60		20-60						
													50-100	30-60		20-60						
													50-100	30-60		20-60						
													50-100	30-60		20-60						
													50-100	30-60		20-60						
				A.344									10-15	7-12								
								8-13	7-12	7-12	6-9		10-15	7-12					3-5			
								8-13	7-12	7-12	6-9		10-15	7-12		10-15						
																					1-3	
																					2-4	1-3
																					2-4	1-3
				A.345																		1-3
					A.349			5-10	5-10	5-10	5-10				5-10	10-15						
					A.350			5-10	5-10	5-10	5-10				5-10	10-15						
						A.351		3-6	3-6	2-5	2-5		2-5	4-8	5-10	10-15						
							A.352	8-13	7-12	6-9				7-12	10-20	10-15						

SELECTION CHART

Threading | Selection chart | By material

Threading | Forming taps | Blind & Through hole

			Tolerance				A-brand	Product series	M	MF	UNC	UNF	MJ	UNJC	UNJF	EG-M	EG-MJ	EG-UNJC
		FORM C	6HX	PM	-	V	A	A-XPF	A.190	A.249								
		FORM C	6HX	PM		V	A	A-OIL-XPF	A.191	A.250								
		FORM C	6HX	HSS-Co	-	V	A	S-XPF	A.192	A.251	A.273	A.282						
		FORM C	6HX	HSS-Co		V	A	S-OIL-XPF	A.193	A.252	A.274	A.283						
		FORM C	**6GX**	HSS-Co	-	V	A	S-XPF 6GX	A.194	A.253								
		FORM C	**6GX**	HSS-Co		V	A	S-OIL-XPF 6GX	A.195	A.254								
		FORM C	**7GX**	HSS-Co	-	V	A	S-XPF 7GX	A.196									
		FORM C	**6H +0.1**	HSS-Co	-	V	A	S-XPF +0.1	A.197									
-		**FORM D**	6HX	HSS-Co	-	V	A	S-XPF FORM D	A.198	A.255								
	-	**FORM E**	6HX	HSS-Co	-	V	A	S-XPF FORM E	A.199	A.256								
	-	**FORM E**	6HX	HSS-Co		V	A	S-OIL-XPF FORM E	A.200	A.257								
		FORM C	6HX	HSS-Co	-	V	A	S-LT-XPF	A.201									
		FORM C	6HX	HSS-Co		V	A	S-OIL-LT-XPF	A.202	A.258								
		FORM C	6HX	HSS-Co	-	V	A	S-XPF-LH	A.203									
		FORM C	6HX	HSS-Co	-	V	A	S-XPF-HB Weldon	A.204									
		FORM C	6HX	HSS-Co	-	V	A	S-XPF-GL	A.205	A.259								
		FORM C	**6GX**	HSS-Co	-	V	A	S-XPF-GL 6GX	A.206	A.260								
		FORM C	6HX	CAR-BIDE		V	A	C-OIL-XPF	A.207	A.261								
		FORM C	6HX	HSS	-	V		R-XPF	A.208									
-		FORM D	6HX	HSS	-	V		R-XPF FORM D	A.209									
		FORM C	**6GX**	HSS	-	V		R-XPF 6GX	A.210									
		FORM C	6HX	HSS-Co	-	V		V-NRT	A.211	A.262								
		FORM C	**6GX**	HSS-Co	-	V		V-NRT 6GX	A.212									
-		**FORM D**	6HX	HSS-Co	-	V		V-NRT FORM D	A.213	A.263								
-		**FORM D**	**6GX**	HSS-Co	-	V		V-NRT 6GX FORM D	A.214									

EG-UNJF	BSW	BSF	BA	G	Rc	NPT	PG	P				M	K		N		S		H			
								C <0,2%	0,25 < C <0,4	0,25<C <0,4	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
				A.346				15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
				A.347				15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
				A.348				10-20	10-20	10-20	10-20	8-15			10-15	10-15						
								10-20	10-20	10-20	10-20	8-15			10-15	10-15						
								15-40	15-40	15-30	15-30	8-20			20-50	20-40			5-20			
									15-40	15-30	15-30	5-15			20-40	20-40						
									15-40	15-30	15-30	5-15			20-40	20-40						
									15-40	15-30	15-30	5-15			20-40	20-40						
								10-15	10-15	10-15	8-12	5-10			10-20	10-20						
								10-15	10-15	10-15	8-12	5-10			10-20	10-20						
								10-15	10-15	10-15	8-12	5-10			10-20	10-20						
								10-15	10-15	10-15	8-12	5-10			10-20	10-20						

SELECTION CHART

Threading | Thread Mills | Blind & Through hole

			Tolerance				A-brand	Product series	M	MF	UNC	UNF	MJ	UNJC	UNJF	EG-M	EG-MJ	EG-UNJC
		-	-	CARBIDE	-	SC		WX-ST-PNC-3P	A.356	A.356								
		-	-	CARBIDE	-	SC		WH-VM-PNC	A.357	A.357	A.360	A.360		A.360	A.360			
		-	-	CARBIDE	-	WX		WX-PNC	A.358	A.358	A.361	A.361						
		-	-	CARBIDE		WX		WXO-ST-PNC	A.359	A.359								

EG-UNJF	BSW	BSF	BA	G	Rc	NPT	PG	P				M	K		N		S		H			
								C <0,2%	0,25 < C <0,4	0,25<C <0,4	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
				A.362				60-90	60-90	60-90	30-60	60-90	50-100	50-70	50-100	50-100	20-60	20-60	30-60	30-60	30-60	
								60-90	60-90	60-90	30-60	60-90	50-100	50-70	50-100	50-100	20-60	20-60	30-60	30-60	30-60	
				A.363	A.364	A.365		50-75	50-75	40-70	15-30	20-40	50-100	50-65	50-70	65-130	20-60	20-60	15-30	15-30		
								80-120	80-120	80-120	80-120	40-80	50-100	50-65	50-70	65-130			60-100	60-100		

SELECTION CHART

Threading | Selection chart | By size

M

Product series			A-POT		A-OIL-POT		A-POT 6GX		A-POT 7GX		A-POT +0.1		A-LT-POT		A-POT-LH		A-POT-HB Weldon		S-POT		S-POT 6G		S-POT 7G		S-POT +0.1		S-LT-POT		S-POT-LH		S-POT-HB Weldon		VA-POT	
A-brand			A		A		A		A		A		A		A		A																	
Page			A.88		A.89		A.90		A.91		A.92		A.93		A.94		A.95		A.96		A.97		A.98		A.99		A.100		A.101		A.102		A.103	
Ø		Ø	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	-	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	-	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376
1	0,25	0,75	•																•															
1,1	0,25	0,85	•																•															
1,2	0,25	0,95	•																•															
1,4	0,3	1,1	•																•															
1,6	0,35	1,25	•																•															
1,7	0,35	1,35	•																•															
1,8	0,35	1,45	•																•															
2	0,4	1,6	•				•		•				•						•		•		•				•						•	
2,2	0,45	1,75	•																•														•	
2,3	0,4	1,85	•																•															
2,5	0,45	2,05	•				•		•				•						•		•		•				•						•	
2,6	0,45	2,15	•																•															
3	0,5	2,5	•	•			•		•		•		•		•		•		•	•	•		•		•		•		•		•		•	•
3,5	0,6	2,9	•																•														•	
4	0,7	3,3	•	•			•		•		•		•		•		•		•	•	•		•		•		•		•		•		•	•
4,5	0,75	3,7	•																•															
5	0,8	4,2	•	•			•		•		•		•		•		•		•	•	•		•		•		•		•		•		•	•
5,5	0,9	4,6	•																•															
6	1	5	•	•	•		•		•		•		•	•	•		•		•	•	•		•		•		•	•	•		•		•	•
7	1	6	•	•															•	•														
8	1,25	6,8	•	•	•		•		•		•		•	•	•		•		•	•	•		•		•		•	•	•		•		•	•
9	1,25	7,8	•	•															•	•														
10	1,5	8,5	•	•	•		•		•		•		•	•	•		•		•	•	•		•		•		•	•	•		•		•	•
11	1,5	9,5		•																•														
12	1,75	10,2		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•
14	2	12		•		•								•		•		•		•		•		•		•		•		•		•		•
16	2	14		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•
18	2,5	15,5		•		•								•		•				•								•		•				•
20	2,5	17,5		•		•								•		•				•								•		•				•
22	2,5	19,5		•		•										•				•										•				•
24	3	21		•		•										•				•										•				•
27	3	24																																•
30	3,5	26,5																																•
33	3,5	29,5																																•
36	4	32																																•
39	4	35																																
42	4,5	37,5																																
45	4,5	40,5																																
48	5	43																																
52	5	47																																
56	5,5	50,5																																
Blind / through																																		
			V		V		V		V		V		V		V		V		OX		OX		OX		OX		OX		OX		OX		OX	
			PM		PM		PM		PM		PM		PM		PM		PM		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE	
			FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B		FORM B	
Tolerance			6HX		6HX		**6GX**		**7GX**		**6H +0.1**		6HX		6HX		6HX		6H		**6G**		**7G**		**6H +0.1**		6H		6H		6H		6H	
P			•		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
M			•		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•	
K																			•		•		•		•		•		•		•		•	
N			•		•		•		•		•		•		•		•																	
S			•		•		•		•		•		•		•		•																	
H			•		•		•		•		•		•		•		•																	

SELECTION CHART

Threading | Selection chart | By size

M

Product series	VA-POT 6G		Z-POT		Z-OIL-POT		POT		POT D352	TIN-POT		TICN-POT		CC-POT		CC-LT-POT		HS-RFT-TIN		AL-POT		US-AL-RFT JIS		V-TI-POT		E-POT		WHR-NI-POT		CPM-POT	
A-brand																															
Page	A.104		A.105		A.106		A.107		A108	A.109		A.110		A.111		A.112		A.113		A.114		A.115		A.116		A.117		A.118		A.119	
Ø	I	Ø	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 352	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	-	-	-	DIN 371	DIN 376	-	-	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376
1	0,25	0,75																													
1,1	0,25	0,85																													
1,2	0,25	0,95																													
1,4	0,3	1,1																													
1,6	0,35	1,25																													
1,7	0,35	1,35																													
1,8	0,35	1,45																													
2	0,4	1,6	•		•				•			•		•		•				•											
2,2	0,45	1,75																													
2,3	0,4	1,85																													
2,5	0,45	2,05	•		•				•			•				•		•				•									
2,6	0,45	2,15																													
3	0,5	2,5	•		•	•			•	•	•	•	•			•	•	•		•		•		•		•		•		•	
3,5	0,6	2,9							•			•																			
4	0,7	3,3	•		•	•			•	•	•	•	•			•	•	•		•		•		•		•		•		•	
4,5	0,75	3,7																													
5	0,8	4,2	•		•	•			•	•	•	•	•			•	•	•		•		•		•		•		•		•	
5,5	0,9	4,6																													
6	1	5	•		•	•	•		•	•	•	•	•			•	•	•		•		•		•		•		•		•	•
7	1	6																													
8	1,25	6,8	•		•	•	•		•	•	•	•	•			•	•	•		•		•		•		•		•		•	•
9	1,25	7,8																													
10	1,5	8,5	•		•	•	•		•	•	•	•	•			•	•	•		•		•		•		•		•		•	•
11	1,5	9,5																													
12	1,75	10,2		•		•		•			•		•		•	•		•			•	•			•		•		•		•
14	2	12		•		•		•			•		•		•						•										•
16	2	14		•		•		•			•		•		•						•										•
18	2,5	15,5				•		•			•		•		•						•										•
20	2,5	17,5				•		•			•		•		•						•										•
22	2,5	19,5				•		•			•		•		•																
24	3	21				•		•			•		•		•																
27	3	24				•		•			•				•																
30	3,5	26,5				•		•			•				•																
33	3,5	29,5						•																							
36	4	32						•																							
39	4	35																													
42	4,5	37,5																													
45	4,5	40,5																													
48	5	43																													
52	5	47																													
56	5,5	50,5																													
Blind / through																															
			OX		V		V		-	-		TIN		TICN		CrN		CrN		TIN		-		V		V		-		HR		-
			HSSE		PM		PM		HSSE	HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		PM		PM		PM		PM	
			FORM B		FORM B		FORM B		FORM B	FORM B		FORM B		FORM B		FORM B		FORM A		FORM B		FORM A		FORM B		FORM B		FORM B		FORM B	
Tolerance			6G		6HX		6HX		6H	6H		6H		6HX		6HX		6H		6H		6H		6H		6H		6HX		6H	
P			•		•		•		•	•		•		•		•		•												•	
M			•		•		•			•		•		•		•		•													
K			•						•	•		•																		•	
N					•		•		•	•		•		•		•		•		•		•									
S					•		•			•		•												•		•		•			
H					•		•																							•	

SELECTION CHART

Threading | Selection chart | By size

M

Product series			H-POT		VP-H-POT		VPO-H-POT		A-SFT		A-OIL-SFT		A-SFT 6GX		A-SFT 7GX		A-SFT +0.1		A-SFT FORM E		A-LT-SFT		A-SFT-LH		A-SFT-HB Weldon		A-CSF OIL		A-CSF OIL FORM E		S-SFT		S-SFT 6G	
A-brand									A		A		A		A		A		A		A		A		A		A		A					
Page			A.120		A.121		A.122		A.123		A.124		A.125		A.126		A.127		A.128		A.129		A.130		A.131		A.132		A.133		A.134		A.135	
Ø	I	Ø	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	-	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376
1	0,25	0,75							•																						•			
1,1	0,25	0,85							•																						•			
1,2	0,25	0,95							•																						•			
1,4	0,3	1,1							•																						•			
1,6	0,35	1,25							•																						•			
1,7	0,35	1,35							•																						•			
1,8	0,35	1,45							•																						•			
2	0,4	1,6	•		•				•				•		•						•										•		•	
2,2	0,45	1,75							•																						•			
2,3	0,4	1,85							•																						•			
2,5	0,45	2,05	•		•				•				•		•						•										•		•	
2,6	0,45	2,15							•																						•			
3	0,5	2,5	•		•				•	•			•		•		•		•		•		•		•						•	•	•	
3,5	0,6	2,9							•																						•			
4	0,7	3,3	•		•				•	•			•		•		•		•		•		•		•						•	•	•	
4,5	0,75	3,7							•																						•			
5	0,8	4,2	•		•				•	•			•		•		•		•		•		•		•		•		•		•	•	•	
5,5	0,9	4,6							•																						•			
6	1	5	•		•		•		•	•	•		•		•		•		•		•	•	•		•		•		•		•	•	•	
7	1	6							•	•																					•	•		
8	1,25	6,8	•		•		•		•	•	•		•		•		•		•		•	•	•		•		•		•		•	•	•	
9	1,25	7,8							•	•																					•	•		
10	1,5	8,5	•		•		•		•	•	•		•		•		•		•		•	•	•		•		•		•		•	•	•	
11	1,5	9,5								•																						•		
12	1,75	10,2		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•		•
14	2	12		•		•		•		•		•								•		•		•		•						•		•
16	2	14		•		•		•		•		•		•		•		•		•		•		•		•						•		•
18	2,5	15,5		•		•		•		•		•										•		•								•		
20	2,5	17,5		•		•		•		•		•										•		•								•		
22	2,5	19,5				•		•		•		•												•								•		
24	3	21				•		•		•		•												•								•		
27	3	24				•		•				•																						
30	3,5	26,5				•		•				•																						
33	3,5	29,5				•		•				•																						
36	4	32				•		•				•																						
39	4	35										•																						
42	4,5	37,5										•																						
45	4,5	40,5										•																						
48	5	43										•																						
52	5	47										•																						
56	5,5	50,5										•																						
Blind / through																																		
			OX		V		V		V		V		V		V		V		V		V		V		V		FX		FX		OX		OX	
			PM		PM		PM		PM		PM		PM		PM		PM		PM		PM		PM		PM		CARBIDE		CARBIDE		HSSE		HSSE	
			FORM B		FORM B		FORM B		FORM C		FORM C		FORM C		FORM C		FORM C		**FORM E**		FORM C		FORM C		FORM C		FORM C		**FORM E**		FORM C		FORM C	
Tolerance			6H		6HX		**6H**		6HX		6HX		**6GX**		**7GX**		**6H +0.1**		6HX		6HX		6HX		6HX		6HX		6HX		6H		**6G**	
P			•		•		•		•		•		•		•		•		•		•		•		•						•		•	
M									•		•		•		•		•		•		•		•		•						•		•	
K			•		•		•																				•		•		•		•	
N									•		•		•		•		•		•		•		•		•		•		•					
S			•		•		•		•		•		•		•		•		•		•		•		•									
H			•		•		•		•		•		•		•		•		•		•		•		•									

SELECTION CHART

Threading | Selection chart | By size

M

Product series	S-SFT 7G		S-SFT +0.1		S-SFT FORM E		S-LT-SFT		S-SFT-LH		S-SFT-HB Weldon		VA-SFT		VA-SFT 6G		VA-SFT FORM E		Z-SFT		Z-OIL-SFT		SFT		SFT D352	TIN-SFT		TICN-SFT		HXL-SFT
A-brand																														
Page	A.136		A.137		A.138		A.139		A.140		A.141		A.142		A.143		A.144		A.145		A.146		A.147		A.148	A.149		A.150		A.151
Ø	I	Ø	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	-	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 352	DIN 371	DIN 376	DIN 371	DIN 376	
1	0,25	0,75																												
1,1	0,25	0,85																												
1,2	0,25	0,95																												
1,4	0,3	1,1																												
1,6	0,35	1,25																												
1,7	0,35	1,35																												
1,8	0,35	1,45																												
2	0,4	1,6	•						•						•		•				•				•			•		•		
2,2	0,45	1,75													•																
2,3	0,4	1,85																													
2,5	0,45	2,05	•						•						•		•				•				•			•				
2,6	0,45	2,15																													
3	0,5	2,5	•		•		•		•		•		•	•	•		•		•	•			•	•	•	•	•	•			
3,5	0,6	2,9											•										•			•					
4	0,7	3,3	•		•		•		•		•		•	•	•		•		•	•			•	•	•	•	•	•			
4,5	0,75	3,7																													
5	0,8	4,2	•		•		•		•		•		•	•	•		•		•	•			•	•	•	•	•	•			
5,5	0,9	4,6																													
6	1	5	•		•		•		•	•	•		•	•	•		•		•	•	•		•	•	•	•	•	•			
7	1	6																													
8	1,25	6,8	•		•		•		•	•	•		•	•	•		•		•	•	•		•	•	•	•	•	•			
9	1,25	7,8																													
10	1,5	8,5	•		•		•		•	•	•		•	•	•		•		•	•	•		•	•	•	•	•	•			
11	1,5	9,5																													
12	1,75	10,2		•		•		•		•		•		•		•		•		•		•		•			•		•		
14	2	12		•		•		•		•		•		•		•		•		•		•		•			•		•		
16	2	14		•		•		•		•		•		•		•		•		•		•		•			•		•		
18	2,5	15,5						•		•				•						•		•		•			•		•		
20	2,5	17,5						•		•				•						•		•		•			•		•		•
22	2,5	19,5								•				•						•				•			•		•		
24	3	21								•				•						•				•			•		•		•
27	3	24												•						•				•			•				•
30	3,5	26,5												•						•				•			•				•
33	3,5	29,5												•										•							•
36	4	32												•										•							•
39	4	35																													•
42	4,5	37,5																													•
45	4,5	40,5																													
48	5	43																													•
52	5	47																													•
56	5,5	50,5																													•
Blind / through																															
			OX		OX		OX		OX		OX		OX		OX		OX		V		V		-		-	TIN		TICN		OX
			HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		PM		PM		HSSE		HSSE	HSSE		HSSE		HSSE
			FORM C		FORM C		**FORM E**		FORM C		FORM C		FORM C		FORM C		**FORM E**		FORM C		FORM C		FORM C		FORM C	FORM C		FORM C		FORM C
Tolerance			**7G**		**6H+0.1**		6H		6H		6H		6H		**6G**		6H		6H		6H		6H		6H	6H		6H		6HX
P			•		•		•		•		•		•		•		•		•		•		•		•	•		•		•
M			•		•		•		•		•		•		•		•		•		•					•		•		•
K			•		•		•		•		•		•		•		•						•		•	•		•		•
N																			•		•		•		•	•		•		
S																			•		•					•		•		
H																			•		•									•

SELECTION CHART

Threading | Selection chart | By size

M

Product series			OIL-HXL-SFT	VXL-SFT	OIL-VXL-SFT	WM-SFT		SH-SFT		CC-SFT		CC-LT-SFT		CC-NEO-SFT		SUS-SFT		HS-SFT-TIN JIS	AL-SFT		US-AL-SFT JIS	V-TI-SFT		E-SFT		WHR-NI-SFT		CPM-SFT	
A-brand																													
Page			A.152	A.153	A.154	A.155		A.156		A.157		A.158		A.159		A.160		A.161	A.162		A.163	A.164		A.165		A.166		A.167	
Ø	I	Ø				DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	-	DIN 371	DIN 376	DIN 371	DIN 376		DIN 371	DIN 376		DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376
1	0,25	0,75																											
1,1	0,25	0,85																											
1,2	0,25	0,95																											
1,4	0,3	1,1																											
1,6	0,35	1,25																	•			•							
1,7	0,35	1,35																											
1,8	0,35	1,45																											
2	0,4	1,6								•		•		•		•			•			•							
2,2	0,45	1,75														•			•										
2,3	0,4	1,85																											
2,5	0,45	2,05								•		•		•		•			•			•							
2,6	0,45	2,15																											
3	0,5	2,5						•		•	•	•		•		•		•	•		•	•		•		•		•	
3,5	0,6	2,9														•			•										
4	0,7	3,3				•		•		•	•	•		•		•		•	•		•	•		•		•		•	
4,5	0,75	3,7																											
5	0,8	4,2				•		•		•	•	•		•		•		•	•		•	•		•		•		•	
5,5	0,9	4,6																											
6	1	5				•		•		•	•	•		•		•		•	•		•	•		•		•		•	
7	1	6																											
8	1,25	6,8				•		•		•	•	•		•		•		•	•		•	•		•		•		•	•
9	1,25	7,8																											
10	1,5	8,5				•		•		•	•	•		•		•		•	•		•	•		•		•		•	•
11	1,5	9,5																											
12	1,75	10,2					•		•		•		•		•		•	•		•	•		•		•		•		•
14	2	12					•		•		•				•		•			•									•
16	2	14					•		•		•				•		•			•									•
18	2,5	15,5					•		•		•						•			•									•
20	2,5	17,5	•	•	•		•		•		•						•			•									•
22	2,5	19,5									•						•												
24	3	21	•	•	•						•						•												
27	3	24	•	•	•						•																		
30	3,5	26,5	•	•	•						•																		
33	3,5	29,5	•	•	•																								
36	4	32	•	•	•						•																		
39	4	35	•	•	•																								
42	4,5	37,5	•	•	•																								
45	4,5	40,5																											
48	5	43	•	•	•																								
52	5	47	•	•	•																								
56	5,5	50,5	•	•	•																								
Blind / through																													
			OX	OX	OX	OX		-		CrN		CrN		TIN		OX		TIN	-		V	V		-		HR		-	
			HSSE	HSSE	HSSE	HSSE		HSSE		HSSE		HSSE		HSSE		HSSE		HSSE	HSSE		HSSE	PM		PM		PM		PM	
			FORM C	FORM C	FORM C	FORM C		**FORM C3**		FORM C		FORM C		FORM C		FORM C		**FORM C3**	FORM C		**FORM C3**	FORM C		FORM C		FORM C		**FORM C3**	
Tolerance			6HX	6HX	6HX	6H		6H		6HX		6HX		6HX		6HX		6H	6H		6H	6H		6H		6HX		6H	
P			•	•	•	•		•		•		•		•				•										•	
M			•	•	•					•		•		•		•		•											
K			•					•																				•	
N								•		•		•		•				•	•		•								
S																						•		•		•			
H			•	•	•																							•	

SELECTION CHART

Threading | Selection chart | By size

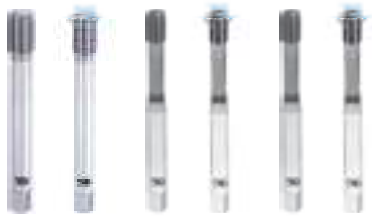
M

Product series			H-SFT		VP-H-SFT		VPO-H-SFT		V-EM-SFT	VP-DC-MT		VP-DC-MT FORM E		VPO-DC-MT Center		VPO-DC-MT Side		VPO-DC-MT FORM E		A-CHT OIL Center		A-CHT OIL Side		A-CHT OIL FORM E		OIL-C-MT Center		OIL-C-MT Side		OIL-C-MT FORM E		GG-MT	
A-brand																				A		A		A									
Page			A.168		A.169		A.170		A.171	A.172		A.173		A.174		A.175		A.176		A.177		A.178		A.179		A.180		A.181		A.182		A.183	
Ø		Ø	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	-	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376
1	0,25	0,75																															
1,1	0,25	0,85																															
1,2	0,25	0,95																															
1,4	0,3	1,1																															
1,6	0,35	1,25																															
1,7	0,35	1,35																															
1,8	0,35	1,45																															
2	0,4	1,6	•		•					•																							
2,2	0,45	1,75																															
2,3	0,4	1,85																															
2,5	0,45	2,05	•		•					•																							
2,6	0,45	2,15																															
3	0,5	2,5	•		•					•		•																					
3,5	0,6	2,9								•																							
4	0,7	3,3	•		•				•	•		•																				•	•
4,5	0,75	3,7																															
5	0,8	4,2	•		•				•	•		•								•		•		•								•	•
5,5	0,9	4,6																															
6	1	5	•		•		•		•	•		•		•		•		•		•		•		•		•				•		•	•
7	1	6								•																							
8	1,25	6,8	•		•		•		•	•		•		•		•		•		•		•		•		•		•		•		•	•
9	1,25	7,8																															
10	1,5	8,5	•		•		•		•	•		•		•		•		•		•		•		•		•		•		•		•	•
11	1,5	9,5									•																						
12	1,75	10,2		•		•		•	•		•		•		•		•		•		•		•		•		•		•		•		•
14	2	12		•		•		•	•		•		•		•		•		•														•
16	2	14		•		•		•	•		•		•		•		•		•														•
18	2,5	15,5		•		•		•			•		•		•		•		•														•
20	2,5	17,5		•		•		•			•		•		•		•		•														•
22	2,5	19,5				•		•			•		•						•														
24	3	21				•		•			•		•						•														
27	3	24				•		•																									
30	3,5	26,5				•		•			•																						
33	3,5	29,5				•		•																									
36	4	32				•		•																									
39	4	35																															
42	4,5	37,5																															
45	4,5	40,5																															
48	5	43																															
52	5	47																															
56	5,5	50,5																															
Blind / through																																	
			OX		V		V		V	V		V		V		V		V		FX		FX		FX		FX		FX		FX		NI-OX	
			PM		PM		PM		HSSE	PM		PM		PM		PM		PM		CARBIDE		CARBIDE		CARBIDE		CARBIDE		CARBIDE		CARBIDE		HSSE	
			FORM C3		**FORM C3**		FORM C		FORM C	FORM C		**FORM E**		FORM C		FORM C		**FORM E**		FORM C		FORM C		**FORM E**		FORM C		FORM C		**FORM E**		FORM C	
Tolerance			6H		6HX		6HX		6H	6HX		6HX		6HX		6HX		6HX		6HX		6HX		6HX		6HX		6HX		6HX		6HX	
P			•		•		•			•		•		•		•		•															
M																																	
K			•		•		•			•		•		•		•		•		•		•		•		•		•		•		•	
N									•	•		•		•		•		•		•		•		•		•		•		•			
S			•		•		•																										
H			•		•		•			•		•		•		•		•															

SELECTION CHART

Threading | Selection chart | By size

M



Product series			OIL-TXL-MT	EX-MCT	V-XPM-HT	WH55-OT	WH55-OT FORM D	VX-OT
A-brand								
Page			A.184	A.185	A.186	A.187	A.188	A.189
Ø	I	Ø						
1	0,25	0,75						
1,1	0,25	0,85						
1,2	0,25	0,95						
1,4	0,3	1,1						
1,6	0,35	1,25						
1,7	0,35	1,35						
1,8	0,35	1,45						
2	0,4	1,6						
2,2	0,45	1,75						
2,3	0,4	1,85						
2,5	0,45	2,05						
2,6	0,45	2,15						
3	0,5	2,5			•	•	•	•
3,5	0,6	2,9						
4	0,7	3,3			•	•	•	•
4,5	0,75	3,7						
5	0,8	4,2			•	•	•	•
5,5	0,9	4,6						
6	1	5		•	•	•	•	•
7	1	6						
8	1,25	6,8		•	•	•	•	•
9	1,25	7,8						
10	1,5	8,5		•	•	•	•	•
11	1,5	9,5						
12	1,75	10,2		•	•	•	•	•
14	2	12		•				
16	2	14		•				
18	2,5	15,5		•				
20	2,5	17,5	•	•				
22	2,5	19,5						
24	3	21	•					
27	3	24	•					
30	3,5	26,5	•					
33	3,5	29,5	•					
36	4	32	•					
39	4	35	•					
42	4,5	37,5	•					
45	4,5	40,5						
48	5	43	•					
52	5	47	•					
56	5,5	50,5	•					
Blind / through								
			OX	OX	V	V	V	V
			HSSE	HSSE	XPM	CARBIDE	CARBIDE	CARBIDE
			FORM C	**FORM C3**	FORM C	FORM C	**FORM D**	FORM C
Tolerance			6HX	6H	6HX	6HX	6HX	6HX
P			•	•				
M								
K			•	•				
N				•				
S								
H			•		•	•	•	•

Product series				A-XPF	A-OIL-XPF	S-XPF	S-OIL-XPF	S-XPF 6GX	S-OIL-XPF 6GX
A-brand				A	A	A	A	A	A
Page				A.190	A.191	A.192	A.193	A.194	A.195
Ø	I	Ø min.	Ø max.						
1	0,25	0,89	0,90			•			
1,1	0,25	0,99	1,00			•			
1,2	0,25	1,09	1,10			•			
1,4	0,3	1,26	1,28			•			
1,6	0,35	1,45	1,48			•			
1,7	0,35	1,55	1,58			•			
1,8	0,35	1,65	1,68			•			
2	0,4	1,82	1,85			•		•	
2,2	0,45	2,00	2,04			•			
2,3	0,4	2,12	2,15			•			
2,5	0,45	2,30	2,34			•		•	
2,6	0,45	2,40	2,44			•			
3	0,5	2,77	2,82	•		•		•	
3,5	0,6	3,23	3,28			•		•	
4	0,7	3,67	3,72	•		•		•	
4,5	0,75	4,14	4,20			•			
5	0,8	4,62	4,68	•	•	•	•	•	•
5,5	0,9	5,06	5,13			•			
6	1	5,51	5,59	•	•	•	•	•	•
7	1	6,51	6,59			•			
8	1,25	7,37	7,45	•	•	•	•	•	•
9	1,25	8,37	8,45			•			
10	1,5	9,24	9,33	•	•	•	•	•	•
11	1,5	10,24	10,33				•		
12	1,75	11,1	11,2	•	•	•	•	•	•
14	2	12,96	13,08	•	•	•	•	•	•
16	2	14,96	15,08	•	•	•	•	•	•
18	2,5	16,66	16,81	•	•	•	•		
20	2,5	18,66	18,81	•	•	•	•		
22	2,5	20,66	20,81	•	•	•	•		
24	3	22,39	22,56	•	•	•	•		
27	3	25,39	25,56	•	•	•	•		
30	3,5	28,09	28,28	•	•	•	•		
33	3,5	31,09	31,28		•		•		
36	4	33,8	34,01		•		•		
39	4	36,8	37,01		•		•		
42	4,5	39,52	39,73		•		•		
45	4,5	42,52	42,73		•		•		
Blind / through									
				V	V	V	V	V	V
				PM	PM	HSS-Co	HSS-Co	HSS-Co	HSS-Co
				FORM C	FORM C	FORM C	FORM C	FORM C	FORM C
Tolerance				6HX	6HX	6HX	6HX	**6GX**	**6GX**
P				•	•	•	•	•	•
M				•	•	•	•	•	•
K									
N				•	•	•	•	•	•
S									
H				•	•	•	•	•	•

SELECTION CHART

Threading | Selection chart | By size

M

Product series				S-XPF 7GX	S-XPF +0.1	S-XPF FORM D	S-XPF FORM E	S-OIL-XPF FORM E	S-LT-XPF	S-OIL-LT-XPF	S-XPF-LH	S-XPF-HB Weldon	S-XPF-GL	S-XPF-GL 6GX	C-OIL-XPF	R-XPF	R-XPF FORM D	R-XPF 6GX	V-NRT
A-brand				A	A	A	A	A	A	A	A	A	A	A	A				
Page				A.196	A.197	A.198	A.199	A.200	A.201	A.202	A.203	A.204	A.205	A.206	A.207	A.208	A.209	A.210	A.211
Ø		Ø min.	Ø max.																
1	0,25	0,89	0,90																•
1,1	0,25	0,99	1,00																
1,2	0,25	1,09	1,10																•
1,4	0,3	1,26	1,28																•
1,6	0,35	1,45	1,48																•
1,7	0,35	1,55	1,58																
1,8	0,35	1,65	1,68																
2	0,4	1,82	1,85	•			•		•										•
2,2	0,45	2,00	2,04																•
2,3	0,4	2,12	2,15																
2,5	0,45	2,30	2,34	•			•		•										•
2,6	0,45	2,40	2,44																
3	0,5	2,77	2,82	•	•	•	•		•		•	•	•	•		•	•	•	•
3,5	0,6	3,23	3,28	•			•												•
4	0,7	3,67	3,72	•	•	•	•		•		•	•	•	•		•	•	•	•
4,5	0,75	4,14	4,20																
5	0,8	4,62	4,68	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•
5,5	0,9	5,06	5,13																
6	1	5,51	5,59	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7	1	6,51	6,59																
8	1,25	7,37	7,45	•	•	•	•	•	•	•	•	•	•	•	•				•
9	1,25	8,37	8,45																
10	1,5	9,24	9,33	•	•	•	•	•	•	•	•	•	•	•	•				•
11	1,5	10,24	10,33																
12	1,75	11,1	11,2	•	•	•	•	•	•	•	•	•	•	•	•				•
14	2	12,96	13,08	•		•	•	•			•	•			•				
16	2	14,96	15,08	•	•	•	•	•			•	•			•				
18	2,5	16,66	16,81								•								
20	2,5	18,66	18,81								•								
22	2,5	20,66	20,81								•								
24	3	22,39	22,56								•								
27	3	25,39	25,56																
30	3,5	28,09	28,28																
33	3,5	31,09	31,28																
36	4	33,8	34,01																
39	4	36,8	37,01																
42	4,5	39,52	39,73																
45	4,5	42,52	42,73																
Blind / through																			
				V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
				HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	CARBIDE	HSS	HSS	HSS	HSS-Co
				FORM C	FORM C	**FORM D**	**FORM E**	**FORM E**	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	**FORM C**	**FORM D**	**FORM C**	FORM C
Tolerance				**7GX**	**6HX +0.1**	6HX	6HX	6HX	6HX	6HX	6HX	6HX	6HX	**6GX**	6HX	6HX	6HX	**6GX**	6HX
P				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
M				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
K																			
N				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
S																			
H				•	•	•	•	•	•	•	•	•	•	•	•				

SELECTION CHART

Threading | Selection chart | By size

M

MF

Product series				V-NRT 6GX	V-NRT FORM D	V-NRT 6GX FORM D	Product series			A-POT		A-OIL-POT	A-POT 6GX	S-POT	S-POT 6G	VA-POT	Z-POT	POT	CC-POT
A-brand							A-brand			A		A	A						
Page				A.212	A.213	A.214	Page			A.215		A.216	A.217	A.218	A.219	A.220	A.221	A.222	A.223
Ø	I	Ø min.	Ø max.				Ø	I	Ø	DIN 371	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374
1	0,25	0,89	0,90				2,5	0,35	2,15	•									
1,1	0,25	0,99	1,00				2,6	0,35	2,25	•									
1,2	0,25	1,09	1,10				3	0,35	2,65	•				•		•	•		
1,4	0,3	1,26	1,28				3,5	0,35	3,15	•									
1,6	0,35	1,45	1,48				4	0,35	3,65	•									
1,7	0,35	1,55	1,58				4	0,5	3,5	•				•		•	•	•	
1,8	0,35	1,65	1,68				4,5	0,5	4	•									
2	0,4	1,82	1,85	•	•	•	5	0,5	4,5	•				•		•	•	•	
2,2	0,45	2,00	2,04	•	•	•	6	0,5	5,5	•	•			•		•	•		
2,3	0,4	2,12	2,15				6	0,75	5,25	•	•		•	•	•	•	•	•	•
2,5	0,45	2,30	2,34	•	•	•	7	0,75	6,25	•									
2,6	0,45	2,40	2,44				8	0,75	7,25	•	•		•	•	•	•	•	•	•
3	0,5	2,77	2,82	•	•	•	8	1	7	•	•	•	•	•	•	•	•	•	•
3,5	0,6	3,23	3,28	•	•	•	9	1	8	•	•								
4	0,7	3,67	3,72	•	•	•	10	0,75	9,25	•	•			•				•	
4,5	0,75	4,14	4,20				10	1	9	•	•	•	•	•	•	•	•	•	•
5	0,8	4,62	4,68	•	•	•	10	1,25	8,75	•	•	•	•	•	•	•	•	•	•
5,5	0,9	5,06	5,13				11	1	10		•			•					
6	1	5,51	5,59	•	•	•	12	1	11		•		•	•	•	•	•	•	•
7	1	6,51	6,59				12	1,25	10,75		•		•	•	•	•	•	•	•
8	1,25	7,37	7,45	•	•	•	12	1,5	10,5		•	•	•	•	•	•	•	•	•
9	1,25	8,37	8,45				14	1	13		•			•				•	
10	1,5	9,24	9,33	•	•	•	14	1,25	12,75		•			•				•	
11	1,5	10,24	10,33				14	1,5	12,5		•	•	•	•	•	•	•	•	•
12	1,75	11,1	11,2		•		16	1	15		•			•				•	
14	2	12,96	13,08				16	1,5	14,5		•	•	•	•	•	•	•	•	•
16	2	14,96	15,08				18	1	17		•			•				•	
18	2,5	16,66	16,81				18	1,5	16,5		•	•	•	•	•	•	•	•	•
20	2,5	18,66	18,81				18	2	16									•	
22	2,5	20,66	20,81				20	1	19		•			•					
24	3	22,39	22,56				20	1,5	18,5		•	•	•	•	•	•	•	•	•
27	3	25,39	25,56				20	2	18		•			•				•	
30	3,5	28,09	28,28				22	1	21		•			•				•	
33	3,5	31,09	31,28				22	1,5	20,5		•		•	•	•	•	•	•	•
36	4	33,8	34,01				22	2	20		•			•				•	
39	4	36,8	37,01				24	1	23		•			•					
42	4,5	39,52	39,73				24	1,5	22,5		•		•	•	•	•	•	•	•
45	4,5	42,52	42,73				24	2	22		•			•				•	
							30	2	28									•	
Blind / through							Blind / through												
				V	V	V				V		V	V	OX	OX	OX	V	-	CrN
				HSS-Co	HSS-Co	HSS-Co				PM		PM	PM	HSSE	HSSE	HSSE	PM	HSSE	HSSE
				FORM C	**FORM D**	**FORM D**				FORM B		FORM B	**FORM B**	FORM B	**FORM B**	FORM B	FORM B	FORM B	FORM B
C/2,5 Tolerance				**6GX**	6HX	**6GX**	C/2,5 Tolerance			6HX		6HX	**6GX**	6H	**6G**	6H	6HX	6H	6HX
P				•	•	•	P			•		•	•	•	•	•	•	•	•
M				•	•	•	M			•		•	•	•	•	•	•		•
K							K							•	•	•		•	
N				•	•	•	N			•		•	•				•	•	•
S							S			•		•	•				•		
H							H			•		•	•				•		

SELECTION CHART

Threading | Selection chart | By size

MF

Product series			H-POT	A-SFT		A-OIL-SFT	A-SFT 6GX	A-CSF OIL	A-CSF OIL-FORM E	S-SFT	S-SFT 6G	VA-SFT	Z-SFT	SFT	CC-SFT	SUS-SFT	AL-SFT	H-SFT	VP-DC-MT
A-brand				A		A	A	A	A										
Page			A.224	A.225		A.226	A.227	A.228	A.229	A.230	A.231	A.232	A.233	A.234	A.235	A.236	A.237	A.238	A.239
Ø		Ø	DIN 374	DIN 371	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374
2,5	0,35	2,15		•															
2,6	0,35	2,25		•															
3	0,35	2,65	•	•						•		•	•					•	•
3,5	0,35	3,15		•															
4	0,35	3,65		•															
4	0,5	3,5	•	•						•		•	•	•				•	•
4,5	0,5	4		•															
5	0,5	4,5	•	•						•		•	•	•				•	•
6	0,5	5,5	•	•	•					•		•	•		•			•	•
6	0,75	5,25	•	•	•		•			•	•	•	•	•	•			•	•
7	0,75	6,25		•															
8	0,75	7,25	•	•	•		•			•	•	•	•	•	•	•		•	•
8	1	7	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	1	8		•	•					•									
10	0,75	9,25		•	•					•				•					
10	1	9	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	1,25	8,75	•		•	•	•			•	•	•	•	•	•	•	•	•	•
11	1	10			•					•									
12	1	11	•		•		•	•	•	•	•	•	•	•	•	•	•	•	•
12	1,25	10,75	•		•		•			•	•	•	•	•	•	•	•	•	•
12	1,5	10,5	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
14	1	13			•					•				•					
14	1,25	12,75			•					•				•					
14	1,5	12,5	•		•	•	•	•	•	•	•	•	•	•	•	•		•	•
16	1	15			•					•				•					
16	1,5	14,5	•		•	•	•	•	•	•	•	•	•	•	•	•		•	•
18	1	17			•					•				•					
18	1,5	16,5	•		•	•	•			•	•	•	•	•	•	•		•	•
18	2	16												•					
20	1	19			•					•				•					
20	1,5	18,5	•		•	•	•	•		•	•	•	•	•	•	•		•	•
20	2	18			•					•				•					
22	1	21			•					•									
22	1,5	20,5	•		•		•			•	•	•	•	•	•	•		•	•
22	2	20			•					•				•					
24	1	23			•					•									
24	1,5	22,5	•		•		•			•	•	•	•	•	•	•		•	•
24	2	22			•					•				•					
30	2	28												•					
Blind / through																			
			OX	V		V	V	FX	FX	OX	OX	OX	V	-	CrN	OX	-	OX	V
			PM	PM		PM	PM	CARBIDE	CARBIDE	HSSE	HSSE	HSSE	PM	HSSE	HSSE	HSSE	HSSE	PM	PM
			FORM B	FORM C		FORM C	FORM C	FORM C	**FORM E**	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	**FORMC3**	FORM C
Tolerance			6H	6HX		6HX	**6GX**	6HX	6HX	6H	**6G**	6H	6H	6H	6HX	**6HX**	6H	6H	6HX
P			•	•		•	•			•	•	•	•	•	•			•	•
M				•		•	•			•	•	•	•		•	•			
K			•					•	•	•	•	•		•				•	•
N				•		•	•	•	•				•	•	•		•		•
S			•	•		•	•						•					•	
H			•	•		•	•						•					•	•

SELECTION CHART

Threading | Selection chart | By size

MF

MF

Product series			VPO-DC-MT Center	VPO-DC-MT Side	A-CHT OIL Center	A-CHT OIL Side	A-CHT OIL FORM E	OIL-C-MT Center	OIL-C-MT Side	OIL-C-MT FORM E	GG-MT
A-brand					A	A	A				
Page			A.240	A.241	A.242	A.243	A.244	A.245	A.246	A.247	A.248
Ø	I	Ø	DIN 374	DIN 374	DIN 374	DIN 374	DIN 374				
2,5	0,35	2,15									
2,6	0,35	2,25									
3	0,35	2,65									•
3,5	0,35	3,15									•
4	0,35	3,65									
4	0,5	3,5									•
4,5	0,5	4									
5	0,5	4,5									•
6	0,5	5,5									•
6	0,75	5,25									•
7	0,75	6,25									
8	0,75	7,25									•
8	1	7	•	•	•	•					•
9	1	8									
10	0,75	9,25									
10	1	9	•	•	•	•	•	•			•
10	1,25	8,75	•	•				•	•	•	•
11	1	10									
12	1	11			•	•	•				•
12	1,25	10,75	•	•				•	•	•	•
12	1,5	10,5	•	•	•	•	•	•	•	•	•
14	1	13									•
14	1,25	12,75									
14	1,5	12,5	•	•	•	•	•	•	•	•	•
16	1	15									•
16	1,5	14,5	•	•	•	•	•				•
18	1	17									
18	1,5	16,5	•	•							•
18	2	16									•
20	1	19									
20	1,5	18,5	•	•	•	•					•
20	2	18									
22	1	21									
22	1,5	20,5									•
22	2	20									
24	1	23									
24	1,5	22,5									•
24	2	22									
30	2	28									
Blind / through											
			V	V	FX	FX	FX	FX	FX	FX	NI-OX
			PM	PM	CARBIDE	CARBIDE	CARBIDE	CARBIDE	CARBIDE	CARBIDE	HSSE
			FORM C	FORM C	FORM C	FORM C	**FORM E**	FORM C	FORM C	**FORM E**	FORM C
Tolerance			6HX	6HX	6HX	6HX	6HX	6HX	6HX	6HX	6HX
P			•	•							
M											
K			•	•	•	•	•	•	•	•	•
N			•	•	•	•	•	•	•	•	
S											
H			•	•							

Product series					A-XPF	A-OIL-XPF	S-XPF
A-brand					A	A	A
Page					A.249	A.250	A.251
Ø	I	Ø min.	Ø max.		DIN 2174	DIN 2174	DIN 2174
4	0,5	3,77	3,82				•
5	0,5	4,77	4,82				•
6	0,5	5,79	5,83				•
6	0,75	5,65	5,71				•
7	0,75	6,65	6,71				•
8	0,5	7,79	7,83				•
8	0,75	7,65	7,71				•
8	1	7,51	7,59		•	•	•
10	1	9,51	9,59		•	•	•
10	1,25	9,37	9,45		•	•	•
12	1	11,52	11,60		•	•	•
12	1,25	11,39	11,46		•	•	•
12	1,5	11,25	11,34		•	•	•
14	1	13,52	13,60				•
14	1,25	13,39	13,46		•	•	•
14	1,5	13,25	13,34		•	•	•
16	1	15,52	15,60				•
16	1,5	15,25	15,34		•	•	•
18	1	17,52	17,60				•
18	1,5	17,25	17,34		•	•	•
20	1	19,52	19,60				•
20	1,5	19,25	19,34		•	•	•
22	1,5	21,25	21,34		•	•	•
24	1,5	23,25	23,34		•	•	•
Blind / through							
					V	V	V
					PM	PM	HSS-Co
					FORM C	FORM C	FORM C
Tolerance					6HX	6HX	6HX
P					•	•	•
M					•	•	•
K							
N					•	•	•
S							
H					•	•	•

SELECTION CHART

Threading | Selection chart | By size

MF

Product series				S-OIL-XPF	S-XPF 6GX	S-OIL-XPF 6GX	S-XPF FORM D	S-XPF FORM E	S-OIL-XPF FORM E	S-OIL-LT-XPF	S-XPF-GL	S-XPF-GL 6GX	C-OIL-XPF	V-NRT	V-NRT FORM D
A-brand				A	A	A	A	A	A	A	A	A	A		
Page				A.252	A.253	A.254	A.255	A.256	A.257	A.258	A.259	A.260	A.261	A.262	A.263
Ø	I	Ø min.	Ø max.	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174	DIN 2174
4	0,5	3,77	3,82												
5	0,5	4,77	4,82												
6	0,5	5,79	5,83												
6	0,75	5,65	5,71												
7	0,75	6,65	6,71												
8	0,5	7,79	7,83												
8	0,75	7,65	7,71												
8	1	7,51	7,59	•	•	•	•		•	•	•	•	•	•	•
10	1	9,51	9,59	•	•	•	•	•	•	•	•	•	•	•	•
10	1,25	9,37	9,45	•	•	•	•		•	•	•	•		•	•
12	1	11,52	11,60	•	•	•	•		•	•	•	•		•	•
12	1,25	11,39	11,46	•	•	•	•		•	•	•	•		•	•
12	1,5	11,25	11,34	•	•	•	•	•	•	•	•	•	•	•	•
14	1	13,52	13,60	•											
14	1,25	13,39	13,46	•	•	•			•	•	•	•			
14	1,5	13,25	13,34	•	•	•	•	•	•	•	•	•	•		
16	1	15,52	15,60	•											
16	1,5	15,25	15,34	•	•	•	•	•	•		•	•	•		
18	1	17,52	17,60	•											
18	1,5	17,25	17,34	•	•	•	•		•		•	•			
20	1	19,52	19,60	•											
20	1,5	19,25	19,34	•	•	•	•		•		•	•			
22	1,5	21,25	21,34	•	•	•			•		•	•			
24	1,5	23,25	23,34												
Blind / through															
				V	V	V	V	V	V	V	V	V	V	V	V
				HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	HSS-Co	CARBIDE	HSS-Co	HSS-Co
				FORM C	FORM C	FORM C	**FORM D**	**FORM E**	**FORM E**	FORM C	FORM C	FORM C	FORM C	FORM C	**FORM D**
Tolerance				6HX	**6GX**	**6GX**	6HX	6HX	6HX	6HX	6HX	**6GX**	6HX	6HX	6HX
P				•	•	•	•	•	•	•	•	•	•	•	•
M				•	•	•	•	•	•	•	•	•	•	•	•
K															
N				•	•	•	•	•	•	•	•	•	•	•	•
S															
H				•	•	•	•	•	•	•			•		

SELECTION CHART

Threading | Selection chart | By size

UNC

UNC

Product series			A-POT	S-POT	VA-POT	A-SFT	S-SFT	VA-SFT	HXL-SFT	VXL-SFT	VP-DC-MT
A-brand			A			A					
Page			A.264	A.265	A.266	A.267	A.268	A.269	A.270	A.271	A.272
Ø	I	Ø	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1			
N°.2	56	1,85	•	•		•	•				•
N°.3	48	2	•	•		•	•				•
N°.4	40	2,35	•	•	•	•	•	•			•
N°.5	40	2,65	•	•	•	•	•	•			•
N°.6	32	2,7	•	•	•	•	•	•			•
N°.8	32	3,5	•	•	•	•	•	•			•
N°.10	24	3,8	•	•	•	•	•	•			•
N°.12	24	4,5	•	•		•	•				•
1/4	20	5,1	•	•	•	•	•	•			•
5/16	18	6,5	•	•	•	•	•	•			•
3/8	16	7,9	•	•	•	•	•	•			•
7/16	14	9,3	•	•	•	•	•	•			•
1/2	13	10,7	•	•	•	•	•	•			•
9/16	12	12,3	•	•	•	•	•	•			•
5/8	11	13,5	•	•	•	•	•	•			•
3/4	10	16,5	•	•	•	•	•	•	•	•	•
7/8	9	19,3	•	•	•	•	•	•	•	•	•
1	8	22,25	•	•	•	•	•	•	•	•	•
1 1/8	7	25					•		•	•	
1 1/4	7	28					•		•	•	
1 3/8	6	30							•	•	
1 1/2	6	34					•		•	•	
Blind / through											
			V	OX	OX	V	OX	OX	OX	OX	V
			PM	HSSE	HSSE	PM	HSSE	HSSE	HSSE	HSSE	PM
			FORM B	FORM B	FORM B	FORM C	**FORM C**	FORM C	FORM C	**FORM C**	FORM C
Tolerance			2BX	2B	2B	2BX	2B	2B	2B	2B	2BX
P			•	•	•	•	•	•	•	•	•
M			•	•	•	•	•	•		•	
K				•	•		•	•	•		•
N			•			•			•		•
S			•			•					
H			•			•			•	•	•

Product series					S-XPF	S-OIL-XPF
A-brand					A	A
Page					A.273	A.274
Ø	I	Ø min.	Ø max.		DIN 2184-1	DIN 2184-1
N°.5	40	2,86	2,93		•	
N°.6	32	3,09	3,17		•	
N°.8	32	3,76	3,84		•	
N°.10	24	4,26	4,35		•	
1/4	20	5,66	5,76		•	•
5/16	18	7,18	7,29		•	•
3/8	16	8,66	8,78		•	•
7/16	14	10,12	10,27		•	•
1/2	13	11,62	11,78		•	•
9/16	12	13,14	13,28		•	•
5/8	11	14,61	14,76		•	•
3/4	10	17,65	17,80		•	•
7/8	9	20,66	20,84		•	•
1	8	23,63	23,84		•	•
Blind / through						
					V	V
					HSS-Co	HSS-Co
					FORM C	FORM C
Tolerance					2BX	2BX
P					•	•
M					•	•
K						
N					•	•
S						
H					•	•

SELECTION CHART

Threading | Selection chart | By size

UNF

UNF

Product series			A-POT	S-POT	VA-POT	A-SFT	S-SFT	VA-SFT	VP-DC-MT
A-brand			A			A			
Page			A.275	A.276	A.277	A.278	A.279	A.280	A.281
Ø	I	Ø	DIN 2184-1		DIN 2184-1	DIN 2184-1			
N°.2	64	1,85	•	•		•	•		•
N°.3	56	2,15	•	•		•	•		•
N°.4	48	2,4	•	•		•	•		•
N°.5	44	2,7	•	•		•	•		•
N°.6	40	2,95	•	•	•	•	•	•	•
N°.8	36	3,5	•	•		•	•		•
N°.10	32	4,1	•	•	•	•	•	•	•
N°.12	28	4,6	•	•		•	•		•
1/4	28	5,5	•	•	•	•	•	•	•
5/16	24	6,9	•	•	•	•	•	•	•
3/8	24	8,5	•	•	•	•	•	•	•
7/16	20	9,9	•	•	•	•	•	•	•
1/2	20	11,5	•	•	•	•	•	•	•
9/16	18	12,9	•	•	•	•	•	•	•
5/8	18	14,5	•	•	•	•	•	•	•
3/4	16	17,5	•	•	•	•	•	•	•
7/8	14	20,4	•	•	•	•	•	•	•
1	12	23,25	•	•	•	•	•	•	•
Blind / through									
			V	OX	OX	V	OX	OX	V
			PM	HSSE	HSSE	PM	HSSE	HSSE	PM
			FORM B	FORM B	FORM B	FORM C	**FORM C**	FORM C	FORM C
Tolerance			2BX	2B	2B	2BX	2B	2B	2BX
P			•	•	•	•	•	•	•
M			•	•	•	•	•	•	
K				•	•		•	•	•
N			•			•			•
S			•			•			
H			•			•			•

Product series				S-XPF	S-OIL-XPF
A-brand				A	A
Page				A.282	A.283
Ø	I	Ø min.	Ø max.		
N°.6	40	3,19	3,26	•	
N°.10	32	4,41	4,47	•	
1/4	28	5,87	5,94	•	•
5/16	24	7,39	7,47	•	•
3/8	24	8,98	9,06	•	•
7/16	20	10,45	10,55	•	•
1/2	20	12,04	12,14	•	•
9/16	18	13,56	13,64	•	•
5/8	18	15,15	15,23	•	•
3/4	16	18,22	18,30	•	•
7/8	14	21,27	21,38	•	•
1	12	24,26	24,37	•	•
Blind / through					
				V	V
				HSS-Co	HSS-Co
				FORM C	FORM C
Tolerance				2BX	2BX
P				•	•
M				•	•
K					
N				•	•
S					
H				•	•

SELECTION CHART

Threading | Selection chart | By size

MJ

UNJC

Product series			CC-NEO-SFT		V-TI-SFT	
A-brand						
Page			A.284		A.285	
Ø	I	Ø	DIN 371	DIN 376	DIN 371	DIN 376
2	0,4	1,610 - 1,722	•		•	
3	0,5	2,513 - 2,653	•		•	
4	0,7	3,318 - 3,498	•		•	
5	0,8	4,221 - 4,421	•		•	
6	1	5,026 - 5,216	•		•	
8	1,25	6,782 - 6,994	•		•	
10	1,5	8,539 - 8,775	•		•	
12	1,75	10.295 - 10,560		•		•
Blind / through						
			TIN		V	
			HSSE		PM	
			FORM C		FORM C	
Tolerance			4H		4H	
P			•			
M			•			
K						
N			•			
S					•	
H						

Product series			VA-POT	V-TI-POT	E-POT	WHR-NI-POT	H-POT	VA-SFT	CC-SFT	V-TI-SFT	E-SFT	WHR-NI-SFT	H-SFT
A-brand													
Page			A.286	A.287	A.288	A.289	A.290	A.291	A.292	A.293	A.294	A.295	A.296
Ø	I	Ø	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1
N°.4	40	2,35	•	•	•	•	•	•	•	•	•	•	•
N°.6	32	2,7	•	•	•	•	•	•	•	•	•	•	•
N°.8	32	3,5	•	•	•	•	•	•	•	•	•	•	•
N°.10	24	3,8			•	•			•		•	•	
1/4	20	5,1			•	•			•		•	•	
5/16	18	6,5			•	•			•		•	•	
3/8	16	7,9			•	•			•		•	•	
7/16	14	9,3			•	•			•		•	•	
1/2	13	10,7			•	•			•		•	•	
9/16	12	12,3							•				
5/8	11	13,5			•	•			•		•	•	
3/4	10	16,5			•	•			•		•	•	
7/8	9	19,3			•	•			•		•	•	
1	8	22,25			•	•			•		•	•	
Blind / through													
			OX	V	-	HR	OX	OX	CrN	V	-	HR	OX
			HSSE	PM	PM	PM	PM	HSSE	HSSE	PM	PM	PM	PM
			FORM B	FORM B	FORM B	FORM B	FORM B	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C
Tolerance			3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B
P			•				•	•	•				•
M			•					•	•				
K			•				•	•					•
N									•				
S				•	•	•	•			•	•	•	•
H							•						•

SELECTION CHART

Threading | Selection chart | By size

UNJF

EG M

Product series			VA-POT	V-TI-POT	E-POT	WHR-NI-POT	H-POT	VA-SFT	CC-SFT	V-TI-SFT	E-SFT	WHR-NI-SFT	H-SFT
A-brand													
Page			A.297	A.298	A.299	A.300	A.301	A.302	A.303	A.304	A.305	A.306	A.307
Ø	I	Ø	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1
N°.10	32	4,1	•	•	•	•	•	•	•	•	•	•	•
1/4	28	5,5	•	•	•	•	•	•	•	•	•	•	•
5/16	24	6,9	•	•	•	•	•	•	•	•	•	•	•
3/8	24	8,5	•	•	•	•	•	•	•	•	•	•	•
7/16	20	9,9	•	•	•	•	•	•	•	•	•	•	•
1/2	20	11,5	•	•	•	•	•	•	•	•	•	•	•
9/16	18	12,9			•	•			•		•	•	
5/8	18	14,5			•	•			•		•	•	
3/4	16	17,5			•	•			•		•	•	
7/8	14	20,4			•	•			•		•	•	
1	12	23,25							•				
Blind / through													
			OX	V	-	HR	OX	OX	CrN	V	-	HR	OX
			HSSE	PM	PM	PM	PM	HSSE	HSSE	PM	PM	PM	PM
			FORM B	FORM B	FORM B	FORM B	FORM B	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C
Tolerance			3B	3B	3B	3B	3B	3B	3B	3B	3B	3B	3B
P			•				•	•	•				•
M			•					•	•				
K			•				•	•					•
N									•				
S				•	•	•	•			•	•	•	•
H							•						•

Product series			CC-HL-SFT	
A-brand				
Page			A.308	
Ø	I	Ø	DIN 371	DIN 376
3	0,5	3,2	•	
4	0,7	4,2	•	
5	0,8	5,2	•	
6	1	6,3	•	
8	1,25	8,4	•	
10	1,5	10,4	•	
12	1,75	12,5		•
Blind / through				
			CrN	
			HSSE	
			FORM C	
Tolerance			6H	
P			•	
M			•	
K				
N			•	
S				
H				

SELECTION CHART

Threading | Selection chart | By size

EG MJ

EG UNJC

Product series			E-HL-POT	H-HL-POT	E-HL-SFT	H-HL-SFT	Product series			E-HL-POT	H-HL-POT	E-HL-SFT	H-HL-SFT
A-brand							A-brand						
Page			A.309	A.310	A.311	A.312	Page			A.313	A.314	A.315	A.316
Ø	I	Ø	DIN 371	DIN 371	DIN 371	DIN 371	Ø	I	Ø	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1
2	0,4	2,1	•	•	•	•	4	40	3	•	•	•	•
2,5	0,45	2,6	•	•	•	•	6	32	3,7	•	•	•	•
3	0,5	3,2	•	•	•	•	8	32	4,4	•	•	•	•
4	0,7	4,2	•	•	•	•							
5	0,8	5,2	•	•	•	•							
6	1	6,3	•	•	•	•							
8	1,25	8,4	•	•	•	•							
10	1,5	10,4	•	•	•	•							
Blind / through							Blind / through						
			-	OX	-	OX				-	OX	-	OX
			PM	PM	PM	PM				PM	PM	PM	PM
			FORM B	FORM B	FORM C	FORM C				FORM B	FORM B	FORM C	FORM C
Tolerance			4H	4H	4H	4H	Tolerance			3B	3B	3B	3B
P				•		•	P				•		•
M							M						
K				•		•	K				•		•
N							N						
S			•	•	•	•	S			•	•	•	•
H				•		•	H				•		•

SELECTION CHART

Threading | Selection chart | By size

EG UNJF

Product series			E-HL-POT	H-HL-POT	CC-HL-SFT	E-HL-SFT	H-HL-SFT
A-brand							
Page			A.317	A.318	A.319	A.320	A.321
Ø	I	Ø	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1
10	32	5,1	•	•	•	•	•
1/4	28	6,6	•	•	•	•	•
5/16	24	8,3	•	•	•	•	•
3/8	24	9,8	•	•	•	•	•
7/16	20	11,5	•	•		•	•
1/2	20	13,1	•	•		•	•
Blind / through							
			-	OX	CrN	-	OX
			PM	PM	HSSE	PM	PM
			FORM B	FORM B	FORM C	FORM C	FORM C
Tolerance			3B	3B	3B	3B	3B
P				•	•		•
M					•		
K				•			
N					•		
S			•	•		•	•
H				•			•

BSW

Product series			A-POT	S-POT	A-SFT	S-SFT
A-brand			A		A	
Page			A.322	A.323	A.324	A.325
Ø	I	Ø	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1
1/8	40	2,5	•	•	•	•
3/16	24	3,6	•	•	•	•
1/4	20	5	•	•	•	•
5/16	18	6,5	•	•	•	•
3/8	16	7,9	•	•	•	•
7/16	14	9,2	•	•	•	•
1/2	12	10,5	•	•	•	•
5/8	11	13,4	•	•	•	•
3/4	10	16,4	•	•	•	•
7/8	9	19,25	•	•	•	•
1	8	22	•	•	•	•
Blind / through						
			V	OX	V	OX
			PM	HSSE	PM	HSSE
			FORM B	FORM B	FORM C	FORM C
Tolerance			MED	MED	MED	MED
P			•	•	•	•
M			•	•	•	•
K				•		•
N			•		•	
S			•		•	
H			•		•	

SELECTION CHART

Threading | Selection chart | By size

BSF

Product series			A-POT	S-POT	A-SFT	S-SFT
A-brand			A		A	
Page			A.326	A.327	A.328	A.329
Ø	I	Ø	DIN 2184-1		DIN 2184-1	
1/4	26	5,3	•	•	•	•
5/16	22	6,8	•	•	•	•
3/8	20	8,3	•	•	•	•
7/16	18	9,7	•	•	•	•
1/2	16	11	•	•	•	•
5/8	14	14	•	•	•	•
3/4	12	16,8	•	•	•	•
1	10	22,7	•	•	•	•
Blind / through						
			V	OX	V	OX
			PM	HSSE	PM	HSSE
			FORM B	FORM B	FORM C	FORM C
Tolerance			MED	MED	MED	MED
P			•	•	•	•
M			•	•	•	•
K				•		•
N			•			
S			•		•	
H			•		•	

BA (BS93)

Product series			A-POT	S-POT	A-SFT	S-SFT
A-brand			A		A	
Page			A.330	A.331	A.332	A.333
Ø	I	Ø				
0	1	5	•	•	•	•
1	0,9	4,4	•	•	•	•
2	0,81	3,9	•	•	•	•
3	0,73	3,4	•	•	•	•
4	0,66	3	•	•	•	•
5	0,59	2,6	•	•	•	•
6	0,53	2,3	•	•	•	•
7	0,48	2	•	•	•	•
8	0,43	1,8	•	•	•	•
9	0,39	1,5	•	•	•	•
10	0,35	1,3	•	•	•	•
11	0,31	1,2	•	•	•	•
12	0,28	1	•	•	•	•
Blind / through						
			V	OX	V	OX
			PM	HSSE	PM	HSSE
			FORM B	FORM B	FORM C	FORM C
Tolerance			-	-	-	-
P			•	•	•	•
M			•	•	•	•
K				•		•
N			•		•	
S			•		•	
H			•		•	

SELECTION CHART

Threading | Selection chart | By size

G

Product series			A-POT	S-POT	POT	A-SFT	S-SFT	VA-SFT	SFT	SH-SFT	CC-SFT	VP-DC-MT	GG-MT	VX-OT
A-brand			A			A								
Page			A.334	A.335	A.336	A.337	A.338	A.339	A.340	A.341	A.342	A.343	A.344	A.345
Ø	I	Ø	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	DIN 5156	–
1/16	28	6,8										•		
1/8	28	8,7	•	•	•	•	•	•	•	•	•	•	•	•
1/4	19	11,8	•	•	•	•	•	•	•	•	•	•	•	•
3/8	19	15,25	•	•	•	•	•	•	•	•	•	•	•	•
1/2	14	19	•	•	•	•	•	•	•			•	•	•
5/8	14	21	•	•	•	•	•	•	•			•		
3/4	14	24,5	•	•	•	•	•	•	•			•		
7/8	14	28,25	•	•	•	•	•	•	•			•		
1	11	30,75										•		
1 1/8	11	35,5										•		
1 1/4	11	39,5										•		
1 1/2	11	45,25										•		
1 3/4	11	51										•		
2	11	57										•		
Blind / through														
			V	OX	-	V	OX	OX	-	-	CrN	V	NI-OX	V
			PM	HSSE	HSSE	PM	HSSE	HSSE	HSSE	HSSE	HSSE	PM	HSSE	CARBIDE
			FORM B	FORM B	FORM B	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C	FORM C
Tolerance			-	-	-	-	-	-	-	-	-	-	-	-
P			•	•	•	•	•	•	•	•	•	•		
M			•	•		•	•	•			•			
K				•	•		•	•	•	•		•	•	
N			•		•	•			•	•	•	•		
S			•			•								
H			•			•						•		•

SELECTION CHART

Threading | Selection chart | By size

G

Rc (PT)

NPT

Product series				S-XPF	S-OIL-XPF	S-XPF-GL	Product series			A-TPT	S-TPT	Product series			NPT
A-brand				A	A	A	A-brand			A		A-brand			
Page				A.346	A.347	A.348	Page			A.349	A.350	Page			A.351
Ø	I	Ø min.	Ø max.	DIN 2189	DIN 2189	DIN 2189	Ø	I	Ø	DIN 5156	DIN 5156	Ø	I	Ø	DIN 2181
1/8	28	9,24	9,35	•		•	1/8	28	8,3	•	•	1/16	27	6,15	•
1/4	19	12,41	12,62	•	•	•	1/4	19	11	•	•	1/8	27	8,4	•
3/8	19	15,92	16,12	•	•	•	3/8	19	14,5	•	•	1/4	18	11,1	•
1/2	14	19,93	20,15	•	•	•	1/2	14	18,1	•	•	3/8	18	14,3	•
5/8	14	21,89	22,11	•	•	•	3/4	14	23,5	•	•	1/2	14	17,9	•
3/4	14	25,42	25,64	•	•	•	1	11	29,6	•	•	3/4	14	23,3	•
7/8	14	29,18	29,40	•	•	•						1	11,5	29	•
1	11	31,92	32,20	•	•	•									
Blind / through							Blind / through					Blind / through			
				V	V	V				V	OX				-
				HSS-Co	HSS-Co	HSS-Co				PM	HSSE				HSSE
				FORM C	FORM C	FORM C				FORM C	FORM C				FORM C
Tolerance				-	-	-	Tolerance			-	-	Tolerance			-
P				•	•	•	P			•	•	P			•
M				•	•	•	M					M			
K							K					K			•
N				•	•	•	N			•		N			•
S							S					S			
H				•	•	•	H					H			

SELECTION CHART

Threading | Selection chart | By size

PG

Product series			PG
A-brand			
Page			A.352
Ø		Ø	DIN 371/376
7	20	11,4	•
9	18	14	•
11	18	17,25	•
13,5	18	19	•
16	18	21,25	•
21	16	27	•
29	16	35,5	•
36	16	45,5	•
42	16	52,5	•
48	16	58	•
Blind / through			
			-
			HSSE
			FORM C
Tolerance			-
P			•
M			
K			•
N			•
S			
H			

Metric - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT NEW SIZES	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	M1 - M24	A.88
A-OIL-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels Side through coolant	M6 - M24	A.89
A-POT 6GX	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels For 6G internal thread tolerance	M2 - M16	A.90
A-POT 7GX	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels For 7G internal thread tolerance	M2 - M16	A.91
A-POT+0.1	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels Oversized tap for 6H +0,1mm thread tolerance	M3 - M16	A.92
A-LT-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels With long shank for long reach threading	M2 - M20	A.93
A-POT-LH	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels For left-hand threads	M3 - M24	A.94
A-POT-HB Weldon	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels With Weldon shank	M3 - M16	A.95
S-POT NEW SIZES	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	M1 - M24	A.96
S-POT 6G NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels For 6G internal thread tolerance	M2 - M16	A.97
S-POT 7G NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels For 7G internal thread tolerance	M2 - M16	A.98
S-POT+0.1 NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels Oversized tap for 6H +0,1mm thread tolerance	M3 - M16	A.99
S-LT-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels With long shank for long reach threading	M2 - M20	A.100
S-POT-LH NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels For left-hand threads	M3 -M24	A.101
S-POT-HB Weldon NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels With Weldon shank	M3 -M16	A.102
VA-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	M2 - M36	A.103
VA-POT 6G	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	M2 - M16	A.104
Z-POT	V		Powder metal spiral-point cutting tap for through holes High speed tapping in general steels and stainless steels	M2 - M30	A.105
Z-OIL-POT	V		Powder metal spiral-point cutting tap for through holes High speed tapping in general steels and stainless steels Side through coolant	M6 - M20	A.106

Metric - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
POT			HSSE spiral-point cutting tap for through holes For general purpose applications	M2 - M36	A.107
POT			HSSE spiral-point cutting tap for through holes For general purpose applications According to DIN 352 shank reduced length	M3 - M10	A.108
TIN-POT	TiN		HSSE spiral-point cutting tap for through holes For steels up to 850 N/mm²	M2 - M30	A.109
TICN-POT	TiCN		HSSE spiral-point cutting tap for through holes For steels up to 1000 N/mm²	M2 - M24	A.110
CC-POT	CrN		HSSE spiral-point cutting tap for through holes For general steels and stainless steels Developed for rigid tapping on CNC machines	M2 - M30	A.111
CC-LT-POT	CrN		HSSE spiral-point cutting tap for through holes For general steels and stainless steels With long shank for long reach threading	M2 - M12	A.112
HS-RFT-TIN	TiN		HSSE spiral-flute cutting tap for through holes For high speed tapping in various materials Right-hand cut with left-hand flute for chip evacuation towards front	M3 - M12	A.113
AL-POT			HSSE spiral-point cutting tap for through holes For aluminium and cast aluminium	M2 - M20	A.114
US-AL-RFT	V		HSSE spiral-flute cutting tap for through holes For high speed tapping in aluminium and cast aluminium Right-hand cut with left-hand flute for chip evacuation towards front	M3 - M12	A.115
V-TI-POT	V		Powder metal spiral-point cutting tap for through holes For Titanium alloys	M3 - M12	A.116
E-POT			Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718	M3 - M12	A.117
WHR-NI-POT	HR		Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718	M3 - M12	A.118
CPM-POT			Powder metal spiral-point cutting tap for through holes For steels up to 900 N/mm² and cast iron	M3 - M20	A.119
H-POT	OX		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC	M2 - M20	A.120
VP-H-POT	V		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC	M2 - M36	A.121
VPO-H-POT	V		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC Side through coolant	M6 - M36	A.122

Metric - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	M1 - M24	A.123
A-OIL-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels Centre through coolant	M6 - M56	A.124
A-SFT 6GX	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels For 6G internal thread tolerance	M2 - M16	A.125
A-SFT 7GX	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels For 7G internal thread tolerance	M2 - M16	A.126
A-SFT +0.1	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels Oversized tap for 6H +0,1mm thread tolerance	M3 - M16	A.127
A-SFT FORM E	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels Form E chamfer	M3 - M16	A.128
A-LT-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels With long shank for long reach threading	M2 - M20	A.129
A-SFT-LH	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels For left-hand threads	M3 - M24	A.130
A-SFT-HB Weldon	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels With Weldon shank	M3 - M16	A.131
A-CSF OIL NEW	FX	A	Carbide spiral-fluted cutting tap for blind holes For cast iron and aluminium cast Centre through coolant	M5 - M12	A.132
A-CSF OIL FORM E NEW	FX	A	Carbide spiral-fluted cutting tap for blind holes For cast iron and aluminium cast Centre through coolant, Form E chamfer	M5 - M12	A.133
S-SFT NEW SIZES	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	M1 - M24	A.134
S-SFT 6G NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels For 6G internal thread tolerance	M2 - M16	A.135
S-SFT 7G NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels For 7G internal thread tolerance	M2 - M16	A.136
S-SFT+0.1 NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels Oversized tap for 6H +0,1mm thread tolerance	M3 - M16	A.137
S-SFT FORM E NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels Form E chamfer	M3 - M16	A.138
S-LT-SFT NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels With long shank for long reach threading	M2 -M20	A.139
S-SFT-LH NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels For left-hand threads	M3 - M24	A.140
S-SFT-HB Weldon NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels With Weldon shank	M3 - M16	A.141

Metric - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	M2 - M36	A.142
VA-SFT 6G	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels For 6G internal thread tolerance	M2 - M16	A.143
VA-SFT FORM E	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels Form E chamfer	M3 - M16	A.144
Z-SFT	V		Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels and stainless steels	M2 - M30	A.145
Z-OIL-SFT	V		Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels and stainless steels Centre through coolant	M6 - M20	A. 146
SFT			HSSE spiral-fluted cutting tap for blind holes For general purpose applications	M2 - M36	A.147
SFT			HSSE spiral-fluted cutting tap for blind holes For general purpose applications According to DIN 352 shank reduced length	M3 - M10	A.148
TIN-SFT	TiN		HSSE spiral-fluted cutting tap for blind holes For steels up to 850 N/mm²	M2 - M30	A.149
TICN-SFT	TiCN		HSSE spiral-fluted cutting tap for blind holes For steels up to 850 N/mm²	M2 - M24	A.150
HXL-SFT	OX		HSSE low spiral-fluted cutting tap for blind holes For steels and cast iron For horizontal applications in oil and heavy industry	M20 - M56	A.151
OIL-HXL-SFT	OX		HSSE low spiral-fluted cutting tap for blind holes For steels and cast iron Centre through coolant, for horizontal applications in oil and heavy industry	M20 - M56	A.152
VXL-SFT	OX		HSSE high spiral-fluted cutting tap for blind holes For general steels For vertical applications in oil and heavy industry	M20 - M56	A.153
OIL-VXL-SFT	OX		HSSE high spiral-fluted cutting tap for blind holes For general steels Centre through coolant, for vertical applications in oil and heavy industry	M20 - M56	A.154
WM-SFT	OX		HSSE spiral-fluted cutting tap for blind holes For mild steels	M4 - M20	A.155
SH-SFT			HSSE low spiral-fluted cutting tap for blind holes For alloyed steels ≥ 1100N/mm² Short chip creation	M3 - M20	A.156
CC-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines	M2 - M36	A.157
CC-LT-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium With long shank for long reach threading	M2 - M12	A.158
CC-NEO-SFT	TiN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Variable helix for better chip evacuation	M2 - M16	A.159
SUS-SFT	OX		HSSE high spiral-fluted cutting tap for blind holes For stainless steels	M2 - M24	A.160

Metric - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
HS-SFT-TIN	TiN		HSSE spiral-fluted cutting tap for blind holes For high speed tapping in various materials	M3 - M12	A.161
AL-SFT			HSSE spiral-fluted cutting tap for blind holes For aluminium and cast aluminium	M1,6 - M20	A.162
US-AL-SFT	V		HSSE spiral-fluted cutting tap for blind holes For high speed tapping in aluminium and cast aluminium Developed for rigid tapping on CNC machines	M3 - M12	A.163
V-TI-SFT	V		Powder metal low spiral-fluted cutting tap for blind holes For Titanium alloys	M1,6 - M12	A.164
E-SFT			Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718	M3 - M12	A.165
WHR-NI-SFT	HR		Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718	M3 - M12	A.166
CPM-SFT			Powder metal low spiral-fluted cutting tap for blind holes For steels up to 900 N/mm² and cast iron	M3 - M20	A.167
H-SFT	OX		Powder metal low spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC	M2 - M20	A.168
VP-H-SFT	V		Powder metal low spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC	M2 - M36	A.169
VPO-H-SFT	V		Powder metal spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC Centre through coolant	M6 - M36	A.170
V-EM-SFT	V		HSSE spiral-fluted cutting tap for blind holes For die cast aluminium Centre through coolant, with end cut, for pre-formed cast holes	M4 - M16	A.171

Metric - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VP-DC-MT NEW SIZES	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min	M2 - M30	A.172
VP-DC-MT FORM E NEW SIZES	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min, chamfer Form E	M3 - M24	A.173
VPO-DC-MT Center NEW SIZES	V		Powder metal straight flute cutting tap for blind holes For cast iron and aluminium cast. Synchro taps at cutting speeds > 30 m/min, with centre through coolant	M6 - M20	A.174
VPO-DC-MT Side NEW SIZES	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and aluminium cast. Synchro taps at cutting speeds > 30 m/min, with side through coolant	M6 - M20	A.175
VPO-DC-MT FORM E NEW SIZES	V		Powder metal straight flute cutting tap for blind holes For cast iron and aluminium cast. Synchro taps at cutting speeds > 30 m/min, center coolant through, chamfer Form E	M6 - M24	A.176

Metric - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-CHT OIL Center NEW	FX	A	Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant	M5 - M12	A.177
A-CHT OIL Side NEW	FX	A	Carbide straight flute cutting tap for through and blind holes For cast iron and aluminium cast Side through coolant	M5 - M12	A.178
A-CHT OIL FORM E NEW	FX	A	Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant, Form E chamfer	M5 - M12	A.179
OIL-C-MT Center LIMITED SUPPLY	FX		Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant	M6 - M12	A.180
OIL-C-MT Side LIMITED SUPPLY	FX		Carbide straight flute cutting tap for through holes For cast iron and aluminium cast Side through coolant	M6 - M12	A.181
OIL-C-MT FORM E LIMITED SUPPLY	FX		Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant, Form E chamfer	M6 - M12	A.182
GG-MT	NI-OX		HSSE straight flute cutting tap for blind and through holes For cast iron	M4 - M20	A.183
OIL-TXL-MT	OX		HSSE straight flute cutting tap for blind and through holes For cast iron and general steels For vertical and horizontal applications, side through coolant, up to M56	M20 - M56	A.184
EX-MCT	OX		HSSE low left-hand helix for blind and through holes For cast iron, cast aluminium and general steels Long shank for long reach tapping	M6 - M20	A.185
V-XPM-HT	V		Powder metal straight flute cutting tap for through and blind holes For hardened steels up to 52 HRC Highly wear resistant XPM tool substrate	M3 - M12	A.186
WH55-OT	V		Carbide straight flute cutting tap for blind and through holes For hardened steels up to 55 HRC	M3 - M12	A.187
WH55-OT FORM D	V		Carbide straight flute cutting tap for through holes For hardened steels up to 55 HRC Chamfer Form D	M3 - M12	A.188
VX-OT	V		Carbide straight flute cutting tap for blind and through holes For hardened steels up to 62 HRC	M3 - M12	A.189

Metric - Forming

Forming taps

Product series		A-brand	Features	Range	Page
A-XPF	V	A	Powder metal forming tap for through & blind holes High speed tapping in general steels, aluminium, stainless steels Powder metal for long tool life	M3 - M30	A.190
A-OIL-XPF	V	A	Powder metal forming tap for through & blind holes High speed tapping in general steels, aluminium, stainless steels Side through coolant	M5 - M45	A.191
S-XPF NEW SIZES	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	M1 - M30	A.192

Metric - Forming

Forming taps

Product series		A-brand	Features	Range	Page
S-OIL-XPF	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant	M5 - M45	A.193
S-XPF 6GX	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium For 6G internal thread tolerance	M2 - M16	A.194
S-OIL-XPF 6GX NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium For 6G internal thread tolerance, side through coolant	M5 - M16	A.195
S-XPF 7GX	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium For 7G internal thread tolerance	M2 - M16	A.196
S-XPF+0.1 NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Oversized tap for 6H +0,1mm thread tolerance	M3 - M16	A.197
S-XPF FORM D	V	A	HSSE forming tap for through holes For general steels, stainless steels, aluminium Chamfer Form D	M3 - M16	A.198
S-XPF FORM E	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Chamfer Form E	M2 - M16	A.199
S-OIL-XPF FORM E NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant, chamfer Form E	M5 - M16	A.200
S-LT-XPF	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium With long shank for long reach threading	M2 - M12	A.201
S-OIL-LT-XPF NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium With long shank for long reach threading, side through coolant	M6 - M12	A.202
S-XPF-LH	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium For left-hand threads	M3 - M24	A.203
S-XPF-HB Weldon	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium With Weldon shank	M3 - M16	A.204
S-XPF-GL NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Without oil grooves for higher rigidity	M3 - M12	A.205
S-XPF-GL 6GX NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Without oil grooves for higher rigidity, for 6G internal thread tolerance	M3 - M12	A.206
C-OIL-XPF	V	A	Carbide forming tap for through & blind holes For general steels, stainless steels, aluminium With side through coolant	M5 - M16	A.207
R-XPF	V		HSS forming tap for through & blind holes For general steels, stainless steels, aluminium	M3 - M6	A.208
R-XPF FORM D	V		HSS forming tap for through holes For general steels, stainless steels, aluminium	M3 - M6	A.209
R-XPF 6GX	V		HSS forming tap for through & blind holes For general steels, stainless steels, aluminium For 6G internal thread tolerance	M3 - M6	A.210
V-NRT	V		HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	M1 - M12	A.211

Metric - Forming

Forming taps

Product series		A-brand	Features	Range	Page
V-NRT 6GX	V		HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium For 6G internal thread tolerance	M2 - M10	A.212
V-NRT FORM D	V		HSSE forming tap for through holes For general steels, stainless steels, aluminium Chamfer Form D	M2 - M12	A.213
V-NRT 6GX FORM D	V		HSSE forming tap for through holes For general steels, stainless steels, aluminium For 6G internal thread tolerance, chamfer Form D	M2 - M10	A.214

Metric Fine- Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	MF2,5 - MF24	A.215
A-OIL-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels Side through coolant	MF8 - MF20	A.216
A-POT 6GX	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels For 6G internal thread tolerance	MF6 - MF24	A.217
S-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	MF3 - MF24	A.218
S-POT 6G NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels For 6G internal thread tolerance	MF6 - MF24	A.219
VA-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	MF3 - MF24	A.220
Z-POT	V		Powder metal spiral-point cutting tap for through holes High speed tapping in steels and stainless steels	MF3 - MF24	A.221
POT	OX		HSSE spiral-point cutting tap for through holes For general purpose applications	MF4 - MF30	A.222
CC-POT	CrN		HSSE spiral-point cutting tap for through holes For general steels and stainless steels Developed for rigid tapping on CNC machines	MF6 - MF24	A.223
H-POT	OX		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC	MF3 - MF24	A.224

Metric Fine- Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	MF2,5 - MF24	A.225
A-OIL-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels Centre through coolant	MF8 - MF20	A.226
A-SFT 6GX	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels For 6G internal thread tolerance	MF6 - MF24	A.227
A-CSF OIL NEW	FX	A	Carbide spiral-fluted cutting tap for blind holes For cast iron and aluminium cast Centre through coolant	MF8 - MF20	A.228
A-CSF OIL FORM E NEW	FX	A	Carbide spiral-fluted cutting tap for blind holes For cast iron and aluminium cast Centre through coolant, Form E chamfer	MF8 - MF16	A.229
S-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	MF3 - MF24	A.230
S-SFT 6G NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels For 6G internal thread tolerance	MF6 - MF24	A.231
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	MF3 - MF24	A.232
Z-SFT	V		Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels and stainless steels	MF3 - MF24	A.233
SFT			HSSE spiral-fluted cutting tap for blind holes For general purpose applications	MF4 - MF30	A.234
CC-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines	MF6 - MF24	A.235
SUS-SFT	OX		HSSE high spiral-fluted cutting tap for blind holes For stainless steels	MF8 - MF24	A.236
AL-SFT			HSSE spiral-fluted cutting tap for blind holes For aluminium and cast aluminium	MF8 - MF12	A.237
H-SFT	OX		Powder metal low spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC	MF3 - MF24	A.238

Metric Fine - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VP-DC-MT	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min	MF3 - MF24	A.239
VPO-DC-MT Center NEW SIZES	V		Powder metal straight flute cutting tap for blind holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min, with Centre through coolant	MF8 - MF20	A.240
VPO-DC-MT Side NEW SIZES	V		Powder metal straight flute cutting tap for through holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min, with side through coolant	MF8 - MF20	A.241
A-CHT OIL Center NEW	FX		Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant	MF8 - MF20	A.242
A-CHT OIL Side NEW	FX		Carbide straight flute cutting tap for through holes For cast iron and aluminium cast Side through coolant	MF8 -MF20	A.243
A-CHT OIL FORM E NEW	FX		Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant, Form E chamfer	MF10 - MF16	A.244
OIL-C-MT Center LIMITED SUPPLY	FX		Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant	MF10 - MF14	A.245
OIL-C-MT Side LIMITED SUPPLY	FX		Carbide straight flute cutting tap for through holes For cast iron and aluminium cast Side through coolant	MF10 - MF14	A.246
OIL-C-MT FORM E LIMITED SUPPLY	FX		Carbide straight flute cutting tap for blind holes For cast iron and aluminium cast Centre through coolant, Form E chamfer	MF10 - MF14	A.247
GG-MT	NI-OX		HSSE straight flute cutting tap for blind and through holes For cast iron	MF3 - MF24	A.248

Metric Fine - Forming

Forming taps

Product series		A-brand	Features	Range	Page
A-XPF	V	A	Powder metal forming tap for through & blind holes High speed tapping in general steels, aluminium, stainless steels Powder metal for long tool life	MF8 - MF24	A.249
A-OIL-XPF	V	A	Powder metal forming tap for through & blind holes High speed tapping in general steels, aluminium, stainless steels Side through coolant	MF8 - MF24	A.250
S-XPF	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	MF4 - MF24	A.251
S-OIL-XPF	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant	MF8 - MF24	A.252
S-XPF 6GX	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium For 6G internal thread tolerance	MF8 - MF24	A.253
S-OIL-XPF 6GX NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant For 6G internal thread tolerance	MF8 - MF24	A.254

Metric Fine - Forming

Forming taps

Product series		A-brand	Features	Range	Page
S-XPF FORM D	V	A	HSSE forming tap for through holes For general steels, stainless steels, aluminium Chamfer Form D	MF8 - MF20	A.255
S-XPF FORM E	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Chamfer Form E	MF10 - MF16	A.256
S-OIL-XPF FORM E NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant Chamfer Form E	MF8 - MF16	A.257
S-OIL-LT-XPF NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium With long shank for long reach threading, side through coolant	MF8 - MF14	A.258
S-XPF-GL NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Without oil grooves for higher rigidity	MF8 - MF24	A.259
S-XPF-GL 6GX NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Without oil grooves for higher rigidity, for 6G internal thread tolerance	MF8 - MF24	A.260
C-OIL-XPF	V		Carbide forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant	MF8 - MF16	A.261
V-NRT	V		HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	MF8 - MF12	A.262
V-NRT FORM D	V		HSSE forming tap for through holes For general steels, stainless steels, aluminium Chamfer Form D	MF8 - MF12	A.263

UNC - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	N.2 - 1"	A.264
S-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.2 - 1"	A.265
VA-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.4 - 1"	A.266

UNC - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	N.2 - 1"	A.267
S-SFT NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.2 - 1 1/2	A.268
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.4 - 1"	A.269
HXL-SFT	OX		HSSE low spiral-fluted cutting tap for blind holes For steels and cast iron For horizontal applications in oil and heavy industry	3/4 - 2 1/2	A.270
VXL-SFT	OX		HSSE high spiral-fluted cutting tap for blind holes For general steels For vertical applications in oil and heavy industry	3/4 - 2 1/2	A.271

UNC - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VP-DC-MT NEW SIZES	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min	N.2 - 1"	A.272

UNC - Forming

Forming taps

Product series		A-brand	Features	Range	Page
S-XPF	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	N.5 - 1"	A.273
S-OIL-XPF NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant	1/4 - 1"	A.274

UNF - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	N.2 - 1"	A.275
S-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.2 - 1"	A.276
VA-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.6 - 1"	A.277

UNF - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	N.2 - 1"	A.278
S-SFT NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.2 - 1"	A.279
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.6 - 1"	A.280

UNF - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VP-DC-MT NEW SIZES	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and aluminium cast Synchro taps at cutting speeds > 30 m/min	N.2 - 1"	A.281

UNF - Forming

Forming taps

Product series		A-brand	Features	Range	Page
S-XPF	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	N.6 - 1"	A.282
S-OIL-XPF NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant	1/4 - 1"	A.283

MJ - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
CC-NEO-SFT	TiN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Variable helix for better chip evacuation	MJ2 - MJ12	A.284
V-TI-SFT	V		Powder metal low spiral-fluted cutting tap for blind holes For Titanium alloys	MJ2 - MJ12	A.285

UNJC - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
VA-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.4 - N.8	A.286
V-TI-POT	V		Powder metal spiral-point cutting tap for through holes For Titanium alloys	N.4 - N.8	A.287
E-POT			Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718	N.4 - 1"	A.288
WHR-NI-POT	HR		Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718	N.4 - 1"	A.289
H-POT	OX		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC	N.4 - N.8	A.290

UNJC - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.4 - N.8	A.291
CC-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines	N.4 - 1"	A.292
V-TI-SFT	V		Powder metal low spiral-fluted cutting tap for blind holes For Titanium alloys	N.4 - N.8	A.293
E-SFT			Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718	N.4 - 1"	A.294
WHR-NI-SFT	HR		Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718	N.4 - 1"	A.295
H-SFT	OX		Powder metal low spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC	N.4 - N.8	A.296

UNJF - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
VA-POT	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.10 - 1/2	A.297
V-TI-POT	V		Powder metal spiral-point cutting tap for through holes For Titanium alloys	N.10 - 1/2	A.298
E-POT			Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718	N.10 - 7/8	A.299
WHR-NI-POT	HR		Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718	N.10 - 7/8	A.300
H-POT	OX		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC	N.10 - 1/2	A.301

UNJF - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.10 - 1/2	A.302
CC-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines	N.10 - 1"	A.303
V-TI-SFT	V		Powder metal low spiral-fluted cutting tap for blind holes For Titanium alloys	N.10 - 1/2	A.304
E-SFT			Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718	N.10 - 7/8	A.305
WHR-NI-SFT	HR		Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718	N.10 - 7/8	A.306
H-SFT	OX		Powder metal low spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC	N.10 - 1/2	A.307

HELICOIL M - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
CC-HL-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines, for thread insert	M3 - M12	A.308

HELICOIL MJ - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
E-HL-POT			Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718 For thread insert	MJ2 - MJ10	A.309
H-HL-POT	0X		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC For thread insert	MJ2 - MJ10	A.310

HELICOIL MJ - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
E-HL-SFT			Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718 For thread insert	MJ2 - MJ10	A.311
H-HL-SFT	0X		Powder metal spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC For thread insert	MJ2 - MJ10	A.312

HELICOIL UNJC - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
E-HL-POT			Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718 For thread insert	N.4 -N.8	A.313
H-HL-POT	0X		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC For thread insert	N.4 -N.8	A.314

HELICOIL UNJC - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
E-HL-SFT			Powder metal low spiral fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718 For thread insert	N.4 -N.8	A.315
H-HL-SFT	0X		Powder metal low spiral fluted cutting tap for blind holes For hardened steels up to 45 HRC For thread insert	N.4 -N.8	A.316

HELICOIL UNJF - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
E-HL-POT			Powder metal spiral-point cutting tap for through holes For Nickel-based alloys including Inconel 718 For thread insert	N.10 - 1/2	A.317
H-HL-POT	OX		Powder metal spiral-point cutting tap for through holes For hardened steels up to 45 HRC For thread insert	N.10 - 1/2	A.318

HELICOIL UNJF - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
CC-HL-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines, for thread insert	N.10 - 3/8	A.319
E-HL-SFT			Powder metal low spiral-fluted cutting tap for blind holes For Nickel-based alloys including Inconel 718 For thread insert	N.10 - 1/2	A.320
H-HL-SFT	OX		Powder metal low spiral-fluted cutting tap for blind holes For hardened steels up to 45 HRC For thread insert	N.10 - 1/2	A.321

BSW - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	1/8 - 1"	A.322
S-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	1/8 - 1"	A.323

BSW - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	1/8 - 1"	A.324
S-SFT NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	1/8 - 1"	A.325

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Threading

BSF - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	1/4 - 1"	A.326
S-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	1/4 - 1"	A.327

BSF - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	1/4 - 1"	A.328
S-SFT NEW	OX		HSSE spiral-point cutting tap for blind holes General purpose tapping in steels and stainless steels	1/4 - 1"	A.329

BA - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	N.0 - N.12	A.330
S-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	N.0 - N.12	A.331

BA - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	N.0 - N.12	A.332
S-SFT NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	N.0 - N.12	A.333

G - Through hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-POT	V	A	Powder metal spiral-point cutting tap for through holes High speed tapping in general steels, aluminium, stainless steels	1/8 - 1"	A.334
S-POT NEW	OX		HSSE spiral-point cutting tap for through holes General purpose tapping in steels and stainless steels	1/8 - 1"	A.335
POT			HSSE spiral-point cutting tap for through holes For general purpose applications	1/8 - 1"	A.336

G - Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-SFT	V	A	Powder metal spiral-fluted cutting tap for blind holes High speed tapping in general steels, aluminium, stainless steels	1/8 - 1"	A.337
S-SFT NEW	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	1/8 - 1"	A.338
VA-SFT	OX		HSSE spiral-fluted cutting tap for blind holes General purpose tapping in steels and stainless steels	1/8 - 1"	A.339
SFT			HSSE spiral-fluted cutting tap for blind holes For general purpose applications	1/8 - 1"	A.340
SH-SFT			HSSE low spiral-fluted cutting tap for blind holes For alloyed steels ≥ 1100N/mm² Short chip creation	1/8 - 1/2	A.341
CC-SFT	CrN		HSSE spiral-fluted cutting tap for blind holes For general steels, stainless steels and aluminium Developed for rigid tapping on CNC machines	1/8 - 1/2	A.342

G - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
VP-DC-MT NEW	V		Powder metal straight flute cutting tap for through and blind holes For cast iron and cast aluminium Synchro taps at cutting speeds > 30 m/min	1/16 - 2"	A.343
GG-MT	Ni-Ox		HSSE straight flute cutting tap for blind and through holes NiOx coating For cast iron	1/8 - 1/2	A.344
VX-OT	V		Carbide straight flute cutting tap for blind and through holes For hardened steels up to 62 HRC	1/8 - 1/2	A.345

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Threading

G - Forming

Forming taps

Product series		A-brand	Features	Range	Page
S-XPF NEW SIZES	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium	1/8 - 1"	A.346
S-OIL-XPF NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Side through coolant	1/4 - 1"	A.347
S-XPF-GL NEW	V	A	HSSE forming tap for through & blind holes For general steels, stainless steels, aluminium Without oil grooves for higher rigidity	1/8 - 1"	A.348

Rc (BSPT) - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
A-TPT	V	A	Powder metal straight flute cutting tap for through & blind holes High speed tapping in general steels and aluminium RC (BSPT) tapered 1:16	1/8 - 1"	A.349
S-TPT NEW	OX		HSSE straight flute cutting tap for through & blind holes For general steels and aluminium RC (BSPT) tapered 1:16	1/8 - 1"	A.350

NPT - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
NPT			HSSE straight flute cutting tap for through & blind holes For general steels, aluminium and cast iron Tapered 1:16	1/16 - 1"	A.351

PG - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
PG			HSSE straight flute cutting tap for through & blind holes For general steels, aluminium and cast iron For PG thread	7 - 48	A.352

Serial Form - Through & Blind hole

Cutting taps

Product series		A-brand	Features	Range	Page
HT			HSS straight flute cutting tap for through & blind holes For general steels, aluminium and cast iron Progressive thread , set of 3 taps with short shank	M2 - M20	A.353
HT-VA-OX	OX		HSSE straight flute cutting tap for through & blind holes For general steels, aluminium and cast iron Progressive thread , set of 3 taps with short shank	M2 - M20	A.354

Tapping Holder

Cutting taps

Product series		A-brand	Features	Range	Page
Plusline Synchrofit			Tap holder with radial cutting force compensation For tapping sizes from M4 to M20 Straight shank type, for ER16-GB and ER-25-GB collet type	-	A.355

Thread Mill

Thread Mill

Product series		A-brand	Features	Range	Page
WX-ST-PNC-3P	SC WXS		Carbide thread milling cutter with 3 crest thread length For all materials and hardened steels up to 50 HRC	M1,3 - M20	A.356
WH-VM-PNC	SC WXS		Carbide thread milling cutter for small sizes For all materials and hardened steels up to 50 HRC	M1 - M5	A.357
WX-PNC	WX		Carbide thread milling cutter For all materials	M6 - M27	A.358
WXO-ST-PNC	WX		Carbide thread milling cutter with Centre through coolant For all materials and hardened steels up to 45 HRC	M6 - M27	A.359
WH-VM-PNC	WXS		Carbide thread milling cutter for small sizes For all materials and hardened steels up to 50 HRC	N.8	A.360
WX-PNC	WX		Carbide thread milling cutter For all materials	1/4 - 7/8	A.361
WX-ST-PNC-3P	WXS		Carbide thread milling cutter with 3 crest thread length For all materials and hardened steels up to 50 HRC	G1/8 - G2	A.362
WX-PNC	WX		Carbide thread milling cutter For all materials	1/16 - 3/8	A.363
WX-PNC	WX		Carbide thread milling cutter For all materials	1/8 - 2	A.364
WX-PNC	WX		Carbide thread milling cutter For all materials	1/16 - 2	A.365

Thread Gauge

Thread Gauge

Product series		A-brand	Features	Range	Page
DCT			Diameter correction tool for thread mill Reduce the set up and machining time Measurable range 100% ~-50% tolerance of thread size 6H	M6 - M24	A.366
DCT			Diameter correction tool for thread mill Reduce the set up and machining time Measurable range 100% ~-50% tolerance of thread size 3B	5/16	A.367

Serial Solid Circular Dies

Serial Solid Circular Dies

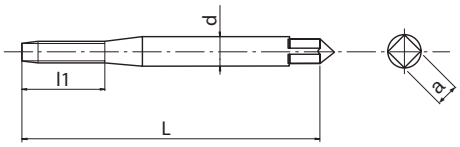
Product series		A-brand	Features	Range	Page
DIN 223B			HSS solid circular dies DIN223B With spiral entry for forward chip ejection Chamfer lead on both sides	M3 - M20	A.368
DIN 223B			HSS solid circular dies DIN223B With spiral entry for forward chip ejection Chamfer lead on both sides	1/8 - 1/2	A.369

A-POT NEW SIZES

Sizes M1 & M1,1
available from November 2017

Threading | Cutting taps | Metric

Type 1



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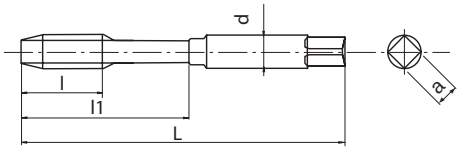

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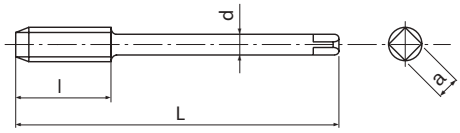


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | M | PM | V | ISO 2 6HX | B/4 | DIN 371 | DIN 376

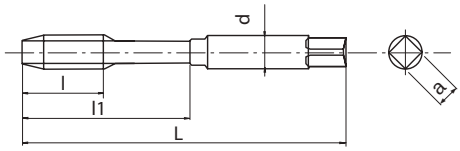
* Tolerance 5HX

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
*48145111 NEW	1	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48145112 NEW	1,1	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48145113 NEW	1,2	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48145115	1,4	0,3	40	-	7	2,5	2,1	2	1	DIN371
48145118	1,6	0,35	40	-	8	2,5	2,1	2	1	DIN371
48145119	1,7	0,35	40	-	8	2,5	2,1	2	1	DIN371
48145120	1,8	0,35	40	-	8	2,5	2,1	2	1	DIN371
48145125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48145127	2,2	0,45	45	-	9	2,8	2,1	2	1	DIN371
48145128	2,3	0,4	45	-	9	2,8	2,1	2	1	DIN371
48145133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48145136	2,6	0,45	50	-	9	2,8	2,1	2	1	DIN371
48145138	3	0,5	56	11	18	3,5	2,7	3	2	DIN371
48145142	3,5	0,6	56	12	20	4	3	3	2	DIN371
48145144	4	0,7	63	13	21	4,5	3,4	3	2	DIN371
48145147	4,5	0,75	70	16	25	6	4,9	3	2	DIN371
48145149	5	0,8	70	16	25	6	4,9	3	2	DIN371
48145152	5,5	0,9	80	17	30	6	4,9	3	2	DIN371
48145155	6	1	80	19	30	6	4,9	3	2	DIN371
48145158	7	1	80	19	30	7	5,5	3	2	DIN371
48145161	8	1,25	90	22	35	8	6,2	3	2	DIN371
48145165	9	1,25	90	22	35	9	7	3	2	DIN371
48145169	10	1,5	100	24	39	10	8	3	2	DIN371
48145139	3	0,5	56	11	-	2,2	-	3	3	DIN376
48145185	4	0,7	63	13	-	2,8	2,1	3	3	DIN376
48145150	5	0,8	70	16	-	3,5	2,7	3	3	DIN376
48145187	6	1	80	19	-	4,5	3,4	3	3	DIN376
48145159	7	1	80	19	-	5,5	4,3	3	3	DIN376
48145188	8	1,25	90	22	-	6	4,9	3	3	DIN376
48145166	9	1,25	90	22	-	7	5,5	3	3	DIN376
48145189	10	1,5	100	24	-	7	5,5	3	3	DIN376
48145175	11	1,5	100	24	-	8	6,2	3	3	DIN376
48145179	12	1,75	110	28	-	9	7	3	3	DIN376
48145191	14	2	110	30	-	11	9	3	3	DIN376
48145202	16	2	110	32	-	12	9	3	3	DIN376
48145214	18	2,5	125	34	-	14	11	3	3	DIN376
48145228	20	2,5	140	34	-	16	12	3	3	DIN376
48145238	22	2,5	140	34	-	18	14,5	3	3	DIN376
48145247	24	3	160	38	-	18	14,5	3	3	DIN376

A-OIL-POT

Threading | Cutting taps | Metric

Type 1



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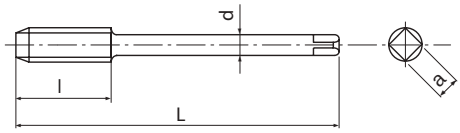

- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Side through coolant

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48214155	6	1	80	19	30	6	4,9	3	1	DIN371
48214161	8	1,25	90	22	35	8	6,2	3	1	DIN371
48214169	10	1,5	100	24	39	10	8	3	1	DIN371
48214179	12	1,75	110	28	-	9	7	3	2	DIN376
48214191	14	2	110	30	-	11	9	3	2	DIN376
48214202	16	2	110	32	-	12	9	3	2	DIN376
48214214	18	2,5	125	34	-	14	11	3	2	DIN376
48214228	20	2,5	140	34	-	16	12	3	2	DIN376
48214238	22	2,5	140	34	-	18	14,5	3	2	DIN376
48214247	24	3	160	38	-	18	14,5	3	2	DIN376

A-POT 6GX

Threading | Cutting taps | Metric

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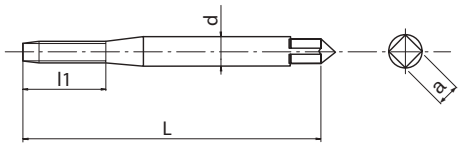

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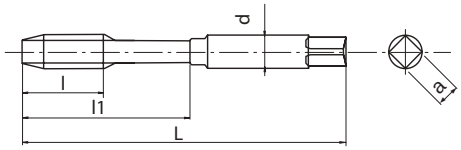

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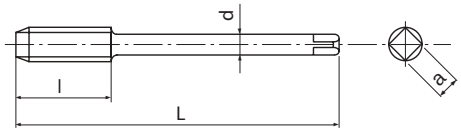


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

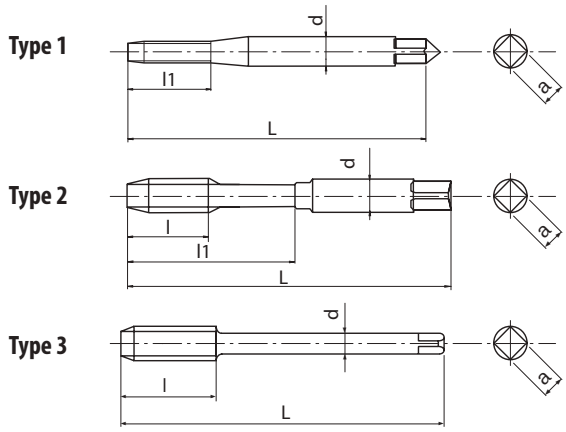
P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | M | PM | V | ISO 3 6GX | B/4 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48205125	2	0,4	+0,019	45	-	8	2,8	2,1	2	1	DIN371
48205133	2,5	0,45	+0,020	50	-	9	2,8	2,1	2	1	DIN371
48205138	3	0,5	+0,020	56	11	18	3,5	2,7	3	2	DIN371
48205144	4	0,7	+0,022	63	13	21	4,5	3,4	3	2	DIN371
48205149	5	0,8	+0,024	70	16	25	6	4,9	3	2	DIN371
48205155	6	1	+0,026	80	19	30	6	4,9	3	2	DIN371
48205161	8	1,25	+0,028	90	22	35	8	6,2	3	2	DIN371
48205169	10	1,5	+0,032	100	24	39	10	8	3	2	DIN371
48205179	12	1,75	+0,034	110	28	-	9	7	3	3	DIN376
48205202	16	2	+0,038	110	32	-	12	9	3	3	DIN376

A-POT 7GX

Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 7G internal thread tolerance

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

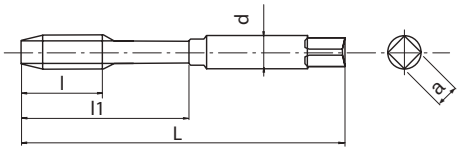
A | M | PM | V | 7GX | B/4 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48206125	2	0,4	+0,038	45	-	8	2,8	2,1	2	1	DIN371
48206133	2,5	0,45	+0,040	50	-	9	2,8	2,1	2	1	DIN371
48206138	3	0,5	+0,040	56	11	18	3,5	2,7	3	2	DIN371
48206144	4	0,7	+0,044	63	13	21	4,5	3,4	3	2	DIN371
48206149	5	0,8	+0,048	70	16	25	6	4,9	3	2	DIN371
48206155	6	1	+0,052	80	19	30	6	4,9	3	2	DIN371
48206161	8	1,25	+0,056	90	22	35	8	6,2	3	2	DIN371
48206169	10	1,5	+0,064	100	24	39	10	8	3	2	DIN371
48206179	12	1,75	+0,068	110	14	-	28	7	3	3	DIN376
48206202	16	2	+0,076	110	16	-	32	9	3	3	DIN376

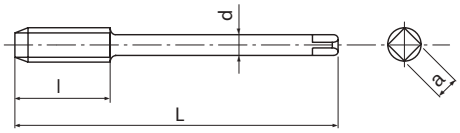
A-POT+0.1

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

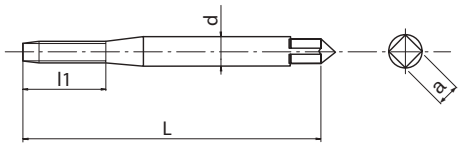
A | M | PM | V | 6H +0.1 | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48259138	3	0,5	56	11	18	3,5	2,7	3	1	DIN371
48259144	4	0,7	63	13	21	4,5	3,4	3	1	DIN371
48259149	5	0,8	70	16	25	6	4,9	3	1	DIN371
48259155	6	1	80	19	30	6	4,9	3	1	DIN371
48259161	8	1,25	90	22	35	8	6,2	3	1	DIN371
48259169	10	1,5	100	24	39	10	8	3	1	DIN371
48259179	12	1,75	110	28	-	9	7	3	2	DIN376
48259202	16	2	110	32	-	12	9	3	2	DIN376

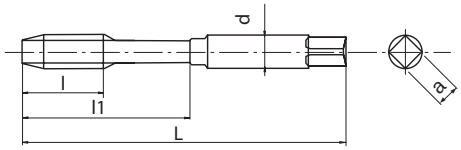
A-LT-POT

Threading | Cutting taps | Metric

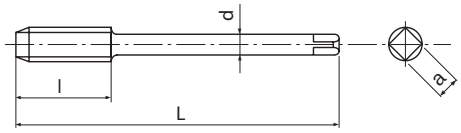
Type 1



Type 2



Type 3



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With long shank for long reach threading

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

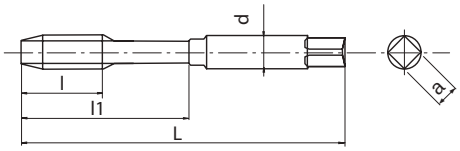
A | M | PM | V | ISO 2 6HX | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48210125	2	0,4	80	8	-	2,8	2,1	2	1	DIN371
48210133	2,5	0,45	100	9	-	2,8	2,1	2	1	DIN371
48210138	3	0,5	100	11	18	3,5	2,7	3	2	DIN371
48210144	4	0,7	125	13	21	4,5	3,4	3	2	DIN371
48210149	5	0,8	160	16	25	6	4,9	3	2	DIN371
48210155	6	1	160	19	30	6	4,9	3	2	DIN371
48210161	8	1,25	180	22	35	8	6,2	3	2	DIN371
48210169	10	1,5	200	24	39	10	8	3	2	DIN371
48211155	6	1	160	19	-	4,5	3,4	3	3	DIN376
48211161	8	1,25	180	22	-	6	4,9	3	3	DIN376
48211169	10	1,5	200	24	-	7	5,5	3	3	DIN376
48211179	12	1,75	200	28	-	9	7	3	3	DIN376
48211191	14	2	200	30	-	11	9	3	3	DIN376
48211202	16	2	200	32	-	12	9	3	3	DIN376
48211214	18	2,5	200	34	-	14	11	3	3	DIN376
48211228	20	2,5	200	34	-	16	12	3	3	DIN376

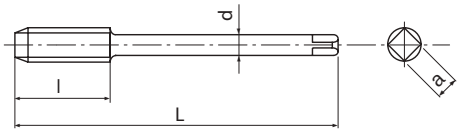
A-POT-LH

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For left-hand threads

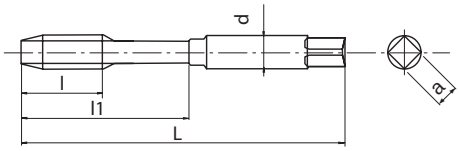
P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | M | PM | V | ISO 2 6HX | B/4 | DIN 371 | DIN 376 | LH

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48218138	3	0,5	56	11	18	3,5	2,7	3	1	DIN371
48218144	4	0,7	63	13	21	4,5	3,4	3	1	DIN371
48218149	5	0,8	70	16	25	6	4,9	3	1	DIN371
48218155	6	1	80	19	30	6	4,9	3	1	DIN371
48218161	8	1,25	90	22	35	8	6,2	3	1	DIN371
48218169	10	1,5	100	24	39	10	8	3	1	DIN371
48218179	12	1,75	110	28	-	9	7	3	2	DIN376
48218191	14	2	110	30	-	11	9	3	2	DIN376
48218202	16	2	110	32	-	12	9	3	2	DIN376
48218214	18	2,5	125	34	-	14	11	3	2	DIN376
48218228	20	2,5	140	34	-	16	12	3	2	DIN376
48218238	22	2,5	140	34	-	18	14,5	3	2	DIN376
48218247	24	3	160	38	-	18	14,5	3	2	DIN376

A-POT-HB Weldon

Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With Weldon shank

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A	M	PM	V	ISO 2 6HX	B/4		DIN 371	DIN 376	DIN 1835	HB

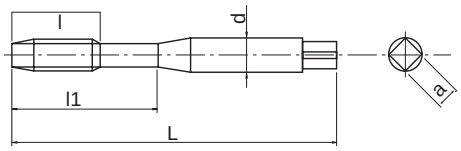
EDP	M	P	L	l	l1	d	a	Z	DIN
48221138	3	0,5	56	11	18	6	4,9	3	DIN371/1835
48221144	4	0,7	63	13	21	6	4,9	3	DIN371/1835
48221149	5	0,8	70	16	25	6	4,9	3	DIN371/1835
48221155	6	1	80	19	30	6	4,9	3	DIN371/1835
48221161	8	1,25	90	22	35	8	6,2	3	DIN371/1835
48221169	10	1,5	100	24	39	10	8	3	DIN371/1835
48221179	12	1,75	110	28	46	12	9	3	DIN376/1835
48221191	14	2	110	30	49	14	11	3	DIN376/1835
48221202	16	2	110	32	56	16	12	3	DIN376/1835

S-POT NEW SIZES

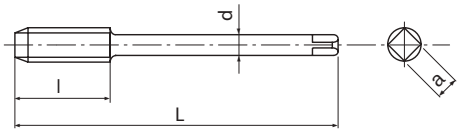
M1, M1,1 & M1,2
available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

M | HSSE | OX | ISO 2 6H | ISO 1 5H<M 1,4 | B/4 | DIN 371 | DIN 376

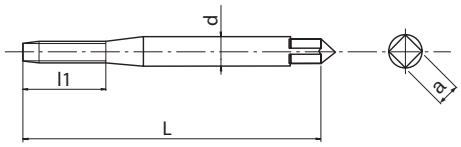
* Tolerance 5H

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
*48224111 NEW	1	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48224112 NEW	1,1	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48224113 NEW	1,2	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48224115 NEW	1,4	0,3	40	-	7	2,5	2,1	2	1	DIN371
48224118 NEW	1,6	0,35	40	-	8	2,5	2,1	2	1	DIN371
48224119 NEW	1,7	0,35	40	-	8	2,5	2,1	2	1	DIN371
48224120 NEW	1,8	0,35	40	-	8	2,5	2,1	2	1	DIN371
48224125 NEW	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48224127 NEW	2,2	0,45	45	-	9	2,8	2,1	2	1	DIN371
48224128 NEW	2,3	0,4	45	-	9	2,8	2,1	2	1	DIN371
48224133 NEW	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48224136 NEW	2,6	0,45	50	-	9	2,8	2,1	2	1	DIN371
48224138	3	0,5	56	11	18	3,5	2,7	3	1	DIN371
48224142 NEW	3,5	0,6	56	12	20	4	3	3	1	DIN371
48224144	4	0,7	63	13	21	4,5	3,4	3	1	DIN371
48224147 NEW	4,5	0,75	70	16	25	6	4,9	3	1	DIN371
48224149	5	0,8	70	16	25	6	4,9	3	1	DIN371
48224152 NEW	5,5	0,9	80	17	30	6	4,9	3	1	DIN371
48224155	6	1	80	19	30	6	4,9	3	1	DIN371
48224158 NEW	7	1	80	19	30	7	5,5	3	1	DIN371
48224161	8	1,25	90	22	35	8	6,2	3	1	DIN371
48224165 NEW	9	1,25	90	22	35	9	7	3	1	DIN371
48224169	10	1,5	100	24	39	10	8	3	1	DIN371
48224140 NEW	3	0,5	56	11	-	2,2	-	3	2	DIN376
48224185 NEW	4	0,7	63	13	-	2,8	2,1	3	2	DIN376
48224150 NEW	5	0,8	70	16	-	3,5	2,7	3	2	DIN376
48224187 NEW	6	1	80	19	-	4,5	3,4	3	2	DIN376
48224159 NEW	7	1	80	19	-	5,5	4,3	3	2	DIN376
48224188 NEW	8	1,25	90	22	-	6	4,9	3	2	DIN376
48224166 NEW	9	1,25	90	22	-	7	5,5	3	2	DIN376
48224189 NEW	10	1,5	100	24	-	7	5,5	3	2	DIN376
48224175 NEW	11	1,5	100	24	-	8	6,2	3	2	DIN376
48224179	12	1,75	110	28	-	9	7	3	2	DIN376
48224191	14	2	110	30	-	11	9	3	2	DIN376
48224202	16	2	110	32	-	12	9	3	2	DIN376
48224214	18	2,5	125	34	-	14	11	3	2	DIN376
48224228	20	2,5	140	34	-	16	12	3	2	DIN376
48224238	22	2,5	140	34	-	18	14,5	3	2	DIN376
48224247	24	3	160	38	-	18	14,5	3	2	DIN376

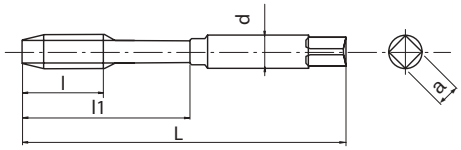
S-POT 6G NEW

Threading | Cutting taps | Metric

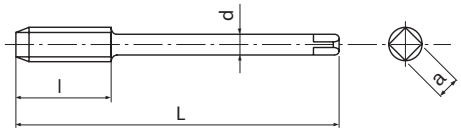
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 6G internal thread tolerance

P ◉	P ◉	P ◉	P ◉	M ◉	K ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

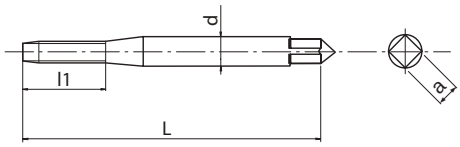
M | HSSE | OX | ISO 3 6G | B/4 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48272125	2	0,4	+0,019	45	8	-	2,8	2,1	2	1	DIN371
48272133	2,5	0,45	+0,020	50	9	-	2,8	2,1	2	1	DIN371
48272138	3	0,5	+0,020	56	11	18	3,5	2,7	3	2	DIN371
48272144	4	0,7	+0,022	63	13	21	4,5	3,4	3	2	DIN371
48272149	5	0,8	+0,024	70	16	25	6	4,9	3	2	DIN371
48272155	6	1	+0,026	80	19	30	6	4,9	3	2	DIN371
48272161	8	1,25	+0,028	90	22	35	8	6,2	3	2	DIN371
48272169	10	1,5	+0,032	100	24	39	10	8	3	2	DIN371
48272179	12	1,75	+0,034	110	28	-	9	7	3	3	DIN376
48272191	14	2	+0,038	110	30	-	11	9	3	3	DIN376
48272202	16	2	+0,038	110	32	-	12	9	3	3	DIN376

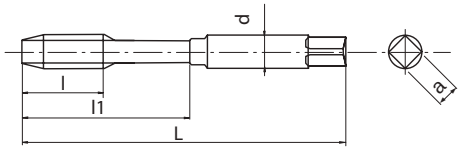
S-POT 7G NEW

Threading | Cutting taps | Metric

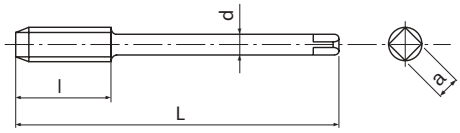
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 7G internal thread tolerance

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

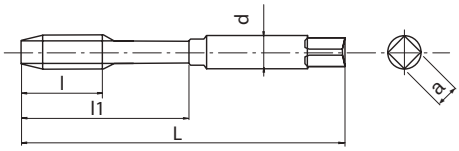
M | HSSE | OX | 7G | B/4 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48273125	2	0,4	+0,038	45	8	-	2,8	2,1	2	1	DIN371
48273133	2,5	0,45	+0,040	50	9	-	2,8	2,1	2	1	DIN371
48273138	3	0,5	+0,040	56	11	18	3,5	2,7	3	2	DIN371
48273144	4	0,7	+0,044	63	13	21	4,5	3,4	3	2	DIN371
48273149	5	0,8	+0,048	70	16	25	6	4,9	3	2	DIN371
48273155	6	1	+0,052	80	19	30	6	4,9	3	2	DIN371
48273161	8	1,25	+0,056	90	22	35	8	6,2	3	2	DIN371
48273169	10	1,5	+0,064	100	24	39	10	8	3	2	DIN371
48273179	12	1,75	+0,068	110	28	-	9	7	3	3	DIN376
48273191	14	2	+0,076	110	30	-	11	9	3	3	DIN376
48273202	16	2	+0,076	110	32	-	12	9	3	3	DIN376

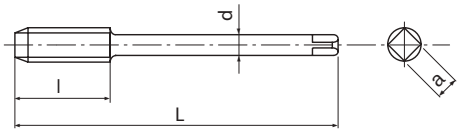
S-POT+0.1 NEW

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

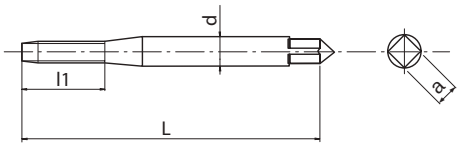
M | HSSE | OX | 6H +0.1 | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48271138	3	0,5	56	11	18	3,5	2,7	3	1	DIN371
48271144	4	0,7	63	13	21	4,5	3,4	3	1	DIN371
48271149	5	0,8	70	16	25	6	4,9	3	1	DIN371
48271155	6	1	80	19	30	6	4,9	3	1	DIN371
48271161	8	1,25	90	22	35	8	6,2	3	1	DIN371
48271169	10	1,5	100	24	39	10	8	3	1	DIN371
48271179	12	1,75	110	28	-	9	7	3	2	DIN376
48271191	14	2	110	30	-	11	9	3	2	DIN376
48271202	16	2	110	32	-	12	9	3	2	DIN376

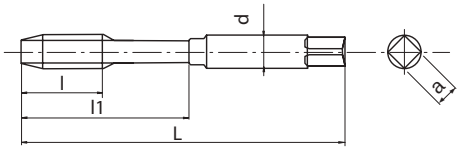
S-LT-POT NEW

Threading | Cutting taps | Metric

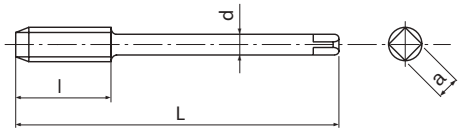
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- With long shank for deep threading

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

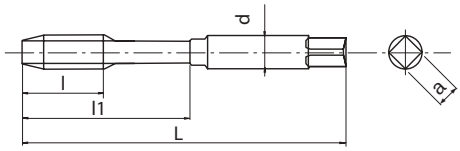
M | HSSE | OX | ISO 2 6H | B/4

EDP	M	P	L	l	l1	d	a	Z	Type
48278125	2	0,4	80	8	-	2,8	2,1	2	1
48278133	2,5	0,45	100	9	-	2,8	2,1	2	1
48278138	3	0,5	100	11	18	3,5	2,7	3	2
48278144	4	0,7	125	13	21	4,5	3,4	3	2
48278149	5	0,8	160	16	25	6	4,9	3	2
48278155	6	1	160	19	30	6	4,9	3	2
48278161	8	1,25	180	22	35	8	6,2	3	2
48278169	10	1,5	200	24	39	10	8	3	2
48278187	6	1	160	19	-	4,5	3,4	3	2
48278188	8	1,25	180	22	-	6	4,9	3	2
48278189	10	1,5	200	24	-	7	5,5	3	2
48278179	12	1,75	200	28	-	9	7	3	3
48278191	14	2	200	30	-	11	9	3	3
48278202	16	2	200	32	-	12	9	3	3
48278214	18	2,5	200	34	-	14	11	3	3
48278228	20	2,5	200	34	-	16	12	3	3

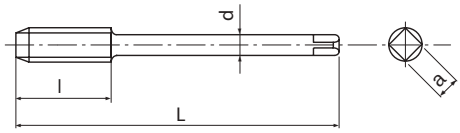
S-POT-LH NEW

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For left-hand threads

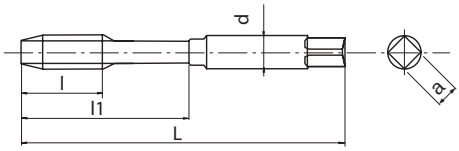
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

M | HSSE | OX | ISO 2 6H | B/4 | DIN 371 | DIN 376 | LH

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48280138	3	0,5	56	11	18	3,5	2,7	3	1	DIN371
48280144	4	0,7	63	13	21	4,5	3,4	3	1	DIN371
48280149	5	0,8	70	16	25	6	4,9	3	1	DIN371
48280155	6	1	80	19	30	6	4,9	3	1	DIN371
48280161	8	1,25	90	22	35	8	6,2	3	1	DIN371
48280169	10	1,5	100	24	39	10	8	3	1	DIN371
48280179	12	1,75	110	28	-	9	7	3	2	DIN376
48280191	14	2	110	30	-	11	9	3	2	DIN376
48280202	16	2	110	32	-	12	9	3	2	DIN376
48280214	18	2,5	125	34	-	14	11	3	2	DIN376
48280228	20	2,5	140	34	-	16	12	3	2	DIN376
48280238	22	2,5	140	34	-	18	14,5	3	2	DIN376
48280247	24	3	160	38	-	18	14,5	3	2	DIN376

S-POT-HB Weldon NEW

Threading | Cutting taps | Metric



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- With Weldon shank

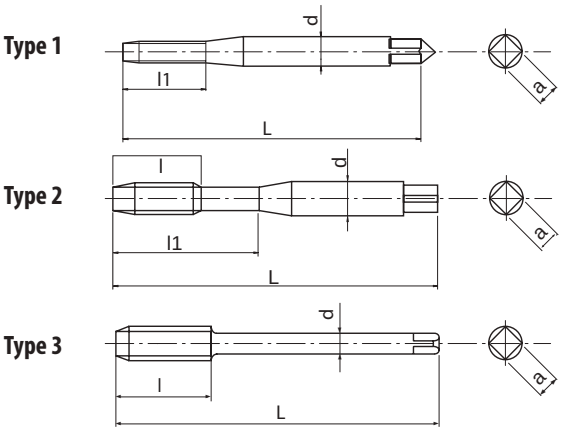
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

M | HSSE | OX | ISO 2 6H | B/4 | DIN 371 | DIN 1835 | HB

EDP	M	P	L	l	l1	d	a	Z	DIN
48279138	3	0,5	56	11	18	6	4,9	3	DIN371/1835
48279144	4	0,7	63	13	21	6	4,9	3	DIN371/1835
48279149	5	0,8	70	16	25	6	4,9	3	DIN371/1835
48279155	6	1	80	19	30	6	4,9	3	DIN371/1835
48279161	8	1,25	90	22	35	8	6,2	3	DIN371/1835
48279169	10	1,5	100	24	39	10	8	3	DIN371/1835
48279179	12	1,75	110	28	46	12	9	3	DIN371/1835
48279191	14	2	110	30	49	14	11	3	DIN371/1835
48279202	16	2	110	32	56	16	12	3	DIN371/1835

VA-POT

Threading | Cutting taps | Metric



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

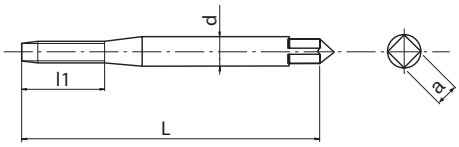
M | HSSE | OX | ISO 2 6H | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
63812560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
63812860	2,2	0,45	45	-	9	2,8	2,1	2	1	DIN371
63813360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
63813860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
63814060	3,5	0,6	56	-	20	4	3	3	2	DIN371
63814460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
63814960	5	0,8	70	-	25	6	4,9	3	2	DIN371
63815560	6	1	80	-	30	6	4,9	3	2	DIN371
63816160	8	1,25	90	-	35	8	6,2	3	2	DIN371
63816960	10	1,5	100	-	39	10	8	3	2	DIN371
63913860	3	0,5	56	11	-	2,2	-	3	3	DIN376
63914460	4	0,7	63	13	-	2,8	2,1	3	3	DIN376
63914960	5	0,8	70	16	-	3,5	2,7	3	3	DIN376
63915560	6	1	80	19	-	4,5	3,4	3	3	DIN376
63916160	8	1,25	90	22	-	6	4,9	3	3	DIN376
63916960	10	1,5	100	24	-	7	5,5	3	3	DIN376
63917960	12	1,75	110	28	-	9	7	3	3	DIN376
63919160	14	2	110	30	-	11	9	3	3	DIN376
63920260	16	2	110	32	-	12	9	3	3	DIN376
63921460	18	2,5	125	34	-	14	11	3	3	DIN376
63922860	20	2,5	140	34	-	16	12	3	3	DIN376
63923860	22	2,5	140	34	-	18	14,5	3	3	DIN376
63924760	24	3	160	38	-	18	14,5	3	3	DIN376
63926260	27	3	160	38	-	20	16	4	3	DIN376
63927160	30	3,5	180	45	-	22	18	4	3	DIN376
63928160	33	3,5	180	50	-	25	20	4	3	DIN376
63929460	36	4	200	56	-	28	22	4	3	DIN376

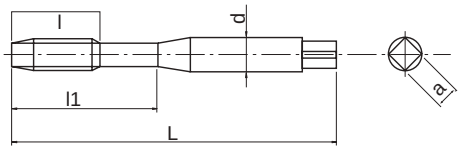
VA-POT 6G

Threading | Cutting taps | Metric

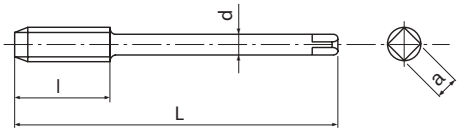
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 6G internal thread tolerance

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

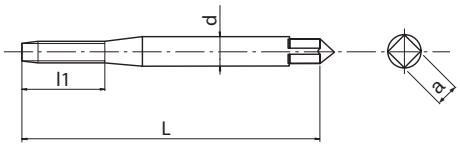
M | HSSE | OX | ISO 3 6G | B/4 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
63812599	2	0,4	+0,019	45	-	8	2,8	2,1	2	1	DIN371
63813399	2,5	0,45	+0,020	50	-	9	2,8	2,1	2	1	DIN371
63813899	3	0,5	+0,020	56	-	18	3,5	2,7	3	2	DIN371
63814499	4	0,7	+0,022	63	-	21	4,5	3,4	3	2	DIN371
63814999	5	0,8	+0,024	70	-	25	6	4,9	3	2	DIN371
63815599	6	1	+0,026	80	-	30	6	4,9	3	2	DIN371
63816199	8	1,25	+0,028	90	-	35	8	6,2	3	2	DIN371
63816999	10	1,5	+0,032	100	-	39	10	8	3	2	DIN371
63917999	12	1,75	+0,034	110	28	-	9	7	3	3	DIN376
63919199	14	2	+0,038	110	30	-	11	9	3	3	DIN376
63920299	16	2	+0,038	110	32	-	12	9	3	3	DIN376

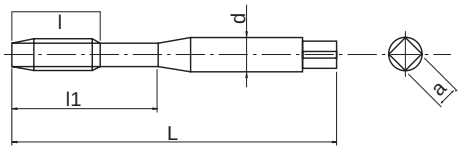
Z-POT

Threading | Cutting taps | Metric

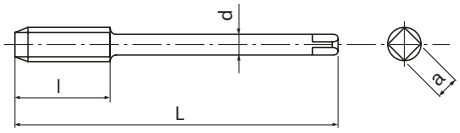
Type 1



Type 2



Type 3



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels and stainless steels

P ◉	P ◉	P ◉	P ○	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-24	15-24	15-24	8-20	8-20	20-40	20-40	10-15	8-15	m/min

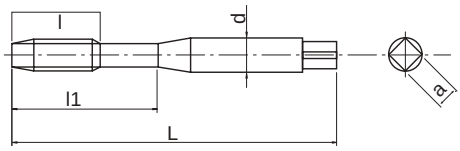
M	PM	V	ISO 2 6HX	B/4		DIN 371	DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
83812568	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
83813368	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
83813868	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
83814468	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
83814968	5	0,8	70	-	25	6	4,9	3	2	DIN371
83815568	6	1	80	-	30	6	4,9	3	2	DIN371
83816168	8	1,25	90	-	35	8	6,2	3	2	DIN371
83816968	10	1,5	100	-	39	10	8	3	2	DIN371
83913868	3	0,5	56	11	-	2,2	-	3	3	DIN376
83914468	4	0,7	63	13	-	2,8	2,1	3	3	DIN376
83914968	5	0,8	70	16	-	3,5	2,7	3	3	DIN376
83915568	6	1	80	19	-	4,5	3,4	3	3	DIN376
83916168	8	1,25	90	22	-	6	4,9	3	3	DIN376
83916968	10	1,5	100	24	-	7	5,5	3	3	DIN376
83917968	12	1,75	110	28	-	9	7	3	3	DIN376
83919168	14	2	110	30	-	11	9	3	3	DIN376
83920268	16	2	110	32	-	12	9	3	3	DIN376
83921468	18	2,5	125	34	-	14	11	3	3	DIN376
83922868	20	2,5	140	34	-	16	12	3	3	DIN376
83923868	22	2,5	140	34	-	18	14,5	3	3	DIN376
83924768	24	3	160	38	-	18	14,5	3	3	DIN376
83926268	27	3	160	38	-	20	16	4	3	DIN376
83927168	30	3,5	180	45	-	22	18	4	3	DIN376

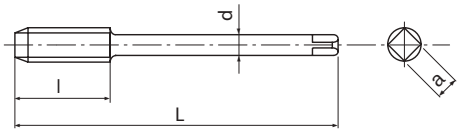
Z-OIL-POT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels and stainless steels
- Side through coolant

P ◉	P ◉	P ◉	P ○	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-24	15-24	15-24	8-20	8-20	20-40	20-40	10-15	8-15	m/min

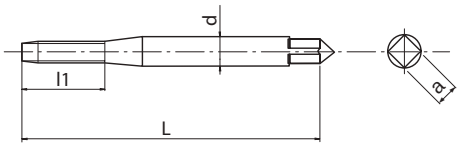
M	PM	V	ISO 2 6HX	B/4			DIN 371	DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
83815588	6	1	80	-	30	6	4,9	3	1	DIN371
83816188	8	1,25	90	-	35	8	6,2	3	1	DIN371
83816988	10	1,5	100	-	39	10	8	3	1	DIN371
83917988	12	1,75	110	28	-	9	7	3	2	DIN376
83919188	14	2	110	30	-	11	9	3	2	DIN376
83920288	16	2	110	32	-	12	9	3	2	DIN376
83921488	18	2,5	125	34	-	14	11	3	2	DIN376
83922888	20	2,5	140	34	-	16	12	3	2	DIN376

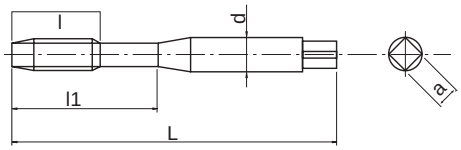
POT

Threading | Cutting taps | Metric

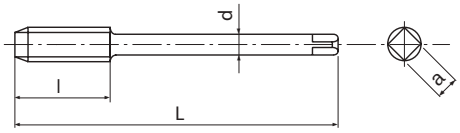
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Bright finish
- For general purpose applications

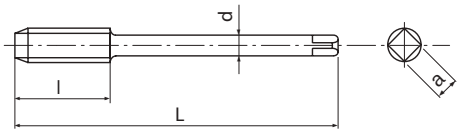
P ○	P ○	P ○	P ○	K ○	N ○	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
12-20	8-12	8-12	8-12	8-12	15-25	15-20	m/min

M | HSSE | ISO 2 6H | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
60712560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
60713360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
60713860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
60714060	3,5	0,6	56	-	20	4	3	3	2	DIN371
60714460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
60714960	5	0,8	70	-	25	6	4,9	3	2	DIN371
60715560	6	1	80	-	30	6	4,9	3	2	DIN371
60716160	8	1,25	90	-	35	8	6,2	3	2	DIN371
60716960	10	1,5	100	-	39	10	8	3	2	DIN371
60813860	3	0,5	56	11	-	2,2	-	3	3	DIN376
60814460	4	0,7	63	13	-	2,8	2,1	3	3	DIN376
60814960	5	0,8	70	16	-	3,5	2,7	3	3	DIN376
60815560	6	1	80	19	-	4,5	3,4	3	3	DIN376
60816160	8	1,25	90	22	-	6	4,9	3	3	DIN376
60816960	10	1,5	100	24	-	7	5,5	3	3	DIN376
60817960	12	1,75	110	28	-	9	7	3	3	DIN376
60819160	14	2	110	30	-	11	9	3	3	DIN376
60820260	16	2	110	32	-	12	9	3	3	DIN376
60821460	18	2,5	125	34	-	14	11	3	3	DIN376
60822860	20	2,5	140	34	-	16	12	3	3	DIN376
60823860	22	2,5	140	34	-	18	14,5	3	3	DIN376
60824760	24	3	160	38	-	18	14,5	3	3	DIN376
60826260	27	3	160	38	-	20	16	4	3	DIN376
60827160	30	3,5	180	45	-	22	18	4	3	DIN376
60828160	33	3,5	180	50	-	25	20	4	3	DIN376
60829460	36	4	200	56	-	28	22	4	3	DIN376

POT

Threading | Cutting taps | Metric



- HSSE spiral-point cutting tap for through holes
- Bright finish
- For general purpose applications
- According to DIN 352 shank reduced length

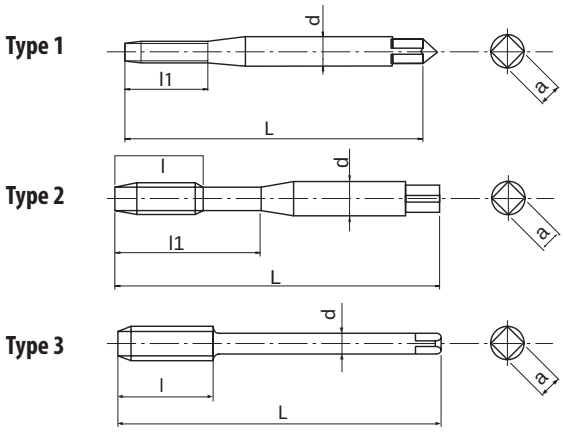
P ○	P ○	P ○	P ○	K ○	N ○	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
12-20	8-12	8-12	8-12	8-12	15-25	15-20	m/min

M | HSSE | ISO 2 6H | B/4 | DIN 352

EDP	M	P	L	l	l1	d	a	Z	DIN
60513860	3	0,5	40	11	-	3,5	2,7	3	DIN352
60514460	4	0,7	45	13	-	4,5	3,4	3	DIN352
60514960	5	0,8	50	24	-	6	4,9	3	DIN352
60515560	6	1	50	27	-	6	4,9	3	DIN352
60516160	8	1,25	63	22	-	6	4,9	3	DIN352
60516960	10	1,5	70	24	-	7	5,5	3	DIN352

TIN-POT

Threading | Cutting taps | Metric



- HSSE spiral-point cutting tap for through holes
- TIN coating
- For steels up to 850 N/mm²

P ○	P ○	P ◉	P ○	M ◉	K ○	N ○	N ○	S ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	Al	AC,ADC	Ti	
15-24	10-15	10-15	8-13	8-16	10-15	15-25	15-20	6-9	m/min

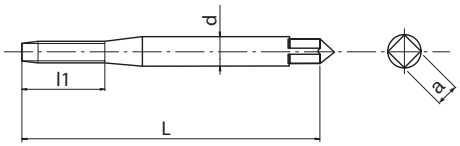
M | HSSE | TiN | ISO 2 6H | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
6071256001	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
6071336001	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
6071386001	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
6071406001	3,5	0,6	56	-	20	4	3	3	2	DIN371
6071446001	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
6071496001	5	0,8	70	-	25	6	4,9	3	2	DIN371
6071556001	6	1	80	-	30	6	4,9	3	2	DIN371
6071616001	8	1,25	90	-	35	8	6,2	3	2	DIN371
6071696001	10	1,5	100	-	39	10	8	3	2	DIN371
6081386001	3	0,5	56	11	-	2,2	-	3	3	DIN376
6081446001	4	0,7	63	13	-	2,8	2,1	3	3	DIN376
6081496001	5	0,8	70	16	-	3,5	2,7	3	3	DIN376
6081556001	6	1	80	19	-	4,5	3,4	3	3	DIN376
6081616001	8	1,25	90	22	-	6	4,9	3	3	DIN376
6081696001	10	1,5	100	24	-	7	5,5	3	3	DIN376
6081796001	12	1,75	110	28	-	9	7	3	3	DIN376
6081916001	14	2	110	30	-	11	9	3	3	DIN376
6082026001	16	2	110	32	-	12	9	3	3	DIN376
6082146001	18	2,5	125	34	-	14	11	3	3	DIN376
6082286001	20	2,5	140	34	-	16	12	3	3	DIN376
6082386001	22	2,5	140	34	-	18	14,5	3	3	DIN376
6082476001	24	3	160	38	-	18	14,5	3	3	DIN376
6082626001	27	3	160	38	-	20	16	4	3	DIN376
6082716001	30	3,5	180	45	-	22	18	4	3	DIN376

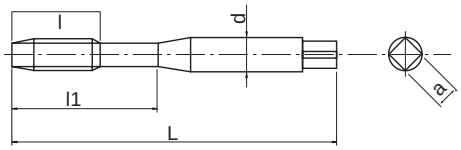
TICN-POT

Threading | Cutting taps | Metric

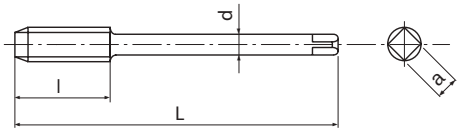
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Multilayer TiCN coating
- For steels up to 1000 N/mm²

P ○	P ○	P ◉	P ◉	M ○	K ○	N ○	N ○	S ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	Al	AC,ADC	Ti	
15-24	10-15	10-15	8-13	8-16	10-15	15-25	15-20	6-9	m/min

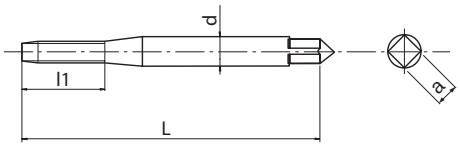
M | HSSE | V | ISO 2 6H | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
6071256002	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
6071386002	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
6071446002	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
6071496002	5	0,8	70	-	25	6	4,9	3	2	DIN371
6071556002	6	1	80	-	30	6	4,9	3	2	DIN371
6071616002	8	1,25	90	-	35	8	6,2	3	2	DIN371
6071696002	10	1,5	100	-	39	10	8	3	2	DIN371
6081796002	12	1,75	110	28	-	9	7	3	3	DIN376
6081916002	14	2	110	30	-	11	9	3	3	DIN376
6082026002	16	2	110	32	-	12	9	3	3	DIN376
6082146002	18	2,5	125	34	-	14	11	3	3	DIN376
6082286002	20	2,5	140	34	-	16	12	3	3	DIN376
6082386002	22	2,5	140	34	-	18	14,5	3	3	DIN376
6082476002	24	3	160	38	-	18	14,5	3	3	DIN376

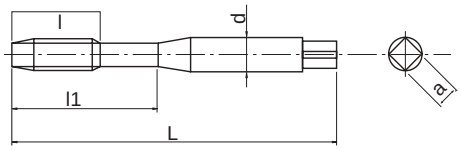
CC-POT

Threading | Cutting taps | Metric

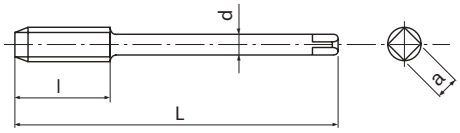
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- CrN coating
- For general steels and stainless steels
- Developed for rigid tapping on CNC machines

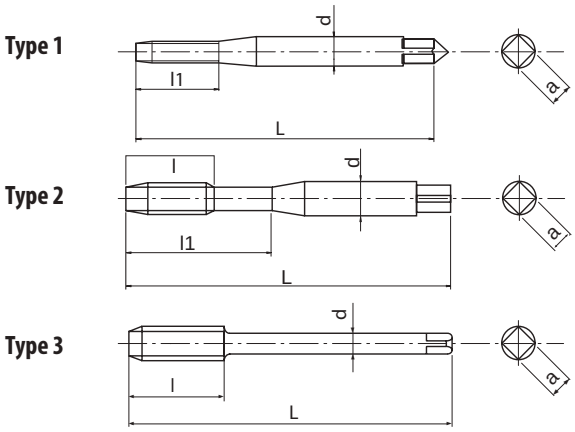
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-15	20-40	m/min

M | HSSE | CrN | ISO 2 6HX | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48059125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48059133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48059138	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
48059144	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
48059149	5	0,8	70	-	25	6	4,9	3	2	DIN371
48059155	6	1	80	-	30	6	4,9	3	2	DIN371
48059161	8	1,25	90	-	35	8	6,2	3	2	DIN371
48059169	10	1,5	100	-	39	10	8	3	2	DIN371
48060138	3	0,5	56	11	-	2,2	-	3	3	DIN376
48060144	4	0,7	63	13	-	2,8	2,1	3	3	DIN376
48060149	5	0,8	70	16	-	3,5	2,7	3	3	DIN376
48060155	6	1	80	19	-	4,5	3,4	3	3	DIN376
48060161	8	1,25	90	22	-	6	4,9	3	3	DIN376
48060169	10	1,5	100	24	-	7	5,5	3	3	DIN376
48060179	12	1,75	110	28	-	9	7	3	3	DIN376
48060191	14	2	110	30	-	11	9	3	3	DIN376
48060202	16	2	110	32	-	12	9	3	3	DIN376
48060214	18	2,5	125	34	-	14	11	3	3	DIN376
48060228	20	2,5	140	34	-	16	12	3	3	DIN376
48060238	22	2,5	140	34	-	18	14,5	3	3	DIN376
48060247	24	3	160	38	-	18	14,5	3	3	DIN376
48060262	27	3	160	38	-	20	16	4	3	DIN376
48060271	30	3,5	180	45	-	22	18	4	3	DIN376

CC-LT-POT

Threading | Cutting taps | Metric



- HSSE spiral-point cutting tap for through holes
- CrN coating
- For general steels and stainless steels
- With long shank for deep threading

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-15	20-40	m/min

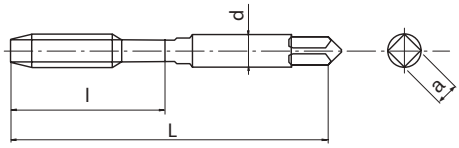
M | HSSE | CrN | ISO 2 6HX | B/4

EDP	M	P	L	l	l1	d	a	Z	Type
48114125	2	0,4	80	-	8	2,8	2,1	2	1
48114133	2,5	0,45	100	-	9	2,8	2,1	2	1
48114138	3	0,5	100	-	18	3,5	2,7	3	2
48114144	4	0,7	125	-	21	4,5	3,4	3	2
48114149	5	0,8	140	-	25	6	4,9	3	2
48114155	6	1	160	-	30	6	4,9	3	2
48114161	8	1,25	180	-	35	8	6,2	3	2
48114169	10	1,5	200	-	39	10	8	3	2
48114179	12	1,75	200	28	-	9	7	3	3

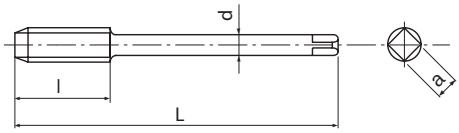
HS-RFT-TIN

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-flute cutting tap for through holes
- TIN coating
- For high speed tapping in various materials
- Right-hand cut with left-hand flute for chip evacuation towards front

P ◉	P ◉	P ◉	P ◉	M ○	N ○	N ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
27-32	27-32	22-27	22-27	15-20	50-100	40-100	m/min

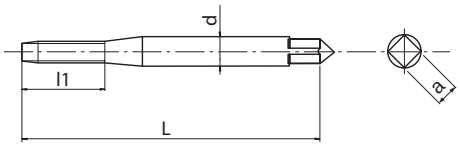
M	HSSE	TiN	20°	ISO 2 6H	A/6	

EDP	M	P	L	l	d	a	Z	Type
20710	3	0,5	46	19	4	3,2	3	1
20714	4	0,7	52	21	6	4,5	3	1
20718	5	0,8	60	24	6	4,5	3	1
20722	6	1	62	29	6	4,5	3	1
20728	8	1,25	70	37	8	6	3	1
20734	10	1,5	75	24	8	6	3	2
20739	12	1,75	82	29	10	8	3	2

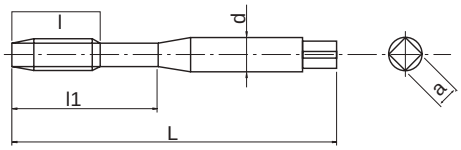
AL-POT

Threading | Cutting taps | Metric

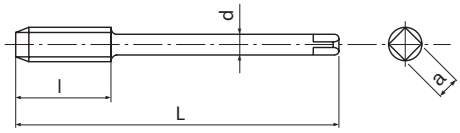
Type 1



Type 2



Type 3



- HSSE spiral-point cutting tap for through holes
- Bright finish
- For aluminium and cast aluminium

N Al	N AC,ADC	
15-25	15-20	m/min

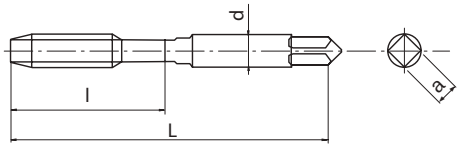
M | HSSE | ISO 2 6H | B/4 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48019125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48019133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
66113860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
66114460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
66114960	5	0,8	70	-	25	6	4,9	3	2	DIN371
66115560	6	1	80	-	30	6	4,9	3	2	DIN371
66116160	8	1,25	90	-	35	8	6,2	3	2	DIN371
66116960	10	1,5	100	-	39	10	8	3	2	DIN371
48019179	12	1,75	110	28	-	9	7	3	3	DIN376
48019191	14	2	110	30	-	11	9	3	3	DIN376
48019202	16	2	110	32	-	12	9	3	3	DIN376
48019214	18	2,5	125	34	-	14	11	3	3	DIN376
48019228	20	2,5	140	34	-	16	12	3	3	DIN376

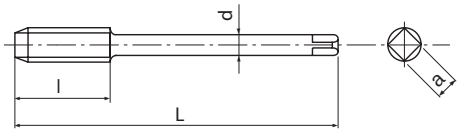
US-AL-RFT

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-flute cutting tap for through holes
- Multilayer TiCN coating
- For high speed tapping in aluminium and cast aluminium
- Right-hand cut with left-hand flute for chip evacuation towards front

N Al	N AC,ADC	
100-400	100-400	m/min

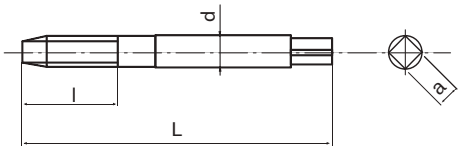
M | HSSE | V | 20° | ISO 2 6H | A/6

EDP	M	P	L	l	d	a	Z	Type
8311269	3	0,5	46	19	4	3,2	2	1
8311283	4	0,7	52	21	6	4,5	2	1
8311297	5	0,8	60	24	6	4,5	2	1
8311311	6	1	62	29	6	4,5	2	1
8311325	8	1,25	70	37	8	6	2	1
8311339	10	1,5	75	24	8	6	2	2
8311357	12	1,75	82	29	10	8	2	2

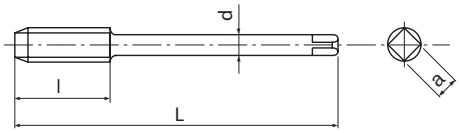
V-TI-POT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

4-6 m/min

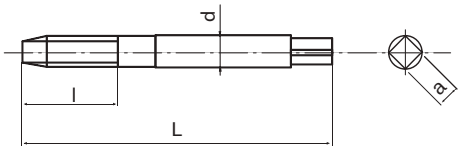
M | PM | V | ISO 2 6H | B/5 | DIN 371 | DIN 376

EDP	M	P	L	l	d	a	Z	Type	DIN
48012138	3	0,5	56	12	3,5	2,7	3	1	DIN371
48012144	4	0,7	63	16	4,5	3,4	3	1	DIN371
48012149	5	0,8	70	19	6	4,9	3	1	DIN371
48012155	6	1	80	23	6	4,9	3	1	DIN371
48012161	8	1,25	90	30	8	6,2	3	1	DIN371
48012169	10	1,5	100	38	10	8	3	1	DIN371
48012179	12	1,75	110	28	10	8	3	2	DIN376

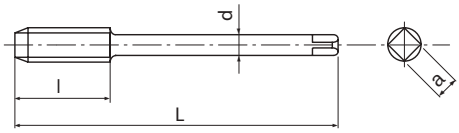
E-POT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For Nickel-based alloys including Inconel 718

S Ni

2-4 m/min

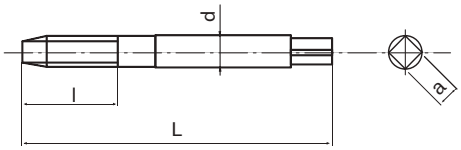
M | PM | ISO 2 6H | B/5 | DIN 371 | DIN 376

EDP	M	P	L	l	d	a	Z	Type	DIN
89313860	3	0,5	56	12	3,5	2,7	3	1	DIN371
89314460	4	0,7	63	16	4,5	3,4	3	1	DIN371
89314960	5	0,8	70	19	6	4,9	3	1	DIN371
89315560	6	1	80	23	6	4,9	3	1	DIN371
89316160	8	1,25	90	30	8	6,2	3	1	DIN371
89316960	10	1,5	100	38	10	8	3	1	DIN371
89417960	12	1,75	110	28	10	8	3	2	DIN376

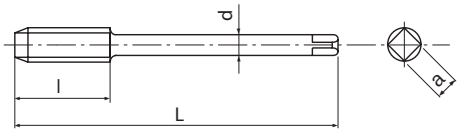
WHR-NI-POT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- HR coating
- For Nickel-based alloys including Inconel 718

S Ni

2-4 m/min

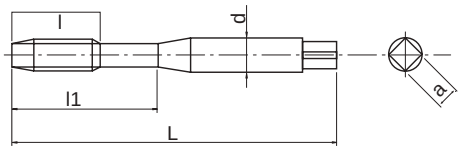
M | PM | HR | ISO 2 6HX | B/5 | DIN 371 | DIN 376

EDP	M	P	L	l	d	a	Z	Type	DIN
48079138	3	0,5	56	12	3,5	2,7	3	1	DIN371
48079144	4	0,7	63	16	4,5	3,4	3	1	DIN371
48079149	5	0,8	70	19	6	4,9	3	1	DIN371
48079155	6	1	80	23	6	4,9	3	1	DIN371
48079161	8	1,25	90	30	8	6,2	3	1	DIN371
48079169	10	1,50	100	38	10	8	3	1	DIN371
48079179	12	1,75	110	28	10	8	3	2	DIN376

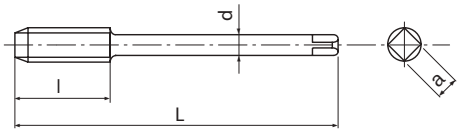
CPM-POT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For steels up to 900 N/mm² and cast iron

P	K	H	H
C>0.45%	GGG	25-35 HRC	35-45 HRC
8-13	10-15	6-10	6-10

m/min

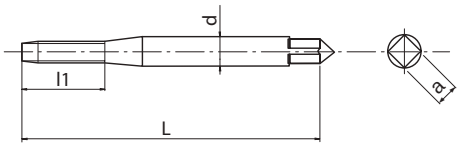
M | PM | ISO 2 6H | B/5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
80713860	3	0,5	56	-	11	3,5	2,7	3	1	DIN371
80714460	4	0,7	63	-	13	4,5	3,4	3	1	DIN371
80714960	5	0,8	70	-	16	6	4,9	3	1	DIN371
80715560	6	1	80	-	19	6	4,9	3	1	DIN371
80716160	8	1,25	90	-	22	8	6,2	3	1	DIN371
80716960	10	1,5	100	-	24	10	8	3	1	DIN371
80815560	6	1	80	19	-	4,5	3,4	3	2	DIN376
80816160	8	1,25	90	22	-	6	4,9	3	2	DIN376
80816960	10	1,5	100	24	-	7	5,5	3	2	DIN376
80817960	12	1,75	110	28	-	9	7	3	2	DIN376
80819160	14	2	110	30	-	11	9	3	2	DIN376
80820260	16	2	110	32	-	12	9	4	2	DIN376
80821460	18	2,5	125	34	-	14	11	4	2	DIN376
80822860	20	2,5	140	34	-	16	12	4	2	DIN376

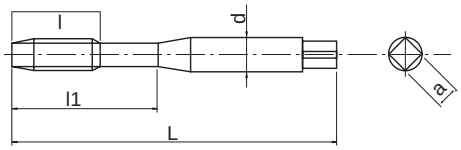
H-POT

Threading | Cutting taps | Metric

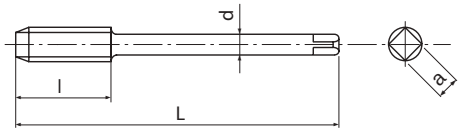
Type 1



Type 2



Type 3



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

P ◉	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

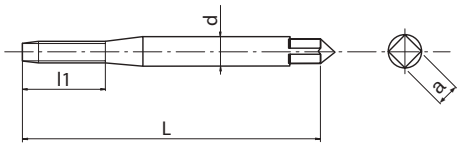
M | PM | OX | ISO 2 6H | B/5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
88412560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
88413360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
88413860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
88414460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
88414960	5	0,8	70	-	25	6	4,9	3	2	DIN371
88415560	6	1	80	-	30	6	4,9	3	2	DIN371
88416160	8	1,25	90	-	35	8	6,2	3	2	DIN371
88416960	10	1,5	100	-	39	10	8	3	2	DIN371
88517960	12	1,75	110	28	-	9	7	3	3	DIN376
88519160	14	2	110	30	-	11	9	3	3	DIN376
88520260	16	2	110	32	-	12	9	4	3	DIN376
88521460	18	2,5	125	34	-	14	11	4	3	DIN376
88522860	20	2,5	140	34	-	16	12	4	3	DIN376

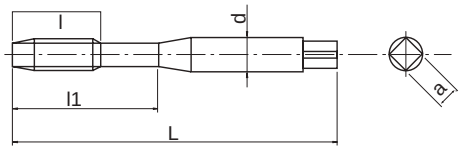
VP-H-POT

Threading | Cutting taps | Metric

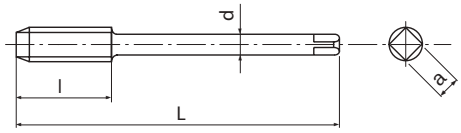
Type 1



Type 2



Type 3



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- For hardened steels up to 45 HRC

P ◉	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

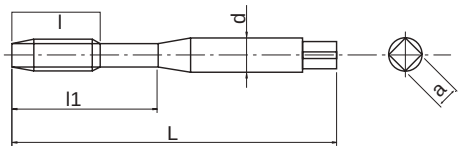
M | PM | V | ISO 2 6HX | B/5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48084125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48084133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48084138	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
48084144	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
48084149	5	0,8	70	-	25	6	4,9	3	2	DIN371
48084155	6	1	80	-	30	6	4,9	3	2	DIN371
48084161	8	1,25	90	-	35	8	6,2	3	2	DIN371
48084169	10	1,5	100	-	39	10	8	3	2	DIN371
48084179	12	1,75	110	28	-	9	7	3	3	DIN376
48084191	14	2	110	30	-	11	9	3	3	DIN376
48084202	16	2	110	32	-	12	9	4	3	DIN376
48084214	18	2,5	125	34	-	14	11	4	3	DIN376
48084228	20	2,5	140	34	-	16	12	4	3	DIN376
48084238	22	2,5	140	34	-	18	14,5	4	3	DIN376
48084247	24	3	160	38	-	18	14,5	4	3	DIN376
48084262	27	3	160	38	-	20	16	4	3	DIN376
48084271	30	3,5	180	45	-	22	18	4	3	DIN376
48084281	33	3,5	180	50	-	25	20	4	3	DIN376
48084294	36	4	200	56	-	28	22	4	3	DIN376

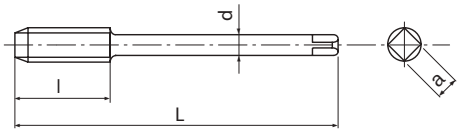
VPO-H-POT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- For hardened steels up to 45 HRC
- Side through coolant

P ◉	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

M | PM | V | ISO 2 6H | B/5 | DIN 371 | DIN 376

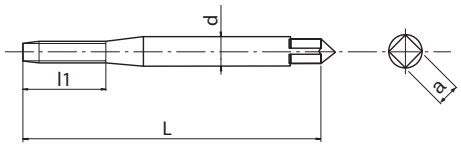
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48085155	6	1	80	-	30	6	4,9	3	1	DIN371
48085161	8	1,25	90	-	35	8	6,2	3	1	DIN371
48085169	10	1,5	100	-	39	10	8	3	1	DIN371
48085179	12	1,75	110	28	-	9	7	3	2	DIN376
48085191	14	2	110	30	-	11	9	3	2	DIN376
48085202	16	2	110	32	-	12	9	4	2	DIN376
48085214	18	2,5	125	34	-	14	11	4	2	DIN376
48085228	20	2,5	140	34	-	16	12	4	2	DIN376
48085238	22	2,5	140	34	-	18	14,5	4	2	DIN376
48085247	24	3	160	38	-	18	14,5	4	2	DIN376
48085262	27	3	160	38	-	20	16	4	2	DIN376
48085271	30	3,5	180	45	-	22	18	4	2	DIN376
48085281	33	3,5	180	50	-	25	20	4	2	DIN376
48085294	36	4	200	56	-	28	22	4	2	DIN376

A-SFT

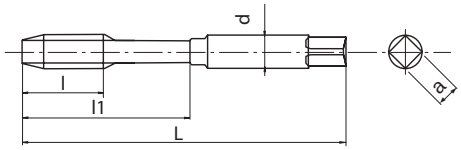
Sizes M1 & M1,1
available from November 2017

Threading | Cutting taps | Metric

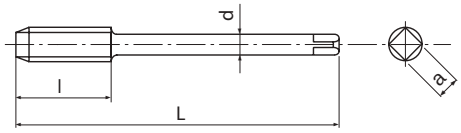
Type 1



Type 2



Type 3



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | M | PM | V | 45° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

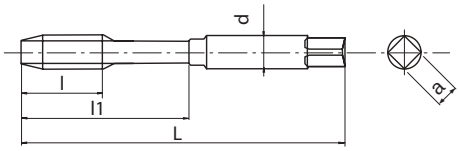
* Tolerance 5HX

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
*48139111	1	0.25	40	-	5	2,5	2,1	2	1	DIN371
*48139112	1,1	0.25	40	-	5	2,5	2,1	2	1	DIN371
*48139113	1,2	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48139115	1,4	0,3	40	-	6	2,5	2,1	2	1	DIN371
48139118	1,6	0,35	40	-	7	2,5	2,1	2	1	DIN371
48139119	1,7	0,35	40	-	8	2,5	2,1	2	1	DIN371
48139120	1,8	0,35	40	-	8	2,5	2,1	2	1	DIN371
48139125	2	0,4	45	3,2	10	2,8	2,1	2	2	DIN371
48139127	2,2	0,45	45	3,6	11	2,8	2,1	2	2	DIN371
48139128	2,3	0,4	45	3,6	12	2,8	2,1	2	2	DIN371
48139133	2,5	0,45	50	3,6	13	2,8	2,1	2	2	DIN371
48139136	2,6	0,45	50	3,6	13	2,8	2,1	2	2	DIN371
48139138	3	0,5	56	4	18	3,5	2,7	3	2	DIN371
48139142	3,5	0,6	56	4,8	20	4	3	3	2	DIN371
48139144	4	0,7	63	5,6	21	4,5	3,4	3	2	DIN371
48139147	4,5	0,75	70	6	25	6	4,9	3	2	DIN371
48139149	5	0,8	70	6,4	25	6	4,9	3	2	DIN371
48139152	5,5	0,9	80	7,2	30	6	4,9	3	2	DIN371
48139155	6	1	80	8	30	6	4,9	3	2	DIN371
48139158	7	1	80	8	30	7	5,5	3	2	DIN371
48139161	8	1,25	90	10	35	8	6,2	3	2	DIN371
48139165	9	1,25	90	10	35	9	7	3	2	DIN371
48139169	10	1,5	100	12	39	10	8	3	2	DIN371
48139139	3	0,5	56	4	-	2,2	-	3	3	DIN376
48139185	4	0,7	63	5,6	-	2,8	2,1	3	3	DIN376
48139150	5	0,8	70	6,4	-	3,5	2,7	3	3	DIN376
48139187	6	1	80	8	-	4,5	3,4	3	3	DIN376
48139159	7	1	80	8	-	5,5	4,3	3	3	DIN376
48139188	8	1,25	90	10	-	6	4,9	3	3	DIN376
48139166	9	1,25	90	10	-	7	5,5	3	3	DIN376
48139189	10	1,5	100	12	-	7	5,5	3	3	DIN376
48139175	11	1,5	100	12	-	8	6,2	3	3	DIN376
48139179	12	1,75	110	14	-	9	7	3	3	DIN376
48139191	14	2	110	16	-	11	9	3	3	DIN376
48139202	16	2	110	16	-	12	9	3	3	DIN376
48139214	18	2,5	125	25	-	14	11	4	3	DIN376
48139228	20	2,5	140	25	-	16	12	4	3	DIN376
48139238	22	2,5	140	25	-	18	14,5	4	3	DIN376
48139247	24	3	160	30	-	18	14,5	4	3	DIN376

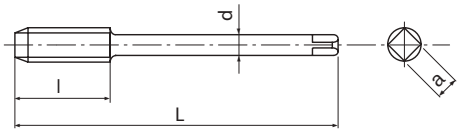
A-OIL-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Centre through coolant

P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

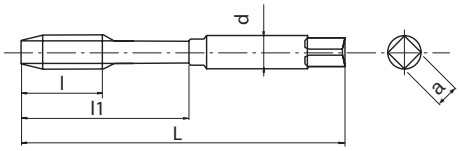
A | M | PM | V | 45° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48140155	6	1	80	8	30	6	4,9	3	1	DIN371
48140161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48140169	10	1,5	100	12	39	10	8	3	1	DIN371
48140179	12	1,75	110	14	-	9	7	3	2	DIN376
48140191	14	2	110	16	-	11	9	3	2	DIN376
48140202	16	2	110	16	-	12	9	3	2	DIN376
48140214	18	2,5	125	25	-	14	11	4	2	DIN376
48140228	20	2,5	140	25	-	16	12	4	2	DIN376
48140238	22	2,5	140	25	-	18	14,5	4	2	DIN376
48140247	24	3	160	30	-	18	14,5	4	2	DIN376
48140262	27	3	160	36	-	20	16	4	2	DIN376
48140271	30	3,5	180	42	-	22	18	4	2	DIN376
48140281	33	3,5	180	42	-	25	20	4	2	DIN376
48140294	36	4	200	48	-	28	22	4	2	DIN376
48140304	39	4	200	48	-	32	24	4	2	DIN376
48140314	42	4,5	200	54	-	32	24	4	2	DIN376
48140319	45	4,5	220	54	-	36	29	4	2	DIN376
48140325	48	5	250	60	-	36	29	4	2	DIN376
48140337	52	5	250	60	-	40	32	4	2	DIN376
48140347	56	5,5	250	66	-	40	32	4	2	DIN376

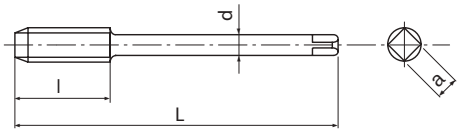
A-SFT 6GX

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

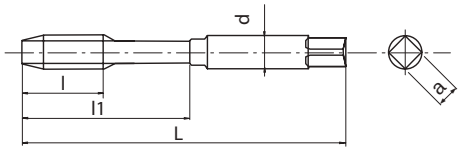
A | M | PM | V | 45° | ISO 3 6GX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48201125	2	0,4	+0,019	45	3,2	10	2,8	2,1	2	1	DIN371
48201133	2,5	0,45	+0,020	50	3,6	13	2,8	2,1	2	1	DIN371
48201138	3	0,5	+0,020	56	4	18	3,5	2,7	3	1	DIN371
48201144	4	0,7	+0,022	63	5,6	21	4,5	3,4	3	1	DIN371
48201149	5	0,8	+0,024	70	6,4	25	6	4,9	3	1	DIN371
48201155	6	1	+0,026	80	8	30	6	4,9	3	1	DIN371
48201161	8	1,25	+0,028	90	10	35	8	6,2	3	1	DIN371
48201169	10	1,5	+0,032	100	12	39	10	8	3	1	DIN371
48201179	12	1,75	+0,034	110	14	-	9	7	3	2	DIN376
48201202	16	2	+0,038	110	16	-	12	9	3	2	DIN376

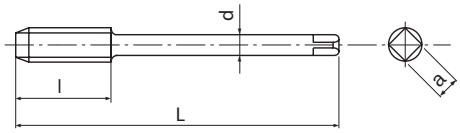
A-SFT 7GX

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 7G internal thread tolerance

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

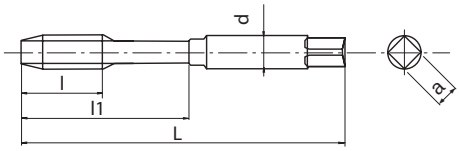
A | M | PM | V | 45° | 7GX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48202125	2	0,4	+0,038	45	3,2	10	2,8	2,1	2	1	DIN371
48202133	2,5	0,45	+0,040	50	3,6	13	2,8	2,1	2	1	DIN371
48202138	3	0,5	+0,040	56	4	18	3,5	2,7	3	1	DIN371
48202144	4	0,7	+0,044	63	5,6	21	4,5	3,4	3	1	DIN371
48202149	5	0,8	+0,048	70	6,4	25	6	4,9	3	1	DIN371
48202155	6	1	+0,052	80	8	30	6	4,9	3	1	DIN371
48202161	8	1,25	+0,056	90	10	35	8	6,2	3	1	DIN371
48202169	10	1,5	+0,064	100	12	39	10	8	3	1	DIN371
48202179	12	1,75	+0,068	110	14	-	9	7	3	2	DIN376
48202202	16	2	+0,076	110	16	-	12	9	3	2	DIN376

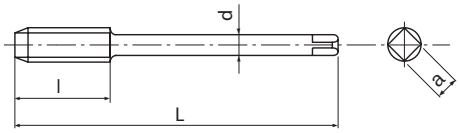
A-SFT+0.1

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

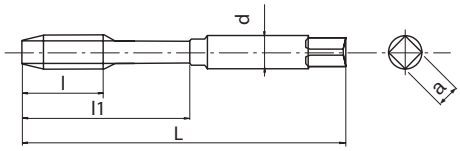
A | M | PM | V | 45° | 6H +0.1 | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48204138	3	0,5	56	4	18	3,5	2,7	3	1	DIN371
48204144	4	0,7	63	5,6	21	4,5	3,4	3	1	DIN371
48204149	5	0,8	70	6,4	25	6	4,9	3	1	DIN371
48204155	6	1	80	8	30	6	4,9	3	1	DIN371
48204161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48204169	10	1,5	100	12	39	10	8	3	1	DIN371
48204179	12	1,75	110	14	-	9	7	3	2	DIN376
48204202	16	2	110	16	-	12	9	3	2	DIN376

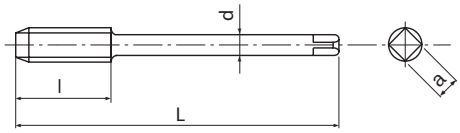
A-SFT FORM E

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Form E chamfer

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

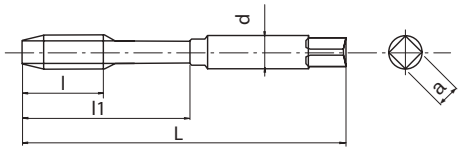
A | M | PM | V | 45° | ISO 2 6HX | E/1,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48203138	3	0,5	56	4	18	3,5	2,7	3	1	DIN371
48203144	4	0,7	63	5,6	21	4,5	3,4	3	1	DIN371
48203149	5	0,8	70	6,4	25	6	4,9	3	1	DIN371
48203155	6	1	80	8	30	6	4,9	3	1	DIN371
48203161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48203169	10	1,5	100	12	39	10	8	3	1	DIN371
48203179	12	1,75	110	14	-	9	7	3	2	DIN376
48203191	14	2	110	16	-	11	9	3	2	DIN376
48203202	16	2	110	16	-	12	9	3	2	DIN376

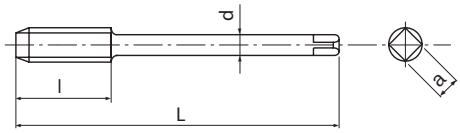
A-LT-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With long shank for long reach threading

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-25	15-25	10-25	8-20	8-20	15-35	15-35	5-10	8-20	m/min

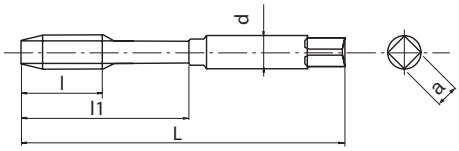
A | M | PM | V | 45° | ISO 2 6HX | C/2,5

EDP	M	P	L	l	l1	d	a	Z	Type
48208125	2	0,4	80	3,2	10	2,8	2,1	2	1
48208133	2,5	0,45	100	3,6	13	2,8	2,1	2	1
48208138	3	0,5	100	4	18	3,5	2,7	3	1
48208144	4	0,7	125	5,6	21	4,5	3,4	3	1
48208149	5	0,8	160	6,4	25	6	4,9	3	1
48208155	6	1	160	8	30	6	4,9	3	1
48208161	8	1,25	180	10	35	8	6,2	3	1
48208169	10	1,5	200	12	39	10	8	3	1
48209155	6	1	160	10	-	4,5	3,4	3	2
48209161	8	1,25	180	11	-	6	4,9	3	2
48209169	10	1,5	200	14	-	7	5,5	3	2
48209179	12	1,75	200	14	-	9	7	3	2
48209191	14	2	200	16	-	11	9	3	2
48209202	16	2	200	16	-	12	9	3	2
48209214	18	2,5	200	25	-	14	11	4	2
48209228	20	2,5	200	25	-	16	12	4	2

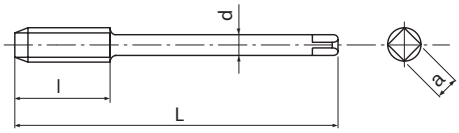
A-SFT-LH

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For left-hand threads

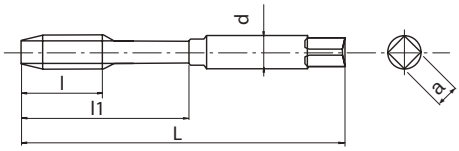
P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | M | PM | V | 45° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376 | LH

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48217138	3	0,5	56	4	18	3,5	2,7	3	1	DIN371
48217144	4	0,7	63	5,6	21	4,5	3,4	3	1	DIN371
48217149	5	0,8	70	6,4	25	6	4,9	3	1	DIN371
48217155	6	1	80	8	30	6	4,9	3	1	DIN371
48217161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48217169	10	1,5	100	12	39	10	8	3	1	DIN371
48217179	12	1,75	110	14	-	9	7	3	2	DIN376
48217191	14	2	110	16	-	11	9	3	2	DIN376
48217202	16	2	110	16	-	12	9	3	2	DIN376
48217214	18	2,5	125	25	-	14	11	4	2	DIN376
48217228	20	2,5	140	25	-	16	12	4	2	DIN376
48217238	22	2,5	140	25	-	18	14,5	4	2	DIN376
48217247	24	3	160	30	-	18	14,5	4	2	DIN376

A-SFT-HB Weldon

Threading | Cutting taps | Metric



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With Weldon shank

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | M | PM | V | 45° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 1835 | HB

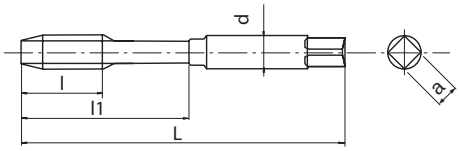
EDP	M	P	L	l	l1	d	a	Z	DIN
48220138	3	0,5	56	4	18	6	4,9	3	DIN371/1835
48220144	4	0,7	63	5,6	21	6	4,9	3	DIN371/1835
48220149	5	0,8	70	6,4	25	6	4,9	3	DIN371/1835
48220155	6	1	80	8	30	6	4,9	3	DIN371/1835
48220161	8	1,25	90	10	35	8	6,2	3	DIN371/1835
48220169	10	1,5	100	12	39	10	8	3	DIN371/1835
48220179	12	1,75	110	14	46	12	9	3	DIN371/1835
48220191	14	2	110	16	49	14	11	3	DIN371/1835
48220202	16	2	110	16	56	16	12	3	DIN371/1835

A-CSF OIL NEW

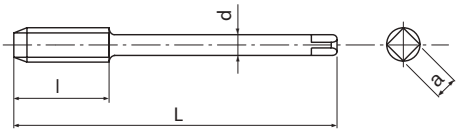
Available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Carbide spiral-fluted cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant

K	K	N	
GG	GGG	AC,ADC	
10-100	10-100	10-100	m/min

A | M | CARBIDE | FX | 15° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

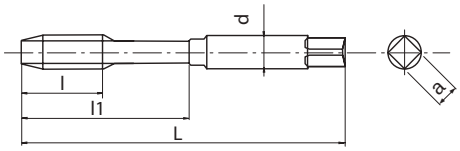
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48267149	5	0,8	70	10	25	6	4,9	3	1	DIN371
48267155	6	1	80	12	30	6	4,9	3	1	DIN371
48267161	8	1,25	90	15	35	8	6,2	3	1	DIN371
48267169	10	1,5	100	18	39	10	8	3	1	DIN371
48267179	12	1,75	110	21	-	9	7	3	2	DIN376

A-CSF OIL FORM E NEW

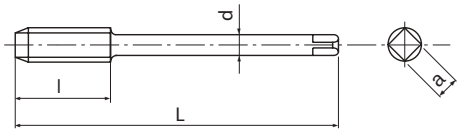
Available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Carbide spiral-fluted cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant, Form E chamfer

K	K	N	
GG	GGG	AC,ADC	
10-100	10-100	10-100	m/min

A | M | CARBIDE | FX | 15° | ISO 2 6HX | E/1,5 | DIN 371 | DIN 376

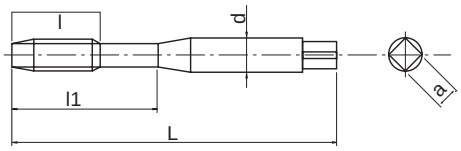
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48266149	5	0,8	70	10	25	6	4,9	3	1	DIN371
48266155	6	1	80	12	30	6	4,9	3	1	DIN371
48266161	8	1,25	90	15	35	8	6,2	3	1	DIN371
48266169	10	1,5	100	18	39	10	8	3	1	DIN371
48266179	12	1,75	110	21	-	9	7	3	2	DIN376

S-SFT NEW SIZES

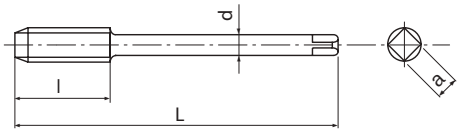
M1, M1,1 & M1,2
available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

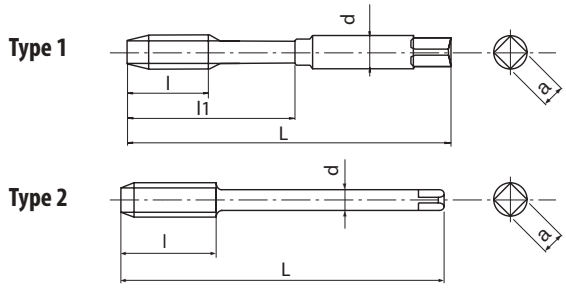
M | HSSE | 0X | 40° | ISO 2 6H | ISO 1 5H<M 1,4 | C/2,5 | DIN 371 | DIN 376

* Tolerance 5H

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
*48223111 NEW	1	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48223112 NEW	1,1	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48223113 NEW	1,2	0,25	40	-	5	2,5	2,1	2	1	DIN371
*48223115 NEW	1,4	0,3	40	-	6	2,5	2,1	2	1	DIN371
48223118 NEW	1,6	0,35	40	-	7	2,5	2,1	2	1	DIN371
48223119 NEW	1,7	0,35	40	-	8	2,5	2,1	2	1	DIN371
48223120 NEW	1,8	0,35	40	-	8	2,5	2,1	2	1	DIN371
48223125 NEW	2	0,4	45	4	10	2,8	2,1	2	1	DIN371
48223127 NEW	2,2	0,45	45	5	11	2,8	2,1	2	1	DIN371
48223128 NEW	2,3	0,4	45	4	12	2,8	2,1	2	1	DIN371
48223133 NEW	2,5	0,45	50	4,5	13	2,8	2,1	2	1	DIN371
48223136 NEW	2,6	0,45	50	4,5	13	2,8	2,1	2	1	DIN371
48223138	3	0,5	56	5	18	3,5	2,7	3	1	DIN371
48223142 NEW	3,5	0,6	56	6	20	4	3	3	1	DIN371
48223144	4	0,7	63	7	21	4,5	3,4	3	1	DIN371
48223147 NEW	4,5	0,75	70	7,5	25	6	4,9	3	1	DIN371
48223149	5	0,8	70	8	25	6	4,9	3	1	DIN371
48223152 NEW	5,5	0,9	80	9	30	6	4,9	3	1	DIN371
48223155	6	1	80	10	30	6	4,9	3	1	DIN371
48223158 NEW	7	1	80	10	30	7	5,5	3	1	DIN371
48223161	8	1,25	90	13	35	8	6,2	3	1	DIN371
48223165 NEW	9	1,25	90	13	35	9	7	3	1	DIN371
48223169	10	1,5	100	15	39	10	8	3	1	DIN371
48223140 NEW	3	0,5	56	5	-	2,2	-	3	2	DIN376
48223185 NEW	4	0,7	63	7	-	2,8	2,1	3	2	DIN376
48223150 NEW	5	0,8	70	8	-	3,5	2,7	3	2	DIN376
48223187 NEW	6	1	80	10	-	4,5	3,4	3	2	DIN376
48223159 NEW	7	1	80	10	-	5,5	4,3	3	2	DIN376
48223188 NEW	8	1,25	90	13	-	6	4,9	3	2	DIN376
48223166 NEW	9	1,25	90	13	-	7	5,5	3	2	DIN376
48223189 NEW	10	1,5	100	15	-	7	5,5	3	2	DIN376
48223175 NEW	11	1,5	100	15	-	8	6,2	3	2	DIN376
48223179	12	1,75	110	18	-	9	7	4	2	DIN376
48223191	14	2	110	20	-	11	9	4	2	DIN376
48223202	16	2	110	20	-	12	9	4	2	DIN376
48223214	18	2,5	125	25	-	14	11	4	2	DIN376
48223228	20	2,5	140	25	-	16	12	4	2	DIN376
48223238	22	2,5	140	25	-	18	14,5	4	2	DIN376
48223247	24	3	160	30	-	18	14,5	4	2	DIN376

S-SFT 6G NEW

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 6G internal thread tolerance

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

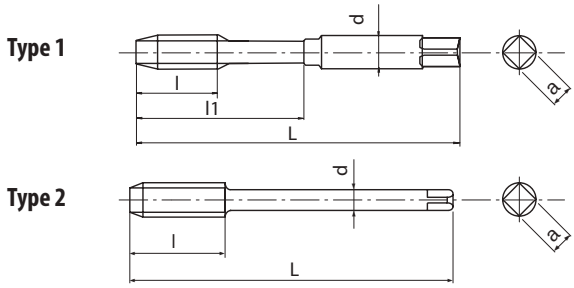
M | HSSE | OX | 40° | ISO 2 6G | C/2,5 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48269125	2	0,4	+0,019	45	3,2	10	2,8	2,1	2	1	DIN371
48269133	2,5	0,45	+0,020	50	3,6	13	2,8	2,1	2	1	DIN371
48269138	3	0,5	+0,020	56	4	18	3,5	2,7	3	1	DIN371
48269144	4	0,7	+0,022	63	5,6	21	4,5	3,4	3	1	DIN371
48269149	5	0,8	+0,024	70	6,4	25	6	4,9	3	1	DIN371
48269155	6	1	+0,026	80	8	30	6	4,9	3	1	DIN371
48269161	8	1,25	+0,028	90	10	35	8	6,2	3	1	DIN371
48269169	10	1,5	+0,032	100	12	39	10	8	3	1	DIN371
48269179	12	1,75	+0,034	110	14	-	9	7	3	2	DIN376
48269191	14	2	+0,038	110	16	-	11	9	3	2	DIN376
48269202	16	2	+0,038	110	16	-	12	9	3	2	DIN376

S-SFT 7G NEW

Available from December 2017

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 7G internal thread tolerance

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

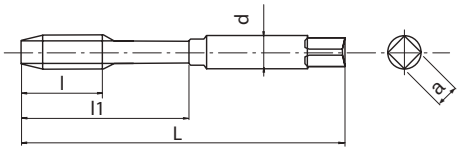
M | HSSE | OX | 40° | 7G | C/2,5 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
48274125	2	0,4	+0,038	45	3,2	10	2,8	2,1	2	1	DIN371
48274133	2,5	0,45	+0,040	50	3,6	13	2,8	2,1	2	1	DIN371
48274138	3	0,5	+0,040	56	4	18	3,5	2,7	3	1	DIN371
48274144	4	0,7	+0,044	63	5,6	21	4,5	3,4	3	1	DIN371
48274149	5	0,8	+0,048	70	6,4	25	6	4,9	3	1	DIN371
48274155	6	1	+0,052	80	8	30	6	4,9	3	1	DIN371
48274161	8	1,25	+0,056	90	10	35	8	6,2	3	1	DIN371
48274169	10	1,5	+0,064	100	12	39	10	8	3	1	DIN371
48274179	12	1,75	+0,068	110	14	-	9	7	3	2	DIN376
48274191	14	2	+0,076	110	16	-	11	9	3	2	DIN376
48274202	16	2	+0,076	110	16	-	12	9	3	2	DIN376

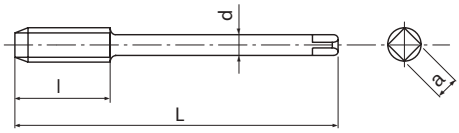
S-SFT+0.1 NEW

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

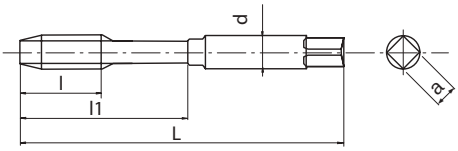
M | HSSE | 0X | 40° | 6H +0.1 | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48270138	3	0,5	56	4	18	3,5	2,7	3	1	DIN371
48270144	4	0,7	63	5,6	21	4,5	3,4	3	1	DIN371
48270149	5	0,8	70	6,4	25	6	4,9	3	1	DIN371
48270155	6	1	80	8	30	6	4,9	3	1	DIN371
48270161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48270169	10	1,5	100	12	39	10	8	3	1	DIN371
48270179	12	1,75	110	14	-	9	7	3	2	DIN376
48270191	14	2	110	16	-	11	9	3	2	DIN376
48270202	16	2	110	16	-	12	9	3	2	DIN376

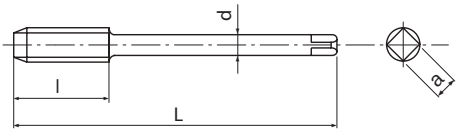
S-SFT FORM E NEW

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- Form E chamfer

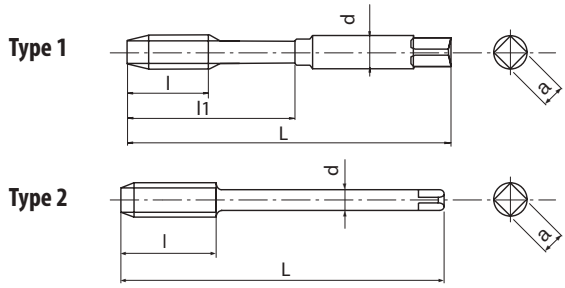
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

M | HSSE | OX | 40° | ISO 2 6H | E/1,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48268138	3	0,5	56	4	18	3,5	2,7	3	1	DIN371
48268144	4	0,7	63	5,6	21	4,5	3,4	3	1	DIN371
48268149	5	0,8	70	6,4	25	6	4,9	3	1	DIN371
48268155	6	1	80	8	30	6	4,9	3	1	DIN371
48268161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48268169	10	1,5	100	12	39	10	8	3	1	DIN371
48268179	12	1,75	110	14	-	9	7	3	2	DIN376
48268191	14	2	110	16	-	11	9	3	2	DIN376
48268202	16	2	110	16	-	12	9	3	2	DIN376

S-LT-SFT NEW

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- With long shank for long reach threading

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

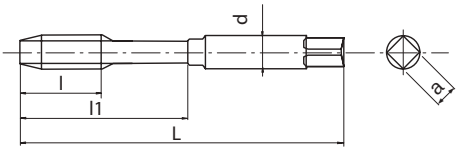
M | HSSE | 0X | 40° | ISO 2 6H | C/2,5

EDP	M	P	L	l	l1	d	a	Z	Type
48275125	2	0,4	80	3,2	10	2,8	2,1	2	1
48275133	2,5	0,45	100	3,6	13	2,8	2,1	2	1
48275138	3	0,5	100	4	18	3,5	2,7	3	1
48275144	4	0,7	125	5,6	21	4,5	3,4	3	1
48275149	5	0,8	160	6,4	25	6	4,9	3	1
48275155	6	1	160	8	30	6	4,9	3	1
48275161	8	1,25	180	10	35	8	6,2	3	1
48275169	10	1,5	200	12	39	10	8	3	1
48275187	6	1	160	10	-	4,5	3,4	3	2
48275188	8	1,25	180	11	-	6	4,9	3	2
48275189	10	1,5	200	14	-	7	5,5	3	2
48275179	12	1,75	200	14	-	9	7	3	2
48275191	14	2	200	16	-	11	9	3	2
48275202	16	2	200	16	-	12	9	3	2
48275214	18	2,5	200	25	-	14	11	4	2
48275228	20	2,5	200	25	-	16	12	4	2

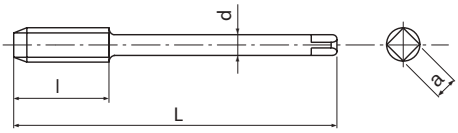
S-SFT-LH NEW

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For left-hand threads

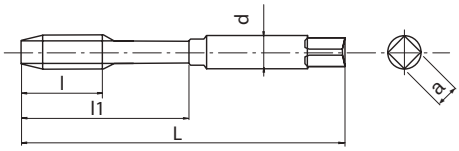
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

M | HSSE | OX | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376 | LH

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48276138	3	0,5	56	4	18	3,5	2,7	3	1	DIN371
48276144	4	0,7	63	5,6	21	4,5	3,4	3	1	DIN371
48276149	5	0,8	70	6,4	25	6	4,9	3	1	DIN371
48276155	6	1	80	8	30	6	4,9	3	1	DIN371
48276161	8	1,25	90	10	35	8	6,2	3	1	DIN371
48276169	10	1,5	100	12	39	10	8	3	1	DIN371
48276179	12	1,75	110	14	-	9	7	3	2	DIN376
48276191	14	2	110	16	-	11	9	3	2	DIN376
48276202	16	2	110	16	-	12	9	3	2	DIN376
48276214	18	2,5	125	25	-	14	11	4	2	DIN376
48276228	20	2,5	140	25	-	16	12	4	2	DIN376
48276238	22	2,5	140	25	-	18	14,5	4	2	DIN376
48276247	24	3	160	30	-	18	14,5	4	2	DIN376

S-SFT-HB Weldon NEW

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- With Weldon shank

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

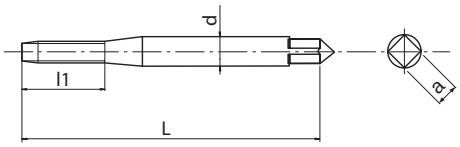
M | HSSE | OX | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 1835 | HB

EDP	M	P	L	l	l1	d	a	Z	DIN
48277138	3	0,5	56	4	18	6	4,9	3	DIN371/1835
48277144	4	0,7	63	5,6	21	6	4,9	3	DIN371/1835
48277149	5	0,8	70	6,4	25	6	4,9	3	DIN371/1835
48277155	6	1	80	8	30	6	4,9	3	DIN371/1835
48277161	8	1,25	90	10	35	8	6,2	3	DIN371/1835
48277169	10	1,5	100	12	39	10	8	3	DIN371/1835
48277179	12	1,75	110	14	46	12	9	3	DIN371/1835
48277191	14	2	110	16	49	14	11	3	DIN371/1835
48277202	16	2	110	16	56	16	12	3	DIN371/1835

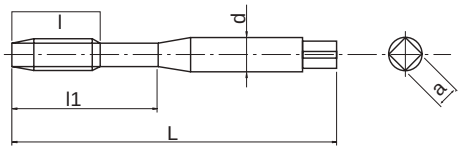
VA-SFT

Threading | Cutting taps | Metric

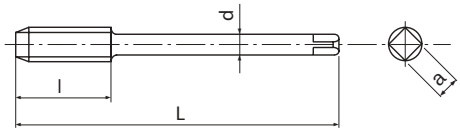
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

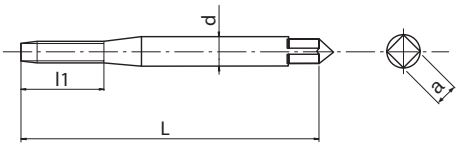
M | HSSE | OX | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
65312560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
65312860	2,2	0,45	45	-	9	2,8	2,1	2	1	DIN371
65313360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
65313860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
65314060	3,5	0,6	56	-	20	4	3	3	2	DIN371
65314460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
65314960	5	0,8	70	-	25	6	4,9	3	2	DIN371
65315560	6	1	80	-	30	6	4,9	3	2	DIN371
65316160	8	1,25	90	-	35	8	6,2	3	2	DIN371
65316960	10	1,5	100	-	39	10	8	3	2	DIN371
65413860	3	0,5	56	5	-	2,2	-	3	3	DIN376
65414460	4	0,7	63	7	-	2,8	2,1	3	3	DIN376
65414960	5	0,8	70	8	-	3,5	2,7	3	3	DIN376
65415560	6	1	80	10	-	4,5	3,4	3	3	DIN376
65416160	8	1,25	90	13	-	6	4,9	3	3	DIN376
65416960	10	1,5	100	15	-	7	5,5	3	3	DIN376
65417960	12	1,75	110	18	-	9	7	4	3	DIN376
65419160	14	2	110	20	-	11	9	4	3	DIN376
65420260	16	2	110	20	-	12	9	4	3	DIN376
65421460	18	2,5	125	25	-	14	11	4	3	DIN376
65422860	20	2,5	140	25	-	16	12	4	3	DIN376
65423860	22	2,5	140	25	-	18	14,5	4	3	DIN376
65424760	24	3	160	30	-	18	14,5	4	3	DIN376
65426260	27	3	160	30	-	20	16	4	3	DIN376
65427160	30	3,5	180	35	-	22	18	5	3	DIN376
65428160	33	3,5	180	35	-	25	20	5	3	DIN376
65429460	36	4	200	40	-	28	22	5	3	DIN376

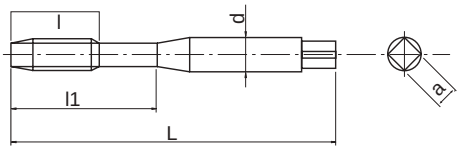
VA-SFT 6G

Threading | Cutting taps | Metric

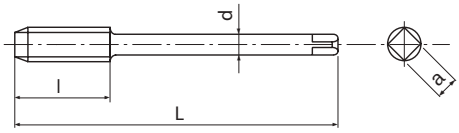
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 6G internal thread tolerance

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

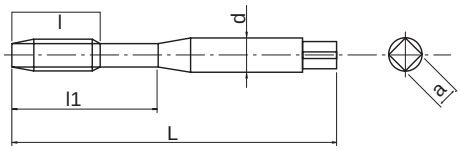
M | HSSE | 0X | 40° | ISO 3 6G | C/2,5 | DIN 371 | DIN 376

EDP	M	P	oversize	L	l	l1	d	a	Z	Type	DIN
65312599	2	0,4	+0,019	45	-	8	2,8	2,1	2	1	DIN371
65313399	2,5	0,45	+0,020	50	-	9	2,8	2,1	2	1	DIN371
65313899	3	0,5	+0,020	56	-	18	3,5	2,7	3	2	DIN371
65314499	4	0,7	+0,022	63	-	21	4,5	3,4	3	2	DIN371
65314999	5	0,8	+0,024	70	-	25	6	4,9	3	2	DIN371
65315599	6	1	+0,026	80	-	30	6	4,9	3	2	DIN371
65316199	8	1,25	+0,028	90	-	35	8	6,2	3	2	DIN371
65316999	10	1,5	+0,032	100	-	39	10	8	3	2	DIN371
65417999	12	1,75	+0,034	110	18	-	9	7	4	3	DIN376
65419199	14	2	+0,038	110	20	-	11	9	4	3	DIN376
65420299	16	2	+0,038	110	20	-	12	9	4	3	DIN376

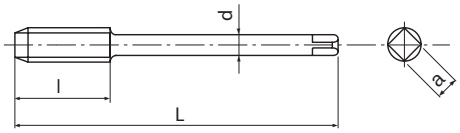
VA-SFT FORM E

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- Form E chamfer

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

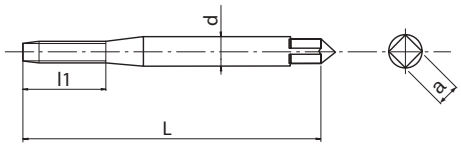
M | HSSE | OX | 40° | ISO 2 6H | E/1,5 | ≥2D | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48036138	3	0,5	56	-	18	3,5	2,7	3	1	DIN371
48036144	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
48036149	5	0,8	70	-	25	6	4,9	3	1	DIN371
48036155	6	1	80	-	30	6	4,9	3	1	DIN371
48036161	8	1,25	90	-	35	8	6,2	3	1	DIN371
48036169	10	1,5	100	-	39	10	8	3	1	DIN371
48036179	12	1,75	110	18	-	9	7	3	2	DIN376
48036191	14	2	110	20	-	11	9	3	2	DIN376
48036202	16	2	110	20	-	12	9	3	2	DIN376

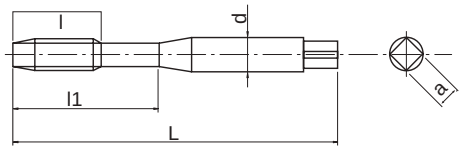
Z-SFT

Threading | Cutting taps | Metric

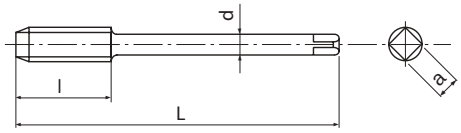
Type 1



Type 2



Type 3



- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and stainless steels

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	S Ti	H 25-35 HRC	
10-25	10-25	10-25	8-20	8-20	15-35	15-35	5-10	8-15	m/min

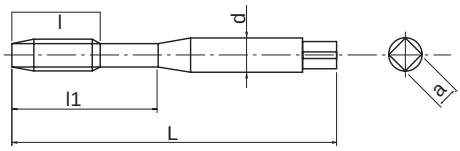
M	PM	V	50°	ISO 2 6H	C/2,5		DIN 371	DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
80512568	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
80513368	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
80513868	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
80514468	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
80514968	5	0,8	70	-	25	6	4,9	3	2	DIN371
80515568	6	1	80	-	30	6	4,9	3	2	DIN371
80516168	8	1,25	90	-	35	8	6,2	3	2	DIN371
80516968	10	1,5	100	-	39	10	8	3	2	DIN371
80613868	3	0,5	56	5	-	2,2	-	3	3	DIN376
80614468	4	0,7	63	7	-	2,8	2,1	3	3	DIN376
80614968	5	0,8	70	8	-	3,5	2,7	3	3	DIN376
80615568	6	1	80	10	-	4,5	3,4	3	3	DIN376
80616168	8	1,25	90	13	-	6	4,9	3	3	DIN376
80616968	10	1,5	100	15	-	7	5,5	3	3	DIN376
80617968	12	1,75	110	18	-	9	7	4	3	DIN376
80619168	14	2	110	20	-	11	9	4	3	DIN376
80620268	16	2	110	20	-	12	9	4	3	DIN376
80621468	18	2,5	125	25	-	14	11	4	3	DIN376
80622868	20	2,5	140	25	-	16	12	4	3	DIN376
81623868	22	2,5	140	25	-	18	14,5	4	3	DIN376
81624768	24	3	160	30	-	18	14,5	4	3	DIN376
81626268	27	3	160	30	-	20	16	4	3	DIN376
81627168	30	3,5	180	35	-	22	18	4	3	DIN376

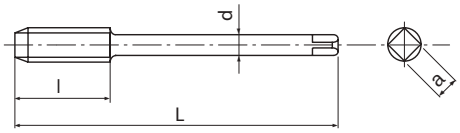
Z-OIL-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and stainless steels
- Centre through coolant

P ◉	P ◉	P ◉	P ○	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
10-25	10-25	10-25	8-20	8-20	15-35	15-35	5-10	8-15	m/min

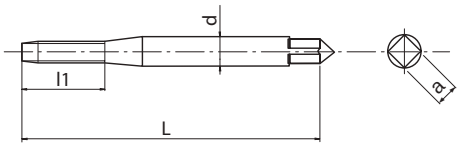
M | PM | V | 50° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
80515588	6	1	80	-	30	6	4,9	3	1	DIN371
80516188	8	1,25	90	-	35	8	6,2	3	1	DIN371
80516988	10	1,5	100	-	39	10	8	3	1	DIN371
80617988	12	1,75	110	18	-	9	7	4	2	DIN376
80619188	14	2	110	20	-	11	9	4	2	DIN376
80620288	16	2	110	20	-	12	9	4	2	DIN376
80621488	18	2,5	125	25	-	14	11	4	2	DIN376
80622888	20	2,5	140	25	-	16	12	4	2	DIN376

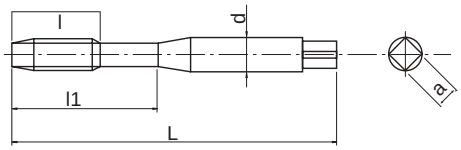
SFT

Threading | Cutting taps | Metric

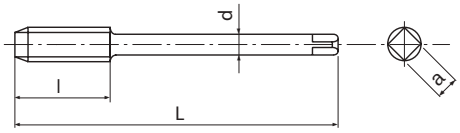
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- Bright finish
- For general purpose applications

P	P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
8-13	7-12	7-12	6-9	6-8	10-20	10-15	m/min

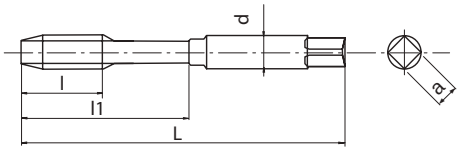
M | HSSE | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
61312560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
61313360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
61313860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
61314060	3,5	0,6	56	-	20	4	3	3	2	DIN371
61314460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
61314960	5	0,8	70	-	25	6	4,9	3	2	DIN371
61315560	6	1	80	-	30	6	4,9	3	2	DIN371
61316160	8	1,25	90	-	35	8	6,2	3	2	DIN371
61316960	10	1,5	100	-	39	10	8	3	2	DIN371
61413860	3	0,5	56	5	-	2,2	-	3	3	DIN376
61414460	4	0,7	63	7	-	2,8	2,1	3	3	DIN376
61414960	5	0,8	70	8	-	3,5	2,7	3	3	DIN376
61415560	6	1	80	10	-	4,5	3,4	3	3	DIN376
61416160	8	1,25	90	13	-	6	4,9	3	3	DIN376
61416960	10	1,5	100	15	-	7	5,5	3	3	DIN376
61417960	12	1,75	110	18	-	9	7	3	3	DIN376
61419160	14	2	110	20	-	11	9	3	3	DIN376
61420260	16	2	110	20	-	12	9	3	3	DIN376
61421460	18	2,5	125	25	-	14	11	4	3	DIN376
61422860	20	2,5	140	25	-	16	12	4	3	DIN376
61423860	22	2,5	140	25	-	18	14,5	4	3	DIN376
61424760	24	3	160	30	-	18	14,5	4	3	DIN376
61426260	27	3	160	30	-	20	16	4	3	DIN376
61427160	30	3,5	180	35	-	22	18	4	3	DIN376
61428160	33	3,5	180	35	-	25	20	4	3	DIN376
61429460	36	4	200	40	-	28	22	4	3	DIN376

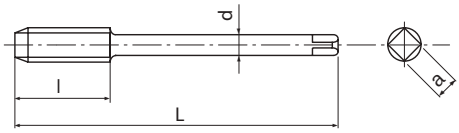
SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Bright finish
- For general purpose applications
- According to DIN 352 shank reduced length

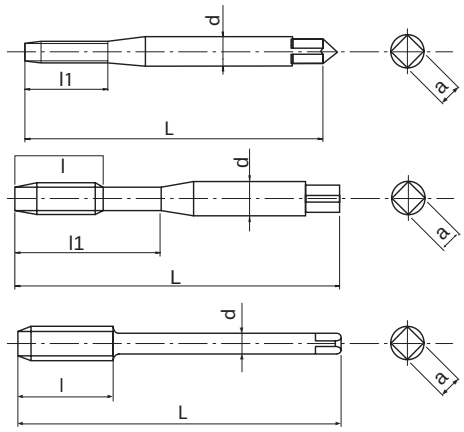
P	P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
8-13	7-12	7-12	6-9	6-8	10-20	10-15	m/min

M	HSSE	40°	ISO 2 6H	C/2,5		DIN 352

EDP	M	P	L	l	d	a	Z	Type	DIN
60413860	3	0,5	40	18	3,5	2,7	3	1	DIN352
60414460	4	0,7	45	21	4,5	3,4	3	1	DIN352
60414960	5	0,8	50	24	6	4,9	3	1	DIN352
60415560	6	1	50	27	6	4,9	3	1	DIN352
60416160	8	1,25	63	13	6	4,9	3	2	DIN352
60416960	10	1,5	70	15	7	5,5	3	2	DIN352

TIN-SFT

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- TIN coating
- For steels up to 850 N/mm²

P ○	P ○	P ◉	P ○	M ○	K ○	N ○	N ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	Al	AC,ADC	
8-13	7-12	7-12	6-9	5-8	7-12	10-20	10-15	m/min

M | HSSE | TiN | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
6131256001	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
6131336001	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
6131386001	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
6131406001	3,5	0,6	56	-	20	4	3	3	2	DIN371
6131446001	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
6131496001	5	0,8	70	-	25	6	4,9	3	2	DIN371
6131556001	6	1	80	-	30	6	4,9	3	2	DIN371
6131616001	8	1,25	90	-	36	8	6,2	3	2	DIN371
6131696001	10	1,5	100	-	39	10	8	3	2	DIN371
6141386001	3	0,5	56	5	-	2,2	-	3	3	DIN376
6141446001	4	0,7	63	7	-	2,8	2,1	3	3	DIN376
6141496001	5	0,8	70	8	-	3,5	2,7	3	3	DIN376
6141556001	6	1	80	10	-	4,5	3,4	3	3	DIN376
6141616001	8	1,25	90	13	-	6	4,9	3	3	DIN376
6141696001	10	1,5	100	15	-	7	5,5	3	3	DIN376
6141796001	12	1,75	110	18	-	9	7	3	3	DIN376
6141916001	14	2	110	20	-	11	9	3	3	DIN376
6142026001	16	2	110	20	-	12	9	3	3	DIN376
6142146001	18	2,5	125	25	-	14	11	4	3	DIN376
6142286001	20	2,5	140	25	-	16	12	4	3	DIN376
6142386001	22	2,5	140	25	-	18	14,5	4	3	DIN376
6142476001	24	3	160	30	-	18	14,5	4	3	DIN376
6142626001	27	3	160	30	-	20	16	4	3	DIN376
6142716001	30	3,5	180	35	-	22	18	4	3	DIN376

TICN-SFT

Threading | Cutting taps | Metric

- HSSE spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For steels up to 850 N/mm²

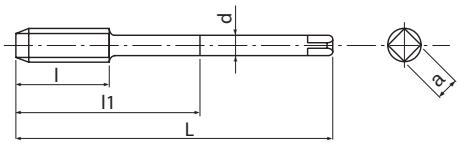
P	P	P	P	M	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	Al	AC,ADC	
8-13	7-12	7-12	6-9	5-8	7-12	10-20	10-15	m/min

M | HSSE | V | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
6131256002	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
6131386002	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
6131446002	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
6131496002	5	0,8	70	-	25	6	4,9	3	2	DIN371
6131556002	6	1	80	-	30	6	4,9	3	2	DIN371
6131616002	8	1,25	90	-	36	8	6,2	3	2	DIN371
6131696002	10	1,5	100	-	39	10	8	3	2	DIN371
6141796002	12	1,75	110	18	-	9	7	3	3	DIN376
6141916002	14	2	110	20	-	11	9	3	3	DIN376
6142026002	16	2	110	20	-	12	9	3	3	DIN376
6142146002	18	2,5	125	25	-	14	11	4	3	DIN376
6142286002	20	2,5	140	25	-	16	12	4	3	DIN376
6142386002	22	2,5	140	25	-	18	14,5	4	3	DIN376
6142476002	24	3	160	30	-	18	14,5	4	3	DIN376

HXL-SFT

Threading | Cutting taps | Metric



- HSSE low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For steels and cast iron
- For horizontal applications in oil and heavy industry

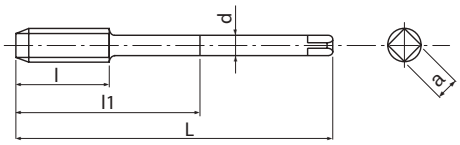
P ○	P ○	P ◉	P ◉	M ○	K ◉	K ◉	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	25-35 HRC	
8-13	7-12	7-12	6-9	5-8	7-12	7-12	3-5	m/min

M | HSSE | 0X | 15° | ISO 2 6HX | C/2,5

EDP	M	P	L	l	l1	d	a	Z
48045228	20	2,5	140	20	69	16	12	5
48045247	24	3	160	24	81	18	14,5	5
48045262	27	3	160	24	90	20	16	5
48045271	30	3,5	250	28	161	22	18	5
48045281	33	3,5	250	28	176	25	20	5
48045294	36	4	250	32	174	28	22	5
48045304	39	4	300	32	188	32	24	5
48045314	42	4,5	300	36	203	32	24	6
48045325	48	5	300	40	183	36	29	6
48045337	52	5	300	40	197	40	32	6
48045347	56	5,5	300	44	213	45	35	6

OIL-HXL-SFT

Threading | Cutting taps | Metric



- HSSE low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For steels and cast iron
- Centre through coolant, for horizontal applications in oil and heavy industry

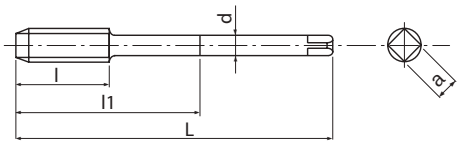
P ○	P ○	P ◉	P ◉	M ○	K ◉	K ◉	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	25-35 HRC	
8-13	7-12	7-12	6-9	5-8	7-12	7-12	3-5	m/min

M	HSSE	0X	15°	ISO 2 6HX	C/2,5		

EDP	M	P	L	l	l1	d	a	Z
48048228	20	2,5	140	20	69	16	12	5
48048247	24	3	160	24	81	18	14,5	5
48048262	27	3	160	24	90	20	16	5
48048271	30	3,5	250	28	161	22	18	5
48048281	33	3,5	250	28	176	25	20	5
48048294	36	4	250	32	174	28	22	5
48048304	39	4	300	32	188	32	24	5
48048314	42	4,5	300	36	203	32	24	6
48048325	48	5	300	40	183	36	29	6
48048337	52	5	300	40	197	40	32	6
48048347	56	5,5	300	44	213	45	35	6

VXL-SFT

Threading | Cutting taps | Metric



- HSSE high spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For general steels
- For vertical applications in oil and heavy industry

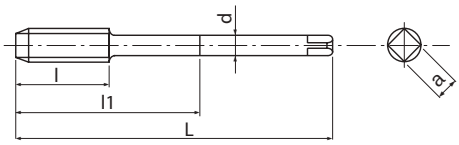
P ○	P ○	P ◉	P ◉	M ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	25-35 HRC	
8-13	7-12	7-12	6-9	5-8	3-5	m/min

M	HSSE	0X	45°	ISO 2 6HX	C/2,5	

EDP	M	P	L	l	l1	d	a	Z
48046228	20	2,5	140	20	69	16	12	4
48046247	24	3	160	24	81	18	14,5	4
48046262	27	3	160	24	90	20	16	4
48046271	30	3,5	250	28	161	22	18	5
48046281	33	3,5	250	28	176	25	20	5
48046294	36	4	250	32	174	28	22	5
48046304	39	4	300	32	188	32	24	5
48046314	42	4,5	300	36	203	32	24	6
48046325	48	5	300	40	183	36	29	6
48046337	52	5	300	40	197	40	32	6
48046347	56	5,5	300	44	213	45	35	6

OIL-VXL-SFT

Threading | Cutting taps | Metric



- HSSE high spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For general steels
- Centre through coolant, for vertical applications in oil and heavy industry

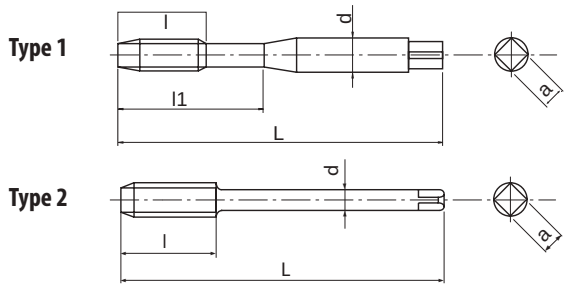
P ○	P ○	P ◉	P ◉	M ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	25-35 HRC	
8-13	7-12	7-12	6-9	5-8	3-5	m/min

M | HSSE | 0X | 45° | ISO 2 6HX | C/2,5

EDP	M	P	L	l	l1	d	a	Z
48049228	20	2,5	140	20	69	16	12	4
48049247	24	3	160	24	81	18	14,5	4
48049262	27	3	160	24	90	20	16	4
48049271	30	3,5	250	28	161	22	18	5
48049281	33	3,5	250	28	176	25	20	5
48049294	36	4	250	32	174	28	22	5
48049304	39	4	300	32	188	32	24	5
48049314	42	4,5	300	36	203	32	24	6
48049325	48	5	300	40	183	36	29	6
48049337	52	5	300	40	197	40	32	6
48049347	56	5,5	300	44	213	45	35	6

WM-SFT

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For mild steels

P ◉	P ◉	P ○	P ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	
8-13	7-12	7-12	6-9	m/min

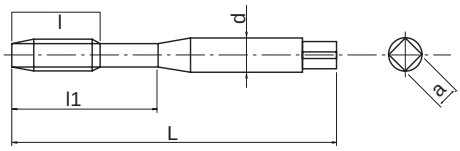
M | HSSE | OX | 40° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
61614460	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
61614960	5	0,8	70	-	25	6	4,9	3	1	DIN371
61615560	6	1	80	-	30	6	4,9	3	1	DIN371
61616160	8	1,25	90	-	35	8	6,2	3	1	DIN371
61616960	10	1,5	100	-	39	10	8	3	1	DIN371
61717960	12	1,75	110	18	-	9	7	3	2	DIN376
61719160	14	2	110	20	-	11	9	3	2	DIN376
61720260	16	2	110	20	-	12	9	3	2	DIN376
61721460	18	2,5	125	25	-	14	11	4	2	DIN376
61722860	20	2,5	140	25	-	16	12	4	2	DIN376

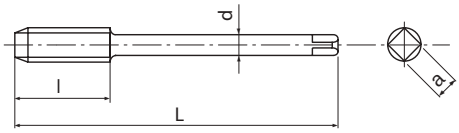
SH-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE low spiral-fluted cutting tap for blind holes
- Bright finish
- For alloyed steels ≥ 1100N/mm²
- Short chip creation

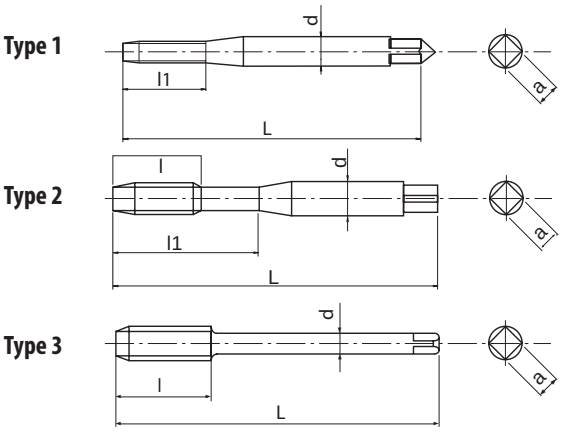
P	P	P	K	K	N	
0,25<C<0,4	C>0.45%	SCM	GG	GGG	AC,ADC	
7-12	7-12	6-9	7-12	6-8	10-15	m/min

M | HSSE | 15° | ISO 2 6H | C/3 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
72313860	3	0,5	56	-	18	3,5	2,7	3	1	DIN371
72314460	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
72314960	5	0,8	70	-	25	6	4,9	3	1	DIN371
72315560	6	1	80	-	30	6	4,9	3	1	DIN371
72316160	8	1,25	90	-	35	8	6,2	3	1	DIN371
72316960	10	1,5	100	-	39	10	8	3	1	DIN371
72017960	12	1,75	110	18	-	9	7	3	2	DIN376
72019160	14	2	110	20	-	11	9	3	2	DIN376
72020260	16	2	110	20	-	12	9	3	2	DIN376
72021460	18	2,5	125	25	-	14	11	4	2	DIN376
72022860	20	2,5	140	25	-	16	12	4	2	DIN376

CC-SFT

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For stainless steels, general steels and aluminium
- Developed for rigid tapping on CNC machines

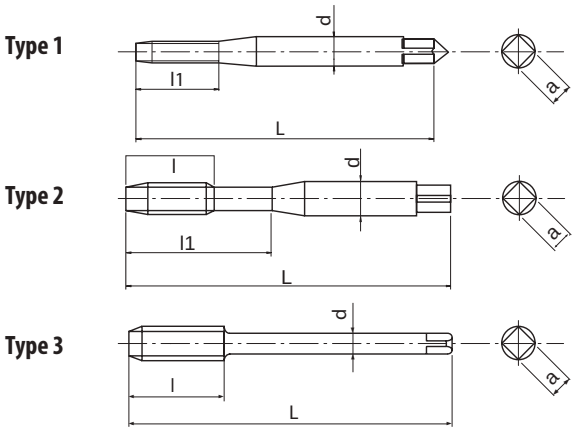
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

M | HSSE | CrN | 45° | ISO 2 6HX | C/2,5 | ≥2D | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48032125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48032133	2,5	0,45	50	-	10	2,8	2,1	2	1	DIN371
48032138	3	0,5	56	-	12	3,5	2,7	3	1	DIN371
48032144	4	0,7	63	-	16	4,5	3,4	3	1	DIN371
48032149	5	0,8	70	-	20	6	4,9	3	1	DIN371
48032155	6	1	80	-	24	6	4,9	3	1	DIN371
48032161	8	1,25	90	-	35	8	6,2	3	2	DIN371
48032169	10	1,5	100	-	39	10	8	4	2	DIN371
48035138	3	0,5	56	5	-	2,2	-	3	3	DIN376
48035144	4	0,7	63	7	-	2,8	2,1	3	3	DIN376
48035149	5	0,8	70	8	-	3,5	2,7	3	3	DIN376
48035155	6	1	80	10	-	4,5	3,4	3	3	DIN376
48035161	8	1,25	90	11	-	6	4,9	3	3	DIN376
48035169	10	1,5	100	14	-	7	5,5	4	3	DIN376
48032179	12	1,75	110	16	-	9	7	4	3	DIN376
48032191	14	2	110	18	-	11	9	4	3	DIN376
48032202	16	2	110	18	-	12	9	4	3	DIN376
48032214	18	2,5	125	23	-	14	11	4	3	DIN376
48032228	20	2,5	140	23	-	16	12	4	3	DIN376
48032238	22	2,5	140	23	-	18	14,5	4	3	DIN376
48032247	24	3	160	27	-	18	14,5	4	3	DIN376
48032262	27	3	160	27	-	20	16	4	3	DIN376
48032271	30	3,5	180	32	-	22	18	4	3	DIN376
48032294	36	4	200	36	-	28	22	4	3	DIN376

CC-LT-SFT

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For stainless steels, general steels and aluminium
- With long shank for long reach threading

P	P	P	P	M	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

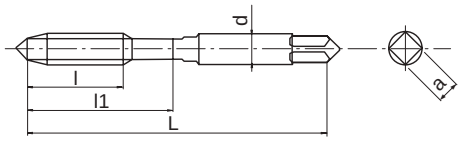
M | HSSE | CrN | 45° | ISO 2 6HX | C/2,5 | ≥2D

EDP	M	P	L	l	l1	d	a	Z	Type
48113125	2	0,4	80	-	8	2,8	2,1	2	1
48113133	2,5	0,45	100	-	10	2,8	2,1	2	1
48113138	3	0,5	100	-	12	3,5	2,7	3	1
48113144	4	0,7	125	-	16	4,5	3,4	3	1
48113149	5	0,8	140	-	20	6	4,9	3	1
48113155	6	1	160	-	24	6	4,9	3	1
48113161	8	1,25	180	-	35	8	6,2	3	2
48113169	10	1,5	200	-	39	10	8	4	2
48113179	12	1,75	200	16	-	9	7	4	3

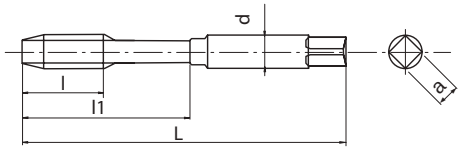
CC-NEO-SFT

Threading | Cutting taps | Metric

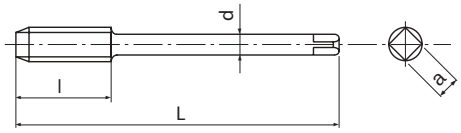
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- TIN coating
- For general steels, stainless steels and aluminium
- Variable helix for better chip evacuation

P ◉	P ◉	P ◉	P ○	M ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

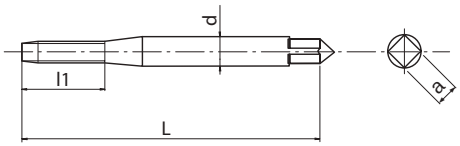
M | HSSE | TiN | 45° | ISO 2 6HX | C/2,5 | ≥2D | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48081125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48081133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48081138	3	0,5	56	-	18	3,5	2,7	2	2	DIN371
48081144	4	0,7	63	-	21	4,5	3,4	2	2	DIN371
48081149	5	0,8	70	-	25	6	4,9	2	2	DIN371
48081155	6	1	80	-	30	6	4,9	2	2	DIN371
48081161	8	1,25	90	-	35	8	6,2	3	2	DIN371
48081169	10	1,5	100	-	39	10	8	3	2	DIN371
48081179	12	1,75	110	13	-	9	7	3	3	DIN376
48081191	14	2	110	14	-	11	9	3	3	DIN376
48081202	16	2	110	14	-	12	9	3	3	DIN376

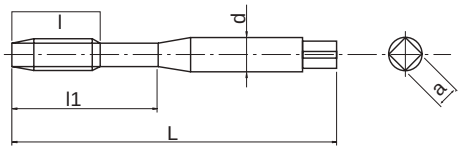
SUS-SFT

Threading | Cutting taps | Metric

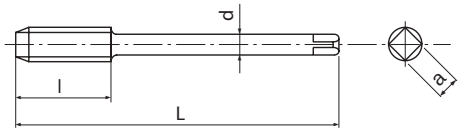
Type 1



Type 2



Type 3



- HSSE high spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For stainless steels

M INOX

6-10 m/min

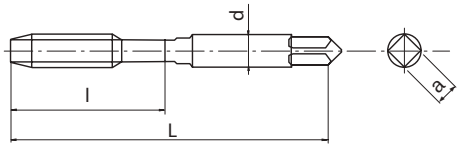
M | HSSE | OX | 50° | ISO 2 6HX | C/2,5 | <1,5D | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48025125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48025128	2,2	0,45	45	-	9	2,8	2,1	2	1	DIN371
48025133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48025138	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
48025140	3,5	0,6	56	-	20	4	3	3	2	DIN371
48025144	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
48025149	5	0,8	70	-	25	6	4,9	3	2	DIN371
48025155	6	1	80	-	30	6	4,9	3	2	DIN371
48025161	8	1,25	90	-	35	8	6,2	3	2	DIN371
48025169	10	1,5	100	-	39	10	8	3	2	DIN371
48026179	12	1,75	110	18	-	9	7	3	3	DIN376
48026191	14	2	110	20	-	11	9	3	3	DIN376
48026202	16	2	110	20	-	12	9	3	3	DIN376
48026214	18	2,5	125	25	-	14	11	4	3	DIN376
48026228	20	2,5	140	25	-	16	12	4	3	DIN376
48026238	22	2,5	140	25	-	18	14,5	4	3	DIN376
48026247	24	3	160	30	-	18	14,5	4	3	DIN376

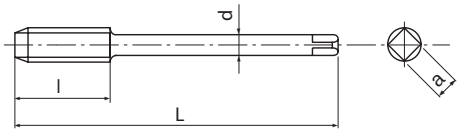
HS-SFT-TIN

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- TIN coating
- For high speed tapping in various materials

P ◉	P ◉	P ◉	P ◉	M ○	N ○	N ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
27-32	27-32	22-27	22-27	15-20	50-100	40-100	m/min

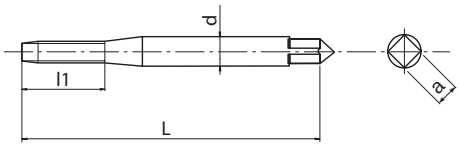
M	HSSE	TiN	45°	ISO 2 6H	C/3	

EDP	M	P	L	l	d	a	Z	Type
20810	3	0,5	46	19	4	3,2	3	1
20814	4	0,7	52	21	6	4,5	3	1
20818	5	0,8	60	24	6	4,5	3	1
20822	6	1	62	29	6	4,5	3	1
20828	8	1,25	70	37	8	6	3	1
20834	10	1,5	75	12	8	6	3	2
20839	12	1,75	82	14	10	8	3	2

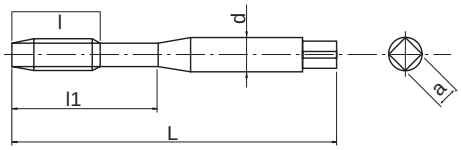
AL-SFT

Threading | Cutting taps | Metric

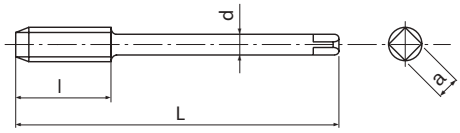
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- Bright finish
- For aluminium and cast aluminium

N Al | N AC,ADC

10-20	10-15	m/min

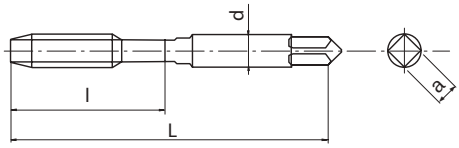
M | HSSE | 50° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
70211860	1,6	0,35	40	-	8	2,5	2,1	2	1	DIN371
70212560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
70212860	2,2	0,45	45	-	9	2,8	2,1	2	1	DIN371
70213360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
70213860	3	0,5	56	-	18	3,5	2,7	2	2	DIN371
70214060	3,5	0,6	56	-	20	4	3	2	2	DIN371
70214460	4	0,7	63	-	21	4,5	3,4	2	2	DIN371
70214960	5	0,8	70	-	25	6	4,9	2	2	DIN371
70215560	6	1	80	-	30	6	4,9	2	2	DIN371
70216160	8	1,25	90	-	35	8	6,2	2	2	DIN371
70216960	10	1,5	100	-	39	10	8	2	2	DIN371
70317960	12	1,75	110	18	-	9	7	2	3	DIN376
70319160	14	2	110	20	-	11	9	2	3	DIN376
70320260	16	2	110	20	-	12	9	2	3	DIN376
70321460	18	2,5	125	25	-	14	11	2	3	DIN376
70322860	20	2,5	140	25	-	16	12	3	3	DIN376

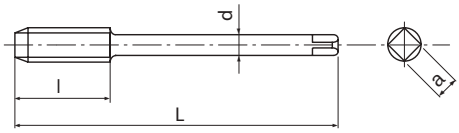
US-AL-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For high speed tapping in aluminium and cast aluminium
- Developed for rigid tapping on CNC machines

N Al	N AC,ADC	
100-400	100-400	m/min

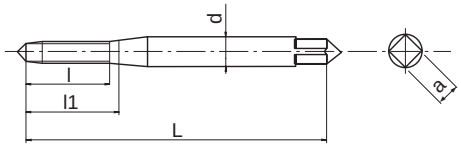
M | HSSE | V | 45° | ISO 2 6H | C/3

EDP	M	P	L	l	d	a	Z	Type
8311669	3	0,5	46	19	4	3,2	2	1
8311683	4	0,7	52	21	6	4,5	2	1
8311697	5	0,8	60	24	6	4,5	2	1
8311711	6	1	62	29	6	4,5	2	1
8311725	8	1,25	70	37	8	6	2	1
8311739	10	1,5	75	12	8	6	2	2
8311757	12	1,75	82	14	10	8	2	2

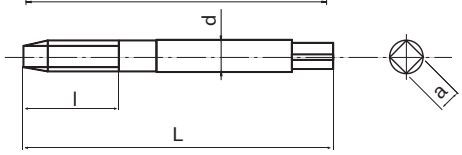
V-TI-SFT

Threading | Cutting taps | Metric

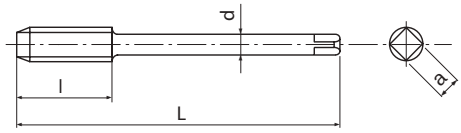
Type 1



Type 2



Type 3



- Powder metal low spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

3-5 m/min

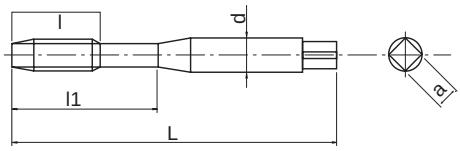
M | PM | V | 10° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48011118	1,6	0,35	40	-	8	2,5	2,1	2	1	DIN371
48011125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48011133	2,5	0,45	50	-	9	2,8	2,1	2	2	DIN371
48011138	3	0,5	56	-	11	3,5	2,7	3	2	DIN371
48011144	4	0,7	63	-	14	4,5	3,4	3	2	DIN371
48011149	5	0,8	70	-	17	6	4,9	3	2	DIN371
48011155	6	1	80	-	21	6	4,9	3	2	DIN371
48011161	8	1,25	90	-	28	8	6,2	3	2	DIN371
48011169	10	1,5	100	-	35	10	8	3	2	DIN371
48011179	12	1,75	110	18	-	10	8	3	3	DIN376

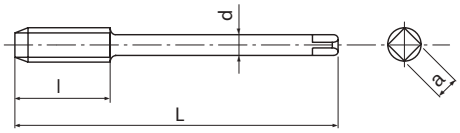
E-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For Nickel-based alloys including Inconel 718

S Ni

1-3 m/min

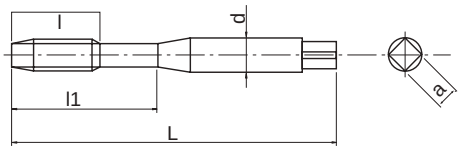
M | PM | 10° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
89513860	3	0,5	56	-	11	3,5	2,7	3	1	DIN371
89514460	4	0,7	63	-	14	4,5	3,4	3	1	DIN371
89514960	5	0,8	70	-	18	6	4,9	3	1	DIN371
89515560	6	1	80	-	21	6	4,9	3	1	DIN371
89516160	8	1,25	90	-	28	8	6,2	3	1	DIN371
89516960	10	1,5	100	-	35	10	8	3	1	DIN371
89617960	12	1,75	110	18	-	10	8	3	2	DIN376

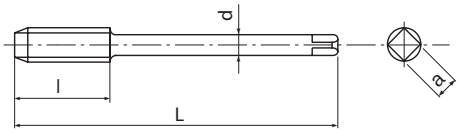
WHR-NI-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- HR coating
- For Nickel-based alloys including Inconel 718

S Ni

1-3 m/min

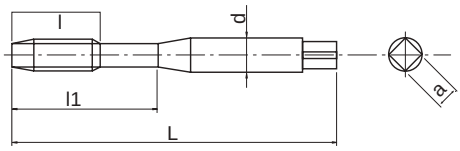
M | PM | HR | 11° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48078138	3	0,5	56	-	11	3,5	2,7	3	1	DIN371
48078144	4	0,7	63	-	14	4,5	3,4	3	1	DIN371
48078149	5	0,8	70	-	18	6	4,9	3	1	DIN371
48078155	6	1	80	-	21	6	4,9	3	1	DIN371
48078161	8	1,25	90	-	28	8	6,2	3	1	DIN371
48078169	10	1,5	100	-	35	10	8	3	1	DIN371
48078179	12	1,75	110	18	-	10	8	3	2	DIN376

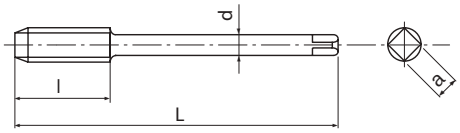
CPM-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For steels up to 900 N/mm² and cast iron

P ◉	P ○	K ○	K ○	H ◉	H ◉	
C>0.45%	SCM	GG	GGG	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	7-12	4-8	4-8	m/min

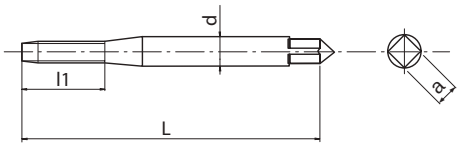
M | PM | 15° | ISO 2 6H | C/3 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
81913860	3	0,5	56	-	18	3,5	2,7	3	1	DIN371
81914460	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
81914960	5	0,8	70	-	25	6	4,9	3	1	DIN371
81915560	6	1	80	-	30	6	4,9	3	1	DIN371
81916160	8	1,25	90	-	35	8	6,2	3	1	DIN371
81916960	10	1,5	100	-	39	10	8	3	1	DIN371
82016160	8	1,25	90	13	-	6	4,9	3	2	DIN376
82016960	10	1,5	100	15	-	7	5,5	3	2	DIN376
82017960	12	1,75	110	18	-	9	7	3	2	DIN376
82019160	14	2	110	20	-	11	9	3	2	DIN376
82020260	16	2	110	20	-	12	9	3	2	DIN376
82021460	18	2,5	125	25	-	14	11	4	2	DIN376
82022860	20	2,5	140	25	-	16	12	4	2	DIN376

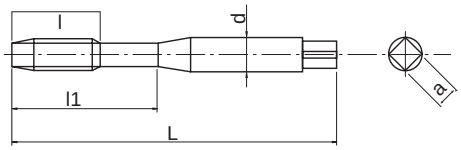
H-SFT

Threading | Cutting taps | Metric

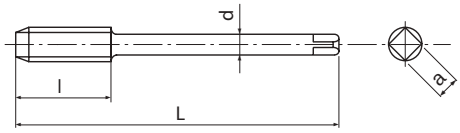
Type 1



Type 2



Type 3



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

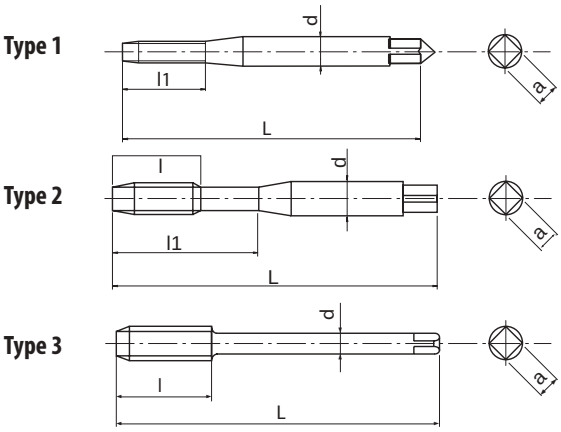
P ◉	P ○	K ○	S ◉	S ◉	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

M | PM | OX | 15° | ISO 2 6H | C/3 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
83212560	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
83213360	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
83213860	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
83214460	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
83214960	5	0,8	70	-	25	6	4,9	3	2	DIN371
83215560	6	1	80	-	30	6	4,9	3	2	DIN371
83216160	8	1,25	90	-	35	8	6,2	3	2	DIN371
83216960	10	1,5	100	-	39	10	8	3	2	DIN371
83317960	12	1,75	110	18	-	9	7	3	3	DIN376
83319160	14	2	110	20	-	11	9	3	3	DIN376
83320260	16	2	110	20	-	12	9	3	3	DIN376
83321460	18	2,5	125	25	-	14	11	4	3	DIN376
83322860	20	2,5	140	25	-	16	12	4	3	DIN376

VP-H-SFT

Threading | Cutting taps | Metric



- Powder metal low spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For hardened steels up to 45 HRC

P ◉	P ○	K ○	S ◉	S ◉	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

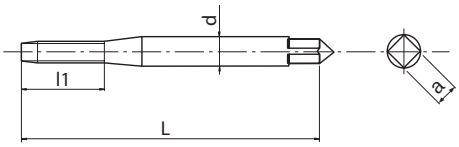
M | PM | V | 15° | ISO 2 6HX | C/3 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48082125	2	0,4	45	-	8	2,8	2,1	2	1	DIN371
48082133	2,5	0,45	50	-	9	2,8	2,1	2	1	DIN371
48082138	3	0,5	56	-	18	3,5	2,7	3	2	DIN371
48082144	4	0,7	63	-	21	4,5	3,4	3	2	DIN371
48082149	5	0,8	70	-	25	6	4,9	3	2	DIN371
48082155	6	1	80	-	30	6	4,9	3	2	DIN371
48082161	8	1,25	90	-	35	8	6,2	3	2	DIN371
48082169	10	1,5	100	-	39	10	8	3	2	DIN371
48082179	12	1,75	110	18	-	9	7	3	3	DIN376
48082191	14	2	110	20	-	11	9	3	3	DIN376
48082202	16	2	110	20	-	12	9	3	3	DIN376
48082214	18	2,5	125	25	-	14	11	4	3	DIN376
48082228	20	2,5	140	25	-	16	12	4	3	DIN376
48082238	22	2,5	140	25	-	18	14,5	4	3	DIN376
48082247	24	3	160	30	-	18	14,5	4	3	DIN376
48082262	27	3	160	30	-	20	16	4	3	DIN376
48082271	30	3,5	180	35	-	22	18	4	3	DIN376
48082281	33	3,5	180	35	-	25	20	4	3	DIN376
48082294	36	4	200	40	-	28	22	4	3	DIN376

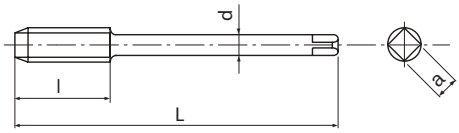
VPO-H-SFT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For hardened steels up to 45 HRC
- Centre through coolant

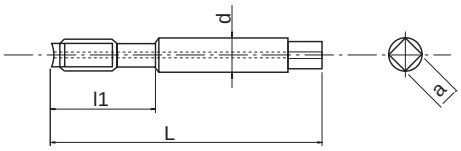
P ◉	P ○	K ○	S ◉	S ◉	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

M | PM | V | 15° | ISO 2 6HX | C/3 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48083155	6	1	80	-	30	6	4,9	3	1	DIN371
48083161	8	1,25	90	-	35	8	6,2	3	1	DIN371
48083169	10	1,5	100	-	39	10	8	3	1	DIN371
48083179	12	1,75	110	18	-	9	7	3	2	DIN376
48083191	14	2	110	20	-	11	9	3	2	DIN376
48083202	16	2	110	20	-	12	9	3	2	DIN376
48083214	18	2,5	125	25	-	14	11	4	2	DIN376
48083228	20	2,5	140	25	-	16	12	4	2	DIN376
48083238	22	2,5	140	25	-	18	14,5	4	2	DIN376
48083247	24	3	160	30	-	18	14,5	4	2	DIN376
48083262	27	3	160	30	-	20	16	4	2	DIN376
48083271	30	3,5	180	35	-	22	18	4	2	DIN376
48083281	33	3,5	180	35	-	25	20	4	2	DIN376
48083294	36	4	200	40	-	28	22	4	2	DIN376

V-EM-SFT

Threading | Cutting taps | Metric



- HSSE spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For die cast aluminium
- Centre through coolant, with end cut, for pre-formed cast holes

N
AC,ADC

10-15 m/min

M | HSSE | V | 45° | ISO 2 6H | C/2,5

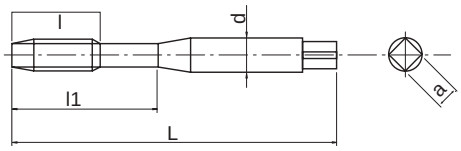
EDP	M	P	L	l1	d	a	Z
1001480570	4	0,7	80	21	6	4,5	3
1001480580	5	0,8	80	24	6	4,5	3
1001480450	6	1	100	29	6	4,5	3
1001480210	8	1,25	100	37	8	6	3
1001480590	10	1,5	100	41	8	6	3
1001480610	12	1,75	100	48	10	8	3
1001480640	14	2	120	48	12	10	3
1001480650	16	2	120	52	16	12	3

VP-DC-MT NEW SIZES

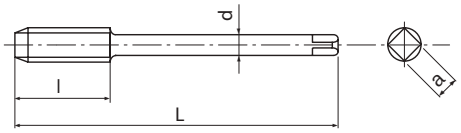
New sizes
available from December 2017

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min

P	P	K	K	N	H	H	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

M | PM | V | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

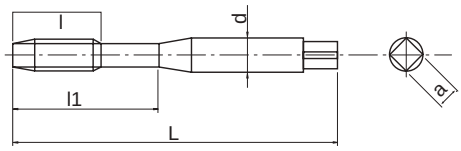
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48020125 NEW	2	0,4	45			2,8	2,1	3	1	DIN371
48020133 NEW	2,5	0,45	50	12	30	7	5,5	3	1	DIN371
48020138	3	0,5	56	-	18	3,5	2,7	3	1	DIN371
48020142 NEW	3,5	0,6	56	18	-	8	6,2	4	2	DIN371
48020144	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
48020149	5	0,8	70	-	25	6	4,9	3	1	DIN371
48020155	6	1	80	-	30	6	4,9	3	1	DIN371
48020158 NEW	7	1	80	30	-	18	14,5	5	2	DIN371
48020161	8	1,25	90	-	35	8	6,2	4	1	DIN371
48020169	10	1,5	100	-	39	10	8	4	1	DIN371
48020175 NEW	11	1,5	100	36	-	18	14,5	5	1	DIN371
48020179	12	1,75	110	21	-	9	7	4	2	DIN376
48022191	14	2	110	24	-	11	9	4	2	DIN376
48022202	16	2	110	24	-	12	9	4	2	DIN376
48022214	18	2,5	125	30	-	14	11	4	2	DIN376
48022228	20	2,5	140	30	-	16	12	4	2	DIN376
48020238 NEW	22	2,5	140	42	-	22	18	6	2	DIN376
48020247 NEW	24	3	160	-	-	-	-	-	2	DIN376
48020271 NEW	30	3,5	180	-	-	-	-	-	2	DIN376

VP-DC-MT FORM E NEW SIZES

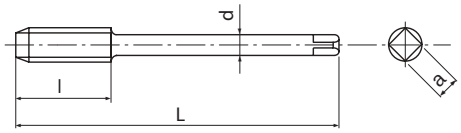
New sizes
available from December 2017

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min, chamfer Form E

P	P	K	K	N	H	H	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

M | PM | V | ISO 2 6HX | E/1,5 | ≥2D | DIN 371 | DIN 376

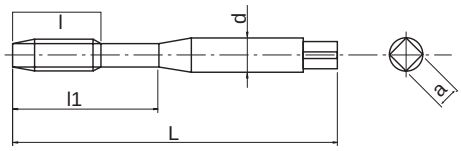
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48037138	3	0,5	56	-	18	3,5	2,7	3	1	DIN371
48037144	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
48037149	5	0,8	70	-	25	6	4,9	3	1	DIN371
48037155	6	1	80	-	30	6	4,9	3	1	DIN371
48037161	8	1,25	90	-	35	8	6,2	4	1	DIN371
48037169	10	1,5	100	-	39	10	8	4	1	DIN371
48037179	12	1,75	110	21	-	9	7	4	2	DIN376
48037191	14	2	110	24	-	11	9	4	2	DIN376
48037202	16	2	110	24	-	12	9	4	2	DIN376
48037214 NEW	18	2,5	125	30	-	14	11	4	2	DIN376
48037228 NEW	20	2,5	140	30	-	16	12	4	2	DIN376
48037238 NEW	22	2,5	140	30	-	18	14,5	5	2	DIN376
48037247 NEW	24	3	160	36	-	18	14,5	5	2	DIN376

VPO-DC-MT Center NEW SIZES

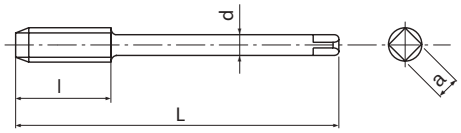
New sizes
available from December 2017

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal straight flute cutting tap for blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min, with Centre through coolant

P ○	P ○	K ◉	K ◉	N ◉	H ○	H ○	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

M | PM | V | ISO 2 6HX | C/2,5 | ≥2D | | DIN 371 | DIN 376

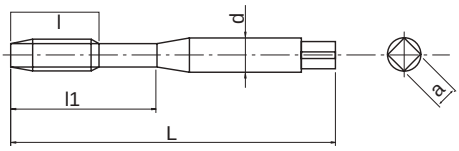
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48021155	6	1	80	-	30	6	4,9	3	1	DIN371
48021161	8	1,25	90	-	35	8	6,2	4	1	DIN371
48021169	10	1,5	100	-	39	10	8	4	1	DIN371
48300179 NEW	12	1,75	110	28	-	9	7	3	2	DIN376
48300191 NEW	14	2	110	24	-	11	9	3	2	DIN376
48300202 NEW	16	2	110	24	-	12	9	3	2	DIN376
48300214 NEW	18	2.5	125	30	-	14	11	4	2	DIN376
48300228 NEW	20	2.5	140	30	-	16	12	4	2	DIN376

VPO-DC-MT Side NEW SIZES

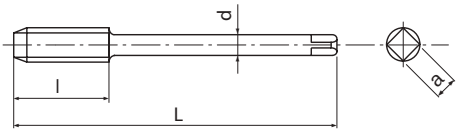
New sizes
available from December 2017

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal straight flute cutting tap for through holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min, with side through coolant

P ○	P ○	K ◉	K ◉	N ◉	H ○	H ○	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

M	PM	V	ISO 2 6HX	C/2,5			DIN 371	DIN 376

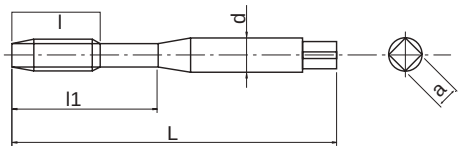
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48299155 NEW	6	1	80	8	30	6	4,9	3	1	DIN371
48299161 NEW	8	1.25	90	10	35	8	6,2	3	1	DIN371
48299169 NEW	10	1.5	100	12	39	10	8	3	1	DIN371
48021179	12	1,75	110	21	-	9	7	4	2	DIN376
48024191	14	2	110	24	-	11	9	4	2	DIN376
48024202	16	2	110	24	-	12	9	4	2	DIN376
48024214	18	2,5	125	30	-	14	11	4	2	DIN376
48024228	20	2,5	140	30	-	16	12	4	2	DIN376

VPO-DC-MT FORM E NEW SIZES

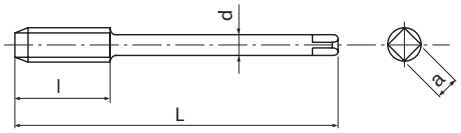
New sizes
available from January 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal straight flute cutting tap for blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min, with Centre through coolant, chamfer Form E

P ○	P ○	K ◉	K ◉	N ◉	H ○	H ○	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

M | PM | V | ISO 2 6HX | E/1,5 | ≥2D | DIN 371 | DIN 376

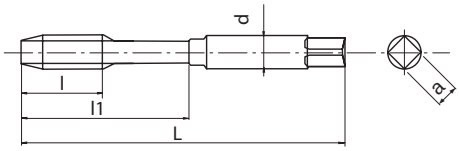
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48038155	6	1	80	-	30	6	4,9	3	1	DIN371
48038161	8	1,25	90	-	35	8	6,2	4	1	DIN371
48038169	10	1,5	100	-	39	10	8	4	1	DIN371
48038179	12	1,75	110	21	-	9	7	4	2	DIN376
48038191	14	2	110	24	-	11	9	4	2	DIN376
48038202	16	2	110	24	-	12	9	4	2	DIN376
48038214 NEW	18	2,5	125	30	-	14	11	4	2	DIN376
48038228 NEW	20	2,5	140	30	-	16	12	4	2	DIN376
48038238 NEW	22	2,5	140	30	-	18	14,5	5	2	DIN376
48038247 NEW	24	3	160	36	-	18	14,5	5	2	DIN376

A-CHT OIL Center NEW

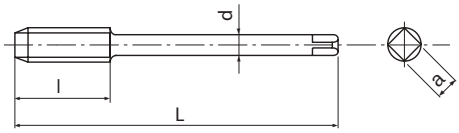
Available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant

K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

A | M | CARBIDE | FX | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

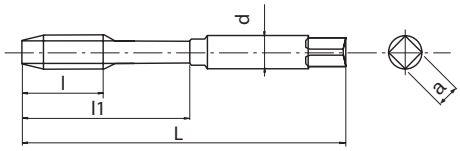
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48264149	5	0,8	70	10	25	6	4,9	3	1	DIN371
48264155	6	1	80	12	30	6	4,9	3	1	DIN371
48264161	8	1,25	90	15	35	8	6,2	4	1	DIN371
48264169	10	1,5	100	18	39	10	8	4	1	DIN371
48264179	12	1,75	110	21	-	9	7	4	2	DIN376

A-CHT OIL Side NEW

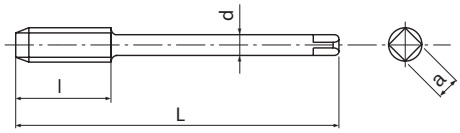
Available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Carbide straight flute cutting tap for through holes
- TiAlN coating
- For cast iron and cast aluminium
- Side through coolant

K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

A | M | CARBIDE | FX | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

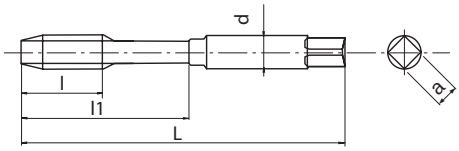
EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48265149	5	0,8	70	10	25	6	4,9	3	1	DIN371
48265155	6	1	80	12	30	6	4,9	3	1	DIN371
48265161	8	1,25	90	15	35	8	6,2	4	1	DIN371
48265169	10	1,5	100	18	39	10	8	4	1	DIN371
48265179	12	1,75	110	21	-	9	7	4	2	DIN376

A-CHT OIL FORM E NEW

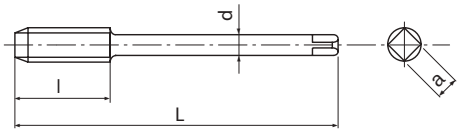
Available from February 2018

Threading | Cutting taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant, Form E chamfer

K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

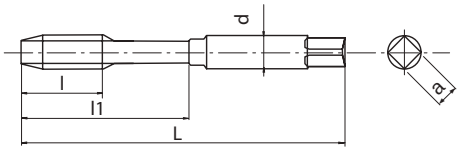
A | M | CARBIDE | FX | ISO 2 6HX | E/1,5 | ≥2D | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48263149	5	0,8	70	10	25	6	4,9	3	1	DIN371
48263155	6	1	80	12	30	6	4,9	3	1	DIN371
48263161	8	1,25	90	15	35	8	6,2	4	1	DIN371
48263169	10	1,5	100	18	39	10	8	4	1	DIN371
48263179	12	1,75	110	21	-	9	7	4	2	DIN376

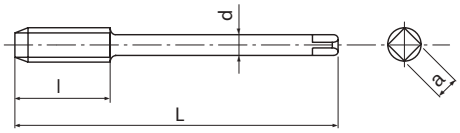
OIL-C-MT Center LIMITED SUPPLY

Threading | Cutting taps | Metric

Type 1



Type 2



- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant

K	K	N
GG	GGG	AC,ADC
50-100	30-60	20-60

m/min

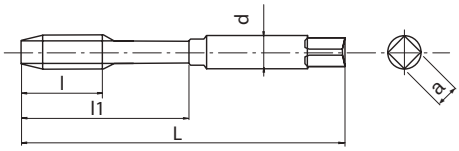
M | CARBIDE | FX | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48130155	6	1	80	12	30	6	4,9	3	1	DIN371
48130161	8	1,25	90	15	35	8	6,2	4	1	DIN371
48130169	10	1,5	100	18	39	10	8	4	1	DIN371
48130179	12	1,75	110	21	-	9	7	4	2	DIN376

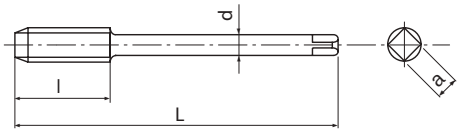
OIL-C-MT Side LIMITED SUPPLY

Threading | Cutting taps | Metric

Type 1



Type 2



- Carbide straight flute cutting tap for through holes
- TiAlN coating
- For cast iron and cast aluminium
- Side through coolant

K	K	N	
GG	GGG	AC,ADC	
50-100	30-60	20-60	m/min

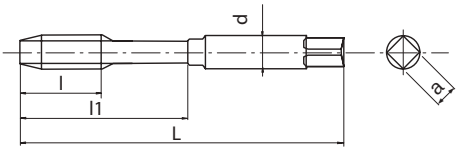
M | CARBIDE | FX | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48132161	8	1,25	90	15	35	8	6,2	4	1	DIN371
48132169	10	1,5	100	18	39	10	8	4	1	DIN371
48132179	12	1,75	110	21	-	9	7	4	2	DIN376

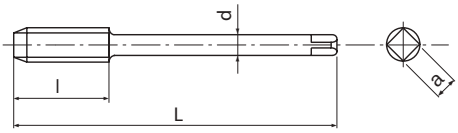
OIL-C-MT FORM E LIMITED SUPPLY

Threading | Cutting taps | Metric

Type 1



Type 2



- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant, Form E chamfer

K GG	K GGG	N AC,ADC	
50-100	30-60	20-60	m/min

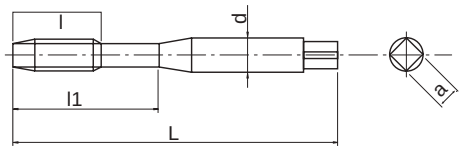
M | CARBIDE | FX | ISO 2 6HX | E/1,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
48126155	6	1	80	12	30	6	4,9	3	1	DIN371
48126161	8	1,25	90	15	35	8	6,2	4	1	DIN371
48126169	10	1,5	100	18	39	10	8	4	1	DIN371
48126179	12	1,75	110	21	-	9	7	4	2	DIN376

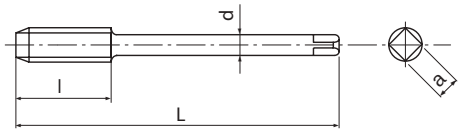
GG-MT

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE straight flute cutting tap for blind and through holes
- NiOx coating
- For cast iron

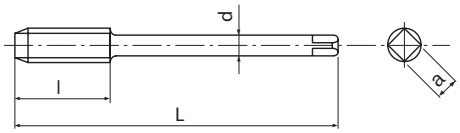
K GG	K GGG	
10-15	7-12	m/min

M | HSSE | NI-OX | ISO 2 6HX | C/2,5 | DIN 371 | DIN 376

EDP	M	P	L	l	l1	d	a	Z	Type	DIN
62214460	4	0,7	63	-	21	4,5	3,4	3	1	DIN371
62214960	5	0,8	70	-	25	6	4,9	3	1	DIN371
62215560	6	1	80	-	30	6	4,9	3	1	DIN371
62216160	8	1,25	90	-	35	8	6,2	4	1	DIN371
62216960	10	1,5	100	-	39	10	8	4	1	DIN371
62314460	4	0,7	63	13	-	2,8	2,1	3	2	DIN376
62314960	5	0,8	70	16	-	3,5	2,7	3	2	DIN376
62315560	6	1	80	19	-	4,5	3,4	3	2	DIN376
62316160	8	1,25	90	22	-	6	4,9	4	2	DIN376
62316960	10	1,5	100	24	-	7	5,5	4	2	DIN376
62317960	12	1,75	110	29	-	9	7	4	2	DIN376
62319160	14	2	110	30	-	11	9	4	2	DIN376
62320260	16	2	110	32	-	12	9	4	2	DIN376
62321460	18	2,5	125	34	-	14	11	4	2	DIN376
62322860	20	2,5	140	34	-	16	12	4	2	DIN376

OIL-TXL-MT

Threading | Cutting taps | Metric



- HSSE straight flute cutting tap for blind and through holes
- Steam oxide treatment
- For cast iron and general steels
- For vertical and horizontal applications, side through coolant, up to M56

P ○	P ○	P ◉	P ○	K ◉	K ◉	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GG	GGG	25-35 HRC	
8-13	7-12	7-12	6-9	10-15	7-12	3-5	m/min

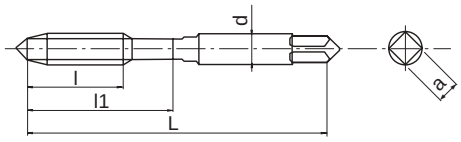
M | HSSE | 0X | ISO 2 6HX | C/2,5

EDP	M	P	L	l	l1	d	a	Z
48052228	20	2,5	140	20	69	16	12	5
48052247	24	3	160	24	81	18	14,5	5
48052262	27	3	160	24	90	20	16	5
48052271	30	3,5	250	28	161	22	18	6
48052281	33	3,5	250	28	176	25	20	6
48052294	36	4	250	32	174	28	22	6
48052304	39	4	300	32	188	32	24	6
48052314	42	4,5	300	36	203	32	24	6
48052325	48	5	300	40	183	36	29	6
48052337	52	5	300	40	197	40	32	6
48052347	56	5,5	300	44	213	45	35	6

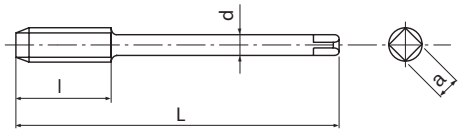
EX-MCT

Threading | Cutting taps | Metric

Type 1



Type 2



- HSSE low left-hand helix for blind and through holes
- Steam oxide treatment
- For cast iron, cast aluminium and general steels
- Long shank for long reach tapping

P ◉	P ◉	P ○	P ○	K ○	K ○	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GG	GGG	AC,ADC	
8-13	7-12	7-12	6-9	10-15	7-12	10-15	m/min

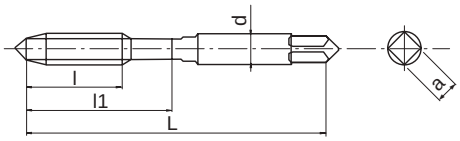
M	HSSE	OX	8°	ISO 2 6H	C/3		

EDP	M	P	L	l	l1	d	a	Z	Type
84015560	6	1	120	-	28	6	4,9	2	1
84016160	8	1,25	120	-	35	8	6,2	3	1
84016960	10	1,5	150	24	-	7	5,5	3	2
84017960	12	1,75	150	29	-	9	7	3	2
84019160	14	2	150	30	-	11	9	3	2
84020260	16	2	150	32	-	12	9	3	2
84021460	18	2,5	200	34	-	14	11	4	2
84022860	20	2,5	200	34	-	16	12	4	2

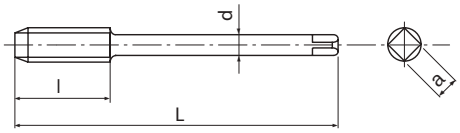
V-XPM-HT

Threading | Cutting taps | Metric

Type 1



Type 2



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For hardened steels up to 52 HRC
- Highly wear resistant XPM tool substrate

H 45-52 HRC

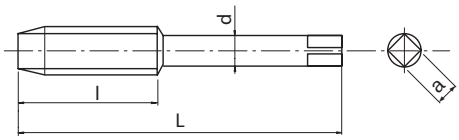
1-3 m/min

M | XPM | V | ISO 2 6HX | C/2,5

EDP	M	P	L	l1	d	a	Z	Type
89913868	3	0,5	46	19	3,5	2,7	4	1
89914468	4	0,7	52	21	4,5	3,4	4	1
89914968	5	0,8	60	24	6	4,9	4	1
89915568	6	1	62	29	6	4,9	5	1
89916168	8	1,25	70	22	6	4,9	5	2
89916968	10	1,5	75	24	7	5,5	5	2
89917968	12	1,75	82	29	9	7	5	2

WH55-OT

Threading | Cutting taps | Metric



- Carbide straight flute cutting tap for blind and through holes
- Multilayer TiCN coating
- For hardened steels up to 55 HRC

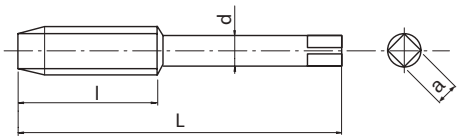
H ◉ 45-52 HRC	H ○ 52-62 HRC	
2-4	1-3	m/min

M | CARBIDE | V | C/2,5

EDP	M	P	L	l	d	a	Z
48100138	3	0,5	46	19	3,5	2,7	4
48100144	4	0,7	52	21	4,5	3,4	4
48100149	5	0,8	60	24	6	4,9	4
48100155	6	1	62	29	6	4,9	4
48100161	8	1,25	70	22	6	4,9	5
48100169	10	1,5	75	24	7	5,5	5
48100179	12	1,75	82	29	9	7	5

WH55-OT FORM D

Threading | Cutting taps | Metric



- Carbide straight flute cutting tap for through holes
- Multilayer TiCN coating
- For hardened steels up to 55 HRC
- Chamfer Form D

H ◉	H ○	
45-52 HRC	52-62 HRC	
2-4	1-3	m/min

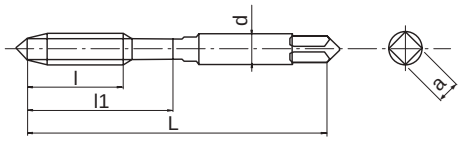
M | CARBIDE | V | D/5

EDP	M	P	L	l	d	a	Z
48111138	3	0,5	46	19	3,5	2,7	4
48111144	4	0,7	52	21	4,5	3,4	4
48111149	5	0,8	60	24	6	4,9	4
48111155	6	1	62	29	6	4,9	4
48111161	8	1,25	70	22	6	4,9	5
48111169	10	1,5	75	24	7	5,5	5
48111179	12	1,75	82	29	9	7	5

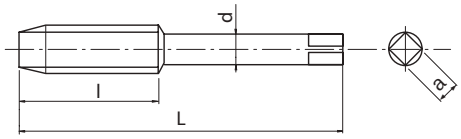
VX-OT

Threading | Cutting taps | Metric

Type 1



Type 2



- Carbide straight flute cutting tap for blind and through holes
- Multilayer TiCN coating
- For hardened steels up to 62 HRC

H
52-62 HRC

1-3 m/min

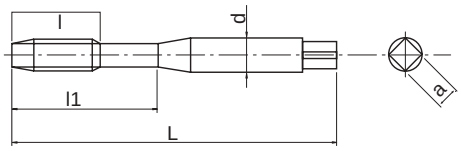
M | CARBIDE | V | ISO 2 6HX | C/3

EDP	M	P	L	l1	d	a	Z	Type
93413868	3	0,5	46	19	3,5	2,7	4	1
93414468	4	0,7	52	21	4,5	3,4	4	1
93414968	5	0,8	60	24	6	4,9	4	1
93415568	6	1	62	29	6	4,9	5	1
93416168	8	1,25	70	22	6	4,9	5	2
93416968	10	1,5	75	24	7	5,5	5	2
93417968	12	1,75	82	29	9	7	5	2

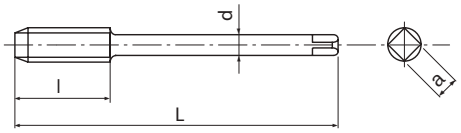
A-XPF

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- Powder metal forming tap for through & blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Powder metal for long tool life

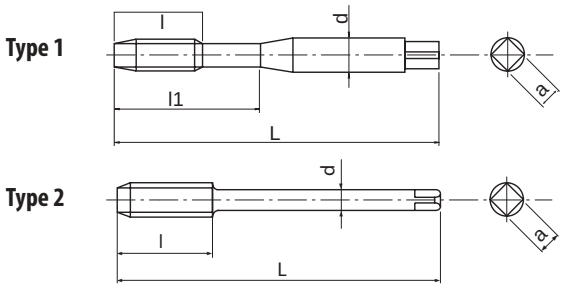
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A	M	PM	V	ISO 2 6HX	C/2,5			DIN 2174	DIN 2174

EDP	M	P	L	l	l1	d	a	Z	ø	Type	DIN
48133138	3	0,5	56	-	18	3,5	2,7	4	2,77~2,82	1	DIN2174
48133144	4	0,7	63	-	21	4,5	3,4	4	3,66~3,72	1	DIN2174
48133149	5	0,8	70	-	25	6	4,9	5	4,62~4,68	1	DIN2174
48133155	6	1	80	-	30	6	4,9	5	5,51~5,59	1	DIN2174
48133161	8	1,25	90	-	35	8	6,2	5	7,37~7,45	1	DIN2174
48133169	10	1,5	100	-	39	10	8	8	9,24~9,33	1	DIN2174
48133179	12	1,75	110	17	-	9	7	8	11,10~11,20	2	DIN2174
48133191	14	2	110	20	-	11	9	8	12,96~13,08	2	DIN2174
48133202	16	2	110	20	-	12	9	8	14,96~15,08	2	DIN2174
48133214	18	2,5	125	20	-	14	11	8	16,66~16,81	2	DIN2174
48133228	20	2,5	140	20	-	16	12	8	18,66~18,81	2	DIN2174
48133238	22	2,5	140	20	-	18	14,5	8	20,66~20,81	2	DIN2174
48133247	24	3	160	24	-	18	14,5	8	22,39~22,56	2	DIN2174
48133262	27	3	160	18	-	20	16	8	25,39~25,56	2	DIN2174
48133271	30	3,5	180	21	-	22	18	8	28,09~28,68	2	DIN2174

A-OIL-XPF

Threading | Forming taps | Metric



- First choice in quality and performance
- Powder metal forming tap for through & blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A	M	PM	V	ISO 2 6HX	C/2,5				DIN 2174	DIN 2174

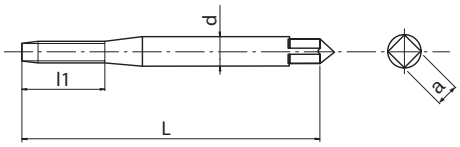
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48225149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48225155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48225161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
48225169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174
48225179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	2	DIN2174
48225191	14	2	110	20	-	11	9	8	12,96 ~ 13,08	2	DIN2174
48225202	16	2	110	20	-	12	9	8	14,96 ~ 15,08	2	DIN2174
48225214	18	2,5	125	20	-	14	11	8	16,66 ~ 16,81	2	DIN2174
48225228	20	2,5	140	20	-	16	12	8	18,66 ~ 18,81	2	DIN2174
48225238	22	2,5	140	20	-	18	14,5	8	20,66 ~ 20,81	2	DIN2174
48225247	24	3	160	24	-	18	14,5	8	22,39 ~ 22,56	2	DIN2174
48225262	27	3	160	18	-	20	16	8	25,39 ~ 25,56	2	DIN2174
48225271	30	3,5	180	21	-	22	18	8	28,09 ~ 28,28	2	DIN2174
48225281	33	3,5	180	21	-	25	20	8	31,09 ~ 31,28	2	DIN2174
48225294	36	4	200	32	-	28	22	8	33,80 ~ 34,01	2	DIN2174
48225304	39	4	200	32	-	32	24	9	36,80 ~ 37,01	2	DIN2174
48225314	42	4,5	200	36	-	32	24	9	39,52 ~ 39,73	2	DIN2174
48225319	45	4,5	220	36	-	36	29	9	42,52 ~ 42,73	2	DIN2174

S-XPF NEW SIZES

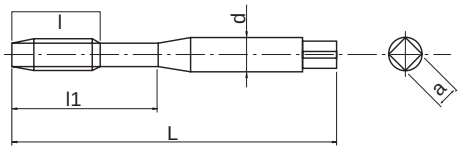
New sizes
available from January 2018

Threading | Forming taps | Metric

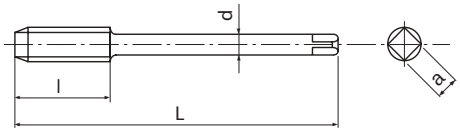
Type 1



Type 2



Type 3



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

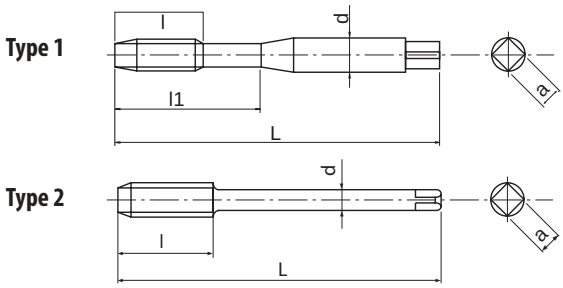
A | M | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174 | DIN 2174

* Tolerance 4HX

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
*48030111	1	0,25	40	-	5,5	2,5	2,1	4	0,89 ~ 0,90	1	DIN2174
*48030112	1,1	0,25	40	-	5,5	2,5	2,1	4	0,99 ~ 1,00	1	DIN2174
*48030113	1,2	0,25	40	-	5,5	2,5	2,1	4	1,09 ~ 1,10	1	DIN2174
*48030115	1,4	0,3	40	-	7	2,5	2,1	4	1,26 ~ 1,28	1	DIN2174
48030118	1,6	0,35	40	-	8	2,5	2,1	4	1,45 ~ 1,48	1	DIN2174
48030119	1,7	0,35	40	-	8	2,5	2,1	4	1,55 ~ 1,58	1	DIN2174
48030120	1,8	0,35	40	-	8	2,5	2,1	4	1,65 ~ 1,68	1	DIN2174
48030125	2	0,4	45	-	8	2,8	2,1	4	1,82 ~ 1,85	1	DIN2174
48030127	2,2	0,45	45	-	9	2,8	2,1	4	2,00 ~ 2,04	1	DIN2174
48030128	2,3	0,4	45	-	9	2,8	2,1	4	2,12 ~ 2,15	1	DIN2174
48030133	2,5	0,45	50	-	9	2,8	2,1	4	2,30 ~ 2,34	1	DIN2174
48030136	2,6	0,45	50	-	9	2,8	2,1	4	2,40 ~ 2,44	1	DIN2174
48030138	3	0,5	56	-	18	3,5	2,7	4	2,77 ~ 2,82	2	DIN2174
48030142	3,5	0,6	56	-	20	4	3	4	3,23 ~ 3,28	2	DIN2174
48030144	4	0,7	63	-	21	4,5	3,4	4	3,67 ~ 3,72	2	DIN2174
48030147 NEW	4,5	0,75	70	-	25	6	4,9	5	4,14 ~ 4,20	2	DIN2174
48030149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	2	DIN2174
48030152 NEW	5,5	0,9	80	-	30	6	4,9	5	5,06 ~ 5,13	2	DIN2174
48030155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	2	DIN2174
48030158	7	1	80	-	30	7	5,5	5	6,51 ~ 6,59	2	DIN2174
48030161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	2	DIN2174
48030165 NEW	9	1,25	90	12	35	9	7	8	8,37 ~ 8,45	2	DIN2174
48030169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	2	DIN2174
48030175 NEW	11	1,5	100	15	-	8	6,2	8	10,24 ~ 10,33	2	DIN2174
48030179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	3	DIN2174
48030191	14	2	110	20	-	11	9	8	12,96 ~ 13,08	3	DIN2174
48030202	16	2	110	20	-	12	9	8	14,96 ~ 15,08	3	DIN2174
48069214	18	2,5	125	20	-	14	11	8	16,66 ~ 16,81	3	DIN2174
48069228	20	2,5	140	20	-	16	12	8	18,66 ~ 18,81	3	DIN2174
48069238	22	2,5	140	20	-	18	14,5	8	20,66 ~ 20,81	3	DIN2174
48069247	24	3	160	24	-	18	14,5	8	22,39 ~ 22,56	3	DIN2174
48069262	27	3	160	18	-	20	16	8	25,39 ~ 25,56	3	DIN2174
48069271	30	3,5	180	21	-	22	18	8	28,09 ~ 28,28	3	DIN2174

S-OIL-XPF

Threading | Forming taps | Metric



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

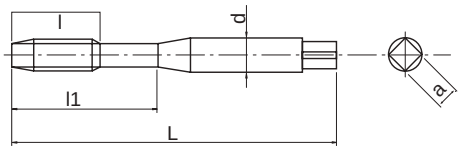
A | M | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174 | DIN 2174

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48042149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48042155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48042161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
48042169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174
48042179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	2	DIN2174
48042191	14	2	110	20	-	11	9	8	12,96 ~ 13,08	2	DIN2174
48042202	16	2	110	20	-	12	9	8	14,96 ~ 15,08	2	DIN2174
48071214	18	2,5	125	20	-	14	11	8	16,66 ~ 16,81	2	DIN2174
48071228	20	2,5	140	20	-	16	12	8	18,66 ~ 18,81	2	DIN2174
48071238	22	2,5	140	20	-	18	14,5	8	20,66 ~ 20,81	2	DIN2174
48071247	24	3	160	24	-	18	14,5	8	22,39 ~ 22,56	2	DIN2174
48071262	27	3	160	18	-	20	16	8	25,39 ~ 25,56	2	DIN2174
48071271	30	3,5	180	21	-	22	18	8	28,09 ~ 28,28	2	DIN2174
48071281	33	3,5	180	21	-	25	20	8	31,09 ~ 31,28	2	DIN2174
48071294	36	4	200	24	-	28	22	8	33,80 ~ 34,01	2	DIN2174
48071304	39	4	200	24	-	32	24	9	36,80 ~ 37,01	2	DIN2174
48071314	42	4,5	200	27	-	32	24	9	39,52 ~ 39,73	2	DIN2174
48071319	45	4,5	220	27	-	36	29	9	42,52 ~ 42,73	2	DIN2174

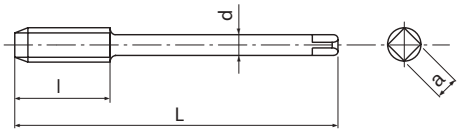
S-XPF 6GX

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

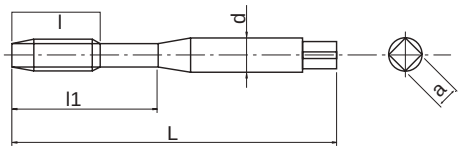
A | M | HSS-Co | V | ISO 3 6GX | C/2,5 | DIN 2174 | DIN 2174

EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN
48086125	2	0,4	+0,019	45	-	8	2,8	2,1	4	1,85 ~ 1,88	1	DIN2174
48086133	2,5	0,45	+0,020	50	-	9	2,8	2,1	4	2,32 ~ 2,35	1	DIN2174
48086138	3	0,5	+0,020	56	-	18	3,5	2,7	4	2,79 ~ 2,83	1	DIN2174
48086142	3,5	0,6	+0,021	56	-	20	4	3	4	3,24 ~ 3,29	1	DIN2174
48086144	4	0,7	+0,022	63	-	21	4,5	3,4	4	3,69 ~ 3,75	1	DIN2174
48086149	5	0,8	+0,024	70	-	25	6	4,9	5	4,64 ~ 4,71	1	DIN2174
48086155	6	1	+0,026	80	-	30	6	4,9	5	5,55 ~ 5,63	1	DIN2174
48086161	8	1,25	+0,028	90	-	35	8	6,2	5	7,40 ~ 7,47	1	DIN2174
48086169	10	1,5	+0,032	100	-	39	10	8	8	9,26 ~ 9,35	1	DIN2174
48086179	12	1,75	+0,034	110	17	-	9	7	8	11,14 ~ 11,24	2	DIN2174
48086191	14	2	+0,038	110	20	-	11	9	8	13,00 ~ 13,12	2	DIN2174
48086202	16	2	+0,038	110	20	-	12	9	8	15,00 ~ 15,12	2	DIN2174

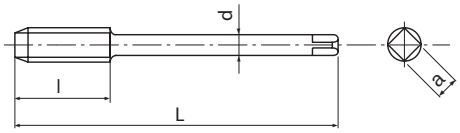
S-OIL-XPF 6GX NEW

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance, side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

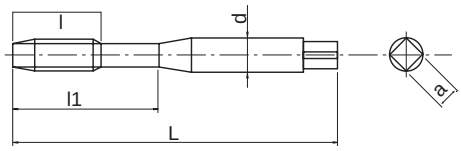
A	M	HSS-Co	V	ISO 3 6GX	C/2,5				DIN 2174	DIN 2174

EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN
48293149	5	0,8	+0,024	70	-	25	6	4,9	5	4,64 ~ 4,71	1	DIN2174
48293155	6	1	+0,026	80	-	30	6	4,9	5	5,55 ~ 5,63	1	DIN2174
48293161	8	1,25	+0,028	90	-	35	8	6,2	5	7,40 ~ 7,47	1	DIN2174
48293169	10	1,5	+0,032	100	-	39	10	8	8	9,26 ~ 9,35	1	DIN2174
48293179	12	1,75	+0,034	110	18	-	9	7	8	11,14 ~ 11,24	2	DIN2174
48293191	14	2	+0,038	110	20	-	11	9	8	13,00 ~ 13,12	2	DIN2174
48293202	16	2	+0,038	110	20	-	12	9	8	15,00 ~ 15,12	2	DIN2174

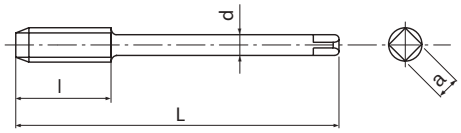
S-XPF 7GX

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 7G internal thread tolerance

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A	M	HSS-Co	V	7GX	C/2,5			DIN 2174	DIN 2174

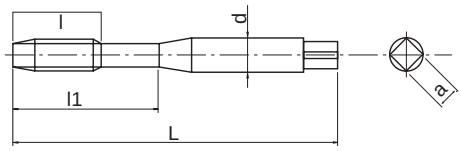
EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN
48087125	2	0,4	+0,038	45	-	8	2,8	2,1	4	1,86 ~ 1,90	1	DIN2174
48087133	2,5	0,45	+0,040	50	-	9	2,8	2,1	4	2,34 ~ 2,38	1	DIN2174
48087138	3	0,5	+0,040	56	-	18	3,5	2,7	4	2,81 ~ 2,85	1	DIN2174
48087142	3,5	0,6	+0,044	56	-	20	4	3	4	3,27 ~ 3,31	1	DIN2174
48087144	4	0,7	+0,044	63	-	21	4,5	3,4	4	3,71 ~ 3,77	1	DIN2174
48087149	5	0,8	+0,048	70	-	25	6	4,9	5	4,67 ~ 4,73	1	DIN2174
48087155	6	1	+0,052	80	-	30	6	4,9	5	5,56 ~ 5,64	1	DIN2174
48087161	8	1,25	+0,056	90	-	35	8	6,2	5	7,42 ~ 7,50	1	DIN2174
48087169	10	1,5	+0,064	100	-	39	10	8	8	9,30 ~ 9,39	1	DIN2174
48087179	12	1,75	+0,068	110	17	-	9	7	8	11,17 ~ 11,28	2	DIN2174
48087191	14	2	+0,076	110	20	-	11	9	8	13,04 ~ 13,16	2	DIN2174
48087202	16	2	+0,076	110	20	-	12	9	8	15,04 ~ 15,16	2	DIN2174

S-XPF+0.1 NEW

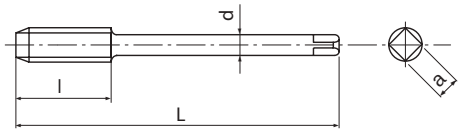
Available from December 2017

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Oversized tap for 6H +0,1mm thread tolerance

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

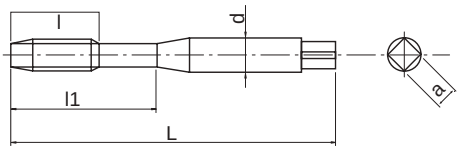
A	M	HSS-Co	V	6HX +0.1	C/2,5			DIN 2174	DIN 2174

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48298138	3	0,5	56	-	18	3,5	2,7	4	2.87~2.92	1	DIN2174
48298144	4	0,7	63	-	21	4,5	3,4	4	3.77 ~ 3.82	1	DIN2174
48298149	5	0,8	70	-	25	6	4,9	5	4.72~4.78	1	DIN2174
48298155	6	1	80	-	30	6	4,9	5	5.61 ~ 5.69	1	DIN2174
48298161	8	1,25	90	-	35	8	6,2	5	7.47 ~ 7.55	1	DIN2174
48298169	10	1,5	100	-	39	10	8	8	9.34 ~ 9.43	1	DIN2174
48298179	12	1,75	110	18	-	9	7	8	11.20 ~ 11.30	2	DIN2174
48298202	16	2	110	20	-	12	9	8	15.06 ~ 15.18	2	DIN2174

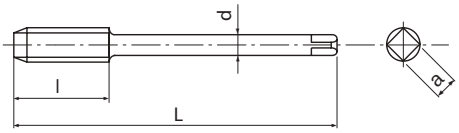
S-XPF FORM D

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form D

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

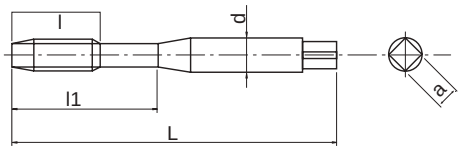
A	M	HSS-Co	V	ISO 2 6HX	D/4		DIN 2174	DIN 2174

EDP	M	P	L	l	l1	d	a	Z	ø	Type	DIN
48088138	3	0,5	56	-	18	3,5	2,7	4	2,77~2,82	1	DIN2174
48088144	4	0,7	63	-	21	4,5	3,4	4	3,67~3,72	1	DIN2174
48088149	5	0,8	70	-	25	6	4,9	5	4,62~4,68	1	DIN2174
48088155	6	1	80	-	30	6	4,9	5	5,51~5,59	1	DIN2174
48088161	8	1,25	90	-	35	8	6,2	5	7,37~7,45	1	DIN2174
48088169	10	1,5	100	-	39	10	8	8	9,24~9,33	1	DIN2174
48088179	12	1,75	110	17	-	9	7	8	11,10~11,20	2	DIN2174
48088191	14	2	110	20	-	11	9	8	12,96~13,08	2	DIN2174
48088202	16	2	110	20	-	12	9	8	14,96~15,08	2	DIN2174

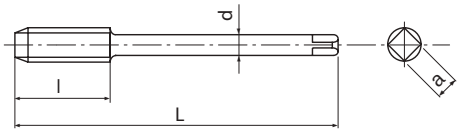
S-XPF FORM E

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form E

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A	M	HSS-Co	V	ISO 2 6HX	E/1,5			DIN 2174	DIN 2174

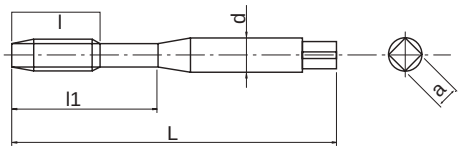
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48089125	2	0,4	45	-	8	2,8	2,1	4	1,82 ~ 1,85	1	DIN2174
48089133	2,5	0,45	50	-	9	2,8	2,1	4	2,30 ~ 2,34	1	DIN2174
48089138	3	0,5	56	-	18	3,5	2,7	4	2,77 ~ 2,82	1	DIN2174
48089142	3,5	0,6	56	-	20	4	3	4	3,23 ~ 3,28	1	DIN2174
48089144	4	0,7	63	-	21	4,5	3,4	4	3,66 ~ 3,72	1	DIN2174
48089149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48089155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48089161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
48089169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174
48089179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	2	DIN2174
48089191	14	2	110	20	-	11	9	8	12,96 ~ 13,08	2	DIN2174
48089202	16	2	110	20	-	12	9	8	14,96 ~ 15,08	2	DIN2174

S-OIL-XPF FORM E NEW

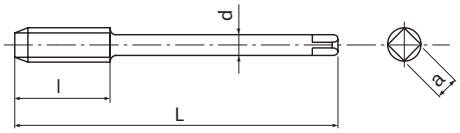
Available from January 2018

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant, chamfer Form E

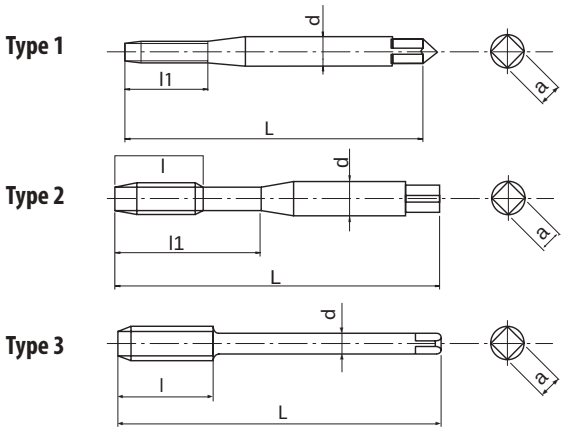
P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A	M	HSS-Co	V	ISO 2 6HX	E/1,5				DIN 2174	DIN 2174

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48294149	5	0,8	70	-	25	6	4,9	5	4.62 ~ 4.68	1	DIN2174
48294155	6	1	80	-	30	6	4,9	5	5.51 ~ 5.59	1	DIN2174
48294161	8	1,25	90	-	35	8	6,2	5	7.37 ~ 7.45	1	DIN2174
48294169	10	1,5	100	-	39	10	8	8	9.24 ~ 9.33	1	DIN2174
48294179	12	1,75	110	18	-	9	7	8	11.10 ~ 11.20	2	DIN2174
48294191	14	2	110	20	-	11	9	8	12.96 ~ 13.08	2	DIN2174
48294202	16	2	110	20	-	12	9	8	14.96 ~ 15.08	2	DIN2174

S-LT-XPF

Threading | Forming taps | Metric



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- With long shank for deep threading

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | M | HSS-Co | V | ISO 2 6HX | C/2,5

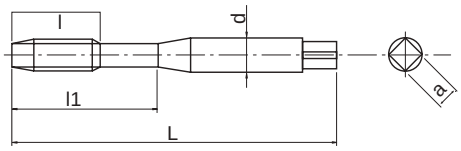
EDP	M	P	L	l1	l	d	a	Z	Ø	Type
48115125	2	0,4	80	8	-	2,8	2,1	0	1,82 ~ 1,85	1
48115133	2,5	0,45	100	9	-	2,8	2,1	0	2,30 ~ 2,34	1
48115138	3	0,5	100	18	-	3,5	2,7	4	2,77 ~ 2,82	2
48115144	4	0,7	125	21	-	4,5	3,4	4	3,67 ~ 3,72	2
48115149	5	0,8	140	25	-	6	4,9	5	4,62 ~ 4,68	2
48115155	6	1	160	30	-	6	4,9	5	5,51 ~ 5,59	2
48115161	8	1,25	180	35	-	8	6,2	5	7,37 ~ 7,45	2
48115169	10	1,5	200	39	-	10	8	8	9,24 ~ 9,33	2
48115179	12	1,75	200	-	17	9	7	8	11,10 ~ 11,20	3

S-OIL-LT-XPF NEW

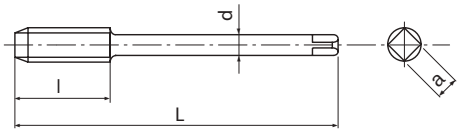
Available from January 2018

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- With long shank for deep threading, side through coolant

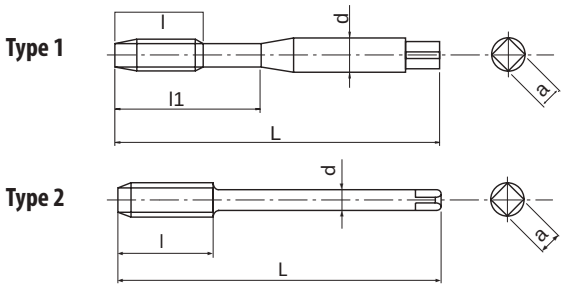
P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | M | HSS-Co | V | ISO 2 6HX | C/2,5

EDP	M	P	L	l	l1	d	a	Z	Ø	Type
48295155	6	1	160	-	30	6	4,9	5	5.51 ~ 5.59	1
48295161	8	1,25	180	-	35	8	6,2	5	7.37 ~ 7.45	1
48295169	10	1,5	200	-	39	10	8	8	9.24 ~ 9.33	1
48295179	12	1,75	200	18	-	9	7	8	11.10 ~ 11.20	2

S-XPF-LH

Threading | Forming taps | Metric



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For left-hand threads

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

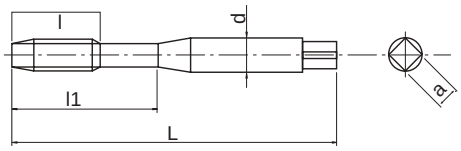
A | M | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174 | DIN 2174 | LH

EDP	M	P	L	l	l1	d	a	Z	ø	Type	DIN
48219138	3	0,5	56	-	18	3,5	2,7	4	2,77 ~ 2,82	1	DIN2174
48219144	4	0,7	63	-	21	4,5	3,4	4	3,67 ~ 3,72	1	DIN2174
48219149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48219155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48219161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
48219169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174
48219179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	2	DIN2174
48219191	14	2	110	20	-	11	9	8	12,96 ~ 13,08	2	DIN2174
48219202	16	2	110	20	-	12	9	8	14,96 ~ 15,08	2	DIN2174
48219214	18	2,5	125	20	-	14	11	8	16,66 ~ 16,81	2	DIN2174
48219228	20	2,5	140	20	-	16	12	8	18,66 ~ 18,81	2	DIN2174
48219238	22	2,5	140	20	-	18	14,5	8	20,66 ~ 20,81	2	DIN2174
48219247	24	3	160	24	-	18	14,5	8	22,39 ~ 22,56	2	DIN2174

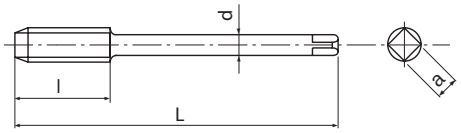
S-XPF-HB Weldon

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- With Weldon shank

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | M | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174 | DIN 2174 | DIN 1835 | HB

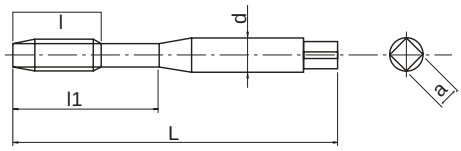
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48222138	3	0,5	56	-	18	6	4,9	4	2,77 ~ 2,82	1	DIN2174/1835
48222144	4	0,7	63	-	21	6	4,9	4	3,67 ~ 3,72	1	DIN2174/1835
48222149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174/1835
48222155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174/1835
48222161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174/1835
48222169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174/1835
48222179	12	1,75	110	17	-	12	9	8	11,10, ~ 11,20	2	DIN2174/1835
48222191	14	2	110	20	-	14	11	8	12,96 ~ 13,08	2	DIN2174/1835
48222202	16	2	110	20	-	16	12	8	14,96 ~ 15,08	2	DIN2174/1835

S-XPF-GL NEW

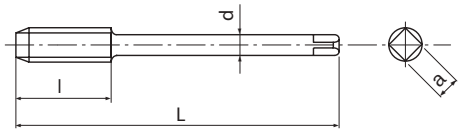
Available from December 2017

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Without oil grooves for higher rigidity

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	
10-20	10-20	10-20	10-20	8-15	10-15	10-15	m/min

A | M | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174 | DIN 2174

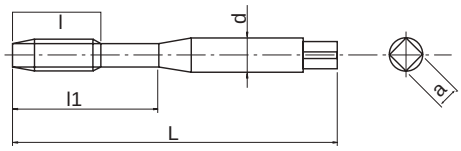
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48296138	3	0,5	56	4	18	3,5	2,7	0	2.77 ~ 2.82	1	DIN2174
48296144	4	0,7	63	5,6	21	4,5	3,4	0	3.67 ~ 3.72	1	DIN2174
48296149	5	0,8	70	6,4	25	6	4,9	0	4.62 ~ 4.68	1	DIN2174
48296155	6	1	80	8	30	6	4,9	0	5.51 ~ 5.59	1	DIN2174
48296161	8	1,25	90	10	35	8	6,2	0	7.37 ~ 7.45	1	DIN2174
48296169	10	1,5	100	12	39	10	8	0	9.24 ~ 9.33	1	DIN2174
48296179	12	1,75	110	17	-	9	7	0	11.10 ~ 11.20	2	DIN2174

S-XPF-GL 6GX NEW

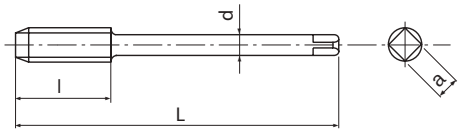
Available from January 2018

Threading | Forming taps | Metric

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Without oil grooves for higher rigidity, for 6G internal thread tolerance

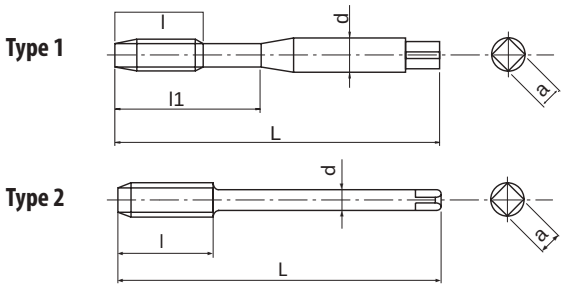
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	
10-20	10-20	10-20	10-20	8-15	10-15	10-15	m/min

A | M | HSS-Co | V | ISO 3 6GX | C/2,5 | DIN 2174 | DIN 2174

EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN
48297138	3	0,5	+0,020	56	-	18	3,5	2,7	0	2.79 ~ 2.83	1	DIN2174
48297144	4	0,7	+0,022	63	-	21	4,5	3,4	0	3.69 ~ 3.75	1	DIN2174
48297149	5	0,8	+0,024	70	-	25	6	4,9	0	4.64 ~ 4.71	1	DIN2174
48297155	6	1	+0,026	80	-	30	6	4,9	0	5.55 ~ 5.63	1	DIN2174
48297161	8	1,25	+0,028	90	-	35	8	6,2	0	7.40 ~ 7.47	1	DIN2174
48297169	10	1,5	+0,032	100	-	39	10	8	0	9.26 ~ 9.35	1	DIN2174
48297179	12	1,75	+0,034	110	18	-	9	7	0	11.14 ~ 11.24	2	DIN2174

C-OIL-XPF

Threading | Forming taps | Metric



- First choice in quality and performance
- Carbide forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- With side through coolant

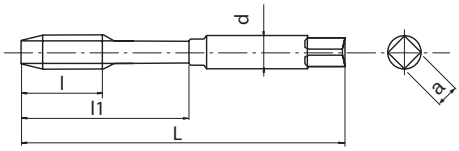
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | M | CARBIDE | V | ISO 2 6HX | C/2,5 | DIN 2174 | DIN 2174

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48226149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48226155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48226161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
48226169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174
48226179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	2	DIN2174
48226191	14	2	110	20	-	11	9	8	12,96 ~ 13,08	2	DIN2174
48226202	16	2	110	20	-	12	9	8	14,96 ~ 15,08	2	DIN2174

R-XPF

Threading | Forming taps | Metric



- HSS forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

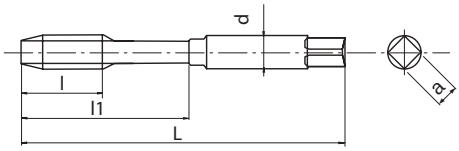
P ◉	P ◉	P ○	M ○	N ○	N ○	
0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
15-40	15-30	15-30	5-15	20-40	20-40	m/min

M | HSS | V | 15° | ISO 2 6HX | C/2,5 | | | DIN 2174

EDP	M	P	L	l	l1	d	a	Ø	DIN
48116138	3	0,5	56	11	18	3,5	2,7	2,77 ~ 2,82	DIN2174
48116144	4	0,7	63	13	21	4,5	3,4	3,67 ~ 3,72	DIN2174
48116149	5	0,8	70	16	25	6	4,9	4,62 ~ 4,68	DIN2174
48116155	6	1	80	19	30	6	4,9	5,51 ~ 5,59	DIN2174

R-XPF FORM D

Threading | Forming taps | Metric



- HSS forming tap for through holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

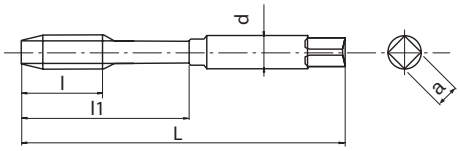
P ◉	P ◉	P ○	M ○	N ○	N ○	
0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
15-40	15-30	15-30	5-15	20-40	20-40	m/min

M | HSS | V | 15° | ISO 2 6HX | D/4 | | DIN 2174

EDP	M	P	L	l	l1	d	a	Ø	DIN
48117138	3	0,5	56	11	18	3,5	2,7	2,77 ~ 2,82	DIN2174
48117144	4	0,7	63	13	21	4,5	3,4	3,67 ~ 3,72	DIN2174
48117149	5	0,8	70	16	25	6	4,9	4,62 ~ 4,68	DIN2174
48117155	6	1	80	19	30	6	4,9	5,51 ~ 5,59	DIN2174

R-XPF 6GX

Threading | Forming taps | Metric



- HSS forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance

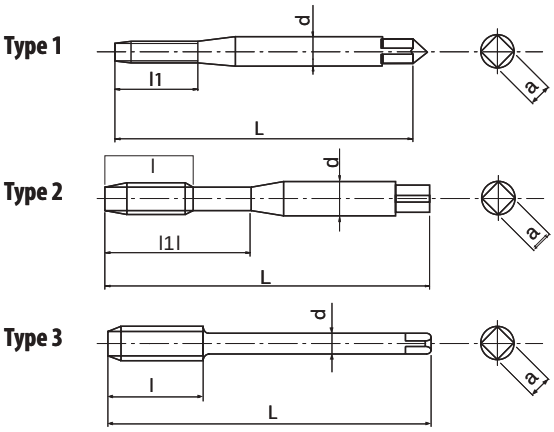
P ◉	P ◉	P ○	M ○	N ○	N ○	H ○	
0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-30	15-30	5-15	20-40	20-40	5-20	m/min

M | HSS | V | 15° | ISO 3 6GX | C/2,5 | DIN 2174

EDP	M	P	Oversize	L	l	l1	d	a	Ø	DIN
48118138	3	0,5	+0,020	56	11	18	3,5	2,7	2,79 ~ 2,83	DIN2174
48118144	4	0,7	+0,022	63	13	21	4,5	3,4	3,69 ~ 3,75	DIN2174
48118149	5	0,8	+0,024	70	16	25	6	4,9	4,64 ~ 4,71	DIN2174
48118155	6	1	+0,026	80	19	30	6	4,9	5,55 ~ 5,63	DIN2174

V-NRT

Threading | Forming taps | Metric



- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

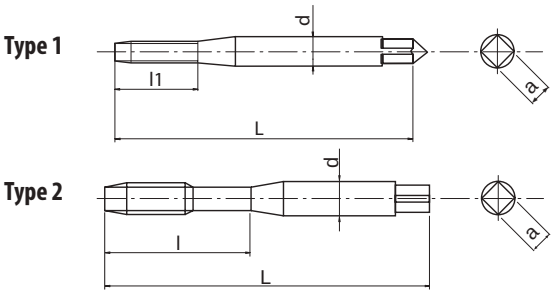
P ◉	P ◉	P ○	P ○	M ◉	N ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
10-15	10-15	10-15	8-12	5-10	10-20	10-20	m/min

M	HSS-Co	V	ISO 2 6HX	C/2,5			DIN 2174	DIN 2174

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
48003111*	1	0,25	40	-	5,5	2,5	2,1	0	0,89 ~ 0,90	1	DIN2174
48003113	1,2	0,25	40	-	5,5	2,5	2,1	0	1,09 ~ 1,10	1	DIN2174
66711568	1,4	0,3	40	-	7	2,5	2,1	0	1,26 ~ 1,28	1	DIN2174
66711868	1,6	0,35	40	-	8	2,5	2,1	0	1,45 ~ 1,48	1	DIN2174
66712568	2	0,4	45	-	8	2,8	2,1	0	1,82 ~ 1,85	1	DIN2174
66712868	2,2	0,45	45	-	9	2,8	2,1	0	2,00 ~ 2,04	1	DIN2174
66713368	2,5	0,45	50	-	9	2,8	2,1	0	2,30 ~ 2,34	1	DIN2174
66713868	3	0,5	56	18	-	3,5	2,7	2	2,77 ~ 2,82	2	DIN2174
66714068	3,5	0,6	56	20	-	4	3,0	2	3,23 ~ 3,28	2	DIN2174
66714468	4	0,7	63	21	-	4,5	3,4	2	3,67 ~ 3,72	2	DIN2174
66714968	5	0,8	70	25	-	6	4,9	2	4,62 ~ 4,68	2	DIN2174
66715568	6	1	80	30	-	6	4,9	2	5,51 ~ 5,59	2	DIN2174
66716168	8	1,25	90	35	-	8	6,2	3	7,37 ~ 7,45	2	DIN2174
66716968	10	1,5	100	39	-	10	8	4	9,24 ~ 9,33	2	DIN2174
69117968	12	1,75	110	28	-	9	7	4	11,10 ~ 11,20	3	DIN2174

V-NRT 6GX

Threading | Forming taps | Metric



- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance

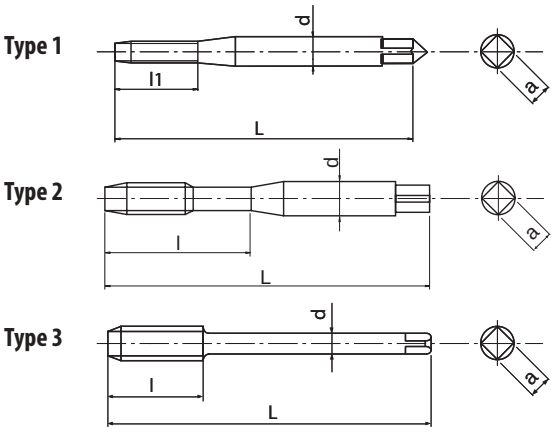
P	P	P	P	M	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
10-15	10-15	10-15	8-12	5-10	10-20	10-20	m/min

M | HSS-Co | V | ISO 3 6GX | C/2,5 | DIN 2174

EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN
48003125	2	0,4	+0,019	45	-	8	2,8	2,1	0	1,85 ~ 1,88	1	DIN2174
48003128	2,2	0,45	+0,020	45	-	9	2,8	2,1	0	2,02 ~ 2,05	1	DIN2174
48003133	2,5	0,45	+0,020	50	-	9	2,8	2,1	0	2,32 ~ 2,35	1	DIN2174
48003138	3	0,5	+0,020	56	18	-	3,5	2,7	2	2,79 ~ 2,83	2	DIN2174
48003140	3,5	0,6	+0,021	56	20	-	4	3	2	3,24 ~ 3,29	2	DIN2174
48003144	4	0,7	+0,022	63	21	-	4,5	3,4	2	3,69 ~ 3,75	2	DIN2174
48003149	5	0,8	+0,024	70	25	-	6	4,9	2	4,64 ~ 4,71	2	DIN2174
48003155	6	1	+0,026	80	30	-	6	4,9	2	5,55 ~ 5,63	2	DIN2174
48003161	8	1,25	+0,028	90	35	-	8	6,2	3	7,40 ~ 7,47	2	DIN2174
48003169	10	1,5	+0,032	100	39	-	10	8	4	9,26 ~ 9,35	2	DIN2174

V-NRT FORM D

Threading | Forming taps | Metric



- HSSE forming tap for through holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form D

P	P	P	P	M	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
10-15	10-15	10-15	8-12	5-10	10-20	10-20	m/min

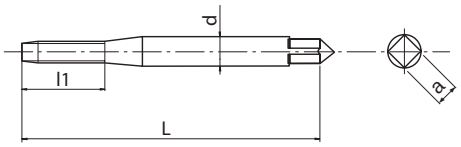
M	HSS-Co	V	ISO 2 6HX	D/4		DIN 2174	DIN 2174

EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
66612568	2	0,4	45	-	8	2,8	2,1	0	1,82 ~ 1,85	1	DIN2174
66612868	2,2	0,45	45	-	9	2,8	2,1	0	2,00 ~ 2,04	1	DIN2174
66613368	2,5	0,45	50	-	9	2,8	2,1	0	2,30 ~ 2,34	1	DIN2174
66613868	3	0,5	56	18	-	3,5	2,7	2	2,77 ~ 2,82	2	DIN2174
66614068	3,5	0,6	56	20	-	4	3	2	3,23 ~ 3,28	2	DIN2174
66614468	4	0,7	63	21	-	4,5	3,4	2	3,66 ~ 3,72	2	DIN2174
66614968	5	0,8	70	25	-	6	4,9	2	4,62 ~ 4,68	2	DIN2174
66615568	6	1	80	30	-	6	4,9	2	5,51 ~ 5,59	2	DIN2174
66616168	8	1,25	90	35	-	8	6,2	3	7,37 ~ 7,45	2	DIN2174
66616968	10	1,5	100	39	-	10	8	4	9,24 ~ 9,33	2	DIN2174
69017968	12	1,75	110	28	-	9	7	4	11,10 ~ 11,20	3	DIN2174

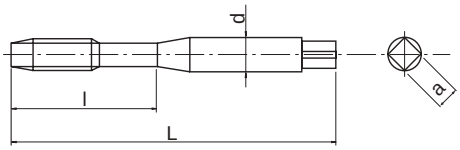
V-NRT 6GX FORM D

Threading | Forming taps | Metric

Type 1



Type 2



- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance, chamfer Form D

P ◉	P ◉	P ○	P ○	M ◉	N ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
10-15	10-15	10-15	8-12	5-10	10-20	10-20	m/min

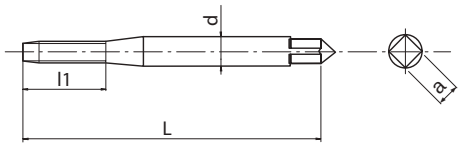
M	HSS-Co	V	ISO 3 6GX	D/4		DIN 2174

EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN
48004125	2	0,4	+0,019	45	-	8	2,8	2,1	0	1,85 ~ 1,88	1	DIN2174
48004128	2,2	0,45	+0,020	45	-	9	2,8	2,1	0	2,02 ~ 2,05	1	DIN2174
48004133	2,5	0,45	+0,020	50	-	9	2,8	2,1	0	2,32 ~ 2,35	1	DIN2174
48004138	3	0,5	+0,020	56	18	-	3,5	2,7	0	2,79 ~ 2,83	2	DIN2174
48004140	3,5	0,6	+0,021	56	20	-	4	3	2	3,24 ~ 3,29	2	DIN2174
48004144	4	0,7	+0,022	63	21	-	4,5	3,4	2	3,69 ~ 3,75	2	DIN2174
48004149	5	0,8	+0,024	70	25	-	6	4,9	2	4,64 ~ 4,71	2	DIN2174
48004155	6	1	+0,026	80	30	-	6	4,9	2	5,55 ~ 5,63	2	DIN2174
48004161	8	1,25	+0,028	90	35	-	8	6,2	3	7,40 ~ 7,47	2	DIN2174
48004169	10	1,5	+0,032	100	39	-	10	8	4	9,26 ~ 9,35	2	DIN2174

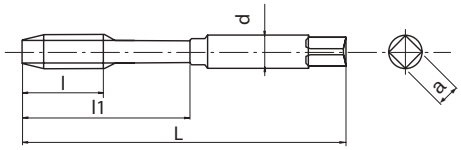
A-POT

Threading | Cutting taps | Metric Fine

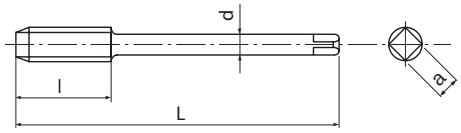
Type 1



Type 2



Type 3



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

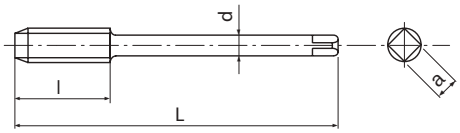
P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | MF | PM | V | ISO 2 6HX | B/4 | DIN 371 | DIN 374

EDP	MF	P	L	l	l1	d	a	Z	Type	DIN
48145135	2,5	0,35	50	-	9	2,8	2,1	2	1	DIN371
48145137	2,6	0,35	50	-	9	2,8	2,1	2	1	DIN371
48145141	3	0,35	56	8	18	3,5	2,7	3	2	DIN371
48145143	3,5	0,35	56	9	20	4	3	3	2	DIN371
48145145	4	0,5	63	10	21	4,5	3,4	3	2	DIN371
48145146	4	0,35	63	10	21	4,5	3,4	3	2	DIN371
48145148	4,5	0,5	70	12	25	6	4,9	3	2	DIN371
48145151	5	0,5	70	12	25	6	4,9	3	2	DIN371
48145601	6	0,75	80	14	30	6	4,9	3	2	DIN371
48145602	6	0,5	80	14	30	6	4,9	3	2	DIN371
48145160	7	0,75	80	14	30	7	5,5	3	2	DIN371
48145603	8	1	90	22	35	8	6,2	3	2	DIN371
48145604	8	0,75	80	18	30	8	6,2	3	2	DIN371
48145605	9	1	90	22	35	9	7	3	2	DIN371
48145606	10	1,25	100	24	39	10	8	3	2	DIN371
48145607	10	1	90	20	35	10	8	3	2	DIN371
48145608	10	0,75	90	20	35	10	8	3	2	DIN371
48145156	6	0,75	80	14	-	4,5	3,4	3	3	DIN374
48145157	6	0,5	80	14	-	4,5	3,4	3	3	DIN374
48145162	8	1	90	22	-	6	4,9	3	3	DIN374
48145163	8	0,75	80	18	-	6	4,9	3	3	DIN374
48145167	9	1	90	22	-	7	5,5	3	3	DIN374
48145170	10	1,25	100	24	-	7	5,5	3	3	DIN374
48145171	10	1	90	20	-	7	5,5	3	3	DIN374
48145172	10	0,75	90	20	-	7	5,5	3	3	DIN374
48145176	11	1	90	20	-	8	6,2	3	3	DIN374
48145180	12	1,5	100	22	-	9	7	3	3	DIN374
48145181	12	1,25	100	22	-	9	7	3	3	DIN374
48145182	12	1	100	22	-	9	7	3	3	DIN374
48145192	14	1,5	100	22	-	11	9	4	3	DIN374
48145193	14	1,25	100	22	-	11	9	4	3	DIN374
48145194	14	1	100	22	-	11	9	4	3	DIN374
48145203	16	1,5	100	22	-	12	9	4	3	DIN374
48145204	16	1	100	22	-	12	9	4	3	DIN374
48145216	18	1,5	110	25	-	14	11	4	3	DIN374
48145218	18	1	110	25	-	14	11	4	3	DIN374
48145220	20	2	140	34	-	16	12	4	3	DIN374
48145230	20	1,5	125	25	-	16	12	4	3	DIN374
48145232	20	1	125	25	-	16	12	4	3	DIN374
48145239	22	2	140	34	-	18	14,5	4	3	DIN374
48145240	22	1,5	125	25	-	18	14,5	4	3	DIN374
48145241	22	1	125	25	-	18	14,5	4	3	DIN374
48145249	24	2	140	28	-	18	14,5	4	3	DIN374
48145250	24	1,5	140	28	-	18	14,5	4	3	DIN374
48145251	24	1	140	28	-	18	14,5	4	3	DIN374

A-OIL-POT

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Side through coolant

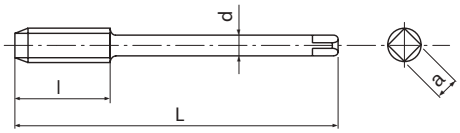
P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | MF | PM | V | ISO 2 6HX | B/4 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48214162	8	1	90	22	6	4,9	3	DIN374
48214171	10	1	90	20	7	5,5	3	DIN374
48214170	10	1,25	100	24	7	5,5	3	DIN374
48214180	12	1,5	100	22	9	7	3	DIN374
48214192	14	1,5	100	22	11	9	4	DIN374
48214203	16	1,5	100	22	12	9	4	DIN374
48214216	18	1,5	110	25	14	11	4	DIN374
48214230	20	1,5	125	25	16	12	4	DIN374

A-POT 6GX

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

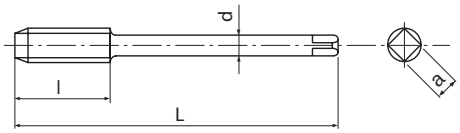
P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | MF | PM | V | ISO 3 6GX | B/4 | DIN 374

EDP	MF	P	oversize	L	l	d	a	Z	DIN
48205156	6	0,75	+0,022	80	14	4,5	3,4	3	DIN374
48205162	8	1	+0,026	80	22	6	4,9	3	DIN374
48205163	8	0,75	+0,022	80	18	6	4,9	3	DIN374
48205170	10	1,25	+0,028	90	24	7	5,5	3	DIN374
48205171	10	1	+0,026	90	20	7	5,5	3	DIN374
48205180	12	1,5	+0,032	90	22	9	7	3	DIN374
48205181	12	1,25	+0,028	90	22	9	7	3	DIN374
48205182	12	1	+0,026	90	22	9	7	3	DIN374
48205192	14	1,5	+0,032	90	22	11	9	4	DIN374
48205203	16	1,5	+0,032	100	22	12	9	4	DIN374
48205216	18	1,5	+0,032	100	25	14	11	4	DIN374
48205230	20	1,5	+0,032	140	25	16	12	4	DIN374
48205240	22	1,5	+0,032	140	25	18	14,5	4	DIN374
48205250	24	1,5	+0,032	140	28	18	14,5	4	DIN374

S-POT

Threading | Cutting taps | Metric Fine



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

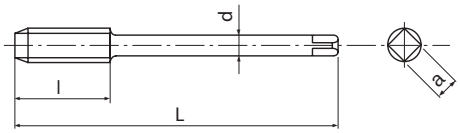
MF | HSSE | OX | ISO 2 6H | B/4 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48224139	3	0,35	56	9	2,2	-	3	DIN374
48224145	4	0,5	63	10	2,8	2,1	3	DIN374
48224151	5	0,5	70	12	3,5	2,7	3	DIN374
48224157	6	0,5	80	14	4,5	3,4	3	DIN374
48224156	6	0,75	80	14	4,5	3,4	3	DIN374
48224163	8	0,75	80	18	6	4,9	3	DIN374
48224162	8	1	90	22	6	4,9	3	DIN374
48224167	9	1	90	22	7	5,5	3	DIN374
48224172	10	0,75	90	20	7	5,5	3	DIN374
48224171	10	1	90	20	7	5,5	3	DIN374
48224170	10	1,25	100	24	7	5,5	3	DIN374
48224176	11	1	90	20	8	6,2	3	DIN374
48224182	12	1	100	22	9	7	3	DIN374
48224181	12	1,25	100	22	9	7	3	DIN374
48224180	12	1,5	100	22	9	7	3	DIN374
48224194	14	1	100	22	11	9	3	DIN374
48224193	14	1,25	100	22	11	9	3	DIN374
48224192	14	1,5	100	22	11	9	3	DIN374
48224204	16	1	100	22	12	9	3	DIN374
48224203	16	1,5	100	22	12	9	3	DIN374
48224218	18	1	110	25	14	11	3	DIN374
48224216	18	1,5	110	25	14	11	3	DIN374
48224232	20	1	125	25	16	12	3	DIN374
48224230	20	1,5	125	25	16	12	3	DIN374
48224220	20	2	140	34	16	12	3	DIN374
48224241	22	1	125	25	18	14,5	3	DIN374
48224240	22	1,5	125	25	18	14,5	3	DIN374
48224239	22	2	140	34	18	14,5	3	DIN374
48224251	24	1	140	28	18	14,5	3	DIN374
48224250	24	1,5	140	28	18	14,5	3	DIN374
48224249	24	2	140	28	18	14,5	3	DIN374

S-POT 6G NEW

Available from December 2017

Threading | Cutting taps | Metric Fine



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 6G internal thread tolerance

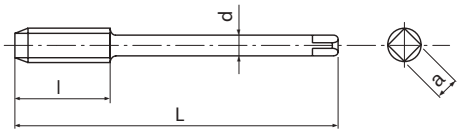
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

MF | HSSE | OX | ISO 2 6G | B/4 | DIN 374

EDP	MF	P	oversize	L	l	d	a	Z	DIN
48272156	6	0,75	+0,022	80	14	4,5	3,4	3	DIN374
48272162	8	1	+0,026	90	22	6	4,9	3	DIN374
48272163	8	0,75	+0,022	80	18	6	4,9	3	DIN374
48272170	10	1,25	+0,028	100	24	7	5,5	3	DIN374
48272171	10	1	+0,026	90	20	7	5,5	3	DIN374
48272180	12	1,5	+0,032	100	22	9	7	3	DIN374
48272181	12	1,25	+0,028	100	22	9	7	3	DIN374
48272182	12	1	+0,026	100	22	9	7	3	DIN374
48272192	14	1,5	+0,032	100	22	11	9	4	DIN374
48272203	16	1,5	+0,032	100	22	12	9	4	DIN374
48272216	18	1,5	+0,032	110	25	14	11	4	DIN374
48272230	20	1,5	+0,032	125	25	16	12	4	DIN374
48272240	22	1,5	+0,032	125	25	18	14,5	4	DIN374
48272250	24	1,5	+0,032	140	28	18	14,5	4	DIN374

VA-POT

Threading | Cutting taps | Metric Fine



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

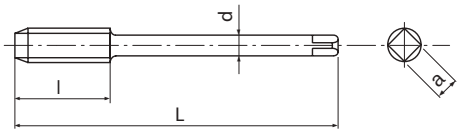
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

MF | HSSE | OX | ISO 2 6H | B/4 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
63713960	3	0,35	56	9	2,2	-	3	DIN374
63714560	4	0,5	63	10	2,8	2,1	3	DIN374
63715160	5	0,5	70	12	3,5	2,7	3	DIN374
63715760	6	0,5	80	14	4,5	3,4	3	DIN374
63715660	6	0,75	80	14	4,5	3,4	3	DIN374
63716360	8	0,75	80	18	6	4,9	3	DIN374
63716260	8	1	90	22	6	4,9	3	DIN374
63717160	10	1	90	20	7	5,5	3	DIN374
63717060	10	1,25	100	24	7	5,5	3	DIN374
63718260	12	1	100	22	9	7	3	DIN374
63718160	12	1,25	100	22	9	7	3	DIN374
63718060	12	1,5	100	22	9	7	3	DIN374
63719260	14	1,5	100	22	11	9	3	DIN374
63720360	16	1,5	100	22	12	9	3	DIN374
63721660	18	1,5	110	25	14	11	3	DIN374
63723060	20	1,5	125	25	16	12	3	DIN374
63724060	22	1,5	125	25	18	14,5	3	DIN374
63725060	24	1,5	140	28	18	14,5	3	DIN374

Z-POT

Threading | Cutting taps | Metric Fine



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels and stainless steels

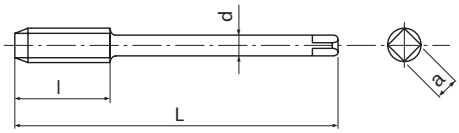
P ◉	P ◉	P ◉	P ○	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-24	15-24	15-24	8-20	8-20	20-40	20-40	10-15	8-15	m/min

MF | PM | V | ISO 2 6HX | B/4 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48028139	3	0,35	56	9	2,2	-	3	DIN374
48028145	4	0,5	63	10	2,8	2,1	3	DIN374
48028151	5	0,5	70	12	3,5	2,7	3	DIN374
48028157	6	0,5	80	14	4,5	3,4	3	DIN374
48028156	6	0,75	80	14	4,5	3,4	3	DIN374
48028163	8	0,75	80	18	6	4,9	3	DIN374
48028162	8	1	90	22	6	4,9	3	DIN374
48028171	10	1	90	20	7	5,5	3	DIN374
48028170	10	1,25	100	24	7	5,5	3	DIN374
48028182	12	1	100	22	9	7	3	DIN374
48028180	12	1,25	100	22	9	7	3	DIN374
48028176	12	1,5	100	22	9	7	3	DIN374
48028193	14	1,5	100	22	11	9	4	DIN374
48028204	16	1,5	100	22	12	9	4	DIN374
48028217	18	1,5	110	25	14	11	4	DIN374
48028231	20	1,5	125	25	16	12	4	DIN374
48028241	22	1,5	125	25	18	14,5	4	DIN374
48028251	24	1,5	140	28	18	14,5	4	DIN374

POT

Threading | Cutting taps | Metric Fine



- HSSE spiral-point cutting tap for through holes
- Bright finish
- For general purpose applications

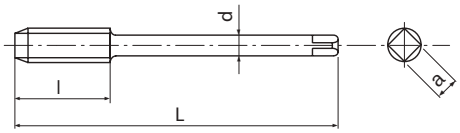
P	P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
12-20	8-12	8-12	8-12	8-12	15-25	15-20	m/min

MF | HSSE | ISO 2 6H | B/4 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
60614560	4	0,5	63	10	2,8	2,1	3	DIN374
60615160	5	0,5	70	12	3,5	2,7	3	DIN374
60615660	6	0,75	80	14	4,5	3,4	3	DIN374
60616360	8	0,75	80	18	6	4,9	3	DIN374
60616260	8	1	90	22	6	4,9	3	DIN374
60617260	10	0,75	90	18	7	5,5	3	DIN374
60617160	10	1	90	20	7	5,5	3	DIN374
60617060	10	1,25	100	24	7	5,5	3	DIN374
60618260	12	1	100	22	9	7	3	DIN374
60618160	12	1,25	100	22	9	7	3	DIN374
60618060	12	1,5	100	22	9	7	3	DIN374
60619460	14	1	100	18	11	9	3	DIN374
60619360	14	1,25	100	22	11	9	3	DIN374
60619260	14	1,5	100	22	11	9	3	DIN374
60620460	16	1	100	18	12	9	3	DIN374
60620360	16	1,5	100	22	12	9	3	DIN374
60621860	18	1	110	20	14	11	3	DIN374
60621660	18	1,5	110	25	14	11	3	DIN374
60621560	18	2	125	26	14	11	3	DIN374
60623260	20	1	125	20	16	12	3	DIN374
60623060	20	1,5	125	25	16	12	3	DIN374
60622960	20	2	140	27	16	12	3	DIN374
60624060	22	1,5	125	25	18	14,5	3	DIN374
60623960	22	2	140	27	18	14,5	3	DIN374
60625060	24	1,5	140	28	18	14,5	3	DIN374
60624960	24	2	140	27	18	14,5	3	DIN374
60627360	30	2	150	30	22	18	4	DIN374

CC-POT

Threading | Cutting taps | Metric Fine



- HSSE spiral-point cutting tap for through holes
- CrN coating
- For general steels and stainless steels
- Developed for rigid tapping on CNC machines

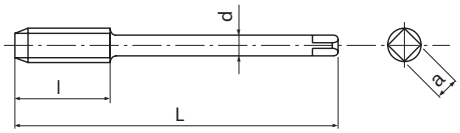
P ◉	P ◉	P ◉	P ○	M ◉	N ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	
15-25	15-25	10-25	10-25	6-15	20-40	m/min

MF | HSSE | CrN | ISO 2 6HX | B/4 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48061156	6	0,75	80	14	4,5	3,4	3	DIN374
48061163	8	0,75	80	18	6	4,9	3	DIN374
48061162	8	1	90	22	6	4,9	3	DIN374
48061171	10	1	90	20	7	5,5	3	DIN374
48061170	10	1,25	100	24	7	5,5	3	DIN374
48061182	12	1	100	22	9	7	3	DIN374
48061181	12	1,25	100	22	9	7	3	DIN374
48061180	12	1,5	100	22	9	7	3	DIN374
48061192	14	1,5	100	22	11	9	3	DIN374
48061203	16	1,5	100	22	12	9	3	DIN374
48061216	18	1,5	110	25	14	11	3	DIN374
48061230	20	1,5	125	25	16	12	3	DIN374
48061240	22	1,5	125	25	18	14,5	3	DIN374
48061250	24	1,5	140	28	18	14,5	3	DIN374

H-POT

Threading | Cutting taps | Metric Fine



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

P	K	S	S	H	H	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

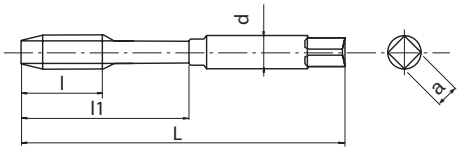
MF | PM | OX | ISO 2 6H | B/5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
88414060	3	0,35	56	8	2,2	-	3	DIN374
88414560	4	0,5	63	10	2,8	2,1	3	DIN374
88415160	5	0,5	70	12	3,5	2,7	3	DIN374
88415660	6	0,75	80	14	4,5	3,4	3	DIN374
88415760	6	0,5	80	14	4,5	3,4	3	DIN374
88416360	8	0,75	80	18	6	4,9	3	DIN374
88416260	8	1	90	22	6	4,9	3	DIN374
88417160	10	1	90	20	7	5,5	3	DIN374
88417060	10	1,25	100	24	7	5,5	3	DIN374
88418260	12	1	100	22	9	7	3	DIN374
88418160	12	1,25	100	22	9	7	3	DIN374
88418060	12	1,5	100	22	9	7	3	DIN374
88419260	14	1,5	100	22	11	9	3	DIN374
88420360	16	1,5	100	22	12	9	4	DIN374
88421660	18	1,5	110	25	14	11	4	DIN374
88423060	20	1,5	125	25	16	12	4	DIN374
88424060	22	1,5	125	25	18	14,5	4	DIN374
88425060	24	1,5	140	28	18	14,5	4	DIN374

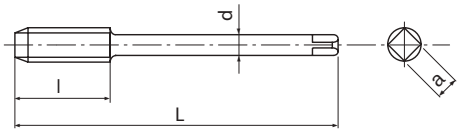
A-SFT

Threading | Cutting taps | Metric Fine

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

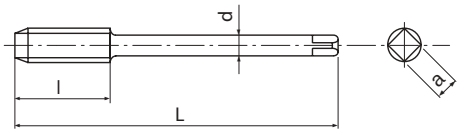
P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | MF | PM | V | 45° | ISO 2 6HX | C/2,5 | DIN 371 | DIN 374

EDP	MF	P	L	l	l1	d	a	Z	Type	DIN
48139135	2,5	0,35	50	3,6	13	2,8	2,1	2	1	DIN371
48139137	2,6	0,35	50	3,6	13	2,8	2,1	2	1	DIN371
48139141	3	0,35	56	4	18	3,5	2,7	3	1	DIN371
48139143	3,5	0,35	56	4,8	20	4	3	3	1	DIN371
48139145	4	0,5	63	5,6	21	4,5	3,4	3	1	DIN371
48139146	4	0,35	63	5,6	21	4,5	3,4	3	1	DIN371
48139148	4,5	0,5	70	6	25	6	4,9	3	1	DIN371
48139151	5	0,5	70	6,4	25	6	4,9	3	1	DIN371
48139601	6	0,75	80	8	30	6	4,9	3	1	DIN371
48139602	6	0,5	80	8	30	6	4,9	3	1	DIN371
48139160	7	0,75	80	8	30	7	5,5	3	1	DIN371
48139603	8	1	90	10	35	8	6,2	3	1	DIN371
48139604	8	0,75	80	10	35	8	6,2	3	1	DIN371
48139605	9	1	90	10	35	9	7	3	1	DIN371
48139606	10	1,25	100	12	39	10	8	3	1	DIN371
48139607	10	1	90	12	35	10	8	3	1	DIN371
48139608	10	0,75	90	12	35	10	8	3	1	DIN371
48139156	6	0,75	80	8	-	4,5	3,4	3	2	DIN374
48139157	6	0,5	80	8	-	4,5	3,4	3	2	DIN374
48139162	8	1	90	10	-	6	4,9	3	2	DIN374
48139163	8	0,75	80	8	-	6	4,9	3	2	DIN374
48139167	9	1	90	10	-	7	5,5	3	2	DIN374
48139170	10	1,25	100	12	-	7	5,5	3	2	DIN374
48139171	10	1	90	10	-	7	5,5	3	2	DIN374
48139172	10	0,75	90	10	-	7	5,5	3	2	DIN374
48139176	11	1	90	12	-	8	6,2	3	2	DIN374
48139180	12	1,5	100	14	-	9	7	3	2	DIN374
48139181	12	1,25	100	12	-	9	7	3	2	DIN374
48139182	12	1	100	12	-	9	7	3	2	DIN374
48139192	14	1,5	100	16	-	11	9	3	2	DIN374
48139193	14	1,25	100	16	-	11	9	3	2	DIN374
48139194	14	1	100	16	-	11	9	3	2	DIN374
48139203	16	1,5	100	16	-	12	9	3	2	DIN374
48139204	16	1	100	16	-	12	9	3	2	DIN374
48139216	18	1,5	110	16	-	14	11	4	2	DIN374
48139218	18	1	110	16	-	14	11	4	2	DIN374
48139220	20	2	140	25	-	16	12	4	2	DIN374
48139230	20	1,5	125	16	-	16	12	4	2	DIN374
48139232	20	1	125	16	-	16	12	4	2	DIN374
48139239	22	2	140	25	-	18	14,5	4	2	DIN374
48139240	22	1,5	125	16	-	18	14,5	4	2	DIN374
48139241	22	1	125	16	-	18	14,5	4	2	DIN374
48139249	24	2	140	30	-	18	14,5	4	2	DIN374
48139250	24	1,5	140	16	-	18	14,5	4	2	DIN374
48139251	24	1	140	16	-	18	14,5	4	2	DIN374

A-OIL-SFT

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Centre through coolant

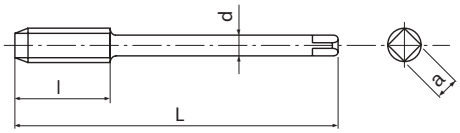
P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | MF | PM | V | 45° | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48140162	8	1	90	10	6	4,9	3	DIN374
48140171	10	1	90	10	7	5,5	3	DIN374
48140170	10	1,25	100	12	7	5,5	3	DIN374
48140180	12	1,5	100	14	9	7	3	DIN374
48140192	14	1,5	100	16	11	9	3	DIN374
48140203	16	1,5	100	16	12	9	3	DIN374
48140216	18	1,5	110	16	14	11	4	DIN374
48140230	20	1,5	125	16	16	12	4	DIN374

A-SFT 6GX

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

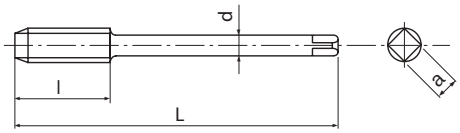
A | MF | PM | V | 45° | ISO 3 6GX | C/2,5 | DIN 374

EDP	MF	P	oversize	L	l	d	a	Z	DIN
48201156	6	0,75	+0,022	80	8	4,5	3,4	3	DIN374
48201162	8	1	+0,026	90	10	6	4,9	3	DIN374
48201163	8	0,75	+0,022	80	8	6	4,9	3	DIN374
48201170	10	1,25	+0,028	100	12	7	5,5	3	DIN374
48201171	10	1	+0,026	90	10	7	5,5	3	DIN374
48201180	12	1,5	+0,032	100	14	9	7	3	DIN374
48201181	12	1,25	+0,028	100	12	9	7	3	DIN374
48201182	12	1	+0,026	100	12	9	7	3	DIN374
48201192	14	1,5	+0,032	100	16	11	9	3	DIN374
48201203	16	1,5	+0,032	100	16	12	9	3	DIN374
48201216	18	1,5	+0,032	110	16	14	11	4	DIN374
48201230	20	1,5	+0,032	125	16	16	12	4	DIN374
48201240	22	1,5	+0,032	125	16	18	14,5	4	DIN374
48201250	24	1,5	+0,032	140	16	18	14,5	4	DIN374

A-CSF OIL NEW

Available from February 2018

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Carbide spiral-fluted cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant

K	K	N	
GG	GGG	AC,ADC	
10-100	10-100	10-100	m/min

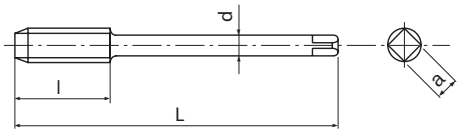
A | MF | CARBIDE | FX | 15° | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48267162	8	1	90	15	6	4,9	3	DIN374
48267171	10	1	90	18	7	5,5	3	DIN374
48267180	12	1,5	100	21	9	7	3	DIN374
48267182	12	1	100	21	9	7	3	DIN374
48267192	14	1,5	100	24	11	9	4	DIN374
48267203	16	1,5	100	24	12	9	4	DIN374
48267230	20	1,5	125	30	16	12	4	DIN374

A-CSF OIL FORM E NEW

Available from February 2018

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Carbide spiral-fluted cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant, Form E chamfer

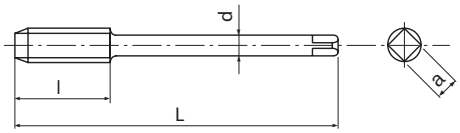
K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

A | MF | CARBIDE | FX | 15° | ISO 2 6HX | E/1,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48266162	8	1	90	15	6	4,9	3	DIN374
48266171	10	1	90	18	7	5,5	3	DIN374
48266180	12	1,5	100	21	9	7	3	DIN374
48266182	12	1	100	21	9	7	3	DIN374
48266192	14	1,5	100	24	11	9	4	DIN374
48266203	16	1,5	100	24	12	9	4	DIN374

S-SFT

Threading | Cutting taps | Metric Fine



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

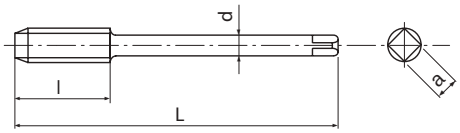
MF | HSSE | 0X | 40° | ISO 2 6H | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48223139	3	0,35	56	4	2,2	-	3	DIN374
48223145	4	0,5	63	5,6	2,8	2,1	3	DIN374
48223151	5	0,5	70	6,4	3,5	2,7	3	DIN374
48223157	6	0,5	80	8	4,5	3,4	3	DIN374
48223156	6	0,75	80	8	4,5	3,4	3	DIN374
48223163	8	0,75	80	10	6	4,9	3	DIN374
48223162	8	1	90	10	6	4,9	3	DIN374
48223167	9	1	90	10	7	5,5	3	DIN374
48223172	10	0,75	90	12	7	5,5	3	DIN374
48223171	10	1	90	12	7	5,5	3	DIN374
48223170	10	1,25	100	12	7	5,5	3	DIN374
48223176	11	1	90	12	8	6,2	3	DIN374
48223182	12	1	100	14	9	7	4	DIN374
48223181	12	1,25	100	14	9	7	4	DIN374
48223180	12	1,5	100	14	9	7	4	DIN374
48223194	14	1	100	16	11	9	4	DIN374
48223193	14	1,25	100	16	11	9	4	DIN374
48223192	14	1,5	100	16	11	9	4	DIN374
48223204	16	1	100	16	12	9	4	DIN374
48223203	16	1,5	100	16	12	9	4	DIN374
48223218	18	1	110	20	14	11	4	DIN374
48223216	18	1,5	110	20	14	11	4	DIN374
48223232	20	1	125	20	16	12	4	DIN374
48223230	20	1,5	125	20	16	12	4	DIN374
48223220	20	2	140	20	16	12	4	DIN374
48223241	22	1	125	20	18	14,5	4	DIN374
48223240	22	1,5	125	20	18	14,5	4	DIN374
48223239	22	2	140	20	18	14,5	4	DIN374
48223251	24	1	140	20	18	14,5	4	DIN374
48223250	24	1,5	140	24	18	14,5	4	DIN374
48223249	24	2	140	24	18	14,5	4	DIN374

S-SFT 6G NEW

Available from December 2017

Threading | Cutting taps | Metric Fine



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels
- For 6G internal thread tolerance

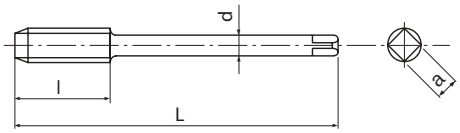
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

MF | HSSE | OX | 40° | ISO 2 6G | C/2,5 | DIN 374

EDP	MF	P	oversize	L	l	d	a	Z	DIN
48269156	6	0,75	+0,022	80	8	4,5	3,4	3	DIN374
48269162	8	1	+0,026	90	10	6	4,9	3	DIN374
48269163	8	0,75	+0,022	80	8	6	4,9	3	DIN374
48269170	10	1,25	+0,028	100	12	7	5,5	3	DIN374
48269171	10	1	+0,026	90	10	7	5,5	3	DIN374
48269180	12	1,5	+0,032	100	14	9	7	3	DIN374
48269181	12	1,25	+0,028	100	12	9	7	3	DIN374
48269182	12	1	+0,026	100	12	9	7	3	DIN374
48269192	14	1,5	+0,032	100	16	11	9	3	DIN374
48269203	16	1,5	+0,032	100	16	12	9	3	DIN374
48269216	18	1,5	+0,032	110	16	14	11	4	DIN374
48269230	20	1,5	+0,032	125	16	16	12	4	DIN374
48269240	22	1,5	+0,032	125	16	18	14,5	4	DIN374
48269250	24	1,5	+0,032	140	16	18	14,5	4	DIN374

VA-SFT

Threading | Cutting taps | Metric Fine



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

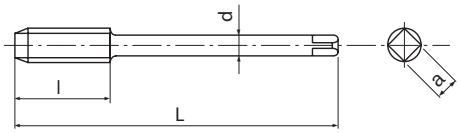
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

MF | HSSE | OX | 40° | ISO 2 6H | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
65513960	3	0,35	56	4	2,2	-	3	DIN374
65514560	4	0,5	63	6	2,8	2,1	3	DIN374
65515160	5	0,5	70	7	3,5	2,7	3	DIN374
65515760	6	0,5	80	8	4,5	3,4	3	DIN374
65515660	6	0,75	80	8	4,5	3,4	3	DIN374
65516360	8	0,75	80	10	6	4,9	3	DIN374
65516260	8	1	90	10	6	4,9	3	DIN374
65517160	10	1	90	12	7	5,5	4	DIN374
65517060	10	1,25	100	12	7	5,5	4	DIN374
65518260	12	1	100	14	9	7	4	DIN374
65518160	12	1,25	100	14	9	7	4	DIN374
65518060	12	1,5	100	14	9	7	4	DIN374
65519260	14	1,5	100	16	11	9	4	DIN374
65520360	16	1,5	100	16	12	9	5	DIN374
65521660	18	1,5	110	20	14	11	5	DIN374
65523060	20	1,5	125	20	16	12	5	DIN374
65524060	22	1,5	125	20	18	14,5	5	DIN374
65525060	24	1,5	140	24	18	14,5	5	DIN374

Z-SFT

Threading | Cutting taps | Metric Fine



- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and stainless steels

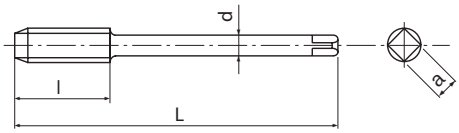
P ◉	P ◉	P ◉	P ○	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
10-25	10-25	10-25	8-20	8-20	15-35	15-35	5-10	8-15	m/min

MF | PM | V | 50° | ISO 2 6H | C/2,5 | | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48029139	3	0,35	56	4	2,2	-	3	DIN374
48029145	4	0,5	63	6	2,8	2,1	3	DIN374
48029151	5	0,5	70	7	3,5	2,7	3	DIN374
48029157	6	0,5	80	8	4,5	3,4	3	DIN374
48029156	6	0,75	80	8	4,5	3,4	3	DIN374
48029163	8	0,75	80	10	6	4,9	3	DIN374
48029162	8	1	90	10	6	4,9	3	DIN374
48029171	10	1	90	12	7	5,5	4	DIN374
48029170	10	1,25	100	12	7	5,5	4	DIN374
48029182	12	1	100	14	9	7	4	DIN374
48029180	12	1,25	100	14	9	7	4	DIN374
48029176	12	1,5	100	14	9	7	4	DIN374
48029192	14	1,5	100	16	11	9	4	DIN374
48029203	16	1,5	100	16	12	9	5	DIN374
48029216	18	1,5	110	20	14	11	5	DIN374
48029230	20	1,5	125	20	16	12	5	DIN374
48029240	22	1,5	125	20	18	14,5	5	DIN374
48029250	24	1,5	140	24	18	14,5	5	DIN374

SFT

Threading | Cutting taps | Metric Fine



- HSSE spiral-fluted cutting tap for blind holes
- Bright finish
- For general purpose applications

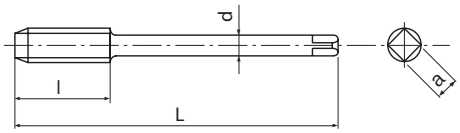
P	P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
8-13	7-12	7-12	6-9	6-8	10-20	10-15	m/min

MF | HSSE | 40° | ISO 2 6H | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
61214560	4	0,5	63	6	2,8	2,1	3	DIN374
61215160	5	0,5	70	7	3,5	2,7	3	DIN374
61215660	6	0,75	80	8	4,5	3,4	3	DIN374
61216360	8	0,75	80	10	6	4,9	3	DIN374
61216260	8	1	90	10	6	4,9	3	DIN374
61217260	10	0,75	90	12	7	5,5	3	DIN374
61217160	10	1	90	12	7	5,5	3	DIN374
61217060	10	1,25	100	12	7	5,5	3	DIN374
61218260	12	1	100	14	9	7	3	DIN374
61218160	12	1,25	100	14	9	7	3	DIN374
61218060	12	1,5	100	14	9	7	3	DIN374
61219460	14	1	100	11	11	9	3	DIN374
61219360	14	1,25	100	15	11	9	3	DIN374
61219260	14	1,5	100	16	11	9	3	DIN374
61220460	16	1	100	12	12	9	3	DIN374
61220360	16	1,5	100	16	12	9	3	DIN374
61221860	18	1	110	13	14	11	4	DIN374
61221660	18	1,5	110	20	14	11	4	DIN374
61221560	18	2	125	20	14	11	4	DIN374
61223260	20	1	125	20	16	12	4	DIN374
61223060	20	1,5	125	20	16	12	4	DIN374
61222960	20	2	140	20	16	12	4	DIN374
61224060	22	1,5	125	20	18	14,5	4	DIN374
61223960	22	2	140	20	18	14,5	4	DIN374
61225060	24	1,5	140	20	18	14,5	4	DIN374
61224960	24	2	140	20	18	14,5	4	DIN374
61227360	30	2	150	22	22	18	4	DIN374

CC-SFT

Threading | Cutting taps | Metric Fine



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For general steels, stainless steels and aluminium
- Developed for rigid tapping on CNC machines

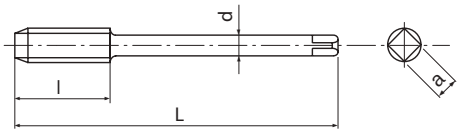
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

MF | HSSE | CrN | 45° | ISO 2 6HX | C/2,5 | ≥2D | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48032157	6	0,5	80	7,2	4,5	3,4	3	DIN374
48032156	6	0,75	80	7,2	4,5	3,4	3	DIN374
48032163	8	0,75	80	9	6	4,9	3	DIN374
48032162	8	1	90	9	6	4,9	3	DIN374
48032170	10	1,25	100	11	7	5,5	4	DIN374
48032171	10	1	90	11	7	5,5	4	DIN374
48032180	12	1,5	100	13	9	7	4	DIN374
48032181	12	1,25	100	13	9	7	4	DIN374
48032182	12	1	100	13	9	7	4	DIN374
48032192	14	1,5	100	14	11	9	4	DIN374
48032203	16	1,5	100	14	12	9	4	DIN374
48032216	18	1,5	110	18	14	11	4	DIN374
48032230	20	1,5	125	18	16	12	4	DIN374
48032240	22	1,5	125	18	18	14,5	4	DIN374
48032250	24	1,5	140	22	18	14,5	4	DIN374

SUS-SFT

Threading | Cutting taps | Metric Fine



- HSSE high spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For stainless steels

M INOX

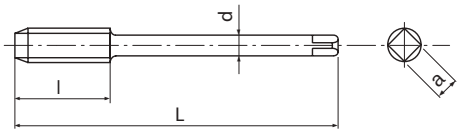
6-10 m/min

MF | HSSE | 0X | 50° | ISO 2 6HX | C/2,5 | <1,5D | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48027163	8	0,75	80	10	6	4,9	3	DIN374
48027162	8	1	90	10	6	4,9	3	DIN374
48027171	10	1	90	12	7	5,5	3	DIN374
48027170	10	1,25	100	12	7	5,5	3	DIN374
48027182	12	1	100	9	9	7	3	DIN374
48027181	12	1,25	100	14	9	7	3	DIN374
48027180	12	1,5	100	14	9	7	3	DIN374
48027192	14	1,5	100	16	11	9	3	DIN374
48027203	16	1,5	100	16	12	9	3	DIN374
48027216	18	1,5	110	20	14	11	4	DIN374
48027230	20	1,5	125	20	16	12	4	DIN374
48027240	22	1,5	125	20	18	14,5	4	DIN374
48027250	24	1,5	140	24	18	14,5	4	DIN374

AL-SFT

Threading | Cutting taps | Metric Fine



- HSSE spiral-fluted cutting tap for blind holes
- Bright finish
- For aluminium and cast aluminium

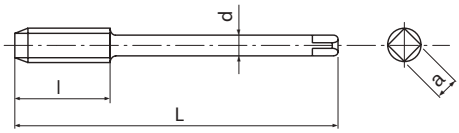
N Al	N AC,ADC	
10-20	10-15	m/min

MF | HSSE | 50° | ISO 2 6H | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
70416260	8	1	90	10	6	4,9	2	DIN374
70417160	10	1	90	12	7	5,5	2	DIN374
70417060	10	1,25	100	12	7	5,5	2	DIN374
70418260	12	1	100	14	9	7	2	DIN374
70418160	12	1,25	100	14	9	7	2	DIN374
70418060	12	1,5	100	14	9	7	2	DIN374

H-SFT

Threading | Cutting taps | Metric Fine



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

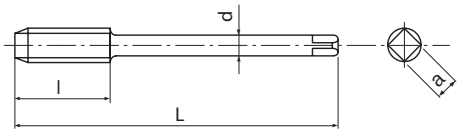
P ◉	P ○	K ○	S ◉	S ◉	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

MF | PM | OX | 15° | ISO 2 6H | C/3 | | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
83214060	3	0,35	56	4	2,2	-	3	DIN374
83214560	4	0,5	63	6	2,8	2,1	3	DIN374
83215160	5	0,5	70	7	3,5	2,7	3	DIN374
83215660	6	0,75	80	8	4,5	3,4	3	DIN374
83215760	6	0,5	80	8	4,5	3,4	3	DIN374
83216360	8	0,75	80	10	6	4,9	3	DIN374
83216260	8	1	90	10	6	4,9	3	DIN374
83217160	10	1	90	12	7	5,5	4	DIN374
83217060	10	1,25	100	12	7	5,5	4	DIN374
83218260	12	1	100	14	9	7	4	DIN374
83218160	12	1,25	100	14	9	7	4	DIN374
83218060	12	1,5	100	14	9	7	4	DIN374
83219260	14	1,5	100	16	11	9	5	DIN374
83220360	16	1,5	100	16	12	9	5	DIN374
83221660	18	1,5	110	20	14	11	5	DIN374
83223060	20	1,5	125	20	16	12	5	DIN374
83224060	22	1,5	125	20	18	14,5	5	DIN374
83225060	24	1,5	140	24	18	14,5	5	DIN374

VP-DC-MT

Threading | Cutting taps | Metric Fine



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min

P	P	K	K	N	H	H	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

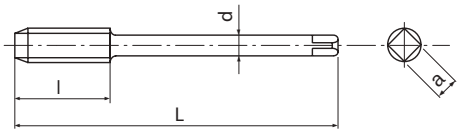
MF | PM | V | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48023140	3	0,35	56	8	2,2	-	3	DIN374
48023145	4	0,5	63	9	2,8	2,1	3	DIN374
48023151	5	0,5	70	10	3,5	2,7	3	DIN374
48023156	6	0,75	80	12	4,5	3,4	3	DIN374
48023157	6	0,5	80	12	4,5	3,4	3	DIN374
48023163	8	0,75	80	15	6	4,9	4	DIN374
48023162	8	1	90	15	6	4,9	4	DIN374
48023171	10	1	90	18	7	5,5	4	DIN374
48023170	10	1,25	100	18	7	5,5	4	DIN374
48023182	12	1	100	21	9	7	4	DIN374
48023181	12	1,25	100	21	9	7	4	DIN374
48023180	12	1,5	100	21	9	7	4	DIN374
48023192	14	1,5	100	24	11	9	4	DIN374
48023203	16	1,5	100	24	12	9	4	DIN374
48023216	18	1,5	110	30	14	11	4	DIN374
48023230	20	1,5	125	30	16	12	4	DIN374
48023240	22	1,5	125	20	18	14,5	5	DIN374
48023250	24	1,5	140	24	18	14,5	5	DIN374

VPO-DC-MT Center NEW SIZES

New sizes
available from January 2018

Threading | Cutting taps | Metric Fine



- Powder metal straight flute cutting tap for blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min, with Centre through coolant

P	P	K	K	N	H	H	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

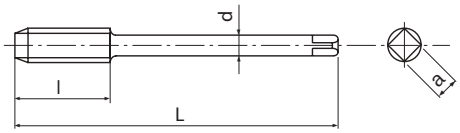
MF | PM | V | ISO 2 6HX | C/2,5 | ≥2D | | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48024162	8	1	90	15	6	4,9	4	DIN374
48024171	10	1	90	18	7	5,5	4	DIN374
48024170	10	1,25	100	18	7	5,5	4	DIN374
48300181 NEW	12	1,25	100	21	9	7	4	DIN374
48300180 NEW	12	1,5	100	21	9	7	4	DIN374
48300192 NEW	14	1,5	100	24	11	9	4	DIN374
48300203 NEW	16	1,5	100	24	12	9	4	DIN374
48300216 NEW	18	1,5	110	30	14	11	4	DIN374
48300230 NEW	20	1,5	125	30	16	12	4	DIN374

VPO-DC-MT Side NEW SIZES

New sizes
available from January 2018

Threading | Cutting taps | Metric Fine



- Powder metal straight flute cutting tap for through holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min, with side through coolant

P ○	P ○	K ◉	K ◉	N ◉	H ○	H ○	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

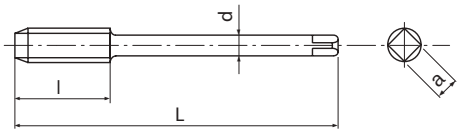
MF | PM | V | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48299162 NEW	8	1	90	15	6	4,9	4	DIN374
48299171 NEW	10	1	90	18	7	5,5	4	DIN374
48299170 NEW	10	1,25	100	18	7	5,5	4	DIN374
48024181	12	1.25	100	21	9	7	4	DIN374
48024180	12	1.5	100	21	9	7	4	DIN374
48024192	14	1.5	100	24	11	9	4	DIN374
48024203	16	1.5	100	24	12	9	4	DIN374
48024216	18	1.5	110	30	14	11	4	DIN374
48024230	20	1.5	125	30	16	12	4	DIN374

A-CHT OIL Center NEW

Available from February 2018

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant

K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

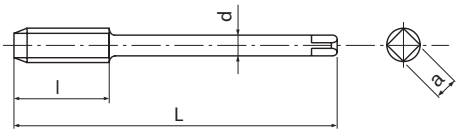
A | MF | CARBIDE | FX | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48264162	8	1	90	15	6	4,9	4	DIN374
48264171	10	1	90	18	7	5,5	4	DIN374
48264180	12	1,5	100	21	9	7	4	DIN374
48264182	12	1	100	21	9	7	4	DIN374
48264192	14	1,5	100	24	11	9	4	DIN374
48264203	16	1,5	100	24	12	9	4	DIN374
48264230	20	1,5	125	30	16	12	4	DIN374

A-CHT OIL Side NEW

Available from February 2018

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Carbide straight flute cutting tap for through holes
- TiAlN coating
- For cast iron and cast aluminium
- Side through coolant

K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

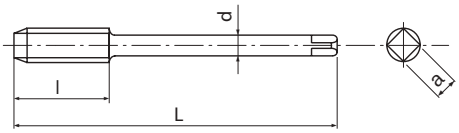
A | MF | CARBIDE | FX | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48265162	8	1	90	15	6	4,9	4	DIN374
48265171	10	1	90	18	7	5,5	4	DIN374
48265180	12	1,5	100	21	9	7	4	DIN374
48265182	12	1	100	21	9	7	4	DIN374
48265192	14	1,5	100	24	11	9	4	DIN374
48265203	16	1,5	100	24	12	9	4	DIN374
48265230	20	1,5	125	30	16	12	4	DIN374

A-CHT OIL FORM E NEW

Available from February 2018

Threading | Cutting taps | Metric Fine



- First choice in quality and performance
- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant, Form E chamfer

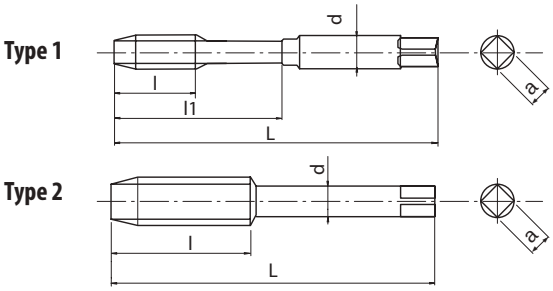
K GG	K GGG	N AC,ADC	
10-100	10-100	10-100	m/min

A | MF | CARBIDE | FX | ISO 2 6HX | E/1,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
48263171	10	1	90	18	7	5,5	3	DIN374
48263180	12	1,5	100	21	9	7	3	DIN374
48263182	12	1	100	21	9	7	3	DIN374
48263192	14	1,5	100	24	11	9	4	DIN374
48263203	16	1,5	100	24	12	9	4	DIN374

OIL-C-MT Center LIMITED SUPPLY

Threading | Cutting taps | Metric Fine



- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant

K GG	K GGG	N AC,ADC	
50-100	30-60	20-60	m/min

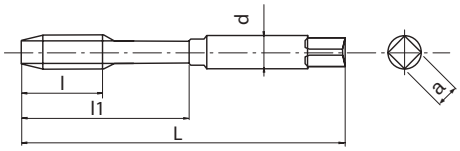
MF | CARBIDE | FX | ISO 2 6HX | C/2,5

EDP	MF	P	L	l	l1	d	a	Z	Type
48130171	10	1	100	18	39	10	8	4	1
48130170	10	1,25	100	18	39	10	8	4	1
48130181	12	1,25	110	21	-	9	7	4	2
48130180	12	1,5	110	21	-	9	7	4	2
48130192	14	1,5	110	24	-	11	9	4	2

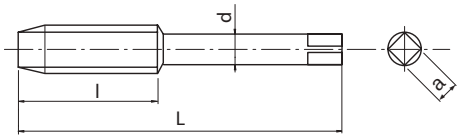
OIL-C-MT Side LIMITED SUPPLY

Threading | Cutting taps | Metric Fine

Type 1



Type 2



- Carbide straight flute cutting tap for through holes
- TiAlN coating
- For cast iron and cast aluminium
- Side through coolant

K	K	N
GG	GGG	AC,ADC
50-100	30-60	20-60

m/min

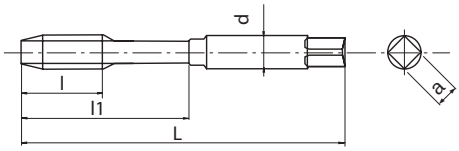
MF | CARBIDE | FX | ISO 2 6HX | C/2,5

EDP	MF	P	L	l	l1	d	a	Z	Type
48132170	10	1,25	100	18	39	10	8	4	1
48132181	12	1,25	110	21	-	9	7	4	2
48132180	12	1,5	110	21	-	9	7	4	2
48132192	14	1,5	110	24	-	11	9	4	2

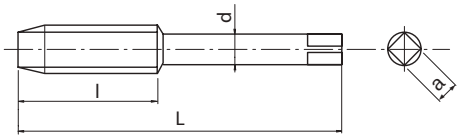
OIL-C-MT FORM E LIMITED SUPPLY

Threading | Cutting taps | Metric Fine

Type 1



Type 2



- Carbide straight flute cutting tap for blind holes
- TiAlN coating
- For cast iron and cast aluminium
- Centre through coolant, Form E chamfer

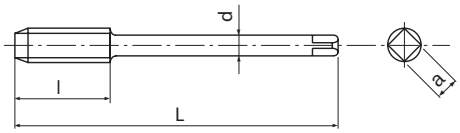
K GG	K GGG	N AC,ADC	
50-100	30-60	20-60	m/min

MF | CARBIDE | FX | ISO 2 6HX | E/1,5

EDP	MF	P	L	l	l1	d	a	Z	Type
48126170	10	1,25	100	18	39	10	8	4	1
48126181	12	1,25	110	21	-	9	7	4	2
48126180	12	1,5	110	21	-	9	7	4	2
48126192	14	1,5	110	24	-	11	9	4	2

GG-MT

Threading | Cutting taps | Metric Fine



- HSSE straight flute cutting tap for blind and through holes
- NiOx coating
- For cast iron

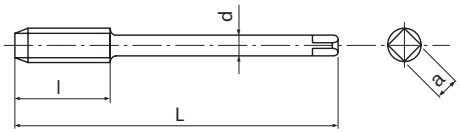
K GG 10-15 | K GGG 7-12 | m/min

MF | HSSE | NI-OX | ISO 2 6HX | C/2,5 | DIN 374

EDP	MF	P	L	l	d	a	Z	DIN
62113960	3	0,35	56	9	2,2	-	3	DIN374
62114260	3,5	0,35	56	10	2,5	-	3	DIN374
62114560	4	0,5	63	10	2,8	2,1	3	DIN374
62115160	5	0,5	70	12	3,5	2,7	3	DIN374
62115760	6	0,5	80	14	4,5	3,4	3	DIN374
62115660	6	0,75	80	12	4,5	3,4	3	DIN374
62116360	8	0,75	80	19	6	4,9	4	DIN374
62116260	8	1	90	22	6	4,9	4	DIN374
62117160	10	1	90	20	7	5,5	4	DIN374
62117060	10	1,25	100	24	7	5,5	4	DIN374
62118260	12	1	100	20	7	7	4	DIN374
62118160	12	1,25	100	22	9	5	4	DIN374
62118060	12	1,5	100	22	9	7	4	DIN374
62119460	14	1	100	22	11	9	4	DIN374
62119260	14	1,5	100	22	11	9	4	DIN374
62120460	16	1	100	22	12	9	4	DIN374
62120360	16	1,5	100	22	12	9	4	DIN374
62121660	18	1,5	110	25	14	11	4	DIN374
62121560	18	2	125	34	14	11	4	DIN374
62123060	20	1,5	125	25	16	12	4	DIN374
62124060	22	1,5	125	25	18	14,5	4	DIN374
62125060	24	1,5	140	28	18	14,5	4	DIN374

A-XPF

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- Powder metal forming tap for through & blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Powder metal for long tool life

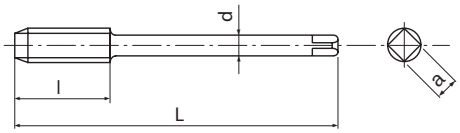
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | PM | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48133162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48133171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48133170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174
48133182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174
48133181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174
48133180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48133193	14	1,25	100	12	11	9	8	13,39 ~ 13,46	DIN2174
48133192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48133203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174
48133216	18	1,5	110	15	14	11	8	17,25 ~ 17,34	DIN2174
48133230	20	1,5	125	15	16	12	8	19,25 ~ 19,34	DIN2174
48133240	22	1,5	125	15	18	14,5	8	21,25 ~ 21,34	DIN2174
48133250	24	1,5	140	15	18	14,5	8	23,25 ~ 23,34	DIN2174

A-OIL-XPF

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- Powder metal forming tap for through & blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Side through coolant

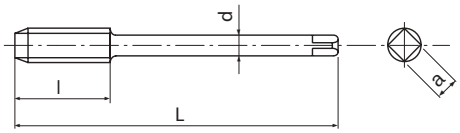
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | PM | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48225162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48225171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48225170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174
48225182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174
48225181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174
48225180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48225193	14	1,25	100	12	11	9	8	13,39 ~ 13,46	DIN2174
48225192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48225203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174
48225216	18	1,5	110	15	14	11	8	17,25 ~ 17,34	DIN2174
48225230	20	1,5	125	15	16	12	8	19,25 ~ 19,34	DIN2174
48225240	22	1,5	125	15	18	14,5	8	21,25 ~ 21,34	DIN2174
48225250	24	1,5	140	15	18	14,5	8	23,25 ~ 23,34	DIN2174

S-XPF

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

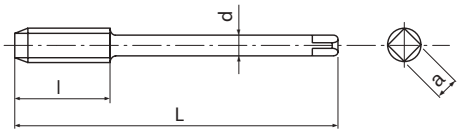
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48030145	4	0,5	63	8	4,5	3,4	4	3,77 ~ 3,82	DIN2174
48030151	5	0,5	70	8	6	4,9	5	4,77 ~ 4,82	DIN2174
48030157	6	0,5	80	8	6	4,9	5	5,79 ~ 5,83	DIN2174
48030156	6	0,75	80	8	6	4,9	5	5,65 ~ 5,71	DIN2174
48030160	7	0,75	80	8	7	5,5	5	6,65 ~ 6,71	DIN2174
48030164	8	0,5	80	10	6	4,9	5	7,79 ~ 7,83	DIN2174
48030163	8	0,75	80	10	6	4,9	5	7,65 ~ 7,71	DIN2174
48030162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48030171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48030170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174
48030182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174
48030181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174
48030180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48030194	14	1	100	15	11	9	8	13,52 ~ 13,60	DIN2174
48030193	14	1,25	100	15	11	9	8	13,39 ~ 13,46	DIN2174
48030192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48030204	16	1	100	15	12	9	8	15,52 ~ 15,60	DIN2174
48030203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174
48030218	18	1	110	15	14	11	8	17,52 ~ 17,60	DIN2174
48030216	18	1,5	110	15	14	11	8	17,25 ~ 17,34	DIN2174
48030232	20	1	125	15	16	12	8	19,52 ~ 19,60	DIN2174
48030230	20	1,5	125	15	16	12	8	19,25 ~ 19,34	DIN2174
48030240	22	1,5	125	15	18	14,5	8	21,25 ~ 21,34	DIN2174
48030250	24	1,5	140	15	18	14,5	8	23,25 ~ 23,34	DIN2174

S-OIL-XPF

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

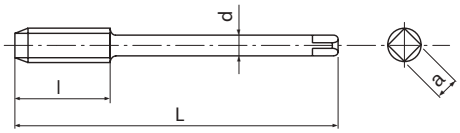
P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48042162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48042171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48042170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174
48042182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174
48042181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174
48042180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48042194	14	1	100	15	11	9	8	13,52 ~ 13,60	DIN2174
48042193	14	1,25	100	12	11	9	8	13,39 ~ 13,46	DIN2174
48042192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48042204	16	1	100	15	12	9	8	15,52 ~ 15,60	DIN2174
48042203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174
48042218	18	1	110	15	14	11	8	17,52 ~ 17,60	DIN2174
48042216	18	1,5	110	15	14	11	8	17,25 ~ 17,34	DIN2174
48042232	20	1	125	15	16	12	8	19,52 ~ 19,60	DIN2174
48071230	20	1,5	125	15	16	12	8	19,25 ~ 19,34	DIN2174
48071240	22	1,5	125	15	18	14,5	8	21,25 ~ 21,34	DIN2174
48071250	24	1,5	140	15	18	14,5	8	23,25 ~ 23,34	DIN2174

S-XPF 6GX

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

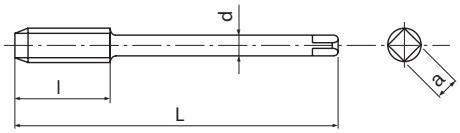
A | MF | HSS-Co | V | ISO 3 6GX | C/2,5 | DIN 2174

EDP	MF	P	oversize	L	l	d	a	Z	Ø	DIN
48086162	8	1	+0,026	90	12	6	4,9	5	7,55 ~ 7,62	DIN2174
48086171	10	1	+0,026	90	12	7	5,5	8	9,54 ~ 9,62	DIN2174
48086170	10	1,25	+0,028	100	12	7	5,5	8	9,40 ~ 9,47	DIN2174
48086182	12	1	+0,026	100	15	9	7	8	11,55 ~ 11,63	DIN2174
48086181	12	1,25	+0,028	100	15	9	7	8	11,41 ~ 11,49	DIN2174
48086180	12	1,5	+0,032	100	15	9	7	8	11,27 ~ 11,36	DIN2174
48086193	14	1,25	+0,028	100	12	11	9	8	13,41 ~ 13,49	DIN2174
48086192	14	1,5	+0,032	100	15	11	9	8	13,27 ~ 13,36	DIN2174
48086203	16	1,5	+0,032	100	15	12	9	8	15,27 ~ 15,36	DIN2174
48086216	18	1,5	+0,032	110	15	14	11	8	17,27 ~ 17,36	DIN2174
48086230	20	1,5	+0,032	125	15	16	12	8	19,27 ~ 19,36	DIN2174
48086240	22	1,5	+0,032	125	15	18	14,5	8	21,27 ~ 21,36	DIN2174
48086250	24	1,5	+0,032	140	15	18	14,5	8	23,29 ~ 23,38	DIN2174

S-OIL-XPF 6GX NEW

Available from January 2018

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- For 6G internal thread tolerance, side through coolant

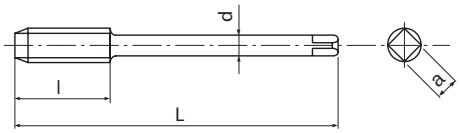
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | HSS-Co | V | ISO 3 6GX | C/2,5 | DIN 2174

EDP	MF	P	oversize	L	l	d	a	Z	Ø	DIN
48293162	8	1	+0,026	90	10	6	4,9	5	7.54 ~ 7.62	DIN2174
48293171	10	1	+0,026	90	10	7	5,5	8	9.54 ~ 9.62	DIN2174
48293170	10	1,25	+0,028	100	12	7	5,5	8	9.40 ~ 9.47	DIN2174
48293182	12	1	+0,026	100	12	9	7	8	11.55 ~ 11.63	DIN2174
48293181	12	1,25	+0,028	100	12	9	7	8	11.41 ~ 11.49	DIN2174
48293180	12	1,5	+0,032	100	15	9	7	8	11.27 ~ 11.36	DIN2174
48293193	14	1,25	+0,028	100	16	11	9	8	13.41 ~ 13.49	DIN2174
48293192	14	1,5	+0,032	100	16	11	9	8	13.27 ~ 13.36	DIN2174
48293203	16	1,5	+0,032	100	15	12	9	8	15.27 ~ 15.36	DIN2174
48293216	18	1,5	+0,032	110	15	14	11	8	17.27 ~ 17.36	DIN2174
48293230	20	1,5	+0,032	125	15	16	12	8	19.27 ~ 19.36	DIN2174
48293240	22	1,5	+0,032	125	15	18	14,5	8	21.27 ~ 21.36	DIN2174
48293250	24	1,5	+0,032	140	15	18	14,5	8	23.29 ~ 23.38	DIN2174

S-XPF FORM D

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form D

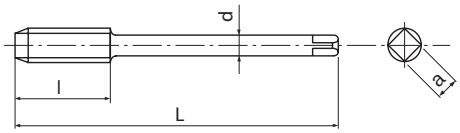
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | HSS-Co | V | ISO 2 6HX | D/4 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48088162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48088171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48088170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174
48088182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174
48088181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174
48088180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48088192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48088203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174
48088216	18	1,5	110	15	14	11	8	17,25 ~ 17,34	DIN2174
48088230	20	1,5	125	15	16	12	8	19,25 ~ 19,34	DIN2174

S-XPF FORM E

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form E

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

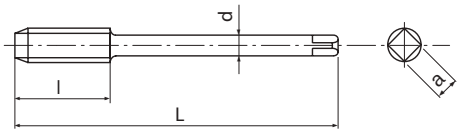
A | MF | HSS-Co | V | ISO 2 6HX | E/1,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48089171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48089180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48089192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48089203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174

S-OIL-XPF FORM E NEW

Available from February 2018

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form E, side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

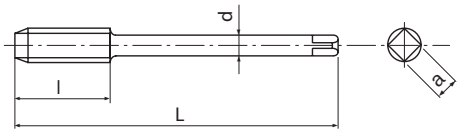
A | MF | HSS-Co | V | ISO 2 6HX | E/1,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48294162	8	1	90	10	6	4,9	5	7.51 ~ 7.59	DIN2174
48294171	10	1	90	10	7	5,5	8	9.51 ~ 9.59	DIN2174
48294170	10	1,25	100	12	7	5,5	8	9.37 ~ 9.45	DIN2174
48294182	12	1	100	12	9	7	8	11.52 ~ 11.60	DIN2174
48294181	12	1,25	100	12	9	7	8	11.39 ~ 11.46	DIN2174
48294180	12	1,5	100	15	9	7	8	11.25 ~ 11.34	DIN2174
48294193	14	1,25	100	16	11	9	8	13.39 ~ 13.46	DIN2174
48294192	14	1,5	100	16	11	9	8	13.25 ~ 13.34	DIN2174
48294203	16	1,5	100	15	12	9	8	15.25 ~ 15.34	DIN2174
48294216	18	1,5	110	15	14	11	8	17.25 ~ 17.34	DIN2174
48294230	20	1,5	125	15	16	12	8	19.25 ~ 19.34	DIN2174
48294240	22	1,5	125	15	18	14,5	8	21.25 ~ 21.34	DIN2174
48294250	24	1,5	140	15	18	14,5	8	23.25 ~ 23.34	DIN2174

S-OIL-LT-XPF NEW

Available from February 2018

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- With long shank for long reach threading, side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

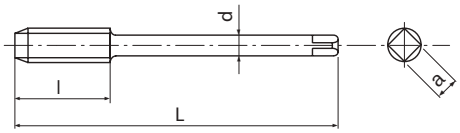
A | MF | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48295162	8	1	180	10	6	4,9	5	7.51 ~ 7.59	DIN2174
48295171	10	1	200	12	7	5,5	8	9.51 ~ 9.59	DIN2174
48295170	10	1,25	200	12	7	5,5	8	9.37 ~ 9.45	DIN2174
48295182	12	1	200	15	9	7	8	11.52 ~ 11.60	DIN2174
48295181	12	1,25	200	15	9	7	8	11.39 ~ 11.46	DIN2174
48295180	12	1,5	200	15	9	7	8	11.25 ~ 11.34	DIN2174
48295193	14	1,25	220	15	11	9	8	13.39 ~ 13.46	DIN2174
48295192	14	1,5	220	15	11	9	8	13.25 ~ 13.34	DIN2174

S-XPF-GL NEW

Available from January 2018

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Without oil grooves for higher rigidity

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	
10-20	10-20	10-20	10-20	8-15	10-15	10-15	m/min

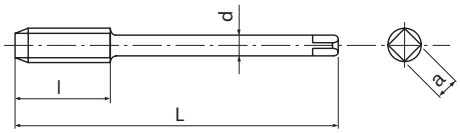
A | MF | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48296162	8	1	90	10	6	4,9	0	7.51 ~ 7.59	DIN2174
48296171	10	1	90	10	7	5,5	0	9.51 ~ 9.59	DIN2174
48296170	10	1,25	100	12	7	5,5	0	9.37 ~ 9.45	DIN2174
48296182	12	1	100	12	9	7	0	11.52 ~ 11.60	DIN2174
48296181	12	1,25	100	12	9	7	0	11.39 ~ 11.46	DIN2174
48296180	12	1,5	100	15	9	7	0	11.25 ~ 11.34	DIN2174
48296193	14	1,25	100	16	11	9	0	13.39 ~ 13.46	DIN2174
48296192	14	1,5	100	16	11	9	0	13.25 ~ 13.34	DIN2174
48296203	16	1,5	100	15	12	9	0	15.25 ~ 15.34	DIN2174
48296216	18	1,5	110	15	14	11	0	17.25 ~ 17.34	DIN2174
48296230	20	1,5	125	15	16	12	0	19.25 ~ 19.34	DIN2174
48296240	22	1,5	125	15	18	14,5	0	21.25 ~ 21.34	DIN2174
48296250	24	1,5	140	15	18	14,5	0	23.25 ~ 23.34	DIN2174

S-XPF-GL 6GX NEW

Available from January 2018

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Without oil grooves for higher rigidity, for 6G internal thread tolerance

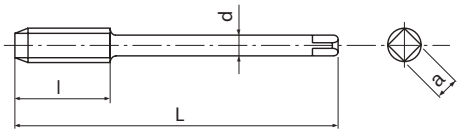
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	
10-20	10-20	10-20	10-20	8-15	10-15	10-15	m/min

A | MF | HSS-Co | V | ISO 3 6GX | C/2,5 | DIN 2174

EDP	MF	P	oversize	L	l	d	a	Z	Ø	DIN
48297162	8	1	+0,026	90	10	6	4,9	0	7.54 ~ 7.62	DIN2174
48297171	10	1	+0,026	90	10	7	5,5	0	9.54 ~ 9.62	DIN2174
48297170	10	1,25	+0,028	100	12	7	5,5	0	9.40 ~ 9.47	DIN2174
48297182	12	1	+0,026	100	12	9	7	0	11.55 ~ 11.63	DIN2174
48297181	12	1,25	+0,028	100	12	9	7	0	11.41 ~ 11.49	DIN2174
48297180	12	1,5	+0,032	100	15	9	7	0	11.27 ~ 11.36	DIN2174
48297193	14	1,25	+0,028	100	16	11	9	0	13.41 ~ 13.49	DIN2174
48297192	14	1,5	+0,032	100	16	11	9	0	13.27 ~ 13.36	DIN2174
48297203	16	1,5	+0,032	100	15	12	9	0	15.27 ~ 15.36	DIN2174
48297216	18	1,5	+0,032	110	15	14	11	0	17.27 ~ 17.36	DIN2174
48297230	20	1,5	+0,032	125	15	16	12	0	19.27 ~ 19.36	DIN2174
48297240	22	1,5	+0,032	125	15	18	14,5	0	21.27 ~ 21.36	DIN2174
48297250	24	1,5	+0,032	140	15	18	14,5	0	23.29 ~ 23.38	DIN2174

C-OIL-XPF

Threading | Forming taps | Metric Fine



- First choice in quality and performance
- Carbide forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

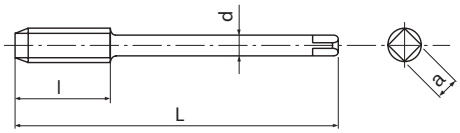
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | MF | CARBIDE | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
48226162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48226171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48226180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48226192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48226203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174

V-NRT

Threading | Forming taps | Metric Fine



- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

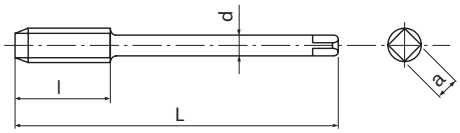
P ◉	P ◉	P ○	P ○	M ◉	N ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
10-15	10-15	10-15	8-12	5-10	10-20	10-20	m/min

MF | HSS-Co | V | ISO 2 6HX | C/2,5 | DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
69716268	8	1	90	22	6	4,9	3	7,51 ~ 7,59	DIN2174
69717168	10	1	90	22	7	5,5	4	9,51 ~ 9,59	DIN2174
69717068	10	1,25	100	24	7	5,5	4	9,37 ~ 9,45	DIN2174
69718268	12	1	100	22	9	7	4	11,52 ~ 11,60	DIN2174
69718168	12	1,25	100	22	9	7	4	11,39 ~ 11,46	DIN2174
69718068	12	1,5	100	22	9	7	4	11,25 ~ 11,34	DIN2174

V-NRT FORM D

Threading | Forming taps | Metric Fine



- HSSE forming tap for through holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form D

P ◉	P ◉	P ○	P ○	M ◉	N ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	
10-15	10-15	10-15	8-12	5-10	10-20	10-20	m/min

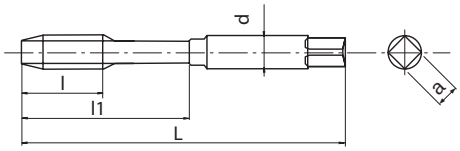
MF	HSS-Co	V	ISO 2 6HX	D/4		DIN 2174

EDP	MF	P	L	l	d	a	Z	Ø	DIN
69816268	8	1	90	22	6	4,9	3	7,51 ~ 7,59	DIN2174
69817168	10	1	90	22	7	5,5	4	9,51 ~ 9,59	DIN2174
69817068	10	1,25	100	24	7	5,5	4	9,37 ~ 9,45	DIN2174
69818268	12	1	100	22	9	7	4	11,52 ~ 11,60	DIN2174
69818168	12	1,25	100	22	9	7	4	11,39 ~ 11,46	DIN2174
69818068	12	1,5	100	22	9	7	4	11,25 ~ 11,34	DIN2174

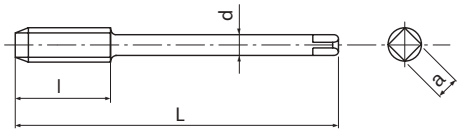
A-POT

Threading | Cutting taps | UNC

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

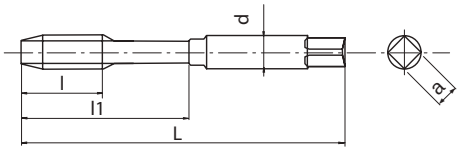
A | UNC | PM | V | ANSI 2BX | B/4 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
48145453	2	56	45	-	9	2,8	2,1	2	1	DIN2184-1
48145455	3	48	50	-	9	2,8	2,1	2	1	DIN2184-1
48145457	4	40	56	11	18	3,5	2,7	2	1	DIN2184-1
48145459	5	40	56	11	18	3,5	2,7	3	1	DIN2184-1
48145461	6	32	56	12	20	4	3	3	1	DIN2184-1
48145464	8	32	63	13	21	4,5	3,4	3	1	DIN2184-1
48145466	10	24	70	16	25	6	4,9	3	1	DIN2184-1
48145468	12	24	80	17	30	6	4,9	3	1	DIN2184-1
48145471	1/4	20	80	19	30	7	5,5	3	1	DIN2184-1
48145474	5/16	18	90	22	35	8	6,2	3	1	DIN2184-1
48145479	3/8	16	100	24	39	10	8	3	1	DIN2184-1
48145484	7/16	14	100	24	-	8	6,2	3	2	DIN2184-1
48145489	1/2	13	110	28	-	9	7	3	2	DIN2184-1
48145494	9/16	12	110	30	-	11	9	3	2	DIN2184-1
48145501	5/8	11	110	32	-	12	9	3	2	DIN2184-1
48145515	3/4	10	125	34	-	14	11	3	2	DIN2184-1
48145526	7/8	9	140	34	-	18	14,5	3	2	DIN2184-1
48145538	1	8	160	38	-	18	14,5	3	2	DIN2184-1

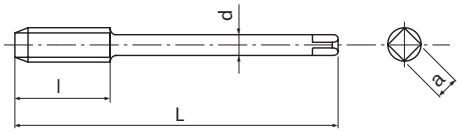
S-POT NEW

Threading | Cutting taps | UNC

Type 1



Type 2



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

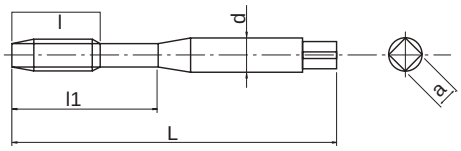
UNC | HSSE | OX | ANSI 2B | B/4 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
48224453	2	56	45	-	9	2,8	2,1	2	1	DIN2184-1
48224455	3	48	50	-	9	2,8	2,1	2	1	DIN2184-1
48224457	4	40	56	11	18	3,5	2,7	2	1	DIN2184-1
48224459	5	40	56	11	18	3,5	2,7	3	1	DIN2184-1
48224461	6	32	56	12	20	4	3	3	1	DIN2184-1
48224464	8	32	63	13	21	4,5	3,4	3	1	DIN2184-1
48224466	10	24	70	16	25	6	4,9	3	1	DIN2184-1
48224468	12	24	80	17	30	6	4,9	3	1	DIN2184-1
48224471	1/4	20	80	19	30	7	5,5	3	1	DIN2184-1
48224474	5/16	18	90	22	35	8	6,2	3	1	DIN2184-1
48224479	3/8	16	100	24	39	10	8	3	1	DIN2184-1
48224484	7/16	14	100	24	-	8	6,2	3	2	DIN2184-1
48224489	1/2	13	110	28	-	9	7	3	2	DIN2184-1
48224494	9/16	12	110	30	-	11	9	3	2	DIN2184-1
48224501	5/8	11	110	32	-	12	9	3	2	DIN2184-1
48224515	3/4	10	125	34	-	14	11	3	2	DIN2184-1
48224526	7/8	9	140	34	-	18	14,5	3	2	DIN2184-1
48224538	1	8	160	38	-	18	14,5	3	2	DIN2184-1

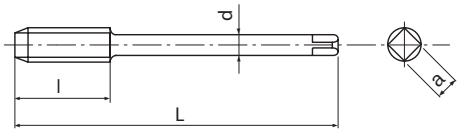
VA-POT

Threading | Cutting taps | UNC

Type 1



Type 2



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG
15-24	10-15	10-15	8-13	8-16	10-15

m/min

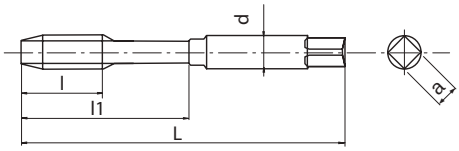
UNC | HSSE | OX | ANSI 2B | B/4 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
74845720	4	40	56	-	18	3,5	2,7	2	1	DIN2184-1
74845920	5	40	56	-	18	3,5	2,7	3	1	DIN2184-1
74846130	6	32	56	-	20	4	3,0	3	1	DIN2184-1
74846430	8	32	63	-	21	4,5	3,4	3	1	DIN2184-1
74846630	10	24	70	-	25	6	4,9	3	1	DIN2184-1
74847150	1/4	20	80	-	30	7	5,5	3	1	DIN2184-1
74847450	5/16	18	90	-	35	8	6,2	3	1	DIN2184-1
74847950	3/8	16	90	-	35	9	7	3	1	DIN2184-1
75148450	7/16	14	100	24	-	8	6,2	3	2	DIN2184-1
75148950	1/2	13	110	29	-	9	7	3	2	DIN2184-1
75149450	9/16	12	110	30	-	11	9	3	2	DIN2184-1
75150150	5/8	11	110	32	-	12	9	3	2	DIN2184-1
75151550	3/4	10	125	34	-	14	11	3	2	DIN2184-1
75152660	7/8	9	140	34	-	18	14,5	3	2	DIN2184-1
75153860	1	8	160	38	-	18	14,5	3	2	DIN2184-1

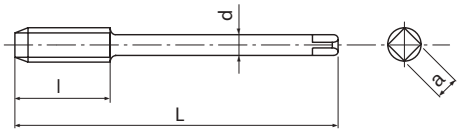
A-SFT

Threading | Cutting taps | UNC

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

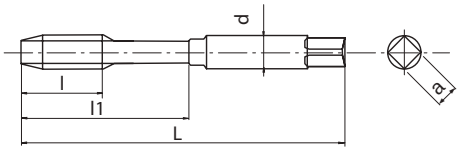
A	UNC	PM	V	45°	ANSI 2BX	C/2,5		DIN 2184-1	DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
48139453	2	56	45	3,6	11	2,8	2,1	2	1	DIN2184-1
48139455	3	48	50	3,6	13	2,8	2,1	2	1	DIN2184-1
48139457	4	40	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48139459	5	40	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48139461	6	32	56	6,4	20	4	3	2	1	DIN2184-1
48139464	8	32	63	6,4	21	4,5	3,4	2	1	DIN2184-1
48139466	10	24	70	8,5	25	6	4,9	2	1	DIN2184-1
48139468	12	24	80	8,5	30	6	4,9	2	1	DIN2184-1
48139471	1/4	20	80	10,2	30	7	5,5	2	1	DIN2184-1
48139474	5/16	18	90	11,3	35	8	6,2	3	1	DIN2184-1
48139479	3/8	16	100	12,7	39	10	8	3	1	DIN2184-1
48139484	7/16	14	100	14,5	-	8	6,2	3	2	DIN2184-1
48139489	1/2	13	110	15,6	-	9	7	3	2	DIN2184-1
48139494	9/16	12	110	16,9	-	11	9	3	2	DIN2184-1
48139501	5/8	11	110	18,5	-	12	9	3	2	DIN2184-1
48139515	3/4	10	125	25,4	-	14	11	4	2	DIN2184-1
48139526	7/8	9	140	28,2	-	18	14,5	4	2	DIN2184-1
48139538	1	8	160	31,8	-	18	14,5	4	2	DIN2184-1

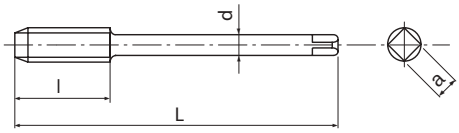
S-SFT NEW

Threading | Cutting taps | UNC

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

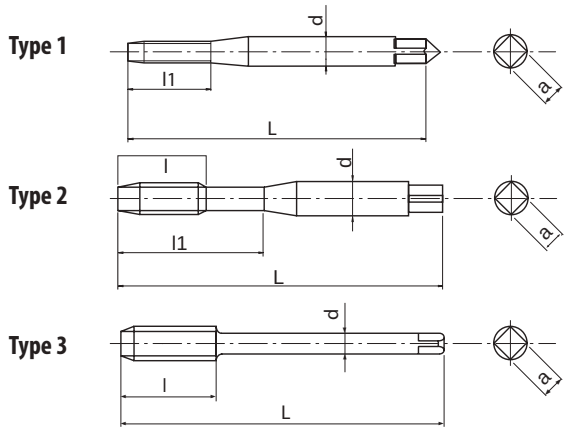
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

UNC | HSSE | OX | 40° | ANSI 2B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
48223453	2	56	45	3,6	11	2,8	2,1	2	1	DIN2184-1
48223455	3	48	50	3,6	13	2,8	2,1	2	1	DIN2184-1
48223457	4	40	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48223459	5	40	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48223461	6	32	56	6,4	20	4	3	2	1	DIN2184-1
48223464	8	32	63	6,4	21	4,5	3,4	2	1	DIN2184-1
48223466	10	24	70	8,5	25	6	4,9	2	1	DIN2184-1
48223468	12	24	80	8,5	30	6	4,9	2	1	DIN2184-1
48223471	1/4	20	80	10,2	30	7	5,5	2	1	DIN2184-1
48223474	5/16	18	90	11,3	35	8	6,2	3	1	DIN2184-1
48223479	3/8	16	100	12,7	39	10	8	3	1	DIN2184-1
48223484	7/16	14	100	14,5	-	8	6,2	3	2	DIN2184-1
48223489	1/2	13	110	15,6	-	9	7	3	2	DIN2184-1
48223494	9/16	12	110	16,9	-	11	9	3	2	DIN2184-1
48223501	5/8	11	110	18,5	-	12	9	3	2	DIN2184-1
48223515	3/4	10	125	25,4	-	14	11	4	2	DIN2184-1
48223526	7/8	9	140	28,2	-	18	14,5	4	2	DIN2184-1
48223538	1	8	160	31,8	-	18	14,5	4	2	DIN2184-1
48223997	1 1/8	7	180	36	-	22	18	4	2	DIN2184-1
48223998	1 1/4	7	180	36	-	22	18	4	2	DIN2184-1
48223999	1 1/2	6	200	42	-	28	22	4	2	DIN2184-1

VA-SFT

Threading | Cutting taps | UNC



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

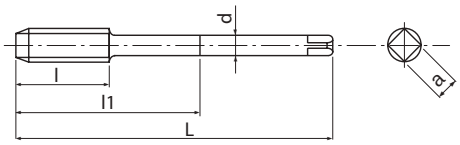
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

UNC | HSSE | OX | 40° | ANSI 2B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
74945730	4	40	56	-	11	3,5	2,7	2	1	DIN2184-1
74945930	5	40	56	-	18	3,5	2,7	3	2	DIN2184-1
74946130	6	32	56	-	20	4	3	3	2	DIN2184-1
74946430	8	32	63	-	21	4,5	3,4	3	2	DIN2184-1
74946630	10	24	70	-	25	6	4,9	3	2	DIN2184-1
74947150	1/4	20	80	-	30	7	5,5	3	2	DIN2184-1
74947450	5/16	18	90	-	35	8	6,2	3	2	DIN2184-1
74947950	3/8	16	100	-	35	9	7	3	2	DIN2184-1
75248450	7/16	14	100	19	-	8	6,2	4	3	DIN2184-1
75248950	1/2	13	110	20	-	9	7	4	3	DIN2184-1
75249450	9/16	12	110	22	-	11	9	4	3	DIN2184-1
75250150	5/8	11	110	24	-	12	9	4	3	DIN2184-1
75251550	3/4	10	125	26	-	14	11	4	3	DIN2184-1
75252660	7/8	9	140	29	-	18	14,5	4	3	DIN2184-1
75253860	1	8	160	32	-	18	14,5	5	3	DIN2184-1

HXL-SFT

Threading | Cutting taps | UNC



- HSSE low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For steels and cast iron
- For horizontal applications in oil and heavy industry

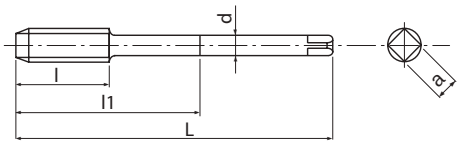
P ○	P ○	P ◉	P ◉	M ○	K ◉	K ◉	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	25-35 HRC	
8-13	7-12	7-12	6-9	5-8	7-12	7-12	3-5	m/min

UN | UNC | HSSE | 0X | 15° | ANSI 2B | C/2,5

EDP	Tap size	UN	UNC	L	l	l1	d	a	Z
48050515	3/4	-	10	125	20,3	61,8	14	11	4
48050526	7/8	-	9	140	22,6	75	18	14,5	4
48050538	1	-	8	160	25,4	90	18	14,5	5
48050551	1 1/8	-	7	180	29	100	22	18	5
48050552	1 1/8	8	-	180	25,4	100	22	18	5
48050564	1 1/4	-	7	180	29	100	22	18	5
48050565	1 1/4	8	-	180	25,4	100	22	18	5
48050577	1 3/8	-	6	200	33,9	115	28	22	5
48050578	1 3/8	8	-	200	25,4	115	28	22	5
48050591	1 1/2	-	6	200	33,9	115	32	24	5
48050592	1 1/2	8	-	200	25,4	115	32	24	5
48050605	1 5/8	8	-	200	25,4	110	32	24	6
48050618	1 3/4	8	-	200	25,4	110	36	29	6
48050628	1 7/8	8	-	225	25,4	125	36	29	6
48050639	2	8	-	225	25,4	125	40	32	6
48050661	2 1/2	8	-	275	25,4	150	50	39	6

VXL-SFT

Threading | Cutting taps | UNC



- HSSE high spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For general steels
- For vertical applications in oil and heavy industry

P ○	P ○	P ◉	P ◉	M ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	25-35 HRC	
8-13	7-12	7-12	6-9	5-8	3-5	m/min

UN | UNC | HSSE | OX | 45° | ANSI 2B | C/2,5

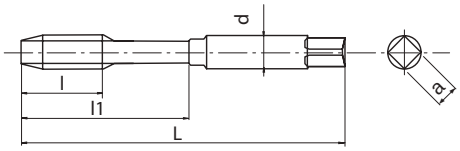
EDP	Tap size	UN	UNC	L	l	l1	d	a	Z
48051515	3/4	-	10	125	20,3	61,8	14	11	4
48051526	7/8	-	9	140	22,6	75	18	14,5	4
48051538	1	-	8	160	25,4	90	18	14,5	5
48051551	1 1/8	-	7	180	29	100	22	18	5
48051552	1 1/8	8	-	180	25,4	100	22	18	5
48051564	1 1/4	-	7	180	29	100	22	18	5
48051565	1 1/4	8	-	180	25,4	100	22	18	5
48051577	1 3/8	-	6	200	33,9	115	28	22	5
48051578	1 3/8	8	-	200	25,4	115	28	22	5
48051591	1 1/2	-	6	200	33,9	115	32	24	5
48051592	1 1/2	8	-	200	25,4	115	32	24	5
48051605	1 5/8	8	-	200	25,4	110	32	24	6
48051618	1 3/4	8	-	200	25,4	110	36	29	6
48051628	1 7/8	8	-	225	25,4	125	36	29	6
48051639	2	8	-	225	25,4	125	40	32	6
48051661	2 1/2	8	-	275	25,4	150	50	39	6

VP-DC-MT NEW

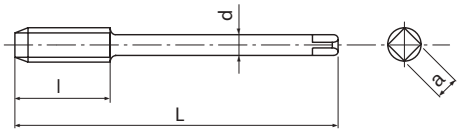
Available from February 2018

Threading | Cutting taps | UNC

Type 1



Type 2



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min

P ○	P ○	K ◉	K ◉	N ◉	H ○	H ○	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

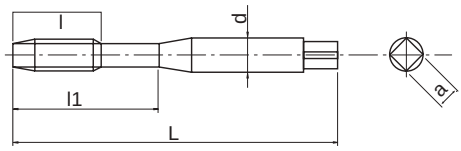
UNC | PM | V | ANSI 2BX | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Type	DIN
48020453	2	56	45	9		2,8	2,1	3	1	DIN2184-1
48020455	3	48	50	9		2,8	2,1	3	1	DIN2184-1
48020457	4	40	56	8	18	3,5	2,7	3	1	DIN2184-1
48020459	5	40	56	8	18	3,5	2,7	3	1	DIN2184-1
48020461	6	32	56	10	20	4	3	3	1	DIN2184-1
48020464	8	32	63	10	21	4,5	3,4	3	1	DIN2184-1
48020466	10	24	70	13	25	6	4,9	3	1	DIN2184-1
48020468	12	24	80	13	30	6	4,9	3	1	DIN2184-1
48020471	1/4	20	80	16	30	7	5,5	3	1	DIN2184-1
48020474	5/16	18	90	17	35	8	6,2	4	1	DIN2184-1
48020479	3/8	16	100	20	39	10	8	4	1	DIN2184-1
48020484	7/16	14	100	22	-	8	6,2	4	2	DIN2184-1
48020489	1/2	13	110	24	-	9	7	4	2	DIN2184-1
48020494	9/16	12	110	26	-	11	9	4	2	DIN2184-1
48020501	5/8	11	110	28	-	12	9	4	2	DIN2184-1
48020515	3/4	10	125	31	-	14	11	4	2	DIN2184-1
48020526	7/8	9	140	34	-	18	14,5	5	2	DIN2184-1
48020538	1	8	160	38	-	18	14,5	5	2	DIN2184-1

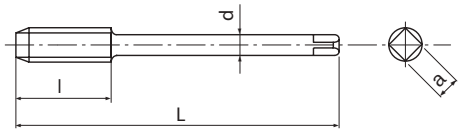
S-XPF

Threading | Forming taps | UNC

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | UNC | HSS-Co | V | ANSI 2BX | C/2,5 | DIN 2184-1 | DIN 2184-1

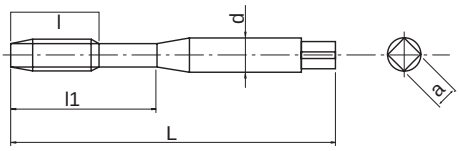
EDP	UNC	P	L	l	l1	d	a	Z	Ø	Type	DIN
48091459	5	40	56	-	18	3,5	2,7	4	2,86 ~ 2,93	1	DIN2184-1
48091461	6	32	56	-	20	4	3	4	3,09 ~ 3,17	1	DIN2184-1
48091464	8	32	63	-	21	4,5	3,4	4	3,76 ~ 3,84	1	DIN2184-1
48091466	10	24	70	-	25	6	4,9	5	4,26 ~ 4,35	1	DIN2184-1
48091471	1/4	20	80	-	30	7	5,5	5	5,66 ~ 5,76	1	DIN2184-1
48091474	5/16	18	90	-	35	8	6,2	5	7,18 ~ 7,29	1	DIN2184-1
48091479	3/8	16	100	-	35	9	7	8	8,66 ~ 8,78	1	DIN2184-1
48091484	7/16	14	100	18,1	-	8	6,2	8	10,12 ~ 10,27	2	DIN2184-1
48091489	1/2	13	110	19,5	-	9	7	8	11,62 ~ 11,78	2	DIN2184-1
48091494	9/16	12	110	21,1	-	11	9	8	13,14 ~ 13,28	2	DIN2184-1
48091501	5/8	11	110	23,1	-	12	9	8	14,61 ~ 14,76	2	DIN2184-1
48091515	3/4	10	125	20,3	-	14	11	8	17,65 ~ 17,80	2	DIN2184-1
48091526	7/8	9	140	22,6	-	18	14,5	8	20,66 ~ 20,84	2	DIN2184-1
48091538	1	8	160	25,4	-	18	14,5	8	23,63 ~ 23,84	2	DIN2184-1

S-OIL-XPF NEW

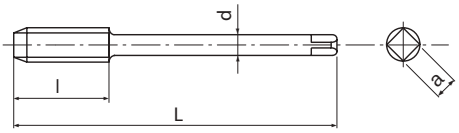
Available from February 2018

Threading | Forming taps | UNC

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

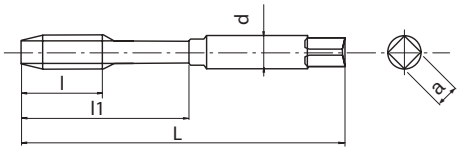
A | UNC | HSS-Co | V | ANSI 2BX | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNC	P	L	l	l1	d	a	Z	Ø	Type	DIN
48042471	1/4	20	80	13	30	7	5,5	5	5.66 ~ 5.76	1	DIN2184-1
48042474	5/16	18	90	14	35	8	6,2	5	7.18 ~ 7.29	1	DIN2184-1
48042479	3/8	16	100	11	39	10	8	8	8.66 ~ 8.78	1	DIN2184-1
48042484	7/16	14	100	14	-	8	6,2	8	10.12 ~ 10.27	2	DIN2184-1
48042489	1/2	13	110	20	-	9	7	8	11.62 ~ 11.78	2	DIN2184-1
48042494	9/16	12	110	22	-	11	9	8	13.14 ~ 13.28	2	DIN2184-1
48042501	5/8	11	110	14	-	12	9	8	14.61 ~ 14.76	2	DIN2184-1
48042515	3/4	10	125	25,4	-	14	11	8	17.65 ~ 17.80	2	DIN2184-1
48042526	7/8	9	140	24	-	18	14,5	8	20.66 ~ 20.84	2	DIN2184-1
48042538	1	8	160	31,8	-	18	14,5	8	23.63 ~ 23.84	2	DIN2184-1

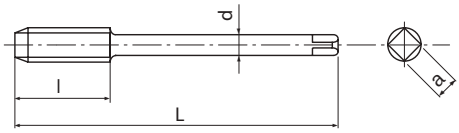
A-POT

Threading | Cutting taps | UNF

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | UNF | PM | V | ANSI 2BX | B/4 | DIN 2184-1 | DIN 2184-1

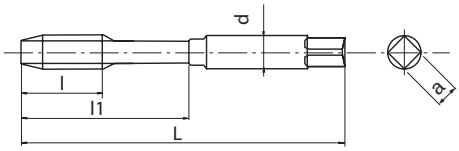
EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
48145454	2	64	45	-	9	2,8	2,1	2	1	DIN2184-1
48145456	3	56	50	-	9	2,8	2,1	2	1	DIN2184-1
48145458	4	48	56	11	18	3,5	2,7	2	1	DIN2184-1
48145460	5	44	56	11	18	3,5	2,7	3	1	DIN2184-1
48145462	6	40	56	12	20	4	3	3	1	DIN2184-1
48145465	8	36	63	13	21	4,5	3,4	3	1	DIN2184-1
48145467	10	32	70	16	25	6	4,9	3	1	DIN2184-1
48145469	12	28	80	17	30	6	4,9	3	1	DIN2184-1
48145472	1/4	28	80	19	30	7	5,5	3	1	DIN2184-1
48145476	5/16	24	90	22	35	8	6,2	3	1	DIN2184-1
48145481	3/8	24	90	20	35	10	8	3	1	DIN2184-1
48145486	7/16	20	100	24	-	8	6,2	3	2	DIN2184-1
48145491	1/2	20	100	22	-	9	7	3	2	DIN2184-1
48145496	9/16	18	100	22	-	11	9	3	2	DIN2184-1
48145504	5/8	18	100	22	-	12	9	3	2	DIN2184-1
48145517	3/4	16	110	25	-	14	11	3	2	DIN2184-1
48145528	7/8	14	125	25	-	18	14,5	3	2	DIN2184-1
48145539	1	12	140	28	-	18	14,5	3	2	DIN2184-1

S-POT NEW

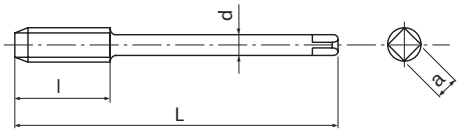
Available from December 2017

Threading | Cutting taps | UNF

Type 1



Type 2



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

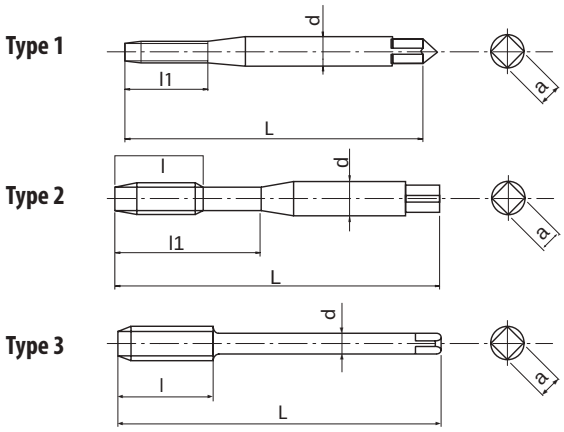
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

UNF | HSSE | OX | ANSI 2B | B/4 | DIN 2184-1 | DIN 2184-1

EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
48224454	2	64	45	-	9	2,8	2,1	2	1	DIN2184-1
48224456	3	56	50	-	9	2,8	2,1	2	1	DIN2184-1
48224458	4	48	56	11	18	3,5	2,7	2	1	DIN2184-1
48224460	5	44	56	11	18	3,5	2,7	3	1	DIN2184-1
48224462	6	40	56	12	20	4	3	3	1	DIN2184-1
48224465	8	36	63	13	21	4,5	3,4	3	1	DIN2184-1
48224467	10	32	70	16	25	6	4,9	3	1	DIN2184-1
48224469	12	28	80	17	30	6	4,9	3	1	DIN2184-1
48224472	1/4	28	80	19	30	7	5,5	3	1	DIN2184-1
48224476	5/16	24	90	22	35	8	6,2	3	1	DIN2184-1
48224481	3/8	24	90	20	35	10	8	3	1	DIN2184-1
48224486	7/16	20	100	24	-	8	6,2	3	2	DIN2184-1
48224491	1/2	20	100	22	-	9	7	3	2	DIN2184-1
48224496	9/16	18	100	22	-	11	9	3	2	DIN2184-1
48224504	5/8	18	100	22	-	12	9	3	2	DIN2184-1
48224517	3/4	16	110	25	-	14	11	3	2	DIN2184-1
48224528	7/8	14	125	25	-	18	14,5	3	2	DIN2184-1
48224539	1	12	140	28	-	18	14,5	3	2	DIN2184-1

VA-POT

Threading | Cutting taps | UNF



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

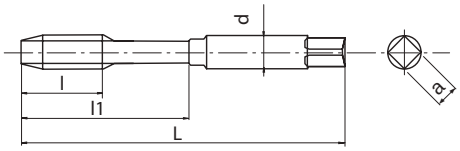
UNF | HSSE | OX | ANSI 2B | B/4 | DIN 2184-1 | DIN 2184-1

EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
75146220	6	40	56	-	13	4	3	3	1	DIN2184-1
75146730	10	32	70	-	25	6	4,9	3	2	DIN2184-1
75147240	1/4	28	80	-	30	7	5,5	3	2	DIN2184-1
75147640	5/16	24	90	-	35	8	6,2	3	2	DIN2184-1
75148140	3/8	24	90	-	35	9	7	3	2	DIN2184-1
75148650	7/16	20	100	20	-	8	6,2	3	3	DIN2184-1
75149150	1/2	20	100	22	-	9	7	3	3	DIN2184-1
75149650	9/16	18	100	22	-	11	9	3	3	DIN2184-1
75150450	5/8	18	100	22	-	12	9	3	3	DIN2184-1
75151750	3/4	16	110	25	-	14	11	3	3	DIN2184-1
75152860	7/8	14	125	25	-	18	14,5	3	3	DIN2184-1
75153960	1	12	125	25	-	18	14,5	3	3	DIN2184-1

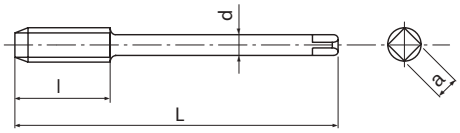
A-SFT

Threading | Cutting taps | UNF

Type 1



Type 2



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A	UNF	PM	V	45°	ANSI 2BX	C/2,5		DIN 2184-1	DIN 2184-1

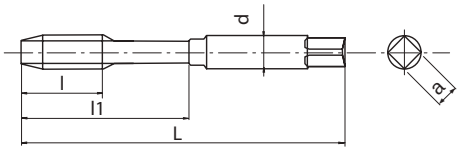
EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
48139454	2	64	45	3,6	11	2,8	2,1	2	1	DIN2184-1
48139456	3	56	50	3,6	13	2,8	2,1	2	1	DIN2184-1
48139458	4	48	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48139460	5	44	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48139462	6	40	56	6,4	20	4	3	2	1	DIN2184-1
48139465	8	36	63	6,4	21	4,5	3,4	2	1	DIN2184-1
48139467	10	32	70	8,5	25	6	4,9	2	1	DIN2184-1
48139469	12	28	80	8,5	30	6	4,9	2	1	DIN2184-1
48139472	1/4	28	80	10,2	30	7	5,5	2	1	DIN2184-1
48139476	5/16	24	90	11,3	35	8	6,2	3	1	DIN2184-1
48139481	3/8	24	90	12,7	35	10	8	3	1	DIN2184-1
48139486	7/16	20	100	14,5	-	8	6,2	3	2	DIN2184-1
48139491	1/2	20	100	15,6	-	9	7	3	2	DIN2184-1
48139496	9/16	18	100	16,9	-	11	9	3	2	DIN2184-1
48139504	5/8	18	100	18,5	-	12	9	3	2	DIN2184-1
48139517	3/4	16	110	25,4	-	14	11	4	2	DIN2184-1
48139528	7/8	14	125	28,2	-	18	14,5	4	2	DIN2184-1
48139539	1	12	140	31,8	-	18	14,5	4	2	DIN2184-1

S-SFT NEW

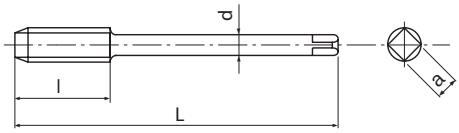
Available from December 2017

Threading | Cutting taps | UNF

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

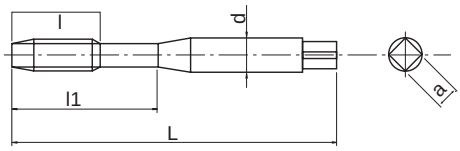
UNF | HSSE | 0X | 40° | ANSI 2B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
48223454	2	64	45	3,6	11	2,8	2,1	2	1	DIN2184-1
48223456	3	56	50	3,6	13	2,8	2,1	2	1	DIN2184-1
48223458	4	48	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48223460	5	44	56	5,1	18	3,5	2,7	2	1	DIN2184-1
48223462	6	40	56	6,4	20	4	3	2	1	DIN2184-1
48223465	8	36	63	6,4	21	4,5	3,4	2	1	DIN2184-1
48223467	10	32	70	8,5	25	6	4,9	2	1	DIN2184-1
48223469	12	28	80	8,5	30	6	4,9	2	1	DIN2184-1
48223472	1/4	28	80	10,2	30	7	5,5	2	1	DIN2184-1
48223476	5/16	24	90	11,3	35	8	6,2	3	1	DIN2184-1
48223481	3/8	24	90	12,7	35	10	8	3	1	DIN2184-1
48223486	7/16	20	100	14,5	-	8	6,2	3	2	DIN2184-1
48223491	1/2	20	100	15,6	-	9	7	3	2	DIN2184-1
48223496	9/16	18	100	16,9	-	11	9	3	2	DIN2184-1
48223504	5/8	18	100	18,5	-	12	9	3	2	DIN2184-1
48223517	3/4	16	110	25,4	-	14	11	4	2	DIN2184-1
48223528	7/8	14	125	28,2	-	18	14,5	4	2	DIN2184-1
48223539	1	12	140	31,8	-	18	14,5	4	2	DIN2184-1

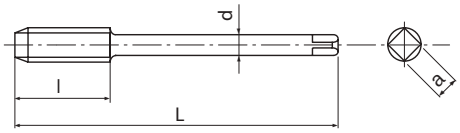
VA-SFT

Threading | Cutting taps | UNF

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG
10-15	8-14	8-14	7-11	7-12	7-14

m/min

UNF | HSSE | 0X | 40° | ANSI 2B | C/2,5 | DIN 2184-1 | DIN 2184-1

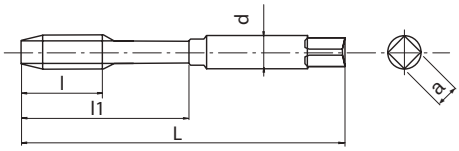
EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
75246220	6	40	56	-	20	4	3	3	1	DIN2184-1
75246730	10	32	70	-	25	6	4,9	3	1	DIN2184-1
75247240	1/4	28	80	-	30	7	5,5	3	1	DIN2184-1
75247640	5/16	24	90	-	35	8	6,2	3	1	DIN2184-1
75248140	3/8	24	90	-	35	9	7	3	1	DIN2184-1
75248650	7/16	20	100	15	-	8	6,2	4	2	DIN2184-1
75249150	1/2	20	100	16	-	9	7	4	2	DIN2184-1
75249650	9/16	18	100	17	-	11	9	4	2	DIN2184-1
75250450	5/8	18	100	18	-	12	9	4	2	DIN2184-1
75251750	3/4	16	110	21	-	14	11	4	2	DIN2184-1
75252860	7/8	14	125	23	-	18	14,5	4	2	DIN2184-1
75253960	1	12	125	25	-	18	14,5	5	2	DIN2184-1

VP-DC-MT NEW

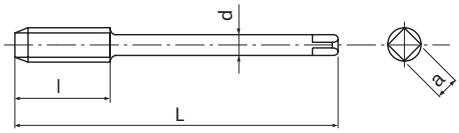
Available from February 2018

Threading | Cutting taps | UNF

Type 1



Type 2



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min

P	P	K	K	N	H	H	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

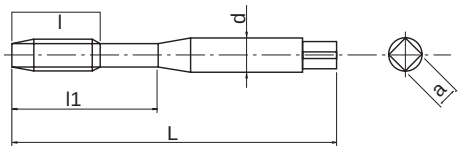
UNF | PM | V | ANSI 2BX | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNF	P	L	l	l1	d	a	Z	Type	DIN
48020454	2	64	45	9	-	2,8	2,1	3	1	DIN2184-1
48020456	3	56	50	9	-	2,8	2,1	3	1	DIN2184-1
48020458	4	48	56	8	18	3,5	2,7	3	1	DIN2184-1
48020460	5	44	56	8	18	3,5	2,7	3	1	DIN2184-1
48020462	6	40	56	10	20	4	3	3	1	DIN2184-1
48020465	8	36	63	10	21	4,5	3,4	3	1	DIN2184-1
48020467	10	32	70	13	25	6	4,9	3	1	DIN2184-1
48020469	12	28	80	13	30	6	4,9	3	1	DIN2184-1
48020472	1/4	28	80	16	30	7	5,5	3	1	DIN2184-1
48020476	5/16	24	90	17	35	8	6,2	4	1	DIN2184-1
48020481	3/8	24	90	20	35	10	8	4	1	DIN2184-1
48020486	7/16	20	100	22	-	8	6,2	4	2	DIN2184-1
48020491	1/2	20	100	24	-	9	7	4	2	DIN2184-1
48020496	9/16	18	100	26	-	11	9	4	2	DIN2184-1
48020504	5/8	18	100	28	-	12	9	4	2	DIN2184-1
48020517	3/4	16	110	31	-	14	11	4	2	DIN2184-1
48020528	7/8	14	125	23	-	18	14,5	5	2	DIN2184-1
48020539	1	12	140	25	-	18	14,5	5	2	DIN2184-1

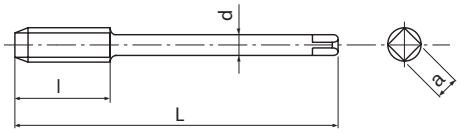
S-XPF

Threading | Forming taps | UNF

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

P	P	P	P	M	N	N	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A | UNF | HSS-Co | V | ANSI 2BX | C/2,5 | DIN 2184-1 | DIN 2184-1

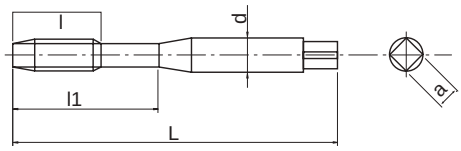
EDP	UNF	P	L	l	l1	d	a	Z	Ø	Type	DIN
48091462	6	40	56	-	20	4	3	4	3,19 ~ 3,26	1	DIN2184-1
48091467	10	32	70	-	25	6	4,9	5	4,41 ~ 4,47	1	DIN2184-1
48091472	1/4	28	80	-	30	7	5,5	5	5,87 ~ 5,94	1	DIN2184-1
48091476	5/16	24	90	-	35	8	6,2	5	7,39 ~ 7,47	1	DIN2184-1
48091481	3/8	24	90	-	35	9	7	8	8,98 ~ 9,06	1	DIN2184-1
48091486	7/16	20	100	12,7	-	8	6,2	8	10,45 ~ 10,55	2	DIN2184-1
48091491	1/2	20	100	12,7	-	9	7	8	12,04 ~ 12,14	2	DIN2184-1
48091496	9/16	18	100	14,1	-	11	9	8	13,56 ~ 13,64	2	DIN2184-1
48091504	5/8	18	100	14,1	-	12	9	8	15,15 ~ 15,23	2	DIN2184-1
48091517	3/4	16	110	12,7	-	14	12	8	18,22 ~ 18,30	2	DIN2184-1
48091528	7/8	14	125	14,5	-	18	14,5	8	21,27 ~ 21,38	2	DIN2184-1
48091539	1	12	125	16,9	-	18	14,5	8	24,26 ~ 24,37	2	DIN2184-1

S-OIL-XPF NEW

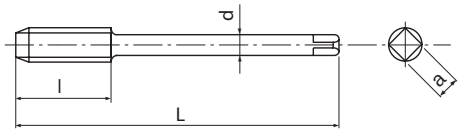
Available from February 2018

Threading | Forming taps | UNF

Type 1



Type 2



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

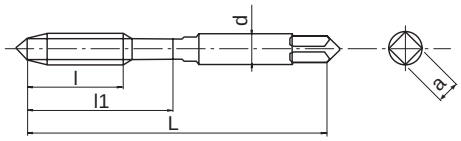
A | UNF | HSS-Co | V | ANSI 2BX | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNF	P	L	l	l1	d	a	Z	Ø	Type	DIN
48042472	1/4	28	80	9,1	30	7	5,5	5	5.87 ~ 5.94	1	DIN2184-1
48042476	5/16	24	90	10,6	35	8	6,2	5	7.39 ~ 7.47	1	DIN2184-1
48042481	3/8	24	90	10,6	35	10	8	8	8.98 ~ 9.06	1	DIN2184-1
48042486	7/16	20	100	12,7	-	8	6,2	8	10.45 ~ 10.55	2	DIN2184-1
48042491	1/2	20	100	12,7	-	9	7	8	12.04 ~ 12.14	2	DIN2184-1
48042496	9/16	18	100	14,1	-	11	9	8	13.56 ~ 13.64	2	DIN2184-1
48042504	5/8	18	100	14,1	-	12	9	8	15.15 ~ 15.23	2	DIN2184-1
48042517	3/4	16	110	12,7	-	14	11	8	18.22 ~ 18.30	2	DIN2184-1
48042528	7/8	14	125	14,5	-	18	14,5	8	21.27 ~ 21.38	2	DIN2184-1
48042539	1	12	140	16,9	-	18	14,5	8	24.26 ~ 24.37	2	DIN2184-1

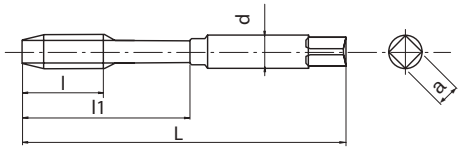
CC-NEO-SFT

Threading | Cutting taps | MJ

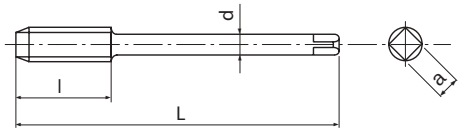
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- TIN coating
- For general steels, stainless steels and aluminium
- Variable helix for better chip evacuation

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

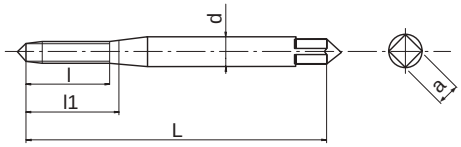
MJ | HSSE | TiN | 45° | ISO 1 4H | C/2,5 | ≥2D | DIN 371 | DIN 376

EDP	MJ	P	L	l	l1	d	a	Z	Drill hole size	Type	DIN
48242125	2	0,4	45	-	8	2,8	2,1	2	1,610 ~ 1,722	1	DIN371
48242138	3	0,5	56	-	18	3,5	2,7	2	2,513 ~ 2,653	2	DIN371
48242144	4	0,7	63	-	21	4,5	3,4	2	3,318 ~ 3,498	2	DIN371
48242149	5	0,8	70	-	25	6	4,9	2	4,221 ~ 4,421	2	DIN371
48242155	6	1	80	-	30	6	4,9	2	5,026 ~ 5,216	2	DIN371
48242161	8	1,25	90	-	35	8	6,2	3	6,782 ~ 6,994	2	DIN371
48242169	10	1,5	100	-	39	10	8	3	8,539 ~ 8,775	2	DIN371
48242179	12	1,75	110	13	-	9	7	3	10,295 ~ 10,560	3	DIN376

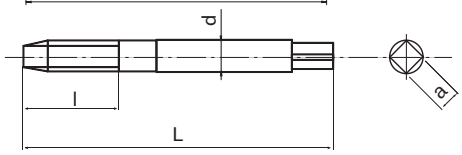
V-TI-SFT

Threading | Cutting taps | MJ

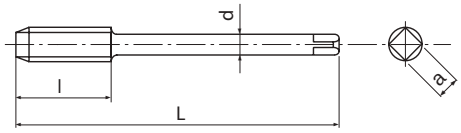
Type 1



Type 2



Type 3



- Powder metal low spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

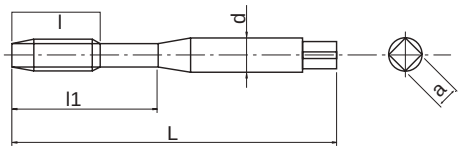
3-5 m/min

MJ | PM | V | 10° | ISO 1 4H | C/2,5 | DIN 371 | DIN 376

EDP	MJ	P	L	l	l1	d	a	Z	Drill hole size	Type	DIN
48241125	2	0,4	45	-	8	2,8	2,1	2	1,610 ~ 1,722	1	DIN371
48241138	3	0,5	56	-	11	3,5	2,7	3	2,513 ~ 2,653	2	DIN371
48241144	4	0,7	63	-	14	4,5	3,4	3	3,318 ~ 3,498	2	DIN371
48241149	5	0,8	70	-	17	6	4,9	3	4,221 ~ 4,421	2	DIN371
48241155	6	1	80	-	21	6	4,9	3	5,026 ~ 5,216	2	DIN371
48241161	8	1,25	90	-	28	8	6,2	3	6,782 ~ 6,994	2	DIN371
48241169	10	1,5	100	-	35	10	8	3	8,539 ~ 8,775	2	DIN371
48241179	12	1,75	110	18	-	10	8	3	10,295 ~ 10,560	3	DIN376

VA-POT

Threading | Cutting taps | UNJC



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

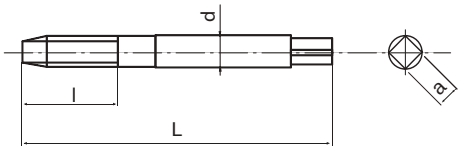
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

UNJC | HSSE | OX | ANSI 3B | B/4 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
48002457	4	40	56	18	3,5	2,7	2	DIN2184-1
48002461	6	32	56	20	4	3	3	DIN2184-1
48002464	8	32	63	21	4,5	3,4	3	DIN2184-1

V-TI-POT

Threading | Cutting taps | UNJC



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

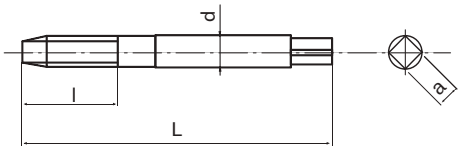
4-6 m/min

UNJC | PM | V | ANSI 3B | B/5 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
48014457	4	40	56	12	3,5	2,7	3	DIN2184-1
48014461	6	32	56	14	4	3	3	DIN2184-1
48014464	8	32	63	16	4,5	3,4	3	DIN2184-1

E-POT

Threading | Cutting taps | UNJC



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For Nickel-based alloys including Inconel 718

S Ni

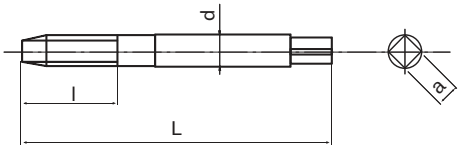
2-4 m/min

UNJC | PM | ANSI 3B | B/5 | DIN 2184-1 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
89345730	4	40	56	12	3,5	2,7	3	DIN2184-1
89346130	6	32	56	14	4	3	3	DIN2184-1
89346430	8	32	63	16	4,5	3,4	3	DIN2184-1
89346630	10	24	70	20	6	4,9	3	DIN2184-1
89347130	1/4	20	80	25	7	5,5	3	DIN2184-1
89347430	5/16	18	90	31	8	6,2	3	DIN2184-1
89347930	3/8	16	100	35	10	8	3	DIN2184-1
89348430	7/16	14	100	24	8	6,2	3	DIN2184-1
89348930	1/2	13	110	28	9	7	3	DIN2184-1
89350130	5/8	11	110	32	12	9	3	DIN2184-1
89351530	3/4	10	125	34	14	11	4	DIN2184-1
89352630	7/8	9	140	34	18	14,5	4	DIN2184-1
89353830	1	8	160	38	18	14,5	4	DIN2184-1

WHR-NI-POT

Threading | Cutting taps | UNJC



- Powder metal spiral-point cutting tap for through holes
- HR coating
- For Nickel-based alloys including Inconel 718

S Ni

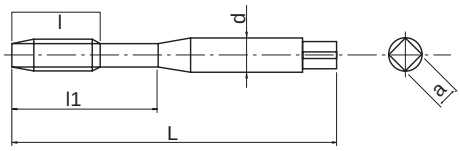
2-4 m/min

UNJC | PM | HR | ANSI 3B | B/5 | DIN 2184-1 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
48079457	4	40	56	12	3,5	2,7	3	DIN2184-1
48079461	6	32	56	14	4	3	3	DIN2184-1
48079464	8	32	63	16	4,5	3,4	3	DIN2184-1
48079466	10	24	70	20	6	4,9	3	DIN2184-1
48079471	1/4	20	80	25	7	5,5	3	DIN2184-1
48079474	5/16	18	90	31	8	6,2	3	DIN2184-1
48079479	3/8	16	100	35	10	8	3	DIN2184-1
48079484	7/16	14	100	24	8	6,2	3	DIN2184-1
48079489	1/2	13	110	28	9	7	3	DIN2184-1
48079501	5/8	11	110	32	12	9	3	DIN2184-1
48079515	3/4	10	125	34	14	11	4	DIN2184-1
48079526	7/8	9	140	34	18	14,5	4	DIN2184-1
48079538	1	8	160	38	18	14,5	4	DIN2184-1

H-POT

Threading | Cutting taps | UNJC



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

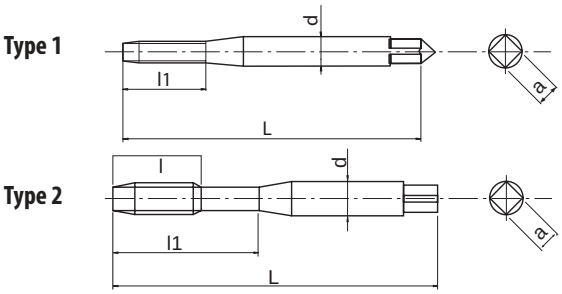
P ◉	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

UNJC | PM | OX | ANSI 3B | B/5 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
48010457	4	40	56	18	3,5	2,7	2	DIN2184-1
48010461	6	32	56	20	4	3	3	DIN2184-1
48010464	8	32	63	21	4,5	3,4	3	DIN2184-1

VA-SFT

Threading | Cutting taps | UNJC



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

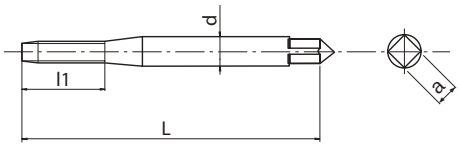
UNJC | HSSE | OX | 40° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	M	P	L	l1	d	a	Z	Type	DIN
48001457	4	40	56	11	3,5	2,7	2	1	DIN2184-1
48001461	6	32	56	20	4	3	3	2	DIN2184-1
48001464	8	32	63	21	4,5	3,4	3	2	DIN2184-1

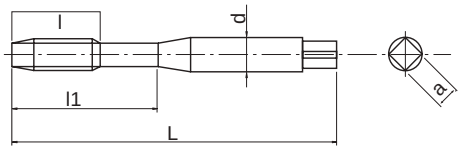
CC-SFT

Threading | Cutting taps | UNJC

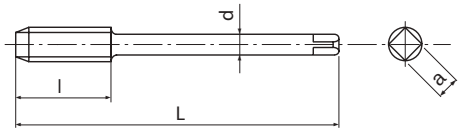
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For general steels, stainless steels and aluminium
- Developed for rigid tapping on CNC machines

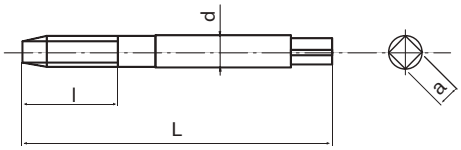
P ◉	P ◉	P ◉	P ○	M ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

UNJC | HSSE | CrN | 45° | ANSI 3B | C/2,5 | ≥2D | DIN 2184-1 | DIN 2184-1

EDP	UNJC	P	L	l	l1	d	a	Z	Type	DIN
48032457	4	40	56	-	11,4	3,5	2,7	2	1	DIN2184-1
48032461	6	32	56	-	14	4	3	3	1	DIN2184-1
48032464	8	32	63	-	16,7	4,5	3,4	3	1	DIN2184-1
48032466	10	24	70	-	19,3	6	4,9	3	1	DIN2184-1
48032471	1/4	20	80	-	25,4	7	5,5	3	1	DIN2184-1
48032474	5/16	18	90	-	13	8	6,2	3	2	DIN2184-1
48032479	3/8	16	100	-	15	9	7	3	2	DIN2184-1
48032484	7/16	14	100	17	-	8	6,2	4	3	DIN2184-1
48032489	1/2	13	110	18	-	9	7	4	3	DIN2184-1
48032494	9/16	12	110	19	-	11	9	4	3	DIN2184-1
48032501	5/8	11	110	21	-	12	9	4	3	DIN2184-1
48032515	3/4	10	125	23	-	14	11	4	3	DIN2184-1
48032526	7/8	9	140	26	-	18	14,5	4	3	DIN2184-1
48032538	1	8	160	29	-	18	14,5	4	3	DIN2184-1

V-TI-SFT

Threading | Cutting taps | UNJC



- Powder metal low spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

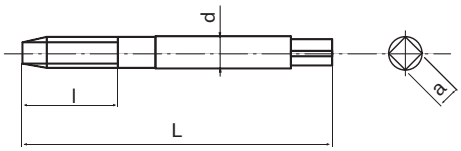
3-5 m/min

UNJC | PM | V | 10° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
48013457	4	40	56	10	3,5	2,7	3	DIN2184-1
48013461	6	32	56	13	4	3	3	DIN2184-1
48013464	8	32	63	15	4,5	3,4	3	DIN2184-1

E-SFT

Threading | Cutting taps | UNJC



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For Nickel-based alloys including Inconel 718

S Ni

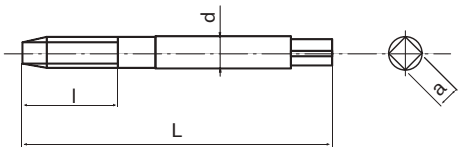
1-3 m/min

UNJC | PM | 10° | ANSI 3B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
89545730	4	40	56	10	3,5	2,7	3	DIN2184-1
89546130	6	32	56	13	4	3	3	DIN2184-1
89546430	8	32	63	15	4,5	3,4	3	DIN2184-1
89546630	10	24	70	18	6	4,9	3	DIN2184-1
89547130	1/4	20	80	23	7	5,5	3	DIN2184-1
89547430	5/16	18	90	28	8	6,2	3	DIN2184-1
89547930	3/8	16	100	33	10	8	3	DIN2184-1
89548430	7/16	14	100	19	8	6,2	3	DIN2184-1
89548930	1/2	13	110	20	9	7	3	DIN2184-1
89550130	5/8	11	110	24	12	9	4	DIN2184-1
89551530	3/4	10	125	26	14	11	4	DIN2184-1
89552630	7/8	9	140	29	18	14,5	4	DIN2184-1
89553830	1	8	160	32	18	14,5	4	DIN2184-1

WHR-NI-SFT

Threading | Cutting taps | UNJC



- Powder metal low spiral-fluted cutting tap for blind holes
- HR coating
- For Nickel-based alloys including Inconel 718

S
Ni

1-3 m/min

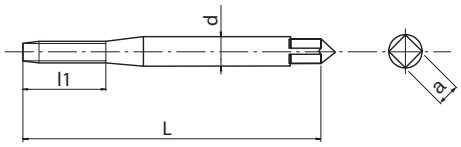
UNJC | PM | HR | 11° | ANSI 3B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNJC	P	L	l	d	a	Z	DIN
48078457	4	40	56	12	3,5	2,7	3	DIN2184-1
48078461	6	32	56	14	4	3	3	DIN2184-1
48078464	8	32	63	16	4,5	3,4	3	DIN2184-1
48078466	10	24	70	18	6	4,9	3	DIN2184-1
48078471	1/4	20	80	23	7	5,5	3	DIN2184-1
48078474	5/16	18	90	15	8	6,2	3	DIN2184-1
48078479	3/8	16	100	16	10	8	3	DIN2184-1
48078484	7/16	14	100	19	8	6,2	3	DIN2184-1
48078489	1/2	13	110	20	9	7	3	DIN2184-1
48078501	5/8	11	110	24	12	9	4	DIN2184-1
48078515	3/4	10	125	26	14	11	4	DIN2184-1
48078526	7/8	9	140	29	18	14,5	4	DIN2184-1
48078538	1	8	160	32	18	14,5	4	DIN2184-1

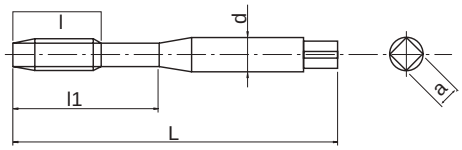
H-SFT

Threading | Cutting taps | UNJC

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

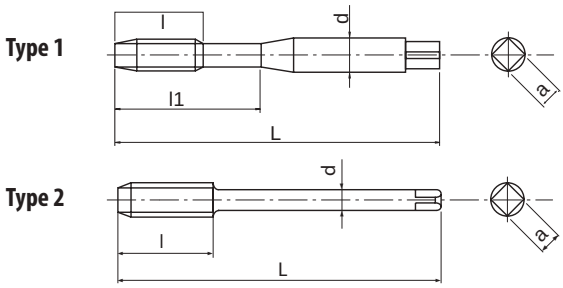
P ◉	P ○	K ○	S ◉	S ◉	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

UNJC | PM | OX | 15° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	UNJC	P	L	l1	d	a	Z	Type	DIN
48009457	4	40	56	11	3,5	2,7	2	1	DIN2184-1
48009461	6	32	56	8	4	3	2	2	DIN2184-1
48009464	8	32	63	21	4,5	3,4	3	2	DIN2184-1

VA-POT

Threading | Cutting taps | UNJF



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

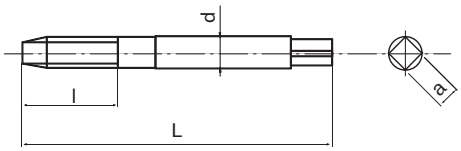
UNJF | HSSE | OX | ANSI 3B | B/4 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
48002467	10	32	70	-	25	6	4,9	3	1	DIN2184-1
48002472	1/4	28	80	-	30	7	5,5	3	1	DIN2184-1
48002476	5/16	24	90	-	35	8	6,2	3	1	DIN2184-1
48002481	3/8	24	90	-	35	9	7	3	1	DIN2184-1
48002486	7/16	20	100	20	-	8	6,2	3	2	DIN2184-1
48002491	1/2	20	100	22	-	9	7	3	2	DIN2184-1

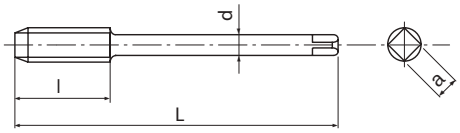
V-TI-POT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

4-6 m/min

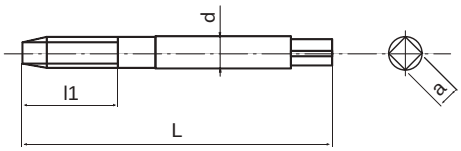
UNJF | PM | V | ANSI 3B | B/5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	d	a	Z	Type	DIN
48014467	10	32	70	25	6	4,9	3	1	DIN2184-1
48014472	1/4	28	80	30	7	5,5	3	1	DIN2184-1
48014476	5/16	24	90	31	8	6,2	3	1	DIN2184-1
48014481	3/8	24	90	35	10	8	3	1	DIN2184-1
48014486	7/16	20	100	20	9	7	3	2	DIN2184-1
48014491	1/2	20	100	22	10	8	3	2	DIN2184-1

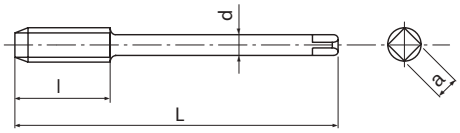
E-POT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For Nickel-based alloys including Inconel 718

S Ni

2-4 m/min

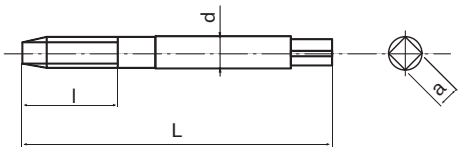
UNJF | PM | ANSI 3B | B/5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
89346730	10	32	70	-	20	6	4,9	3	1	DIN2184-1
89347230	1/4	28	80	-	25	7	5,5	3	1	DIN2184-1
89347630	5/16	24	90	-	31	8	6,2	3	1	DIN2184-1
89348130	3/8	24	90	-	35	10	8	3	1	DIN2184-1
89448630	7/16	20	100	20	-	9	7	3	2	DIN2184-1
89449130	1/2	20	100	22	-	10	8	3	2	DIN2184-1
89349630	9/16	18	100	22	-	11	9	3	2	DIN2184-1
89350430	5/8	18	100	22	-	12	9	3	2	DIN2184-1
89351730	3/4	16	110	25	-	14	11	4	2	DIN2184-1
89352830	7/8	14	125	25	-	18	14,5	4	2	DIN2184-1

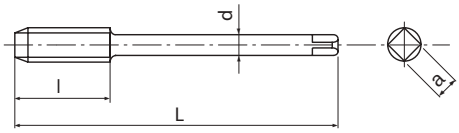
WHR-NI-POT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- HR coating
- For Nickel-based alloys including Inconel 718

S Ni

2-4 m/min

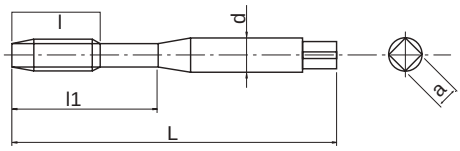
UNJF | PM | HR | ANSI 3B | B/5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	d	a	Z	Type	DIN
48079467	10	32	70	20	6	4,9	3	1	DIN2184-1
48079472	1/4	28	80	25	7	5,5	3	1	DIN2184-1
48079476	5/16	24	90	31	8	6,2	3	1	DIN2184-1
48079481	3/8	24	90	35	10	8	3	1	DIN2184-1
48079486	7/16	20	100	20	9	7	3	2	DIN2184-1
48079491	1/2	20	100	22	10	8	3	2	DIN2184-1
48079496	9/16	18	100	22	11	9	3	2	DIN2184-1
48079504	5/8	18	100	22	12	9	3	2	DIN2184-1
48079517	3/4	16	110	25	14	11	4	2	DIN2184-1
48079528	7/8	14	125	25	18	14,5	4	2	DIN2184-1

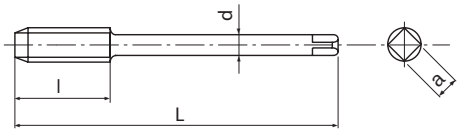
H-POT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

P ◉	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

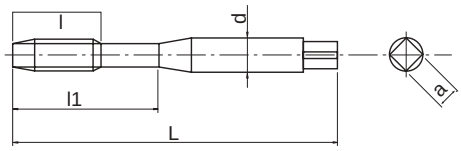
UNJF | PM | OX | ANSI 3B | B/5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
48010467	10	32	70	-	25	6	4,9	3	1	DIN2184-1
48010472	1/4	28	80	-	30	7	5,5	3	1	DIN2184-1
48010476	5/16	24	90	-	35	8	6,2	3	1	DIN2184-1
48010481	3/8	24	90	-	35	9	7	3	1	DIN2184-1
48010486	7/16	20	100	20	-	8	6,2	3	2	DIN2184-1
48010491	1/2	20	100	22	-	9	7	3	2	DIN2184-1

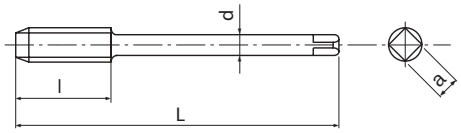
VA-SFT

Threading | Cutting taps | UNJF

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

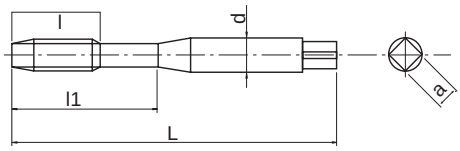
UNJF | HSSE | OX | 40° | ANSI 3B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
48001467	10	32	70	-	25	6	4,9	3	1	DIN2184-1
48001472	1/4	28	80	-	30	7	5,5	3	1	DIN2184-1
48001476	5/16	24	90	-	35	8	6,2	3	1	DIN2184-1
48001481	3/8	24	90	-	35	9	7	3	1	DIN2184-1
48001486	7/16	20	100	15	-	8	6,2	4	2	DIN2184-1
48001491	1/2	20	100	16	-	9	7	4	2	DIN2184-1

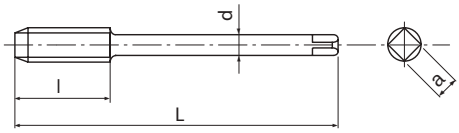
CC-SFT

Threading | Cutting taps | UNJF

Type 1



Type 2



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For general steels, stainless steels and aluminium
- Developed for rigid tapping on CNC machines

P ◉	P ◉	P ◉	P ○	M ◉	N ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

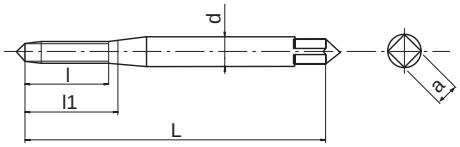
UNJF	HSSE	CrN	45°	ANSI 3B	C/2,5	≥2D	DIN 2184-1	DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
48032467	10	32	70	-	19,3	6	4,9	3	1	DIN2184-1
48032472	1/4	28	80	-	25,4	7	5,5	3	1	DIN2184-1
48032476	5/16	24	90	-	11	8	6,2	3	1	DIN2184-1
48032481	3/8	24	90	-	12	9	7	3	1	DIN2184-1
48032486	7/16	20	100	14	-	8	6,2	4	2	DIN2184-1
48032491	1/2	20	100	15	-	9	7	4	2	DIN2184-1
48032496	9/16	18	100	15	-	11	9	4	2	DIN2184-1
48032504	5/8	18	100	17	-	12	9	4	2	DIN2184-1
48032517	3/4	16	110	19	-	14	11	4	2	DIN2184-1
48032528	7/8	14	125	21	-	18	14,5	4	2	DIN2184-1
48032539	1	12	125	24	-	18	14,5	4	2	DIN2184-1

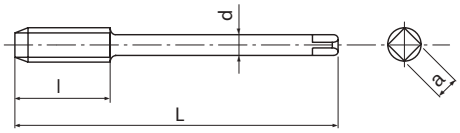
V-TI-SFT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- For Titanium alloys

S Ti

3-5 m/min

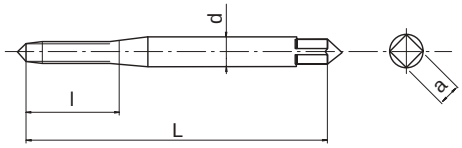
UNJF | PM | V | 10° | ANSI 3B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	d	a	Z	Type	DIN
48013467	10	32	70	25	6	4,9	3	1	DIN2184-1
48013472	1/4	28	80	30	7	5,5	3	1	DIN2184-1
48013476	5/16	24	90	35	8	6,2	3	1	DIN2184-1
48013481	3/8	24	90	35	10	8	3	1	DIN2184-1
48013486	7/16	20	100	15	8	6,2	3	2	DIN2184-1
48013491	1/2	20	100	16	9	7	3	2	DIN2184-1

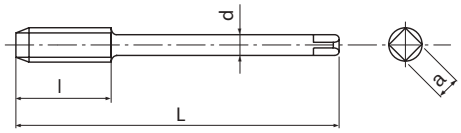
E-SFT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For Nickel-based alloys including Inconel 718

S Ni

1-3 m/min

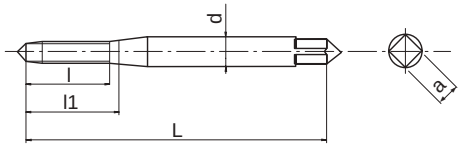
UNJF | PM | 10° | ANSI 3B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	d	a	Z	Type	DIN
89546730	10	32	70	18	6	4,9	3	1	DIN2184-1
89547230	1/4	28	80	23	7	5,5	3	1	DIN2184-1
89547630	5/16	24	90	28	8	6,2	3	1	DIN2184-1
89548130	3/8	24	90	33	10	8	3	1	DIN2184-1
89648630	7/16	20	100	15	8	6,2	3	2	DIN2184-1
89649130	1/2	20	100	16	9	7	3	2	DIN2184-1
89549630	9/16	18	100	17	11	9	4	2	DIN2184-1
89550430	5/8	18	100	19	12	9	4	2	DIN2184-1
89551730	3/4	16	110	21	14	11	4	2	DIN2184-1
89552830	7/8	14	125	23	18	14,5	4	2	DIN2184-1

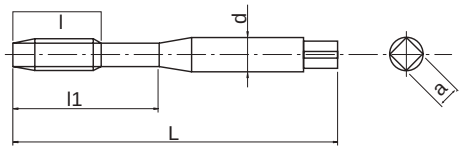
WHR-NI-SFT

Threading | Cutting taps | UNJF

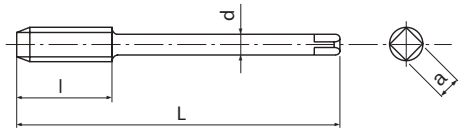
Type 1



Type 2



Type 3



- Powder metal low spiral-fluted cutting tap for blind holes
- HR coating
- For Nickel-based alloys including Inconel 718

S Ni

1-3 m/min

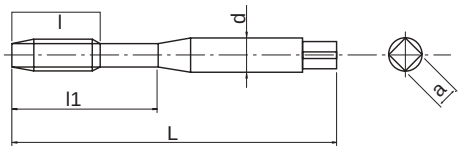
UNJF | PM | HR | 11° | ANSI 3B | C/2,5 | DIN 2184-1 | DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
48078467	10	32	70	18	21	6	4,9	3	1	DIN2184-1
48078472	1/4	28	80	21	23	7	5,5	3	1	DIN2184-1
48078476	5/16	24	90	-	35	8	6,2	3	2	DIN2184-1
48078481	3/8	24	90	-	35	10	8	3	2	DIN2184-1
48078486	7/16	20	100	15	-	8	6,2	3	3	DIN2184-1
48078491	1/2	20	100	16	-	9	7	3	3	DIN2184-1
48078496	9/16	18	100	17	-	11	9	3	3	DIN2184-1
48078504	5/8	18	100	19	-	12	9	4	3	DIN2184-1
48078517	3/4	16	110	21	-	14	11	4	3	DIN2184-1
48078528	7/8	14	125	23	-	18	14,5	4	3	DIN2184-1

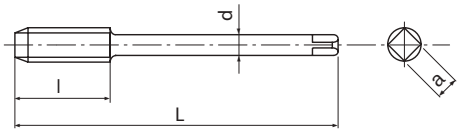
H-SFT

Threading | Cutting taps | UNJF

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC

P ◉	P ○	K ○	S ◉	S ◉	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

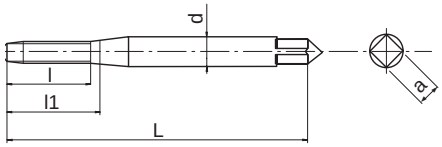
UNJF	PM	OX	15°	ANSI 3B	C/2,5		DIN 2184-1	DIN 2184-1

EDP	UNJF	P	L	l	l1	d	a	Z	Type	DIN
48009467	10	32	70	-	25	6	4,9	3	1	DIN2184-1
48009472	1/4	28	80	-	30	7	5,5	3	1	DIN2184-1
48009476	5/16	24	90	-	35	8	6,2	3	1	DIN2184-1
48009481	3/8	24	90	-	35	9	7	3	1	DIN2184-1
48009486	7/16	20	100	15	-	8	6,2	3	2	DIN2184-1
48009491	1/2	20	100	16	-	9	7	3	2	DIN2184-1

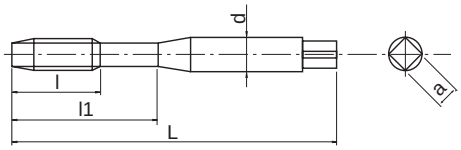
CC-HL-SFT

Threading | Cutting taps | Helicoil EG-M

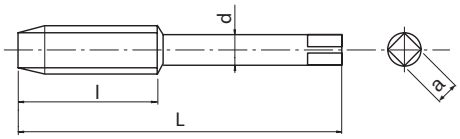
Type 1



Type 2



Type 3



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For general steels, stainless steels and aluminium
- Developed for rigid tapping on CNC machines, for thread insert

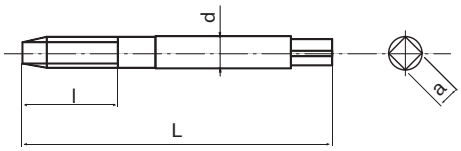
P	P	P	P	M	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

EG M | HSSE | CrN | 45° | ISO 2 6H | C/2,5 | DIN 371 | DIN 376

EDP	M	P	cutter Ø	drill hole	L	l	l1	d	a	Z	Type	DIN
48044138	3	0,5	3,650	3,2	56	4,5	15	4	3	3	1	DIN371
48044144	4	0,7	4,909	4,2	70	6,6	20	6	4,9	3	1	DIN371
48044149	5	0,8	6,039	5,2	80	7,2	25	6	4,9	3	1	DIN371
48044155	6	1	7,299	6,3	90	9	35	8	6,2	3	2	DIN371
48044161	8	1,25	9,624	8,4	100	12	39	10	8	3	2	DIN371
48044169	10	1,5	11,949	10,4	110	14	46	12	9	4	2	DIN371
48044179	12	1,75	14,273	12,5	110	16	-	11	9	4	3	DIN376

E-HL-POT

Threading | Cutting taps | Helicoil EG-MJ



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For Nickel-based alloys including Inconel 718
- For thread insert

S Ni

2-4 m/min

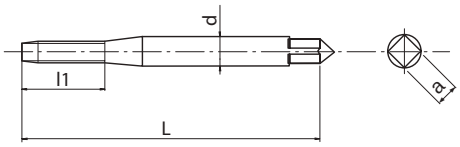
EG MJ | PM | ISO 1 4H | B/5 | DIN 371

EDP	MJ	P	cutter Ø	drill hole	L	l	d	a	Z	DIN
48008125	2	0,4	2,520	2,1	50	9	2,8	2,1	2	DIN371
48008133	2,5	0,45	3,085	2,6	56	11	3,5	2,7	3	DIN371
48008138	3	0,5	3,650	3,2	56	13	4	3	3	DIN371
48008144	4	0,7	4,909	4,2	70	17	6	4,9	3	DIN371
48008149	5	0,8	6,039	5,2	80	21	6	4,9	3	DIN371
48008155	6	1	7,299	6,3	90	25	8	6,2	3	DIN371
48008161	8	1,25	9,624	8,4	100	33	10	8	3	DIN371
48008169	10	1,5	11,949	10,4	110	41	12	9	3	DIN371

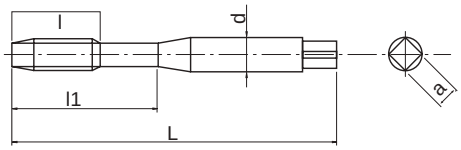
H-HL-POT

Threading | Cutting taps | Helicoil EG-MJ

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC
- For thread insert

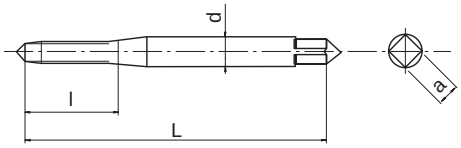
P	K	S	S	H	H	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

EG MJ | PM | OX | ISO 1 4H | B/5 | DIN 371

EDP	MJ	P	cutter Ø	drill hole	L	l1	d	a	Z	Type	DIN
48006125	2	0,4	2,520	2,1	50	9	2,8	2,1	2	1	DIN371
48006133	2,5	0,45	3,085	2,6	56	18	3,5	2,7	3	2	DIN371
48006138	3	0,5	3,650	3,2	56	20	4	3	3	2	DIN371
48006144	4	0,7	4,909	4,2	70	25	6	4,9	3	2	DIN371
48006149	5	0,8	6,039	5,2	80	30	6	4,9	3	2	DIN371
48006155	6	1	7,299	6,3	90	35	8	6,2	3	2	DIN371
48006161	8	1,25	9,624	8,4	100	39	10	8	3	2	DIN371
48006169	10	1,5	11,949	10,4	110	46	12	9	3	2	DIN371

E-HL-SFT

Threading | Cutting taps | Helicoil EG-MJ



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For Nickel-based alloys including Inconel 718
- For thread insert

S Ni

1-3 m/min

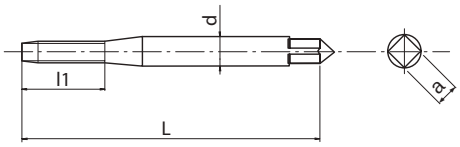
EG MJ | PM | 10° | ISO 1 4H | C/2,5 | DIN 371

EDP	MJ	P	cutter Ø	drill hole	L	l	d	a	Z	DIN
48007125	2	0,4	2,520	2,1	50	9	2,8	2,1	2	DIN371
48007133	2,5	0,45	3,085	2,6	56	11	3,5	2,7	3	DIN371
48007138	3	0,5	3,650	3,2	56	13	4	3	3	DIN371
48007144	4	0,7	4,909	4,2	70	17	6	4,9	3	DIN371
48007149	5	0,8	6,039	5,2	80	21	6	4,9	3	DIN371
48007155	6	1	7,299	6,3	90	25	8	6,2	3	DIN371
48007161	8	1,25	9,624	8,4	100	33	10	8	3	DIN371
48007169	10	1,5	11,949	10,4	110	41	12	9	3	DIN371

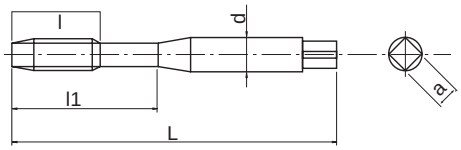
H-HL-SFT

Threading | Cutting taps | Helicoil EG-MJ

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC
- For thread insert

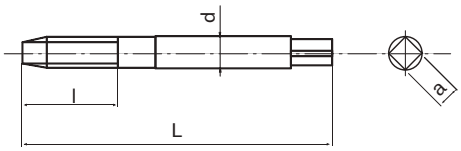
P ◉	P ○	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

EG MJ | PM | OX | 15° | ISO 1 4H | C/3 | DIN 371

EDP	MJ	P	cutter Ø	drill hole	L	l1	d	a	Z	Type	DIN
48005125	2	0,4	2,520	2,1	50	9	2,8	2,1	2	1	DIN371
48005133	2,5	0,45	3,085	2,6	56	18	3,5	2,7	3	2	DIN371
48005138	3	0,5	3,650	3,2	56	20	4	3	3	2	DIN371
48005144	4	0,7	4,909	4,2	70	25	6	4,9	3	2	DIN371
48005149	5	0,8	6,039	5,2	80	30	6	4,9	3	2	DIN371
48005155	6	1	7,299	6,3	90	35	8	6,2	3	2	DIN371
48005161	8	1,25	9,624	8,4	100	39	10	8	3	2	DIN371
48005169	10	1,5	11,949	10,4	110	46	12	9	3	2	DIN371

E-HL-POT

Threading | Cutting taps | Helicoil EG-UNJC



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For Nickel-based alloys including Inconel 718
- For thread insert

S Ni

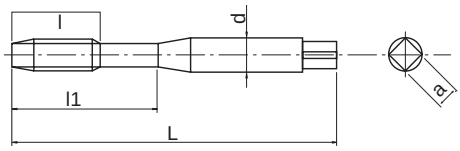
2-4 m/min

EG UNJC | PM | ANSI 3B | B/5 | DIN 2184-1

EDP	UNJC	P	cutter Ø	drill hole	L	l	d	a	Z	DIN
48016457	4	40	3,670	3	56	14	4	3	3	DIN2184-1
48016461	6	32	4,536	3,7	63	18	4,5	3,4	3	DIN2184-1
48016464	8	32	5,197	4,4	70	20	6	4,9	3	DIN2184-1

H-HL-POT

Threading | Cutting taps | Helicoil EG-UNJC



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC
- For thread insert

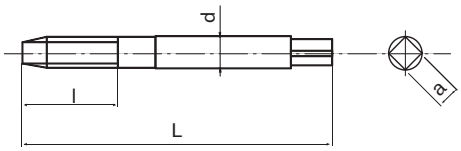
P	K	S	S	H	H	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

EG UNJC | PM | OX | ANSI 3B | B/5 | DIN 2184-1

EDP	UNJC	P	cutter Ø	drill hole	L	l1	d	a	Z	DIN
48018457	4	40	3,670	3	56	20	4	3	3	DIN2184-1
48018461	6	32	4,536	3,7	63	21	4,5	3,4	3	DIN2184-1
48018464	8	32	5,197	4,4	70	25	6	4,9	3	DIN2184-1

E-HL-SFT

Threading | Cutting taps | Helicoil EG-UNJC



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For Nickel-based alloys including Inconel 718
- For thread insert

S Ni

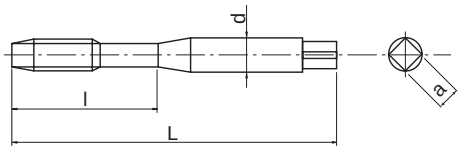
1-3 m/min

EG UNJC | PM | 10° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	UNJC	P	cutter Ø	drill hole	L	l	d	a	Z	DIN
48015457	4	40	3,670	3	56	13	4	3	3	DIN2184-1
48015461	6	32	4,536	3,7	63	18	4,5	3,4	3	DIN2184-1
48015464	8	32	5,197	4,4	70	20	6	4,9	3	DIN2184-1

H-HL-SFT

Threading | Cutting taps | Helicoil EG-UNJC



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC
- For thread insert

P ◉	P ○	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

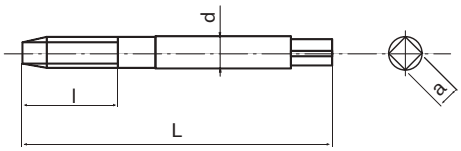
EG UNJC | PM | OX | 15° | ANSI 3B | C/3 | DIN 2184-1

EDP	UNJC	P	cutter Ø	drill hole	L	l	d	a	Z	DIN
48017457	4	40	3,670	3	56	20	4	3	2	DIN2184-1
48017461	6	32	4,536	3,7	63	21	4,5	3,4	3	DIN2184-1
48017464	8	32	5,197	4,4	70	25	6	4,9	3	DIN2184-1

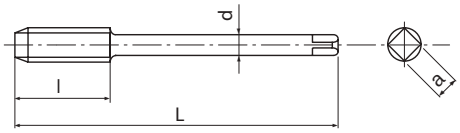
E-HL-POT

Threading | Cutting taps | Helicoil EG-UNJF

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Bright finish
- For Nickel-based alloys including Inconel 718
- For thread insert

S Ni

2-4 m/min

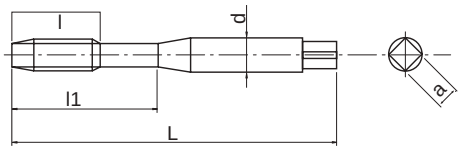
EG UNJF | PM | ANSI 3B | B/5 | DIN 2184-1

EDP	UNJF	P	cutter Ø	drill hole	L	l	d	a	Z	Type	DIN
48016467	10	32	5,857	5,1	80	23	7	5,5	3	1	DIN2184-1
48016472	1/4	28	7,528	6,6	90	29	8	6,2	3	1	DIN2184-1
48016476	5/16	24	9,312	8,3	90	35	10	8	3	1	DIN2184-1
48016481	3/8	24	10,900	9,8	100	41	12	9	3	1	DIN2184-1
48016486	7/16	20	12,762	11,5	100	22	10	8	3	2	DIN2184-1
48016491	1/2	20	14,350	13,1	100	22	12	9	3	2	DIN2184-1

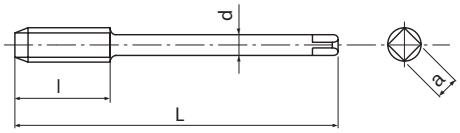
H-HL-POT

Threading | Cutting taps | Helicoil EG-UNJF

Type 1



Type 2



- Powder metal spiral-point cutting tap for through holes
- Steam oxide treatment
- For hardened steels up to 45 HRC
- For thread insert

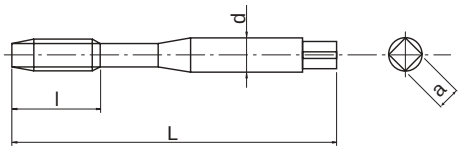
P	K	S	S	H	H	
C>0.45%	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
8-13	10-15	4-6	2-4	6-10	6-10	m/min

EG UNJF | PM | OX | ANSI 3B | B/5 | DIN 2184-1

EDP	UNJF	P	cutter Ø	drill hole	L	l	l1	d	a	Z	Type	DIN
48018467	10	32	5,857	5,1	80	-	30	7	5,5	3	1	DIN2184-1
48018472	1/4	28	7,528	6,6	90	-	35	8	6,2	3	1	DIN2184-1
48018476	5/16	24	9,312	8,3	90	-	35	9	7	3	1	DIN2184-1
48018481	3/8	24	10,900	9,8	100	-	39	11	9	3	1	DIN2184-1
48018486	7/16	20	12,762	11,5	100	22	-	9	7	3	2	DIN2184-1
48018491	1/2	20	14,350	13,1	100	22	-	11	9	3	2	DIN2184-1

CC-HL-SFT

Threading | Cutting taps | Helicoil EG-UNJF



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For general steels, stainless steels and aluminium
- Developed for rigid tapping on CNC machines, for thread insert

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

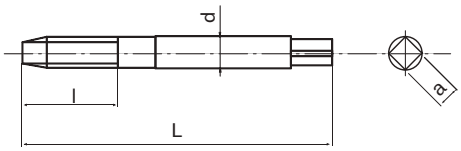
EG UNJF | HSSE | CrN | 45° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	UNJF	P	cutter Ø	drill hole	L	l	d	a	Z	DIN
48033467	10	32	5,857	5,1	80	25,4	7	5,5	3	DIN2184-1
48033472	1/4	28	7,528	6,6	90	11	8	6,2	3	DIN2184-1
48033476	5/16	24	9,312	8,3	90	12	9	7	3	DIN2184-1
48033481	3/8	24	10,900	9,8	100	14	11	9	3	DIN2184-1

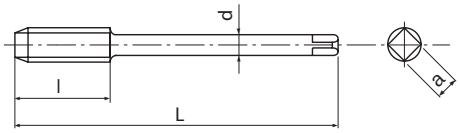
E-HL-SFT

Threading | Cutting taps | Helicoil EG-UNJF

Type 1



Type 2



- Powder metal low spiral-fluted cutting tap for blind holes
- Bright finish
- For Nickel-based alloys including Inconel 718
- For thread insert

S Ni

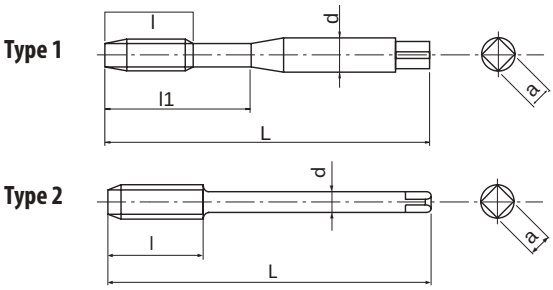
1-3 m/min

EG UNJF | PM | 10° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	UNJF	P	cutter Ø	drill hole	L	l	d	a	Z	Type	DIN
48015467	10	32	5,857	5,1	80	21	7	5,5	3	1	DIN2184-1
48015472	1/4	28	7,528	6,6	90	27	8	6,2	3	1	DIN2184-1
48015476	5/16	24	9,312	8,3	90	33	10	8	3	1	DIN2184-1
48015481	3/8	24	10,900	9,8	100	38	12	9	3	1	DIN2184-1
48015486	7/16	20	12,762	11,5	100	15	10	8	3	2	DIN2184-1
48015491	1/2	20	14,350	13,1	100	16	12	9	3	2	DIN2184-1

H-HL-SFT

Threading | Cutting taps | Helicoil EG-UNJF



- Powder metal low spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- For hardened steels up to 45 HRC
- For thread insert

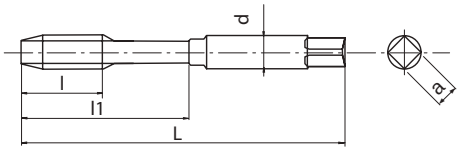
P ◉	P ○	K ○	S ○	S ○	H ◉	H ◉	
C>0.45%	SCM	GGG	Ti	Ni	25-35 HRC	35-45 HRC	
7-12	7-12	7-12	3-5	1-3	4-8	4-8	m/min

EG UNJF | PM | OX | 15° | ANSI 3B | C/2,5 | DIN 2184-1

EDP	UNJF	P	cutter Ø	drill hole	L	l	l1	d	a	Z	Type	DIN
48017467	10	32	5,857	5,1	80	-	30	7	5,5	3	1	DIN2184-1
48017472	1/4	28	7,528	6,6	90	-	35	8	6,2	3	1	DIN2184-1
48017476	5/16	24	9,312	8,3	90	-	35	9	7	3	1	DIN2184-1
48017481	3/8	24	10,900	9,8	100	-	39	11	9	3	1	DIN2184-1
48017486	7/16	20	12,762	11,5	100	15	-	9	7	3	2	DIN2184-1
48017491	1/2	20	14,350	13,1	100	16	-	11	9	3	2	DIN2184-1

A-POT

Threading | Cutting taps | BSW



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P	P	P	P	M	N	N	S	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

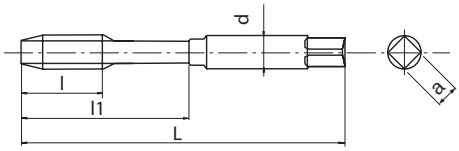
A | BSW | PM | V | MED | B/4 | DIN 2184-1

EDP	BSW	TPI	L	l	l1	d	a	Z	DIN
48205702	1/8	40	56	11	18	3,5	2,7	3	DIN2184-1
48205704	3/16	24	70	16	25	6	4,9	3	DIN2184-1
48205706	1/4	20	80	19	30	7	5,5	3	DIN2184-1
48205707	5/16	18	90	22	35	8	6,2	3	DIN2184-1
48205708	3/8	16	100	24	39	10	8	3	DIN2184-1
48205709	7/16	14	100	24	-	8	6,2	3	DIN2184-1
48205710	1/2	12	110	28	-	9	7	3	DIN2184-1
48205712	5/8	11	110	32	-	12	9	3	DIN2184-1
48205713	3/4	10	125	34	-	14	11	3	DIN2184-1
48205714	7/8	9	140	34	-	18	14,5	3	DIN2184-1
48205715	1	8	160	38	-	18	14,5	3	DIN2184-1

S-POT NEW

Available from March 2018

Threading | Cutting taps | BSW



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

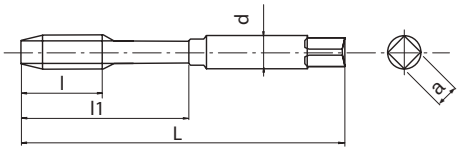
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

BSW | HSSE | OX | MED | B/4 | DIN 2184-1

EDP	BSW	TPI	L	l	l1	d	a	Z	DIN
48272702	1/8	40	56	11	18	3,5	2,7	3	DIN2184-1
48272704	3/16	24	70	16	25	6	4,9	3	DIN2184-1
48272706	1/4	20	80	19	30	7	5,5	3	DIN2184-1
48272707	5/16	18	90	22	35	8	6,2	3	DIN2184-1
48272708	3/8	16	100	24	39	10	8	3	DIN2184-1
48272709	7/16	14	100	24	-	8	6,2	3	DIN2184-1
48272710	1/2	12	110	28	-	9	7	3	DIN2184-1
48272712	5/8	11	110	32	-	12	9	3	DIN2184-1
48272713	3/4	10	125	34	-	14	11	3	DIN2184-1
48272714	7/8	9	140	34	-	18	14,5	3	DIN2184-1
48272715	1	8	160	38	-	18	14,5	3	DIN2184-1

A-SFT

Threading | Cutting taps | BSW



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

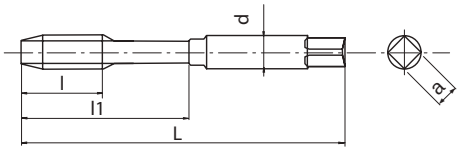
A | BSW | PM | V | MED | C/2,5 | DIN 2184-1

EDP	BSW	TPI	L	l	l1	d	a	Z	DIN
48139702	1/8	40	56	7	18	3,5	2,7	3	DIN2184-1
48139704	3/16	24	70	10	25	6	4,9	3	DIN2184-1
48139706	1/4	20	80	13	30	7	5,5	3	DIN2184-1
48139707	5/16	18	90	14	35	8	6,2	3	DIN2184-1
48139708	3/8	16	100	16	39	10	8	3	DIN2184-1
48139709	7/16	14	100	22	-	8	6,2	3	DIN2184-1
48139710	1/2	12	110	25	-	9	7	3	DIN2184-1
48139712	5/8	11	110	27	-	12	9	3	DIN2184-1
48139713	3/4	10	125	30	-	14	11	3	DIN2184-1
48139714	7/8	9	140	32	-	18	14,5	3	DIN2184-1
48139715	1	8	160	36	-	18	14,5	3	DIN2184-1

S-SFT NEW

Available from March 2018

Threading | Cutting taps | BSW



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

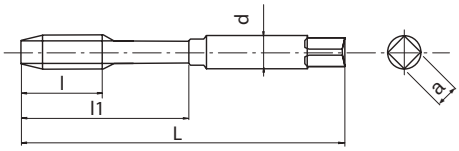
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

BSW | HSSE | OX | 40° | MED | C/2,5 | DIN 2184-1

EDP	BSW	TPI	L	l	l1	d	a	Z	DIN
48223702	1/8	40	56	7	18	3,5	2,7	3	DIN2184-1
48223704	3/16	24	70	10	25	6	4,9	3	DIN2184-1
48223706	1/4	20	80	13	30	7	5,5	3	DIN2184-1
48223707	5/16	18	90	14	35	8	6,2	3	DIN2184-1
48223708	3/8	16	100	16	39	10	8	3	DIN2184-1
48223709	7/16	14	100	22	-	8	6,2	3	DIN2184-1
48223710	1/2	12	110	25	-	9	7	3	DIN2184-1
48223712	5/8	11	110	27	-	12	9	3	DIN2184-1
48223713	3/4	10	125	30	-	14	11	3	DIN2184-1
48223714	7/8	9	140	32	-	18	14,5	3	DIN2184-1
48223715	1	8	160	36	-	18	14,5	3	DIN2184-1

A-POT

Threading | Cutting taps | BSF



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

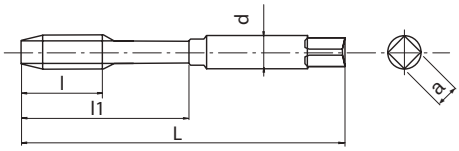
A | BSF | PM | V | MED | B/4 | DIN 2184-1

EDP	BSF	TPI	L	l	l1	d	a	Z	DIN
48205731	1/4	26	80	19	30	7	5,5	3	DIN2184-1
48205732	5/16	22	90	22	35	8	6,2	3	DIN2184-1
48205733	3/8	20	100	24	39	10	8	3	DIN2184-1
48205734	7/16	18	100	24	-	8	6,2	3	DIN2184-1
48205735	1/2	16	100	22	-	9	7	3	DIN2184-1
48205737	5/8	14	110	32	-	12	9	3	DIN2184-1
48205739	3/4	12	125	34	-	14	11	3	DIN2184-1
48205742	1	10	160	38	-	18	14,5	3	DIN2184-1

S-POT NEW

Available from March 2018

Threading | Cutting taps | BSF



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

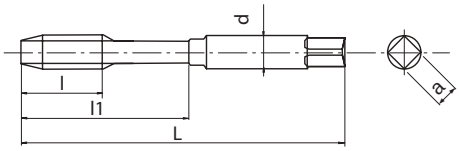
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

BSF | HSSE | OX | MED | B/4 | DIN 2184-1

EDP	BSF	TPI	L	l	l1	d	a	Z	DIN
48272731	1/4	26	80	19	30	7	5,5	3	DIN2184-1
48272732	5/16	22	90	22	35	8	6,2	3	DIN2184-1
48272733	3/8	20	100	24	39	10	8	3	DIN2184-1
48272734	7/16	18	100	24	-	8	6,2	3	DIN2184-1
48272735	1/2	16	100	22	-	9	7	3	DIN2184-1
48272737	5/8	14	110	32	-	12	9	3	DIN2184-1
48272739	3/4	12	125	34	-	14	11	3	DIN2184-1
48272742	1	10	160	38	-	18	14,5	3	DIN2184-1

A-SFT

Threading | Cutting taps | BSF



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

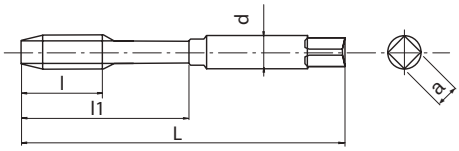
A | BSF | PM | V | MED | C/2,5 | DIN 2184-1

EDP	BSF	TPI	L	l	l1	d	a	Z	DIN
48139731	1/4	26	80	17	30	7	5,5	3	DIN2184-1
48139732	5/16	22	90	17	35	8	6,2	3	DIN2184-1
48139733	3/8	20	100	18	39	10	8	3	DIN2184-1
48139734	7/16	18	100	22	-	8	6,2	3	DIN2184-1
48139735	1/2	16	100	22	-	9	7	3	DIN2184-1
48139737	5/8	14	110	27	-	12	9	3	DIN2184-1
48139739	3/4	12	125	27	-	14	11	3	DIN2184-1
48139742	1	10	160	36	-	18	14,5	3	DIN2184-1

S-SFT NEW

Available from March 2018

Threading | Cutting taps | BSF



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

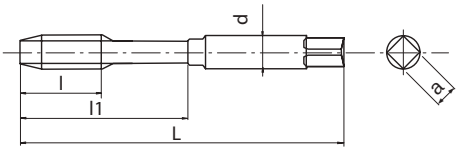
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

BSF | HSSE | OX | 40° | MED | C/2,5 | DIN 2184-1

EDP	BSF	TPI	L	l	l1	d	a	Z	DIN
48223731	1/4	26	80	17	30	7	5,5	3	DIN2184-1
48223732	5/16	22	90	17	35	8	6,2	3	DIN2184-1
48223733	3/8	20	100	18	39	10	8	3	DIN2184-1
48223734	7/16	18	100	22	-	8	6,2	3	DIN2184-1
48223735	1/2	16	100	22	-	9	7	3	DIN2184-1
48223737	5/8	14	110	27	-	12	9	3	DIN2184-1
48223739	3/4	12	125	27	-	14	11	3	DIN2184-1
48223742	1	10	160	36	-	18	14,5	3	DIN2184-1

A-POT

Threading | Cutting taps | BA



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

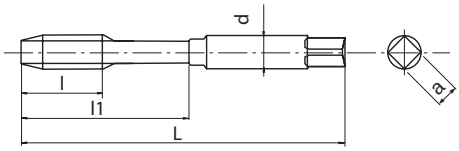
A | BA (BS93) | PM | V | B/4

EDP	BA	L	l	l1	d	a	Z
48205910	0	66	19	30	6,3	5	3
48205911	1	62	17	26	5,6	4,5	3
48205912	2	58	16	25	5	4	3
48205913	3	53	13	21	4,5	3,55	3
48205914	4	50	13	20	3,55	2,8	3
48205915	5	48	11	18	3,15	2,5	3
48205916	6	44,5	9,5	-	2,8	2,24	2
48205917	7	44,5	9,5	-	2,8	2,24	2
48205918	8	44,5	9,5	-	2,8	2,24	2
48205919	9	41	8	-	2,5	2	2
48205920	10	41	8	-	2,5	2	2
48205921	11	41	8	-	2,5	2	2
48205922	12	40	7	-	2,5	2	2

S-POT NEW

Available from March 2018

Threading | Cutting taps | BA



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

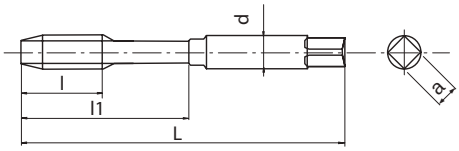
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

BA (BS93) | HSSE | OX | B/4

EDP	BA	L	l	l1	d	a	Z
48272910	0	66	19	30	6,3	5	3
48272911	1	62	17	26	5,6	4,5	3
48272912	2	58	16	25	5	4	3
48272913	3	53	13	21	4,5	3,55	3
48272914	4	50	13	20	3,55	2,8	3
48272915	5	48	11	18	3,15	2,5	3
48272916	6	44,5	9,5	-	2,8	2,24	2
48272917	7	44,5	9,5	-	2,8	2,24	2
48272918	8	44,5	9,5	-	2,8	2,24	2
48272919	9	41	8	-	2,5	2	2
48272920	10	41	8	-	2,5	2	2
48272921	11	41	8	-	2,5	2	2
48272922	12	40	7	-	2,5	2	2

A-SFT

Threading | Cutting taps | BA



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

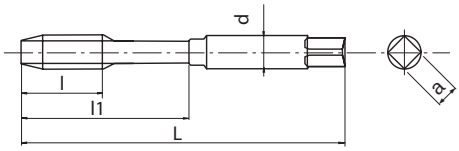
A | BA (BS93) | PM | V | C/2,5

EDP	BA	L	l	l1	d	a	Z
48139910	0	66	19	30	6,3	5	3
48139911	1	62	17	26	5,6	4,5	3
48139912	2	58	16	25	5	4	3
48139913	3	53	13	21	4,5	3,55	2
48139914	4	50	13	20	3,55	2,8	2
48139915	5	48	11	18	3,15	2,5	2
48139916	6	44,5	9,5	-	2,8	2,24	2
48139917	7	44,5	9,5	-	2,8	2,24	2
48139918	8	44,5	9,5	-	2,8	2,24	2
48139919	9	41	8	-	2,5	2	2
48139920	10	41	8	-	2,5	2	2
48139921	11	41	8	-	2,5	2	2
48139922	12	40	7	-	2,5	2	2

S-SFT NEW

Available from March 2018

Threading | Cutting taps | BA



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

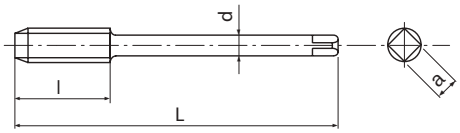
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

BA (BS93) | HSSE | 0X | 40° | C/2,5

EDP	BA	L	l	l1	d	a	Z
48223910	0	66	19	30	6,3	5	3
48223911	1	62	17	26	5,6	4,5	3
48223912	2	58	16	25	5	4	3
48223913	3	53	13	21	4,5	3,55	2
48223914	4	50	13	20	3,55	2,8	2
48223915	5	48	11	18	3,15	2,5	2
48223916	6	44,5	9,5	-	2,8	2,24	2
48223917	7	44,5	9,5	-	2,8	2,24	2
48223918	8	44,5	9,5	-	2,8	2,24	2
48223919	9	41	8	-	2,5	2	2
48223920	10	41	8	-	2,5	2	2
48223921	11	41	8	-	2,5	2	2
48223922	12	40	7	-	2,5	2	2

A-POT

Threading | Cutting taps | G (BSP)



- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

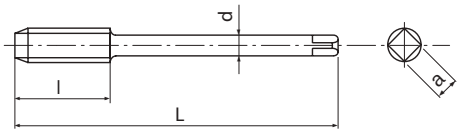
P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | G | PM | V | B/4 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48145900	1/8	28	90	20	7	5,5	3	DIN5156
48145000	1/4	19	100	22	11	9	3	DIN5156
48145100	3/8	19	100	22	12	9	3	DIN5156
48145200	1/2	14	125	25	16	12	3	DIN5156
48145300	5/8	14	125	25	18	14,5	4	DIN5156
48145400	3/4	14	140	28	20	16	4	DIN5156
48145500	7/8	14	150	28	22	18	4	DIN5156
48145600	1	11	160	30	25	20	4	DIN5156

S-POT NEW

Threading | Cutting taps | G (BSP)



- HSSE spiral-point cutting tap for through holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

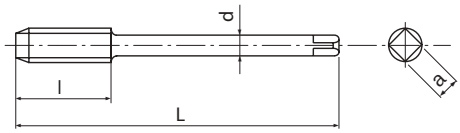
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
15-24	10-15	10-15	8-13	8-16	10-15	m/min

G | HSSE | OX | B/4 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48224900	1/8	28	90	20	7	5,5	3	DIN5156
48224000	1/4	19	100	22	11	9	3	DIN5156
48224100	3/8	19	100	22	12	9	3	DIN5156
48224200	1/2	14	125	25	16	12	3	DIN5156
48224300	5/8	14	125	25	18	14,5	4	DIN5156
48224400	3/4	14	140	28	20	16	4	DIN5156
48224500	7/8	14	150	28	22	18	4	DIN5156
48224600	1	11	160	30	25	20	4	DIN5156

POT

Threading | Cutting taps | G (BSP)



- HSSE spiral-point cutting tap for through holes
- Bright finish
- For general purpose applications

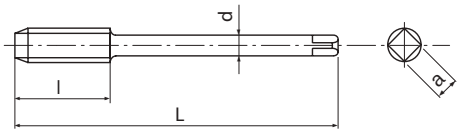
P	P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
12-20	8-12	8-12	8-12	8-12	15-25	15-20	m/min

G | HSSE | B/4 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
63581900	1/8	28	90	16	7	5,5	3	DIN5156
63582000	1/4	19	100	20	11	9	3	DIN5156
63582100	3/8	19	100	22	12	9	4	DIN5156
63582200	1/2	14	125	25	16	12	4	DIN5156
63582300	5/8	14	125	25	18	14,5	4	DIN5156
63582400	3/4	14	140	28	20	16	4	DIN5156
63582500	7/8	14	150	28	22	18	4	DIN5156
63582600	1	11	160	30	25	20	4	DIN5156

A-SFT

Threading | Cutting taps | G (BSP)



- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

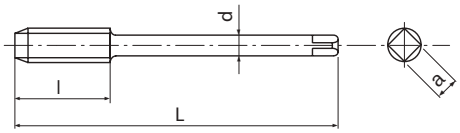
P ◉	P ◉	P ◉	P ◉	M ◉	N ○	N ○	S ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	Al	AC,ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

A | G | PM | V | 45° | C/2,5 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48139900	1/8	28	90	20	7	5,5	3	DIN5156
48139000	1/4	19	100	22	11	9	3	DIN5156
48139100	3/8	19	100	22	12	9	4	DIN5156
48139200	1/2	14	125	25	16	12	4	DIN5156
48139300	5/8	14	125	25	18	14,5	4	DIN5156
48139400	3/4	14	140	28	20	16	4	DIN5156
48139500	7/8	14	150	28	22	18	4	DIN5156
48139600	1	11	160	30	25	20	4	DIN5156

S-SFT NEW

Threading | Cutting taps | G (BSP)



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

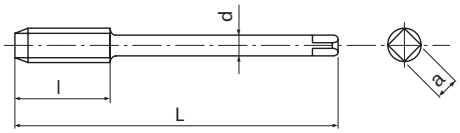
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	K GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

G | HSSE | OX | 40° | C/2,5 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48223900	1/8	28	90	20	7	5,5	3	DIN5156
48223000	1/4	19	100	22	11	9	3	DIN5156
48223100	3/8	19	100	22	12	9	4	DIN5156
48223200	1/2	14	125	25	16	12	4	DIN5156
48223300	5/8	14	125	25	18	14,5	4	DIN5156
48223400	3/4	14	140	28	20	16	4	DIN5156
48223500	7/8	14	150	28	22	18	4	DIN5156
48223600	1	11	160	30	25	20	4	DIN5156

VA-SFT

Threading | Cutting taps | G (BSP)



- HSSE spiral-fluted cutting tap for blind holes
- Steam oxide treatment
- General purpose tapping in steels and stainless steels

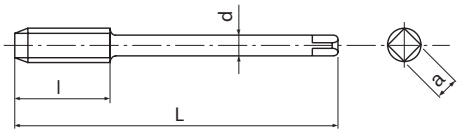
P	P	P	P	M	K	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GGG	
10-15	8-14	8-14	7-11	7-12	7-14	m/min

G | HSSE | OX | 40° | C/2,5 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
65881909	1/8	28	90	11	7	5,5	4	DIN5156
65882009	1/4	19	100	16	11	9	4	DIN5156
65882109	3/8	19	100	16	12	9	5	DIN5156
65882209	1/2	14	125	22	16	12	5	DIN5156
65882309	5/8	14	125	22	18	14,5	5	DIN5156
65882409	3/4	14	140	22	20	16	5	DIN5156
65882509	7/8	14	150	22	22	18	5	DIN5156
65882609	1	11	160	28	25	20	5	DIN5156

SFT

Threading | Cutting taps | G (BSP)



- HSSE spiral-fluted cutting tap for blind holes
- Bright finish
- For general purpose applications

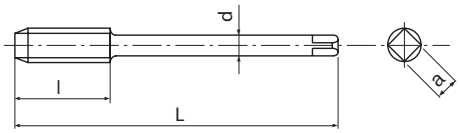
P	P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GGG	Al	AC,ADC	
8-13	7-12	7-12	6-9	6-8	10-20	10-15	m/min

G | HSSE | 40° | C/2,5 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
63681900	1/8	28	90	16	7	5,5	3	DIN5156
63682000	1/4	19	100	20	11	9	3	DIN5156
63682100	3/8	19	100	22	12	9	3	DIN5156
63682200	1/2	14	125	25	16	12	4	DIN5156
63682300	5/8	14	125	25	18	14,5	4	DIN5156
63682400	3/4	14	140	28	20	16	4	DIN5156
63682500	7/8	14	150	28	22	18	4	DIN5156
63682600	1	11	160	30	25	20	4	DIN5156

SH-SFT

Threading | Cutting taps | G (BSP)



- HSSE low spiral-fluted cutting tap for blind holes
- Bright finish
- For alloyed steels ≥ 1100N/mm²
- Short chip creation

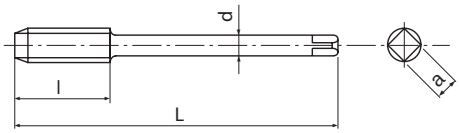
P 0,25<C<0,4	P C>0.45%	P SCM	K GG	K GGG	N AC,ADC	
7-12	7-12	6-9	7-12	6-8	10-15	m/min

G | HSSE | 15° | C/3 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
72281900	1/8	28	90	16	7	5,5	3	DIN5156
72282000	1/4	19	100	20	11	9	4	DIN5156
72282100	3/8	19	100	22	12	9	4	DIN5156
72282200	1/2	14	125	25	16	12	4	DIN5156

CC-SFT

Threading | Cutting taps | G (BSP)



- HSSE spiral-fluted cutting tap for blind holes
- CrN coating
- For general steels, stainless steels and aluminium
- Developed for rigid tapping on CNC machines

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	
15-25	15-25	10-25	10-25	6-10	15-35	m/min

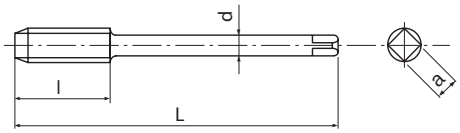
G | HSSE | CrN | 45° | C/2,5 | ≥2D | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48034838	1/8	28	90	10	7	5,5	3	DIN5156
48034839	1/4	19	100	15	11	9	4	DIN5156
48034840	3/8	19	100	15	12	9	4	DIN5156
48034841	1/2	14	125	20	16	12	4	DIN5156

VP-DC-MT NEW

Available from January 2018

Threading | Cutting taps | G (BSP)



- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- For cast iron and cast aluminium
- Synchro taps at cutting speeds > 30 m/min

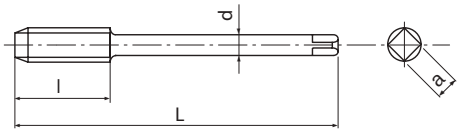
P ○	P ○	K ◉	K ◉	N ◉	H ○	H ○	
C>0.45%	SCM	GG	GGG	AC,ADC	25-35 HRC	35-45 HRC	
10-25	10-20	15-60	15-40	25-70	8-20	8-20	m/min

G | PM | V | C/2,5 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48020837	1/16	28	90	11	6	4,9	4	DIN5156
48020838	1/8	28	90	11	7	5,5	4	DIN5156
48020839	1/4	19	100	16	11	9	4	DIN5156
48020840	3/8	19	100	16	12	9	4	DIN5156
48020841	1/2	14	125	22	16	12	5	DIN5156
48020842	5/8	14	125	22	18	14,5	5	DIN5156
48020843	3/4	14	140	22	20	16	5	DIN5156
48020844	7/8	14	150	22	22	18	5	DIN5156
48020845	1	11	160	28	25	20	6	DIN5156
48020846	1 1/8	11	170	28	28	22	6	DIN5156
48020847	1 1/4	11	170	28	32	24	6	DIN5156
48020849	1 1/2	11	190	28	36	29	6	DIN5156
48020850	1 3/4	11	190	28	40	32	6	DIN5156
48020851	2	11	220	28	45	35	6	DIN5156

GG-MT

Threading | Cutting taps | G (BSP)



- HSSE straight flute cutting tap for blind and through holes
- NiOx coating
- For cast iron

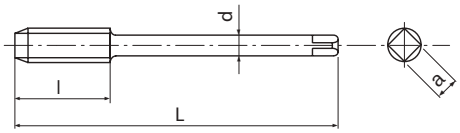
K GG	K GGG	
10-15	7-12	m/min

G | HSSE | NI-OX | C/2,5 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
67681900	1/8	28	90	16	7	5,5	4	DIN5156
67682000	1/4	19	100	20	11	9	4	DIN5156
67682100	3/8	19	100	22	12	9	4	DIN5156
67682200	1/2	14	125	25	16	12	4	DIN5156

VX-OT

Threading | Cutting taps | G (BSP)



- Carbide straight flute cutting tap for blind and through holes
- Multilayer TiCN coating
- For hardened steels up to 62 HRC

H
52-62 HRC

1-3 m/min

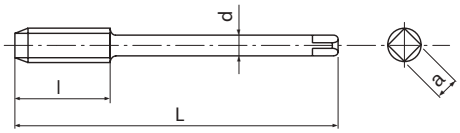
G | CARBIDE | V | C/3 | DIN 5156

EDP	G	P	L	l	d	a	Z	DIN
48080838	1/8	28	90	11	7	5,5	5	DIN5156
48080839	1/4	19	100	16	11	9	5	DIN5156
48080840	3/8	19	100	16	12	9	6	DIN5156
48080841	1/2	14	125	22	16	12	6	DIN5156

S-XPF NEW SIZES

Available from January 2018

Threading | Forming taps | G (BSP)



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

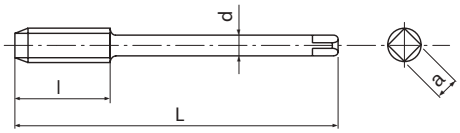
A | G | HSS-Co | V | C/2,5 | DIN 2189

EDP	G	P	L	l	d	a	Z	Ø	DIN
48064838	1/8	28	90	9	7	5,5	8	9,24 ~ 9,35	DIN2189
48064839	1/4	19	100	13	11	9	8	12,41 ~ 12,62	DIN2189
48064840	3/8	19	100	13	12	9	8	15,92 ~ 16,12	DIN2189
48064841	1/2	14	125	18	16	12	8	19,93 ~ 20,15	DIN2189
48064842 NEW	5/8	14	125	18	18	14,5	8	21.89 ~ 22.11	DIN2189
48064843 NEW	3/4	14	140	18	20	16	8	25.42 ~ 25.64	DIN2189
48064844 NEW	7/8	14	150	18	22	18	8	29.18 ~ 29.40	DIN2189
48064845 NEW	1	11	160	23	25	20	8	31.92 ~ 32.20	DIN2189

S-OIL-XPF NEW

Available from February 2018

Threading | Forming taps | G (BSP)



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

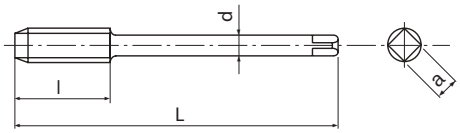
A | G | HSS-Co | V | C/2,5 | DIN 2189

EDP	G	P	L	l	d	a	Z	Ø	DIN
48042839	1/4	19	100	13	11	9	8	12.41 ~ 12.62	DIN2189
48042840	3/8	19	100	13	12	9	8	15.92 ~ 16.12	DIN2189
48042841	1/2	14	125	18	16	12	8	19.93 ~ 20.15	DIN2189
48042842	5/8	14	125	18	18	14,5	8	21.89 ~ 22.11	DIN2189
48042843	3/4	14	140	18	20	16	8	25.42 ~ 25.64	DIN2189
48042844	7/8	14	150	18	22	18	8	29.18 ~ 29.40	DIN2189
48042845	1	11	160	23	25	20	8	31.92 ~ 32.20	DIN2189

S-XPF-GL NEW

Available from February 2018

Threading | Forming taps | G (BSP)



- First choice in quality and performance
- HSSE forming tap for through & blind holes
- Multilayer TiCN coating
- Without oil grooves for higher rigidity

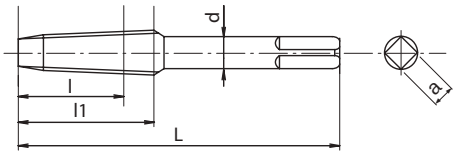
P C <0,2%	P 0,25<C<0,4	P C>0.45%	P SCM	M INOX	N Al	N AC,ADC	
10-20	10-20	10-20	10-20	8-15	10-15	10-15	m/min

A | G | HSS-Co | V | C/2,5 | DIN 2189

EDP	G	P	L	l	d	a	Z	Ø	DIN
48296838	1/8	28	90	9	7	5,5	0	9.24 ~ 9.35	DIN2189
48296839	1/4	19	100	13	11	9	0	12.41 ~ 12.62	DIN2189
48296840	3/8	19	100	13	12	9	0	15.92 ~ 16.12	DIN2189
48296841	1/2	14	125	18	16	12	0	19.93 ~ 20.15	DIN2189
48296842	5/8	14	125	18	18	14,5	0	21.89 ~ 22.11	DIN2189
48296843	3/4	14	140	18	20	16	0	25.42 ~ 25.64	DIN2189
48296844	7/8	14	150	18	22	18	0	29.18 ~ 29.40	DIN2189
48296845	1	11	160	23	25	20	0	31.92 ~ 32.20	DIN2189

A-TPT

Threading | Cutting taps | RC (BSPT)



- First choice in quality and performance
- Powder metal straight flute cutting tap for through & blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and aluminium
- RC (BSPT) tapered 1:16

P	P	P	P	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	Al	AC,ADC	
5-10	5-10	5-10	5-10	5-10	10-15	m/min

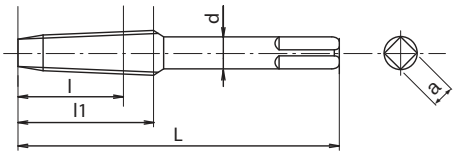
A | Rc (PT) | PM | V | C/2,5 | DIN 5156

EDP	RC	P	L	l1	d	a	Z	DIN
48212384	1/8	28	90	12	7	5,5	4	DIN5156
48212394	1/4	19	100	18	11	9	4	DIN5156
48212404	3/8	19	110	18	14	9	4	DIN5156
48212414	1/2	14	125	23	16	12	4	DIN5156
48212434	3/4	14	140	24	20	16	4	DIN5156
48212454	1	11	160	30	25	20	4	DIN5156

S-TPT NEW

Available from December 2017

Threading | Cutting taps | RC (BSPT)



- HSSE straight flute cutting tap for through & blind holes
- Steam oxide treatment
- For general steels and aluminium
- RC (BSPT) tapered 1:16

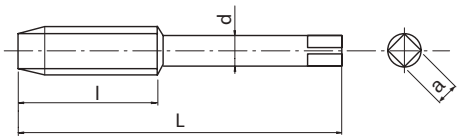
P	P	P	P	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	Al	AC,ADC	
5-10	5-10	5-10	5-10	5-10	10-15	m/min

Rc (PT) | HSSE | OX | C/2,5 | DIN 5156

EDP	RC	P	L	l1	d	a	Z	DIN
48281384	1/8	28	90	12	7	5,5	4	DIN5156
48281394	1/4	19	100	18	11	9	4	DIN5156
48281404	3/8	19	110	18	14	11	4	DIN5156
48281414	1/2	14	125	23	16	12	4	DIN5156
48281434	3/4	14	140	24	20	16	4	DIN5156
48281454	1	11	160	30	25	25	4	DIN5156

NPT

Threading | Cutting taps | NPT



- HSSE straight flute cutting tap for through & blind holes
- For general steels, aluminium and cast iron
- Tapered 1:16

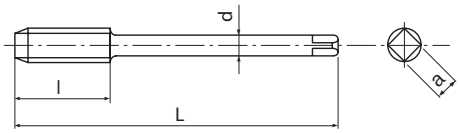
P ○	P ◉	P ◉	P ◉	K ○	K ○	N ○	N ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	GG	GGG	Al	AC,ADC	
3-6	3-6	2-5	2-5	2-5	4-8	5-10	10-15	m/min

NPT | HSSE | C/2,5 | DIN 2181

EDP	NPT	P	L	l	d	a	z	DIN
60087500	1/16	27	56	14	6	4,9	4	DIN2181
60087600	1/8	27	63	15	7	5,5	4	DIN2181
60087700	1/4	18	63	21	11	9	4	DIN2181
60087800	3/8	18	70	21	12	9	4	DIN2181
60087900	1/2	14	80	27	16	12	4	DIN2181
60088000	3/4	14	100	27	20	16	5	DIN2181
60088100	1	11,5	110	32	25	20	5	DIN2181

PG

Threading | Cutting taps | PG



- HSSE straight flute cutting tap for through & blind holes
- Bright finish
- For general steels, aluminium and cast iron
- For PG thread

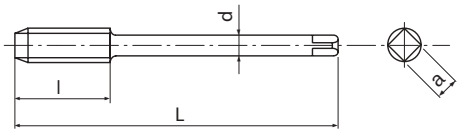
P	P	P	K	N	N	
C <0,2%	0,25<C<0,4	C>0.45%	GGG	Al	AC,ADC	
8-13	7-12	6-9	7-12	10-20	10-15	m/min

PG | HSSE | C/2,5 | DIN 374

EDP	PG	P	L	l	d	a	Z	DIN
1089700110	7	20	100	22	9	7	4	DIN374
1089700060	9	18	100	22	12	9	4	DIN374
1089700020	11	18	110	25	14	11	4	DIN374
1089700120	13,5	18	125	25	16	12	4	DIN374
1089700220	16	18	125	25	18	14,5	4	DIN374
1089700030	21	16	150	30	22	18	4	DIN374
1089700130	29	16	170	33	28	22	6	DIN374
1089700140	36	16	190	36	36	29	6	DIN374
1089700150	42	16	220	36	40	32	6	DIN374
1089700160	48	16	250	36	45	35	6	DIN374

HT

Threading | Cutting taps | Metric



- HSS straight flute cutting tap for through & blind holes
- Bright finish
- For general steels, aluminium and cast iron
- Progressive thread, set of 3 taps with short shank
- 5, 3,5 & 2 pitch chamfer lead

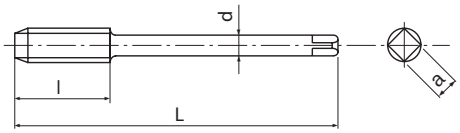
P	P	K	N	N	
0,25<C<0,4	C>0.45%	GGG	Al	AC,ADC	
7-12	6-9	7-12	10-20	10-15	m/min

M	HSS	ISO 2 6H	DIN 352

EDP	M	P	L	l	d	a	Z	DIN
10212566	2	0,4	36	8	2,8	2,1	3	DIN352
10213866	3	0,5	40	11	3,5	2,7	3	DIN352
10214066	3,5	0,6	45	12	4	3	3	DIN352
10214466	4	0,7	45	13	4,5	3,4	3	DIN352
10214966	5	0,8	50	16	6	4,9	3	DIN352
10215566	6	1	56	19	6	4,9	3	DIN352
10216166	8	1,25	63	22	6	4,9	4	DIN352
10216966	10	1,5	70	24	7	5,5	4	DIN352
10217966	12	1,75	75	28	9	7	4	DIN352
10219166	14	2	80	30	11	9	4	DIN352
10220266	16	2	80	32	12	9	4	DIN352
10221466	18	2,5	95	34	14	11	4	DIN352
10222866	20	2,5	95	34	16	12	4	DIN352

HT-VA-OX

Threading | Cutting taps | Metric



- HSSE straight flute cutting tap for through & blind holes
- Steam oxide treatment
- For general steels, aluminium and cast iron
- Progressive thread, set of 3 taps with short shank
- 5, 3,5 & 2 pitch chamfer lead

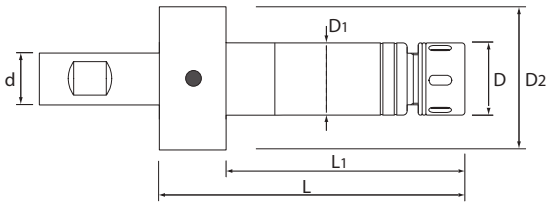
P	P	K	N	N	
0,25<C<0,4	C>0.45%	GGG	Al	AC,ADC	
7-12	6-9	7-12	10-20	10-15	m/min

M	HSSE	OX	ISO 2 6H	DIN 352

EDP	M	P	L	l	d	a	Z	DIN
60112596	2	0,4	36	8	2,8	2,1	3	DIN352
60113896	3	0,5	40	11	3,5	2,7	3	DIN352
60114496	4	0,7	45	13	4,5	3,4	3	DIN352
60114996	5	0,8	50	24	6	4,9	3	DIN352
60115596	6	1	56	27	6	4,9	3	DIN352
60116196	8	1,25	63	22	6	4,9	4	DIN352
60116996	10	1,5	70	24	7	5,5	4	DIN352
60117996	12	1,75	75	28	9	7	4	DIN352
60119196	14	2	80	30	11	9	4	DIN352
60120296	16	2	80	32	12	9	4	DIN352
60121496	18	2,5	95	34	14	11	4	DIN352
60122896	20	2,5	95	34	16	12	4	DIN352

SYNCHROFIT

Threading | Holder | Synchrofit



- Tap holder with radial cutting force compensation
- Improve the tool life
- For tapping sizes from M4 to M20
- Straight shank type, for ER16-GB and ER-25-GB collet type

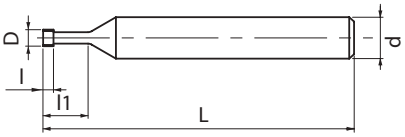
EDP	Designation	D	D1	D2	L	L1	d
EP01922000	ST20-SFH-ER16-80	32	34	45	80	60	20
EP01922500	ST25-SFH-ER16-80	32	34	45	80	60	25
EP01922001	ST20-SFH-ER25-105	42	40	45	105	85	20
EP01922501	ST25-SFH-ER25-105	42	40	45	105	85	25

Accessories

Applicable holder	Collet chuck	Wrench
Ø 16 ~ 80	ER16-GB	FK-0034
Ø 25 ~ 105	ER25-GB	HS-1-16

WX-ST-PNC-3P

Threading | Thread milling | Metric & Metric Fine



- Carbide thread milling cutter with 3 crest thread length
- WXS coating
- For all materials and hardened steels up to 50 HRC
- "ThreadPro" NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ◉	H ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
60-90	60-90	60-90	30-60	60-90	50-100	50-70	50-100	50-100	20-60	20-60	30-60	30-60	m/min

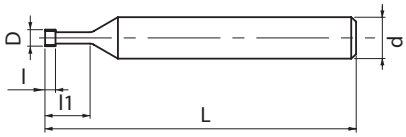
M | MF | CARBIDE | SC (D≤1,3) | WXS (1,5≤D) | 11° | h6

A.370

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z
48216000	1,3	M1,8	0,35	40	1,05	5,4	3	3
48216001	1,5	M2	0,4	40	1,2	6	3	3
48216002	1,9	M2,5	0,45	40	1,35	7,5	6	3
48216003	2,4	M3	0,5	60	1,5	9,5	6	3
48216004	3,1	M4	0,7	60	2,1	12,7	6	3
48216005	4	M5	0,8	60	2,4	15,8	6	3
48216006	4,5	M6	1	60	3	20	6	4
48216007	6	M8	1,25	60	3,75	24	6	4
48216008	7,5	M10	1,5	80	4,5	33	8	4
48216009	12	M16	1,5	100	4,5	50	12	5
48216010	16	M20	1,5	100	4,5	50	16	5
48216011	9,5	M12	1,75	80	5,25	38	10	5
48216012	12	M16	2	100	6	50	12	5
48216013	16	M20	2	100	6	50	16	5
48216014	16	M20	2,5	100	7,5	50	16	5

WH-VM-PNC

Threading | Thread milling | Metric & Metric Fine



- Carbide thread milling cutter for small sizes
- WXS coating1,5 ≤ D, SC coating Dc ≤ 1,3
- For all materials and hardened steels up to 50 HRC
- "ThreadPro " NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ◉	H ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
60-90	60-90	60-90	30-60	60-90	50-100	50-70	50-100	50-100	20-60	20-60	30-60	30-60	m/min

M | MF | CARBIDE | SC (D≤1,3) | WXS (1,5≤D) | 11° | h6

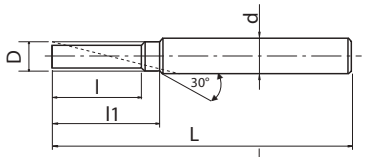
A.370

EDP	D	Minimum cutting bore Ø	Thread per flute	P	L	l	l1	d	Z
3900495	0,72	M1	1	0,25	40	0,25	2,75	3	3
3900496	0,92	M1,2	1	0,25	40	0,25	3,25	3	3
3900497	1,05	M1,4	1	0,3	40	0,3	3,8	3	3
3900498	1,2	M1,6	1	0,35	40	0,35	4,35	3	3
3900499	1,3	M1,7 ~ M1,8	1	0,35	40	0,35	4,85	3	3
3900500	1,5	M2	3	0,4	40	1,2	4,4	6	3
3900501	1,9	M2,5 ~ M2,6	3	0,45	40	1,4	5,6	6	3
3900502	2,4	M3	3	0,5	40	1,5	6,5	6	3
3900503	3,1	M4	3	0,7	40	2,1	8,7	6	3
3900504	4	M5	3	0,8	40	2,4	10,8	6	3

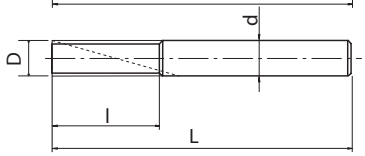
WX-PNC

Threading | Thread milling | Metric & Metric Fine

Type 1



Type 2



- Carbide thread milling cutter
- WX coating
- For all materials
- "ThreadPro" NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
50-75	50-75	40-70	15-30	20-40	50-100	50-65	50-70	65-130	20-60	20-60	15-30	15-30	m/min

M | MF | CARBIDE | WX | 30° | h6

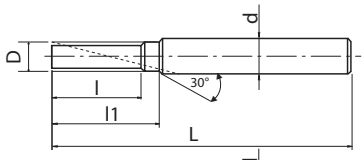
A.371

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z	Type
3900001	4,5	M6	1	60	13	15	6	3	1
3900011	6	M8	1	65	17	-	6	3	2
3900012	6	M8	1,25	65	17,5	-	6	3	2
3900021	7,5	M10	1	70	21	26	8	3	1
1004470640	7,5	M10	1,25	70	21,3	26	8	3	1
3900023	7,5	M10	1,5	70	22,5	26	8	3	1
3900032	9,5	M12	1,25	85	26,3	28	10	4	1
3900033	9,5	M12	1,5	85	25,5	28	10	4	1
3900034	9,5	M12	1,75	85	26,3	28	10	4	1
3900042	10	M14	1	85	29	-	10	4	2
3900043	10	M14	1,5	85	30	-	10	4	2
3900044	10	M14	2	85	30	-	10	4	2
3900052	12	M16	1	95	33	-	12	4	2
3900053	12	M16	1,5	95	34,5	-	12	4	2
3900054	12	M16	2	95	34	-	12	4	2
3900073	16	M20	1,5	105	42	-	16	4	2
3900075	16	M20	2,5	105	42,5	-	16	4	2
3900083	20	M27	1,5	120	49,5	-	20	5	2
3900084	20	M27	2	120	50	-	20	5	2
3900086	20	M27	3	120	51	-	20	5	2

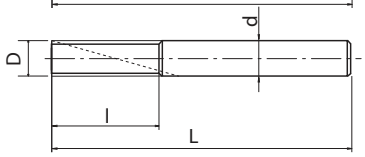
WXO-ST-PNC

Threading | Thread milling | Metric & Metric Fine

Type 1



Type 2



- Carbide thread milling cutter with Centre through coolant
- WX coating
- For all materials and hardened steels up to 45 HRC
- "ThreadPro" NC code generator software available

P ○	P ◉	P ◉	P ◉	M ○	K ○	K ○	N ○	N ○	H ◉	H ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	25-35 HRC	35-45 HRC	
80-120	80-120	80-120	80-120	40-80	50-100	50-65	50-70	65-130	60-100	60-100	m/min

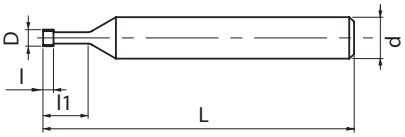
M | MF | CARBIDE | WX | 11° | h6

A.370

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z	Type
8304700	4,5	M6	0,75	60	12,8	15	6	4	1
8304701	4,5	M6	1	60	13	15	6	4	1
8304710	6	M8	0,5	65	16,5	-	6	4	2
8304711	6	M8	1	65	17	-	6	4	2
8304712	6	M8	1,25	65	17,5	-	6	4	2
8304721	7,5	M10	1	70	21	26	8	4	1
8304723	7,5	M10	1,5	70	22,5	26	8	4	1
8304732	9,5	M12	1,25	85	26,3	28	10	5	1
8304733	9,5	M12	1,5	85	25,5	28	10	5	1
8304734	9,5	M12	1,75	85	26,3	28	10	5	1
8304740	10	M14	0,5	85	28,5	-	10	5	2
8304741	10	M14	0,75	85	29,3	-	10	5	2
8304742	10	M14	1	85	29	-	10	5	2
8304743	10	M14	1,5	85	30	-	10	5	2
8304744	10	M14	2	85	30	-	10	5	2
8304752	12	M16	1	95	33	-	12	5	2
8304753	12	M16	1,5	95	34,5	-	12	5	2
8304754	12	M16	2	95	34	-	12	5	2
8304773	16	M20	1,5	105	42	-	16	5	2
8304775	16	M20	2,5	105	42,5	-	16	5	2
8304783	20	M27	1,5	120	49,5	-	20	6	2
8304784	20	M27	2	120	50	-	20	6	2
8304786	20	M27	3	120	51	-	20	6	2

WH-VM-PNC

Threading | Thread milling | U UNJ UNF UNJF



- Carbide thread milling cutter for small sizes
- SC coating Dc ≤ 1,3
- For all materials and hardened steels up to 50 HRC
- "ThreadPro" NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ◉	H ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
60-90	60-90	60-90	30-60	60-90	50-100	50-70	50-100	50-100	20-60	20-60	30-60	30-60	m/min

U | UNJ | UNF | UNJF | CARBIDE | WXS | 11° | h6

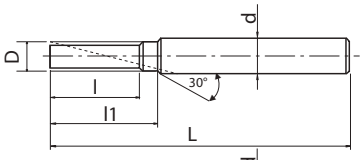
A.370

EDP	D	Minimum cutting bore Ø	Thread per flute	P	L	l	l1	d	Z
3900513	3,2	N°8	3	32	40	2,4	9,1	6	3

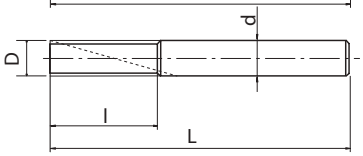
WX-PNC

Threading | Thread milling | UNC & UNF

Type 1



Type 2



- Carbide thread milling cutter
- WX coating
- For all materials
- "ThreadPro" NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
50-75	50-75	40-70	15-30	20-40	50-100	50-65	50-70	65-130	20-60	20-60	15-30	15-30	m/min

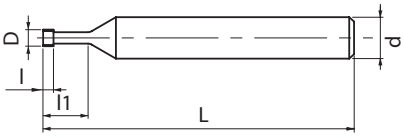
UNC | UNF | CARBIDE | WX | 30° | h6

A.371

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z	Type
3900350	4,55	1/4	20	60	10,2	11,4	6	3	1
3900351	4,55	1/4	28	60	10	10,9	6	3	1
3900355	6,2	5/16	18	65	12,7	14,1	8	3	1
3900356	6,2	5/16	24	65	12,7	14,1	8	3	1
3900360	7,6	3/8	16	65	14,3	-	8	3	2
3900361	7,6	3/8	24	65	14,8	-	8	3	2
3900365	8,8	7/16	14	75	18,1	19,9	10	3	1
3900366	8,8	7/16	20	75	17,8	19,1	10	3	1
3900370	9,4	1/2	13	75	19,5	21,5	10	4	1
3900371	9,4	1/2	20	75	19,1	20,4	10	4	1
3900375	10,9	9/16	12	85	23,3	25,4	12	4	1
3900380	11,4	9/16	18	85	22,6	24	12	4	1
3900390	18,9	7/8	12	110	33,9	36	20	4	1

WX-ST-PNC-3P

Threading | Thread milling | G



- Carbide thread milling cutter with 3 crest thread length
- WXS coating
- For all materials and hardened steels up to 50 HRC
- "ThreadPro" NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ◉	H ◉	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
60-90	60-90	60-90	30-60	60-90	50-100	50-70	50-100	50-100	20-60	20-60	30-60	30-60	m/min

G | CARBIDE | WXS | 11° | h6

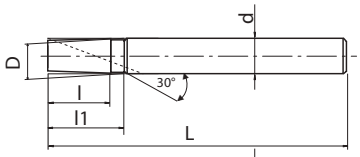
A.370

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z
48216100	5,9	G1/8 G1/16	28	64	2,72	19,5	8	4
48216101	10	G1/4 G3/8	19	80	4	30	10	5
48216102	12	G1/2 G7/8	14	100	5,44	37	12	5
48216103	16	G1 G2	11	100	6,93	48	16	5

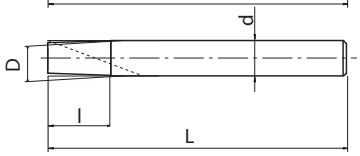
WX-PNC

Threading | Thread milling | G

Type 1



Type 2



- Carbide thread milling cutter
- WX coating
- For all materials
- "ThreadPro" NC code generator software available

P	P	P	P	M	K	K	N	N	S	S	H	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
50-75	50-75	40-70	15-30	20-40	50-100	50-65	50-70	65-130	20-60	20-60	15-30	15-30	m/min

G | CARBIDE | WX | 30° | h6

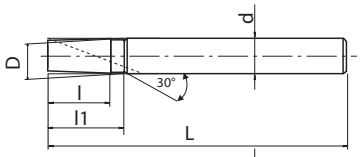
A.371

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z	Type
3900299	5,9	1/16 - 1/8	28	60	11,8	-	6	3	2
3900301	7,5	1/8	28	65	14,5	15,4	8	3	1
3900311	10	1/4 - 3/8	19	75	20,1	-	10	4	2
3900312	11	3/8	19	85	25,4	26,7	12	4	1

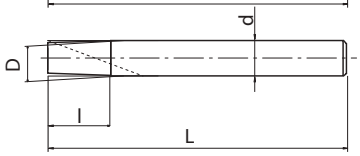
WX-PNC

Threading | Thread milling | RC

Type 1



Type 2



- Carbide thread milling cutter
- WX coating
- For all materials
- "ThreadPro" NC code generator software available

P	P	P	P	M	K	K	N	N	S	S	H	H	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
50-75	50-75	40-70	15-30	20-40	50-100	50-65	50-70	65-130	20-60	20-60	15-30	15-30	m/min

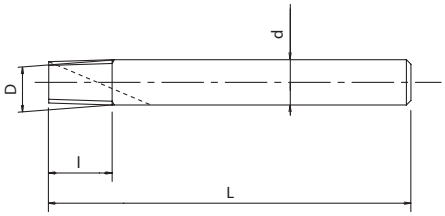
Rc (PT) | CARBIDE | WX | 30° | h6

A.371

EDP	D	Minimum cutting bore Ø	P	L	l	l1	d	Z	Type
3900201	7,5	1/8	28	60	9,1	12,7	8	3	1
3900211	10	1/4~3/8	19	75	14,7	-	10	4	2
3900214	12	1/2~3/4	14	85	20	-	12	4	2
3900218	20	1~2	11	95	27,7	-	20	5	2

WX-PNC

Threading | Thread milling | NPT



- Carbide thread milling cutter
- WX coating
- For all materials
- "ThreadPro" NC code generator software available

P ○	P ○	P ○	P ○	M ○	K ○	K ○	N ○	N ○	S ◉	S ◉	H ○	H ○	
C <0,2%	0,25<C<0,4	C>0.45%	SCM	INOX	GG	GGG	Al	AC,ADC	Ti	Ni	25-35 HRC	35-45 HRC	
50-75	50-75	40-70	15-30	20-40	50-100	50-65	50-70	65-130	20-60	20-60	15-30	15-30	m/min

NPT | CARBIDE | WX | 30° | h6

A.371

EDP	D	Minimum cutting bore Ø	P	L	l	d	Z
3900259	5,9	1/16~1/8	27	60	10,3	6	3
3900261	10	1/4~3/8	18	75	15,5	10	4
3900265	16	1/2~3/4	14	85	20	16	4
3900268	20	1~2	11 1/2	95	24,3	20	5

DCT

Threading | Measuring | Metric

- Diameter correction tool for thread mill
- Reduce the set up and machining time
- Measurable range 100% ~-50% tolerance of thread size 6H

EDP	Thread size	Measurable depth (mm) in Blind Hole	Sleeve diameter
9342000	M6 X 1 -1,5 D	9~	Ø13
9342001	M8 X 1,25-1,5 D	12~	Ø13
9342002	M8 X 1 -1,5 D	12~	Ø13
9342003	M10 X 1,5 -1,2 D	12~	Ø15
9342004	M10 X 1 -1,2 D	12~	Ø15
9342005	M12 X 1,75 -1,2 D	14.4~	Ø17
9342006	M12 X 1,5 -1,2 D	14.4~	Ø17
9342007	M12 X 1,25 -1,2 D	14.4~	Ø17
9342008	M14 X 2 -1,2 D	16.8~	Ø19
9342009	M14 X 1,5 -1,2 D	16.8~	Ø19
9342010	M14 X 1 -1,2 D	16.8~	Ø19
9342011	M16 X 2 -1 D	16~	Ø21
9342012	M16 X 1,5 -1 D	16~	Ø21
9342013	M18 X 2,5 -1 D	18~	Ø23
9342014	M18 X 1,5 -1 D	18~	Ø23
9342015	M20 X 2,5 -1 D	20~	Ø25
9342016	M20 X 1,5 -1 D	20~	Ø25
9342017	M24 X 3 -1 D	24~	Ø29

DCT

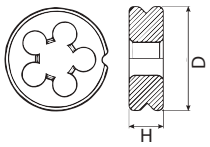
Threading | Measuring | UNJF

- Diameter correction tool for thread mill
- Reduce the set up and machining time
- Measurable range 100% ~-50% tolerance of thread size 3B

EDP	Thread size	Measurable depth (mm) in Blind Hole	Sleeve diameter
9342018	5/16 - 24UNJF- 1,5 D	11,9~	Ø13

DIN 223B

Threading | Circular dies | Metric



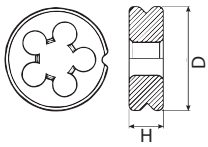
- HSS solid circular dies DIN223B
- Bright finish
- With spiral entry for forward chip ejection
- Chamfer lead on both sides

M | HSS | ISO 2 6G

EDP	M	P	D	H
16213871	3	0,5	20	5
16214471	4	0,7	20	5
16214971	5	0,8	20	7
16215571	6	1	20	7
16216172	8	1,25	25	9
16216973	10	1,5	30	11
16217974	12	1,75	38	14
16219174	14	2	38	14
16220275	16	2	45	18
16221475	18	2,5	45	18
16222875	20	2,5	45	18

DIN 223B

Threading | Circular dies | G



- HSS solid circular dies DIN223B
- Bright finish
- With spiral entry for forward chip ejection
- Chamfer lead on both sides

G | HSS | ISO 228 | DIN 259

EDP	G	P	D	H	DIN
16281974	1/8	28	38	10	DIN259
16282074	1/4	19	38	10	DIN259
16282175	3/8	19	45	14	DIN259
16282275	1/2	14	45	14	DIN259

WH-VM-PNC/WX-ST-PNC-3P

Work Material		Vc (m/min)	F (mm/tooth)
Low Tensile Strength Steel	C~0,25%	60~90	0,02~0,08
Medium Tensile Strength Steel	C~0,25% ~ 0,45%	60~90	0,02~0,08
High Tensile Strength Steel	C0,45%~	60~90	0,02~0,08
Alloy Steel	SCM	30~60	0,01~0,03
Hardened Steel	25~45 HRC	30~60	0,01~0,03
	45~55 HRC	30~60	0,01~0,03
	50~60 HRC	-	-
Stainless Steel	SUS	60~90	0,02~008
Tool Steel	SKD	-	-
Cast Steel	SC	40~65	0,02~0,09
Cast Iron	FC	50~100	0,03~0,1
Ductile Cast Iron	FCD	50~70	0,03~0,1
Copper	Cu	-	-
Brass	Bs	-	-
Brass Casting	BsC	50~100	0,02~0,06
Bronze	PB	50~100	0,02~0,06
Alumunium Rolled Steel	AL	50~100	0,02~0,06
Aluminium Alloy Casting	AC, ADC	50~100	0,02~0,06
Magnesium Alloy Casting	MC	50~100	0,02~0,06
Zinc Alloy Casting	ZDC	50~100	0,02~0,06
Titanium Alloys	Ti-6AL-4V	20~60	0,01~0,03
Nickel Alloys	Inconel®	20~60	0,01~0,03
Thermosetting plastic	-	50~100	0,02~0,06
Thermoplastic	-	50~100	0,02~0,06

WXO-ST-PNC

Work Material		Vc (m/min)	F (mm/tooth)
Low Tensile Strength Steel	C~0,25%	80~120	0,04~0,1
Medium Tensile Strength Steel	C~0,25% ~ 0,45%	80~120	0,04~0,1
High Tensile Strength Steel	C0,45%~	80~120	0,04~0,1
Alloy Steel	SCM	80~120	0,02~0,08
Hardened Steel	25~45 HRC	60~100	0,02~0,08
	45~55 HRC	-	-
	50~60 HRC	-	-
Stainless Steel	SUS	40~80	0,02~0,06
Tool Steel	SKD	-	-
Cast Steel	SC	40~65	0,02~0,09
Cast Iron	FC	50~100	0,03~0,1
Ductile Cast Iron	FCD	50~65	0,03~0,1
Copper	Cu	65~130	0,03~0,1
Brass	Bs	65~130	0,03~0,1
Brass Casting	BsC	65~130	0,03~0,1
Bronze	PB	65~130	0,03~0,1
Alumunium Rolled Steel	AL	50~70	0,03~0,1
Aluminium Alloy Casting	AC, ADC	65~130	0,03~0,1
Magnesium Alloy Casting	MC	65~130	0,03~0,1
Zinc Alloy Casting	ZDC	65~130	0,03~0,1
Titanium Alloys	Ti-6AL-4V	20~60	0,02~0,06
Nickel Alloys	Inconel®	20~60	0,01~0,03
Thermosetting plastic	-	65~130	0,03~0,13
Thermoplastic	-	65~130	0,03~0,13

WX-PNC

Work Material		Vc (m/min)	F (mm/tooth)
Low Tensile Strength Steel	C~0,25%	50~75	0,01~0,11
Medium Tensile Strength Steel	C~0,25% ~ 0,45%	40~70	0,01~0,11
High Tensile Strength Steel	C0,45%~	40~70	0,01~0,01
Alloy Steel	SCM	15~30	0,01~0,03
Hardened Steel	25~45 HRC	15~30	0,01~0,03
	45~55 HRC	-	-
	50~60 HRC	-	-
Stainless Steel	SUS	20~40	0,01~0,06
Tool Steel	SKD	-	-
Cast Steel	SC	40~65	0,02~0,09
Cast Iron	FC	50~100	0,03~0,1
Ductile Cast Iron	FCD	50~65	0,03~0,1
Copper	Cu	65~130	0,03~0,1
Brass	Bs	65~130	0,03~0,1
Brass Casting	BsC	65~130	0,03~0,1
Bronze	PB	65~130	0,03~0,1
Alumunium Rolled Steel	AL	50~70	0,03~0,1
Aluminium Alloy Casting	AC, ADC	65~130	0,03~0,1
Magnesium Alloy Casting	MC	65~130	0,03~0,1
Zinc Alloy Casting	ZDC	65~130	0,03~0,1
Titanium Alloys	Ti-6AL-4V	20~60	0,02~0,06
Nickel Alloys	Inconel®	20~60	0,01~0,03
Thermosetting plastic	-	65~130	0,03~0,13
Thermoplastic	-	65~130	0,03~0,13