



X Performer Forming Taps

XPF SERIES

Volume 8



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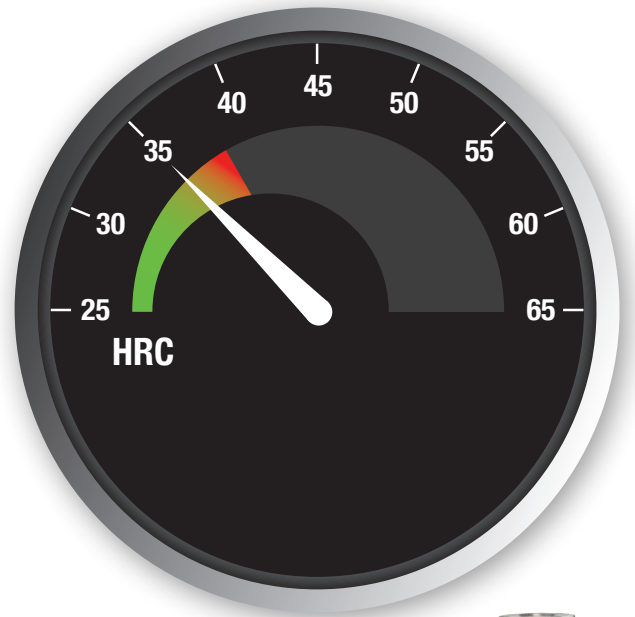
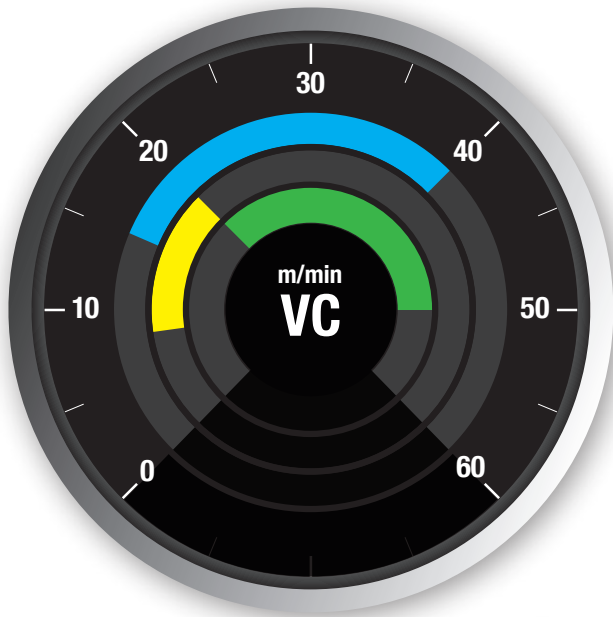
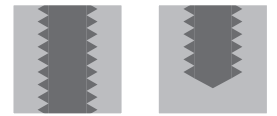
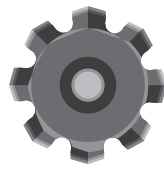
X PERFORMER FORMING (XPF) TAP SERIES

1 Low-torque spec with specially designed threading

2 V-Coating: extreme wear resistance

3 Size range from M1 to M45





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



S-XPF Series

First choice in quality and performance

HSSE forming tap for through & blind holes

Multilayer V coating: extreme wear resistance

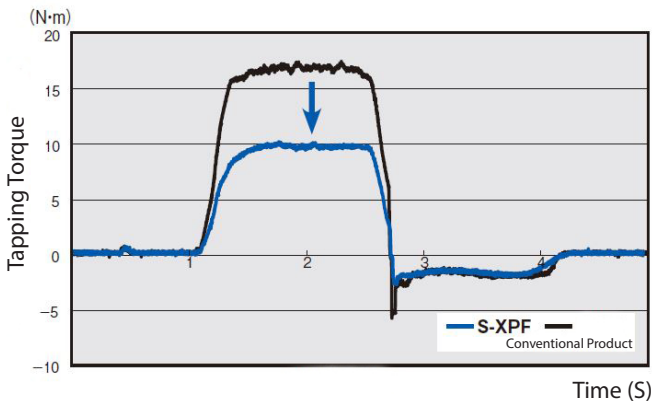
For general steels, stainless steels, aluminium



XPF IS DIFFERENT FROM OTHERS!



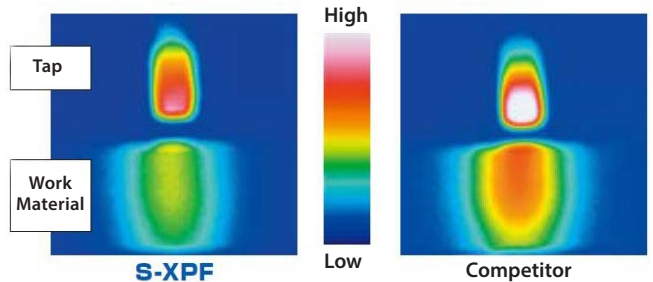
Reducing approx. **40%** of machining torque



Restraining Burrs

Reducing approx. **20%** of heat generation

A thermograph image taken immediately after tapping



* To photograph the process, machining was carried out by applying paste instead of using coolant. However, during normal machining, coolant should be used.

Resistance improved

Minimum Quantity Lubrication

XPF has a high durability even machining with chlorine-free coolant. S-OIL-XPF is also suitable for MQL machining operation.

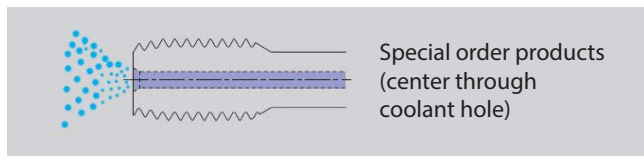


Deciding cutting speed

Does low cutting speed contribute to long tool life? It doesn't apply to XPF. Slow speed tapping, which generates less heat, causes bigger cutting resistance and tool wear. Cutting speed should be adjusted properly to find the most appropriate cutting speed for tool life.

Comparison of durability by the difference in cutting speed

Tool	S-OIL-XPF M8 x 1,25
Work Material	S50C
Hole Size	Ø 7,4 x 23 mm (Blind)
Tapping Length	18 mm (2,3D) (Blind)
Cutting Speed	10~40 m/min
Coolant	MQL 50cc/h (Internal)
Machine	Horizontal Machining Center



Cutting Speed	Tapping Holes					
	1.000	2.000	3.000	4.000	5.000	
10m/min	2.500 (Holes)					Excessive Wear
	3.000 (Holes)					Excessive Wear
20m/min	4.500 (Holes)					Excessive Wear
	4.375 (Holes)					GP-OUT
30m/min	3.806 (Holes)					Excessive Rubbing Noise
	3.355 (Holes)					GP-OUT
40m/min	1.606 (Holes)					GP-OUT
	812 (Holes)					GP-OUT

Choosing the Appropriate Coolant

High lubricant water-soluble coolant is highly recommended as well as non-soluble coolant. Water-soluble coolant must be used for high speed cutting. Non-soluble coolant can be used is only 20m/min or below.

Machining Holder and Work Holding

Please select the appropriate equipment depending on the maximum torque, torque curve, and others of the machine. XPF generates lower torque, as compared with the conventional forming taps.

Calculation for torque

XPF achieves 30% reduction of torque, according to the calculation. The tapping data on page 3 shows 40% reduction of torque in synergy with appropriate cutting speed. Please refer to the following table for large diameter tapping and the formula for calculating torque.

Calculated machining torque of large diameter taps by work materials

Thread Size	Pitch Diameter	Coefficient of Work Material					
		2	4	8	11	12	14
		AC	ADC	Bs	SS400	S45C	SCM (~35HRC)
M18 X 2,5	16,376	14	28	56	77	84	98
M18 X 1,5	17,026	5	11	21	29	32	37
M20 X 2,5	18,376	16	32	63	87	95	110
M20 X 1,5	19,026	6	12	24	32	35	41
M22 X 2,5	20,376	17	35	70	96	105	122
M22 X 1,5	21,026	6	13	26	36	39	45
M24 X 3,0	22,051	27	54	109	150	163	191
M24 X 1,5	23,026	7	14	28	39	43	50
M27 X 3,0	25,051	31	62	124	170	186	217
M30 X 3,5	27,727	47	93	187	256	280	326
M33 X 3,5	30,727	52	103	207	284	310	362
M36 X 4,0	33,402	73	147	293	404	440	514
M42 X 4,5	39,077	109	217	435	597	652	760
M45 X 4,5	42,077	117	234	468	643	702	819

* Please note that this shows the theoretical values of machining torques in case of the external supply of water-soluble coolant
 * It does not guarantee the actual torque.

Following formulas are used for calculating torque

Torque calculation for forming Tap

Conventional forming taps

$$T = 0,09806 \times K \times E \times P^2$$

T : Torque

K : Coefficient of work material

XPF series

$$T = 0,06864 \times K \times E \times P^2$$

E : Pitch diameter

P : Pitch

In case of M30 X 3,5 working on SCM440

$$T = 0,06864 \times 14 \times 27,727 \times 3,5^2 = 326 \text{ N/m}$$

The above formulas are the guideline in case of the external supply of water-soluble coolant. Please note that the actual torque changes depending on the work environment.

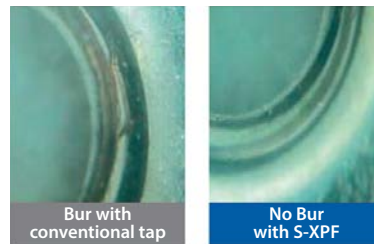
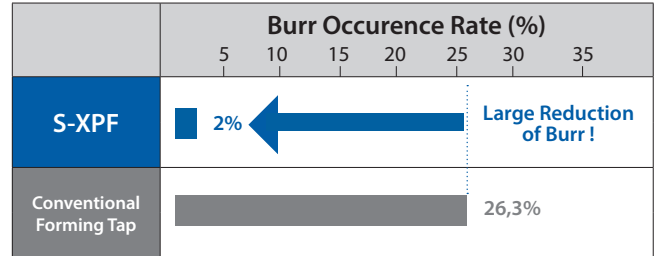
Work Material	Coefficient
Aluminium Alloy	2
Aluminium Die Casting	3~4
Brass	6~8
Mild Steel	10~11
Carbon Steel	11~12
Alloy Steel (Hardened Steel)	13~14

USEFUL TIPS

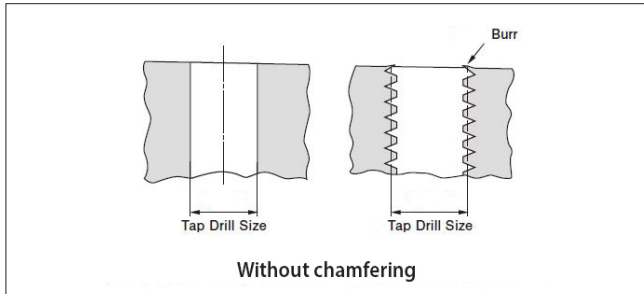
Countermeasure for burr

Comparing with the conventional forming taps, XPF reduces burr with low-torque spec.

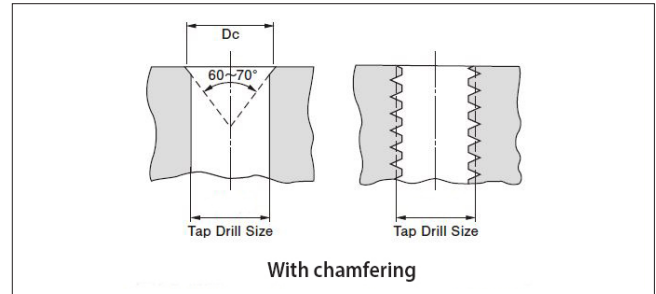
Tool	S-XPF M3x0,5 4P	Conv. Forming Tap
Work Material	Brass	
Hole Size	Ø 2,76 x 3mm (Through)	
Tapping Length	3mm (Through)	
Cutting Speed	(N/A)	
Coolant	Non-Water Soluble	
Machine	Specialized Machine	



Recommending 60° for the chamfer



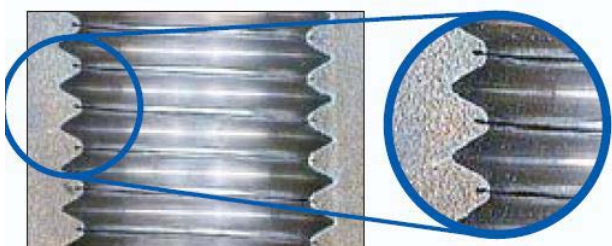
Forming tap forms the screw thread by plastic deformation. Therefore, without having chamfering, burr is made on the edge of the hole. To prevent burr, chamfering with 60° is highly recommended



If 118° of chamfering is required for drilling, burr is prevented by setting the diameter of chamfering to screw size + 2 pitches (Example: M10x1,5 ⇒ 10mm (1,5x2)=13mm)

Shape of complete thread and it's difference

The formed thread has a small slit at the crest.



Forming taps are even 35HRC

Tool	S-XPf M6x1 4P
Work Material	SCM440 (35HRC)
Hole Size	Ø5,51~Ø5,52 x 16mm (Through)
Tapping Length	16mm (Through)
Cutting Speed	15m/min (796 min ⁻¹)
Coolant	Water Soluble Chlorine Free (External)
Machine	Horizontal Machine Center

	Tapping Holes			
	200	400	600	800
S-XPf	664 (Holes)			
	579 (Holes)			
Conventional Product	170 (Holes)			
	223 (Holes)			
Competitor Product	136 (Holes)			
	117 (Holes)			

Thread-rolling process of M45 is no longer a dream

Tool	S-XPf M45x4,5 2P
Work Material	SS400
Hole Size	Ø42,65~Ø42,68 x 45,5mm (Blind)
Tapping Length	36mm (0,8D) (Blind)
Cutting Speed	5m/min (133 min ⁻¹)
Coolant	Water Soluble Chlorine Free (External)
Machine	Horizontal Machine Center



Torque for above machining process is equivalent to 674N-M. Water-soluble coolant and paste are also appropriate for this case.

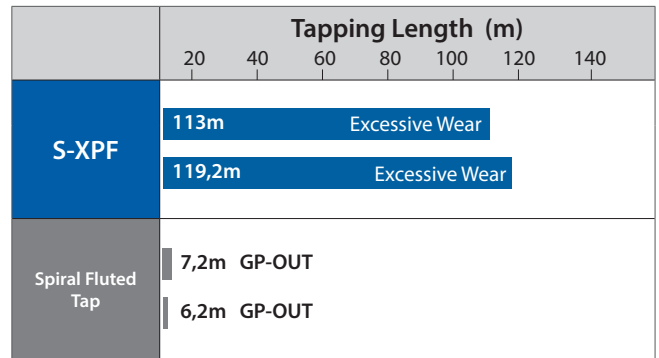
Achieving high efficiency with MQL

Tool	S-OIL-XPf M12x1,75 2P	Conventional Forming Tap
Work Material	SCM420	
Hole Size	Ø11,1x45mm (Blind)	
Tapping Length	36mm (3D) (Blind)	
Cutting Speed	40m/min (1.062 min ⁻¹)	
Coolant	MQL (Internal)	Water Soluble Chlorine Free (External)
Machine	Horizontal Machine Center	

	Tapping Holes	
	5	10
S-OIL-XPf	8 (Holes)	Still Running
Conventional Forming Tap	0 (Hole)	

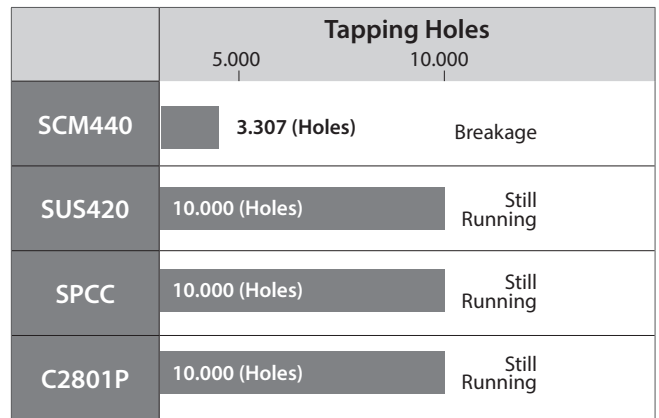
17 times the durability of cutting taps !

Tool	S-XPF M6x1 2P	Spiral fluted Tap M6x1
Work Material	S45C (90HRB)	
Hole Size	Ø5,55x25m- m(Through)	Ø5x15mm(Through)
Tapping Length	18mm (3D) (Blind)	12mm (2D) (Blind)
Cutting Speed	15m/min (796 min ⁻¹)	10m/min (530 min ⁻¹)
Coolant	Water Soluble Chlorine Free (10%)	
Machine	Horizontal Machine Center	



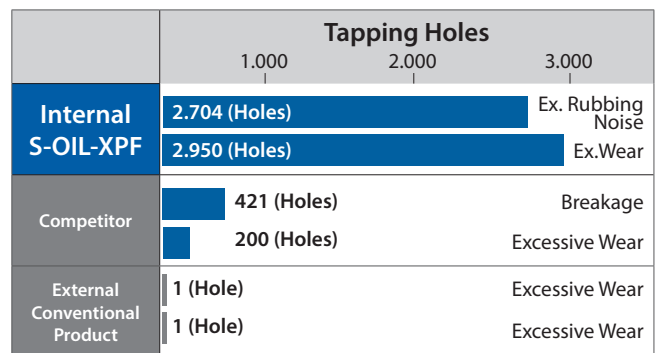
Ideal for work material especially for small diameter threads

Tool	S-XPF M1x0,25 2P			
Work Material	SCM440 Chrome Molybde- num Alloy	SUS420 (30HRC) Stainless Steel	SPCC Cold Rolled Steel	C2801P Brass
Hole Size	Ø0,89 ~ 0,90 x 4mm (Through)			
Tapping Length	2mm (2D) (Blind)			
Cutting Speed	5m/min (1.590 min ⁻¹)		10m/min (3.180 min ⁻¹)	
Coolant	Water Soluble Chlorine Free (10%)			
Machine	Vertical Machine Center			



Internally-fed coolant improve tool life

Tool	S-OIL-XPF M10x1,5 2P
Work Material	SCM440 (35HRC)
Hole Size	Ø9,3x24mm (Through)
Tapping Length	20mm (2D) (Blind)
Cutting Speed	20m/min
Coolant	Water Soluble Chlorine Free (5%)
Machine	Horizontal Machine Center

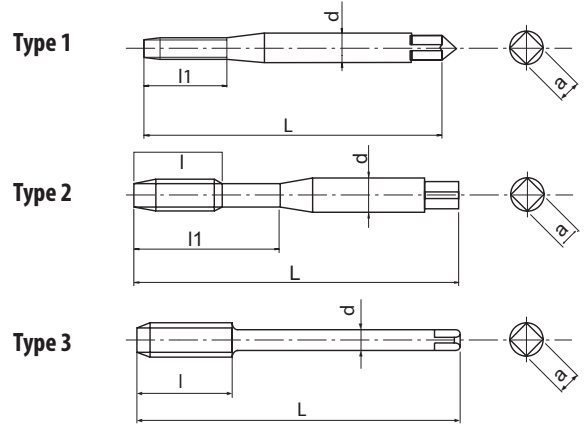


S-XPF NEW SIZES

Threading | Forming taps | Metric



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



Threading | Forming taps

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		m/min
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20		

A	M	HSS-Co	V	ISO 2 6HX	C/2,5				DIN 2174	DIN 2174
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* Tolerance 4HX

Metric

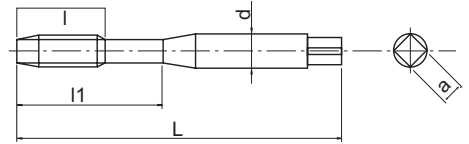
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN	Price
*48030111	1	0,25	40	-	5,5	2,5	2,1	4	0,89 ~ 0,90	1	DIN2174	
*48030112	1,1	0,25	40	-	5,5	2,5	2,1	4	0,99 ~ 1,00	1	DIN2174	
*48030113	1,2	0,25	40	-	5,5	2,5	2,1	4	1,09 ~ 1,10	1	DIN2174	
*48030115	1,4	0,3	40	-	7	2,5	2,1	4	1,26 ~ 1,28	1	DIN2174	
48030118	1,6	0,35	40	-	8	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 <small>NEW</small>	4,5	0,75	70	-	25	6	4,9	5	4,14 ~ 4,20	2	DIN2174	
48030149 <small>NEW</small>	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	2	DIN2174	
48030152 <small>NEW</small>	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 <small>NEW</small>	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 <small>NEW</small>	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	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-XPF FORM D

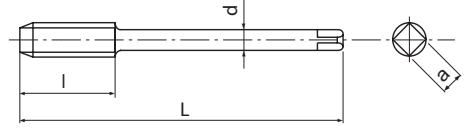
Threading | Forming taps | Metric



Type 1



Type 2



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

Threading | Forming taps

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		m/min
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20		

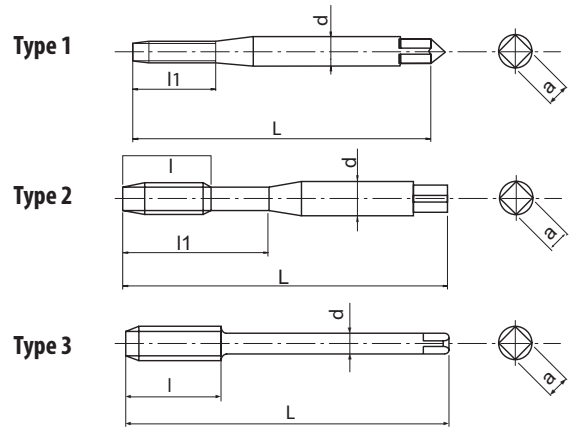
A	M	HSS-Co	V	ISO 2 6HX	D/4	DIN 2174	DIN 2174
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Metric

EDP	M	P	L	l	l1	d	a	Z	∅	Type	DIN	Price
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-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	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

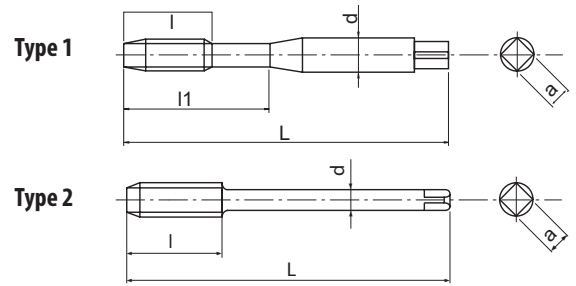
A	M	HSS-Co	V	ISO 2 6HX					
					C/2,5				

EDP	M	P	L	l1	l	d	a	Z	\varnothing	Type	Price
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-XPFLH

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
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EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN	Price
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	

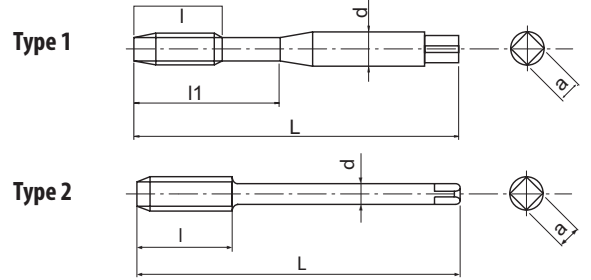
Threading | Forming taps

Metric



S-XPF-HB Weldon

Threading | Forming taps | Metric



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

Threading | Forming taps

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

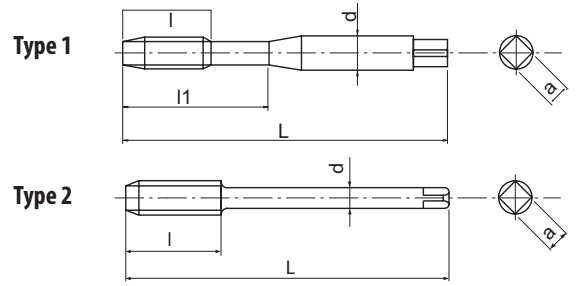
A	M	HSS-Co	V	ISO 2 6HX	C/2,5			DIN 2174	DIN 2174	DIN 1835	HB
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Metric

EDP	M	P	L	I	l1	d	a	Z	\varnothing	Type	DIN	Price
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

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
- 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

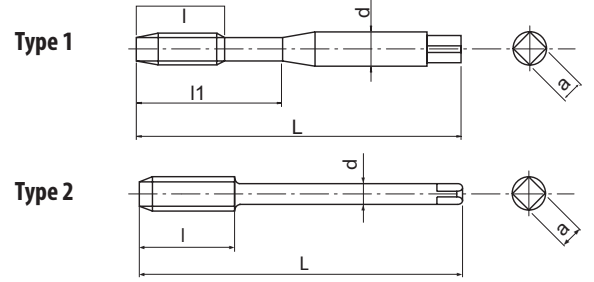
A	M	HSS-Co	V	ISO 2 6HX	C/2,5			DIN 2174	DIN 2174
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EDP	M	P	L	l	l1	d	a	Z	∅	Type	DIN	Price
48296138	3	0,5	56	4	18	3,5	2,7	0	2.77 ~ 2.82	1	DIN2174	
48296144	4	0,7	63	5,6	21	4,5	3,4	0	3.67 ~ 3.72	1	DIN2174	
48296149	5	0,8	70	6,4	25	6	4,9	0	4.62 ~ 4.68	1	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

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
- 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

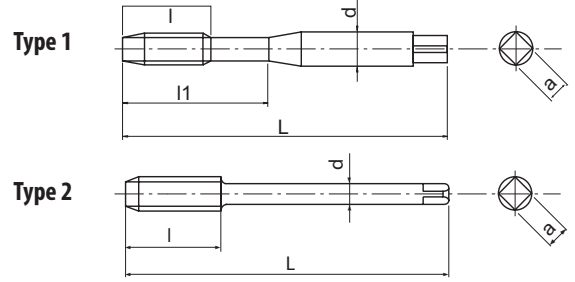
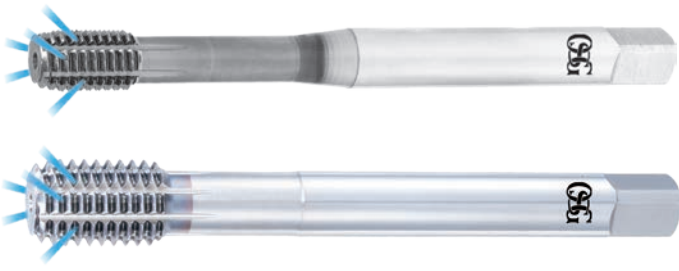
A	M	HSS-Co	V	ISO 3 6GX	C/2,5			DIN 2174	DIN 2174
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EDP	M	P	oversize	L	l	l1	d	a	Z	Ø	Type	DIN	Price
48297138	3	0,5	+0,020	56	-	18	3,5	2,7	0	2.79 ~ 2.83	1	DIN2174	
48297144	4	0,7	+0,022	63	-	21	4,5	3,4	0	3.69 ~ 3.75	1	DIN2174	
48297149	5	0,8	+0,024	70	-	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



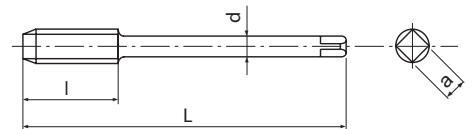
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN	Price
48226149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174	
48226155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174	
48226161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174	
48226169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174	
48226179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20	2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

Threading | Forming taps

Metric

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

Threading | Forming taps

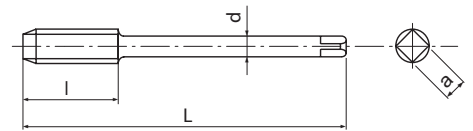
P	P	P	P	M	N	N	H	
C < 0,2%	0,25 < C < 0,4	C > 0,45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min



EDP	MF	P	L	l	d	a	Z	$\frac{d}{Z}$	DIN	Price
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	P	P	P	M	N	N	H	m/min
C < 0,2%	0,25 < C < 0,4	C > 0,45%	SCM	INOX	Al	Al, ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	

A	MF	PM	V	ISO 2 6HX	C/2,5				DIN 2174
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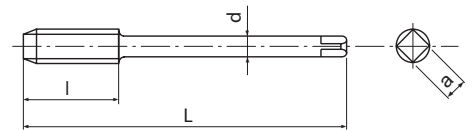
EDP	MF	P	L	l	d	a	Z	\varnothing	DIN	Price
48225162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174	
48225171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174	
48225170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174	
48225182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174	
48225181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174	
48225180	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	

Threading | Forming taps
Metric Fine



S-XPf

Threading | Forming taps | Metric Fine



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

Threading | Forming taps

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

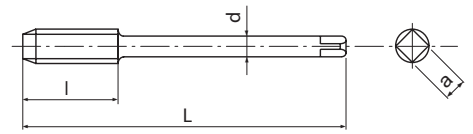
A	MF	HSS-Co	V	ISO 2 6HX	C/2,5				DIN 2174
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Metric Fine

EDP	MF	P	L	l	d	a	Z	\varnothing	DIN	Price
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
- HSE 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



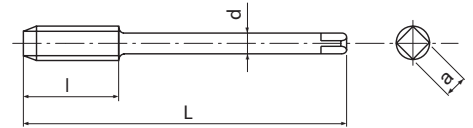
EDP	MF	P	L	l	d	a	Z	ϕ	DIN	Price
48042162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174	
48042171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174	
48042170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174	
48042182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174	
48042181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174	
48042180	12	1,5	100	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	

Threading | Forming taps
Metric Fine



S-XPF 6GX

Threading | Forming taps | Metric Fine



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

Threading | Forming taps

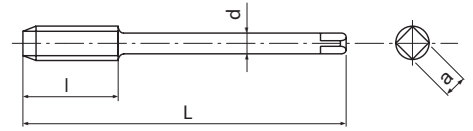
P ●	P ●	P ●	P ●	M ●	N ●	N ●	H ●	
C < 0,2%	0,25 < C < 0,4	C > 0,45%	SCM	INOX	Al	AC, ADC	25-35 HRC	m/min
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	

A	MF	HSS-Co	V	ISO 3 6GX	C/2,5			DIN 2174
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EDP	MF	P	oversize	L	l	d	a	Z	\varnothing	DIN	Price
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

Threading | Forming taps | Metric Fine



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

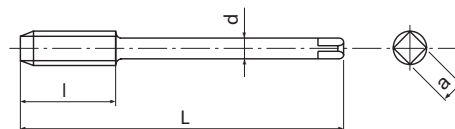
P C < 0,2%	P 0,25 < C < 0,4	P C > 0,45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min



EDP	MF	P	oversize	L	l	d	a	Z	Ø	DIN	Price
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
- HSE forming tap for through holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form D

Threading | Forming taps

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	m/min
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	

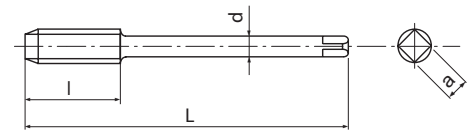


Metric Fine

EDP	MF	P	L	l	d	a	Z	Ø	DIN	Price
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
- HSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Chamfer Form E

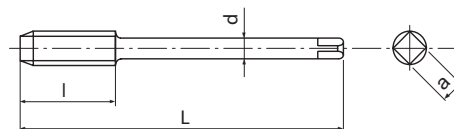
P C < 0,2%	P 0,25 < C < 0,4	P C > 0,45%	P SCM	M INOX	N Al	N AC,ADC	H 25-35 HRC	m/min
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	

A	MF	HSS-Co	V	ISO 2 6HX	E/1,5			DIN 2174
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EDP	MF	P	L	l	d	a	Z	\varnothing	DIN	Price
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

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, center through coolant

Threading | Forming taps

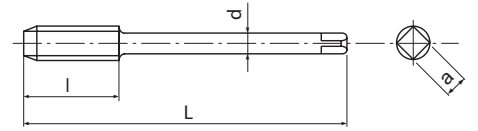
P C < 0,2%	P 0,25 < C < 0,4	P C > 0,45%	P SCM	M INOX	N Al	N AC, ADC	H 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min

A	MF	HSS-Co	V	ISO 2 6HX	E/1,5			DIN 2174
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EDP	MF	P	L	l	d	a	Z	\varnothing	DIN	Price
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-XPf-GL NEW

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

Material compatibility icons showing speed ranges in m/min:

- P C < 0,2% (10-20)
- P 0,25 < C < 0,4 (10-20)
- P C > 0,45% (10-20)
- P SCM (10-20)
- M INOX (8-15)
- N Al (10-15)
- N AC, ADC (10-15)

Tap types and standards:

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

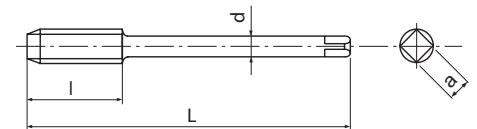
Threading | Forming taps

Metric Fine

EDP	MF	P	L	l	d	a	Z	\emptyset	DIN	Price
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

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	P	P	P	M	N	N	
C < 0,2%	0,25 < C < 0,4	C > 0,45%	SCM	INOX	Al	AC,ADC	
10-20	10-20	10-20	10-20	8-15	10-15	10-15	m/min

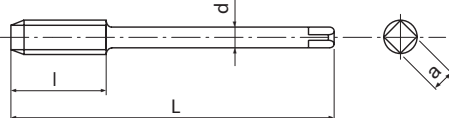


EDP	MF	P	oversize	L	l	d	a	Z	\emptyset	DIN	Price
48297162	8	1	+0,026	90	10	6	4,9	0	7,54 ~ 7,62	DIN2174	
48297171	10	1	+0,026	90	10	7	5,5	0	9,54 ~ 9,62	DIN2174	
48297170	10	1,25	+0,028	100	12	7	5,5	0	9,40 ~ 9,47	DIN2174	
48297182	12	1	+0,026	100	12	9	7	0	11,55 ~ 11,63	DIN2174	
48297181	12	1,25	+0,028	100	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

Threading | Forming taps

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

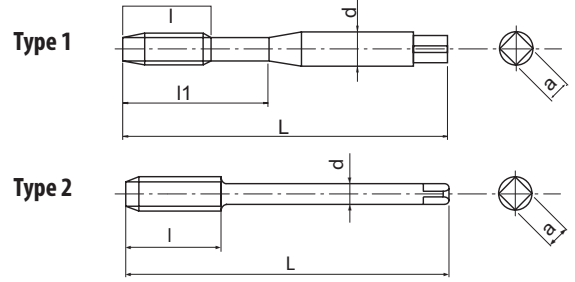
A	MF	CARBIDE	V	ISO 2 6HX	C/2,5					DIN 2174
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EDP	MF	P	L	l	d	a	Z	Ø	DIN	Price
48226162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174	
48226171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174	
48226180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174	
48226192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174	
48226203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174	

Metric Fine

S-XPf

Threading | Forming taps | UNC



- 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

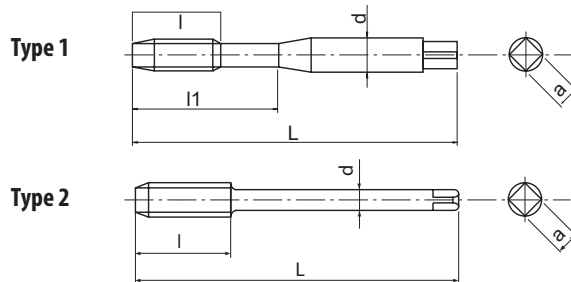
A	UNC	HSS-Co	V	ANSI 2BX	C/2,5				DIN 2184-1	DIN 2184-1
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EDP	UNC	P	L	l	l1	d	a	Z	Ø	Type	DIN	Price
48091459	5	40	56	-	18	3,5	2,7	4	2,86 ~ 2,93	1	DIN2184-1	
48091461	6	32	56	-	20	4	3	4	3,09 ~ 3,17	1	DIN2184-1	
48091464	8	32	63	-	21	4,5	3,4	4	3,76 ~ 3,84	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

Threading | Forming taps | UNC



- 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
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EDP	UNC	P	L	l	l1	d	a	Z	∅	Type	DIN	Price
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	

Threading | Forming taps

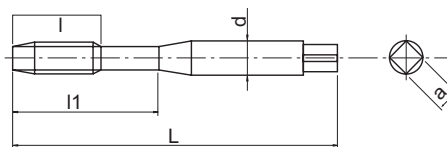
UNC

S-XPF

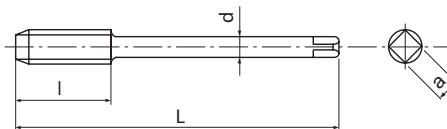
Threading | Forming taps | UNF



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 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
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EDP	UNF	P	L	l	l1	d	a	Z	∅	Type	DIN	Price
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	

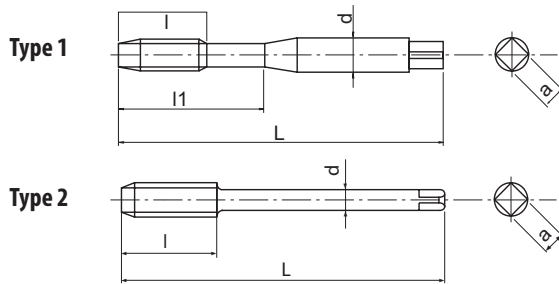
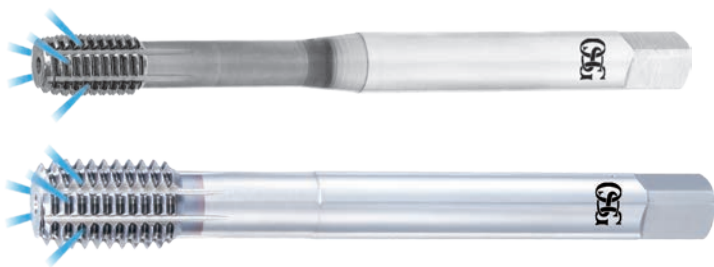
Threading | Cutting taps



UNF

S-OIL-XPf NEW

Threading | Forming taps | UNF



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

Threading | Cutting taps

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

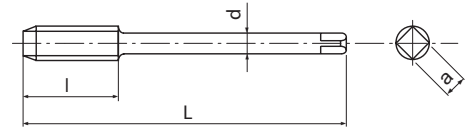
A	UNF	HSS-Co	V	ANSI 2BX	C/2,5			DIN 2184-1	DIN 2184-1
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UNF

EDP	UNF	P	L	l	l1	d	a	Z	∅	Type	DIN	Price
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	

S-XPf NEW SIZES

Threading | Forming taps | G (BSP)



- First choice in quality and performance
- HSE 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	m/min
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	

A	G	HSS-Co	V	C/2,5			DIN 2189
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EDP	G	P	L	I	d	a	Z	\emptyset	DIN	Price
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 <small>NEW</small>	5/8	14	125	18	18	14,5	8	21,89 ~ 22,11	DIN2189	
48064843 <small>NEW</small>	3/4	14	140	18	20	16	8	25,42 ~ 25,64	DIN2189	
48064844 <small>NEW</small>	7/8	14	150	18	22	18	8	29,18 ~ 29,40	DIN2189	
48064845 <small>NEW</small>	1	11	160	23	25	20	8	31,92 ~ 32,20	DIN2189	

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