



X Performer Forming Taps

# XPF SERIES

Volume 8



# INDEX

---

## Metric

A-XPf .....	PAGE 12
A-OIL-XPf .....	PAGE 13
S-XPf NEW SIZES .....	PAGE 14
S-OIL-XPf .....	PAGE 15
S-XPf 6GX .....	PAGE 16
S-OIL-XPf 6GX NEW .....	PAGE 17
S-XPf 7GX .....	PAGE 18
S-XPf+0.1 NEW .....	PAGE 19
S-XPf FORM D .....	PAGE 20
S-XPf FORM E .....	PAGE 21
S-OIL-XPf FORM E NEW .....	PAGE 22
S-LT-XPf .....	PAGE 23
S-OIL-LT-XPf NEW .....	PAGE 24
S-XPf-LH .....	PAGE 25
S-XPf-HB Weldon .....	PAGE 26
S-XPf-GL NEW .....	PAGE 27
S-XPf-GL 6GX NEW .....	PAGE 28
C-OIL-XPf .....	PAGE 29

---

## Metric Fine

A-XPF .....	PAGE 30
A-OIL-XPF .....	PAGE 31
S-XPF .....	PAGE 32
S-OIL-XPF .....	PAGE 33
S-XPF 6GX .....	PAGE 34
S-OIL-XPF 6GX NEW .....	PAGE 35
S-XPF FORM D .....	PAGE 36
S-XPF FORM E .....	PAGE 37
S-OIL-XPF FORM E NEW .....	PAGE 38
S-OIL-LT-XPF NEW .....	PAGE 39
S-XPF-GL NEW .....	PAGE 40
S-XPF-GL 6GX NEW .....	PAGE 41
C-OIL-XPF .....	PAGE 42

## UNC

S-XPF .....	PAGE 43
S-OIL-XPF NEW .....	PAGE 44

## UNF

S-XPF .....	PAGE 45
S-OIL-XPF NEW .....	PAGE 46

## G (BSP)

S-XPF NEW SIZES .....	PAGE 47
S-OIL-XPF NEW .....	PAGE 48
S-XPF-GL NEW .....	PAGE 49

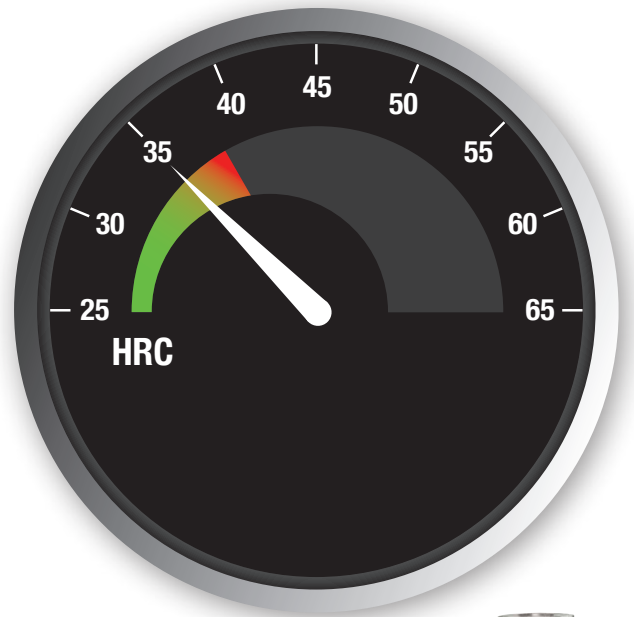
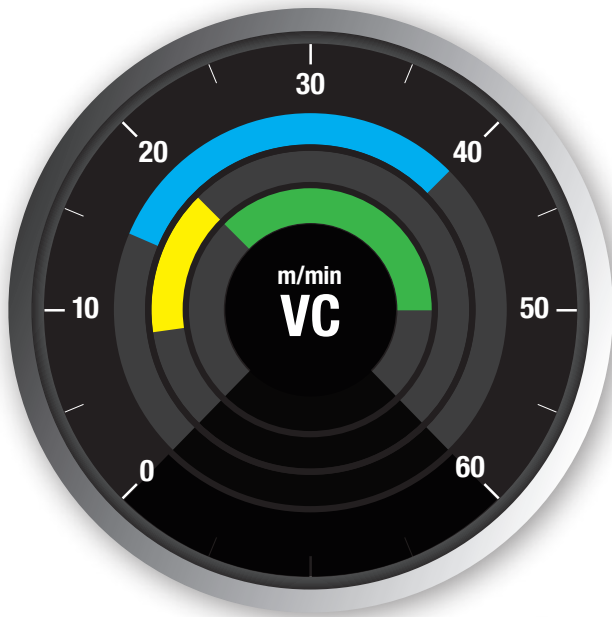
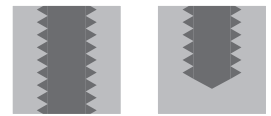
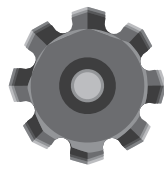
# X PERFORMER FORMING TAP SERIES (XPF)

**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

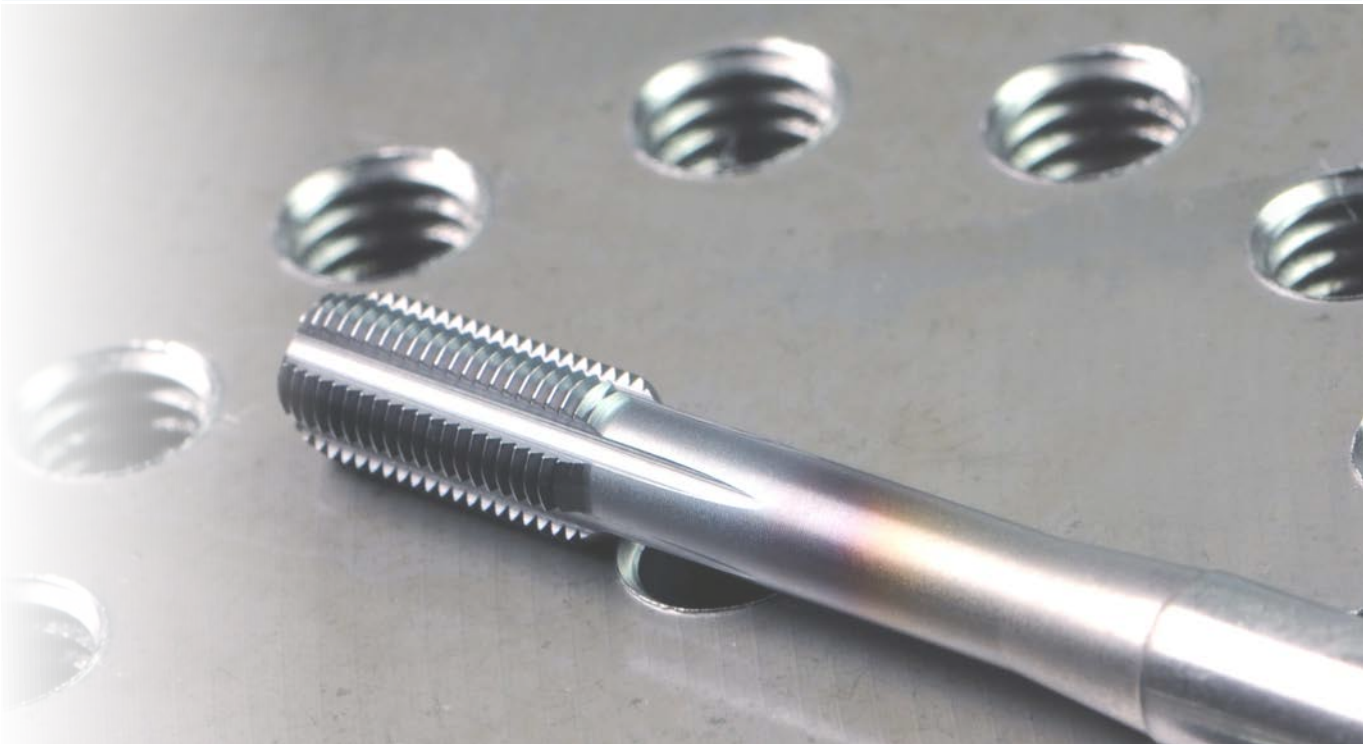
HSSE forming tap for through & blind holes

Multilayer V coating: extreme wear resistance

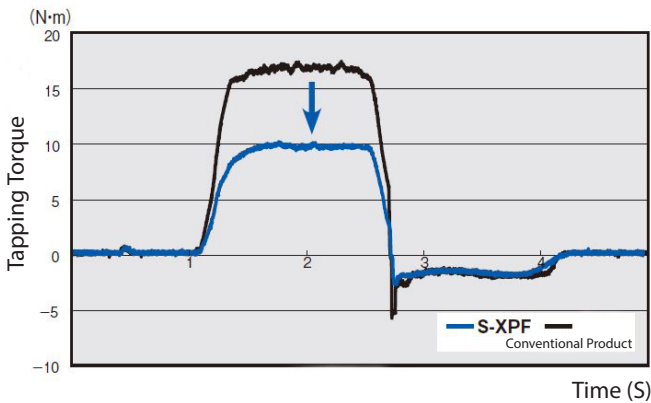
For general steels, stainless steels, aluminium



# XPF IS DIFFERENT FROM OTHERS !



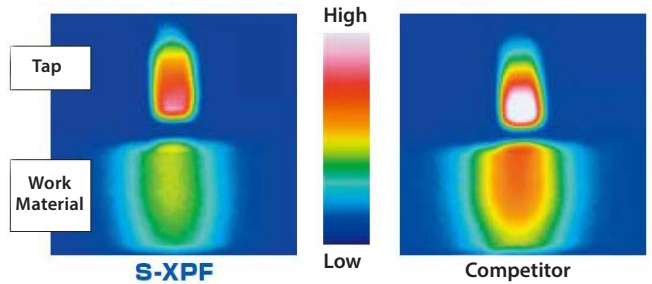
Reducing approx. **40%** of machining torque



**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.





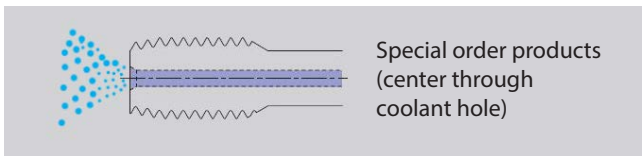
# USEFUL TIPS

## 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

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

# USEFUL TIPS

## 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

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

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

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.

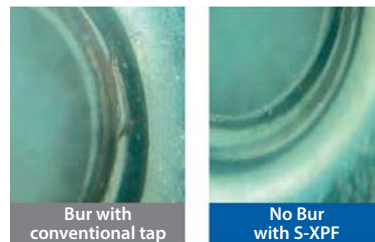
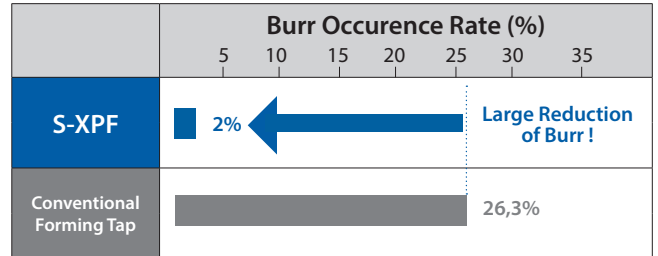


# USEFUL TIPS

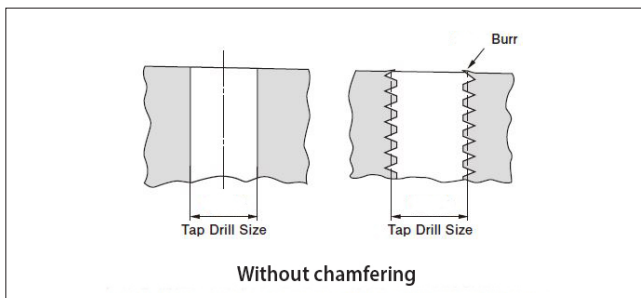
## Countermeasure for Burr

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

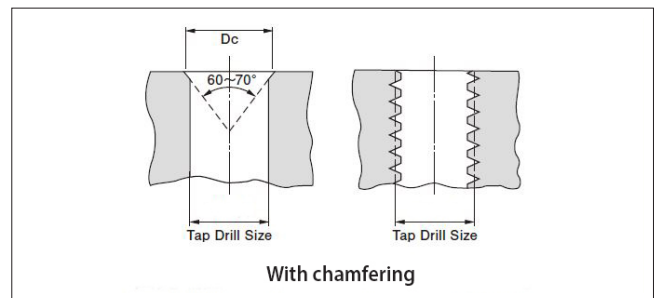
Tool	S-XPF M3x0,5 4P	Conv. Forming Tap
Work Material	Brass	
Hole Size	Ø 2,76 x 3mm (Through)	
Tapping Length	3mm (Through)	
Cutting Speed	(N/A)	
Coolant	Non-Water Soluble	
Machine	Specialized Machine	



## Recommending 60° for the chamfer



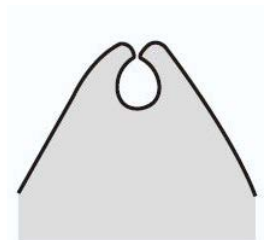
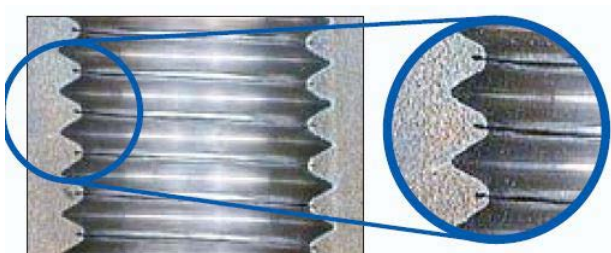
Forming tap forms the screw thread by plastic deformation. Therefore, without having chamfering, burr is made on the edge of the hole. To prevent burr, chamfering with 60° is highly recommended



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.



# PROCESSING DATA

## Forming taps are even 35HRC

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

	Tapping Holes			
	200	400	600	800
<b>S-XPf</b>	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

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

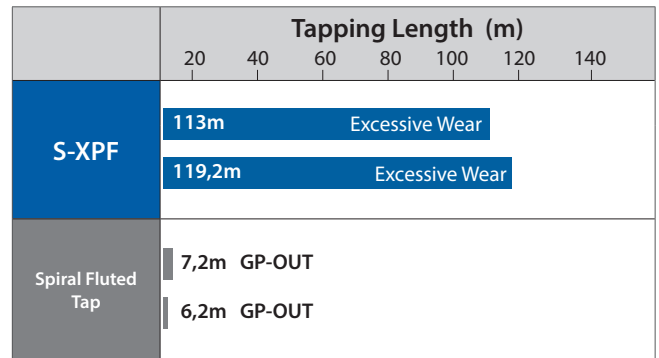
<b>Tool</b>	S-OIL-XPf M12x1,75 2P	Conventional Forming Tap
<b>Work Material</b>	SCM420	
<b>Hole Size</b>	Ø11,1x45mm (Blind)	
<b>Tapping Length</b>	36mm (3D) (Blind)	
<b>Cutting Speed</b>	40m/min (1.062 min <sup>-1</sup> )	
<b>Coolant</b>	MQL (Internal)	Water Soluble Chlorine Free (External)
<b>Machine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

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

# PROCESSING DATA

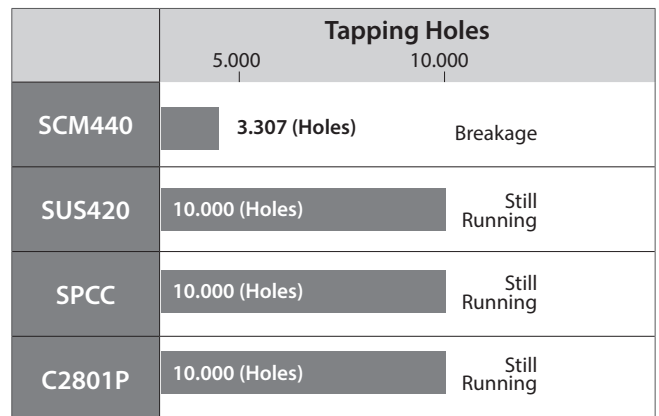
## 17 times the durability of cutting taps !

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 <sup>-1</sup> )	10m/min (530 min <sup>-1</sup> )	
Coolant	Water Soluble Chlorine Free (10%)		
Machine	Horizontal Machine Center		



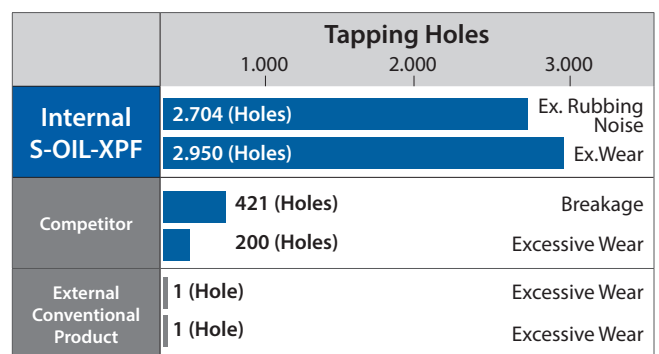
## Ideal for work material especially for small diameter threads

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 <sup>-1</sup> )		10m/min (3.180 min <sup>-1</sup> )	
Coolant	Water Soluble Chlorine Free (10%)			
Machine	Vertical Machine Center			



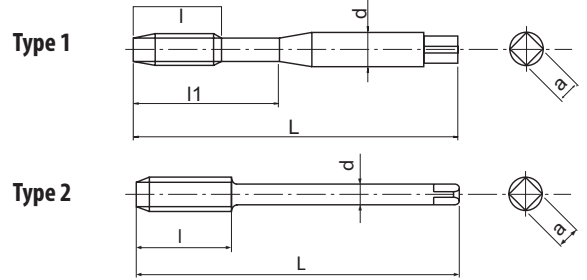
## Internally-fed coolant improve tool life

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	



# A-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
- Powder metal for long tool life

Threading | Forming taps

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

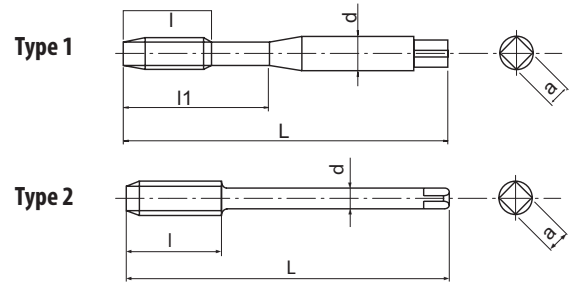
<b>A</b>	<b>M</b>	<b>PM</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>C/2,5</b>	<b>DIN 2174</b>	<b>DIN 2174</b>
----------	----------	-----------	----------	------------------	--------------	-----------------	-----------------

Metric

EDP	M	P	L	I	l1	d	a	Z	$\emptyset$	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

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

<b>A</b>	<b>M</b>	<b>PM</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>C/2,5</b>				<b>DIN 2174</b>	<b>DIN 2174</b>
----------	----------	-----------	----------	------------------	--------------	--	--	--	-----------------	-----------------

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

Threading | Forming taps

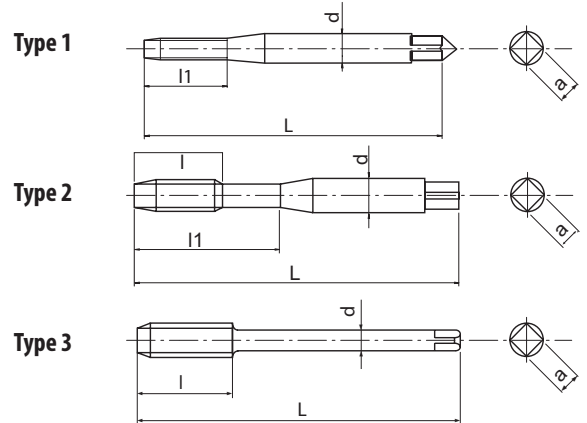


Metric

## 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

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

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

\* Tolerance 4HX

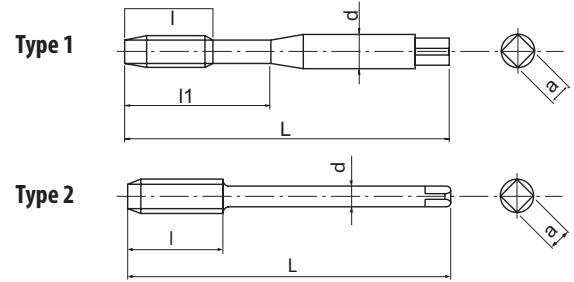
EDP	M	P	L	l	l1	d	a	Z	Ø	Type	DIN
*48030111	1	0,25	40	-	5,5	2,5	2,1	4	0,89 ~ 0,90	1	DIN2174
*48030112	1,1	0,25	40	-	5,5	2,5	2,1	4	0,99 ~ 1,00	1	DIN2174
*48030113	1,2	0,25	40	-	5,5	2,5	2,1	4	1,09 ~ 1,10	1	DIN2174
*48030115	1,4	0,3	40	-	7	2,5	2,1	4	1,26 ~ 1,28	1	DIN2174
48030118	1,6	0,35	40	-	8	2,5	2,1	4	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 <small>NEW</small>	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 <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	-	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

Metric

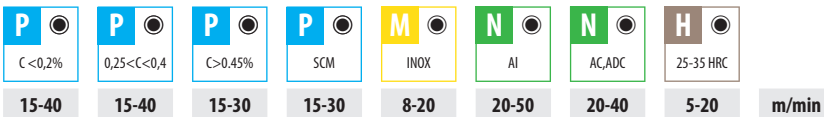


# S-OIL-XPF

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
- Side through coolant



EDP	M	P	L	l	l1	d	a	Z	∅	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

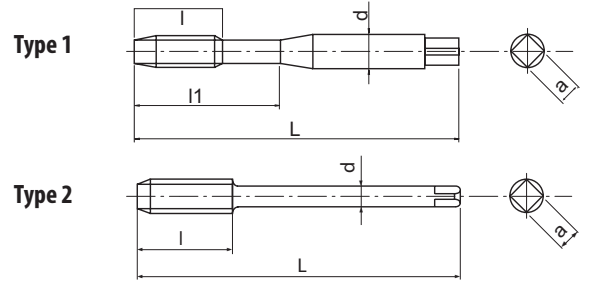
Threading | Forming taps  
Metric



Metric

# S-XPF 6GX

## 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
- For 6G internal thread tolerance

Threading | Forming taps

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

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

Metric

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

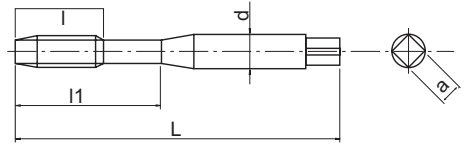


# S-XPF 7GX

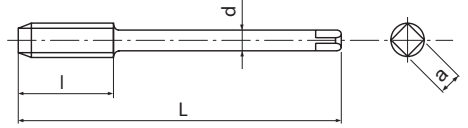
Threading | Forming taps | Metric



Type 1



Type 2



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

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

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

EDP	M	P	oversize	L	l	l1	d	a	Z	$\emptyset$	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

Threading | Forming taps

Metric

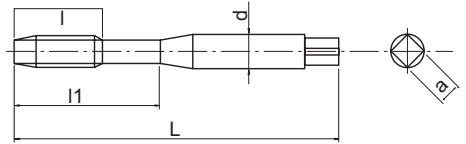


# S-XPF FORM D

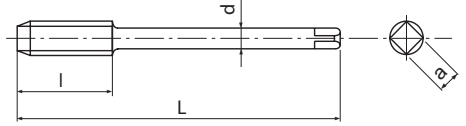
Threading | Forming taps | Metric



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

<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>M</b>	<b>N</b>	<b>N</b>	<b>H</b>	
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	

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

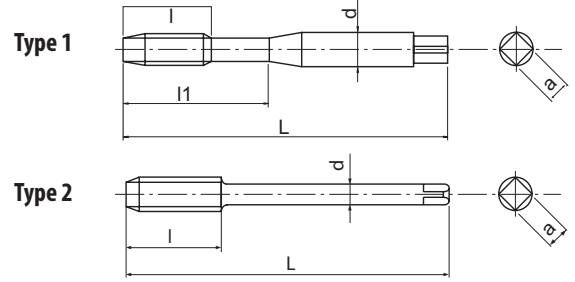
Metric

EDP	M	P	L	l	l1	d	a	Z	$\varnothing$	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



- 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

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

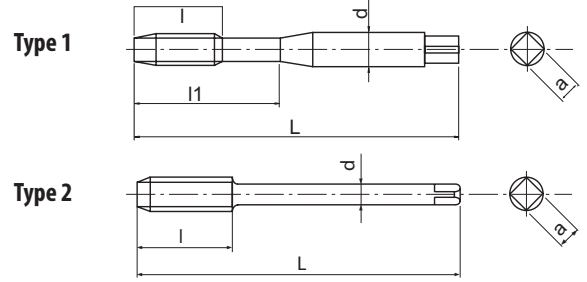
<b>A</b>	<b>M</b>	<b>HSS-Co</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>E/1,5</b>		<b>DIN 2174</b>	<b>DIN 2174</b>
----------	----------	---------------	----------	------------------	--------------	--	-----------------	-----------------

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-XPFORM E NEW

Available from January 2018

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
- Side through coolant, chamfer Form E

Threading | Forming taps

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

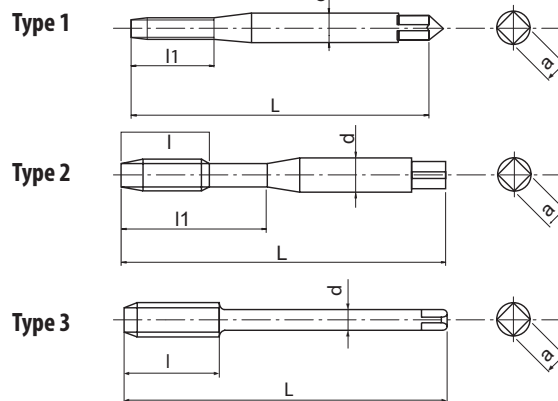
<b>A</b>	<b>M</b>	HSS-Co	<b>V</b>	ISO 2 6HX	E/1,5					DIN 2174	DIN 2174
----------	----------	--------	----------	-----------	-------	--	--	--	--	----------	----------

Metric

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

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

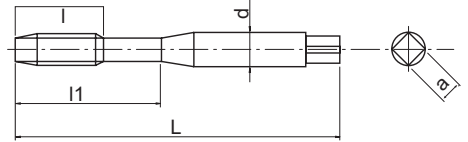
<b>A</b>	<b>M</b>	<b>HSS-Co</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>C/2,5</b>				
----------	----------	---------------	----------	------------------	--------------	--	--	--	--

EDP	M	P	L	l1	l	d	a	Z	$\varnothing$	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

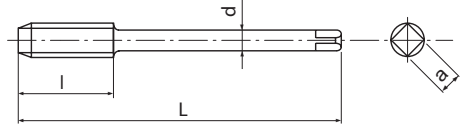




Type 1



Type 2



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

Threading | Forming taps

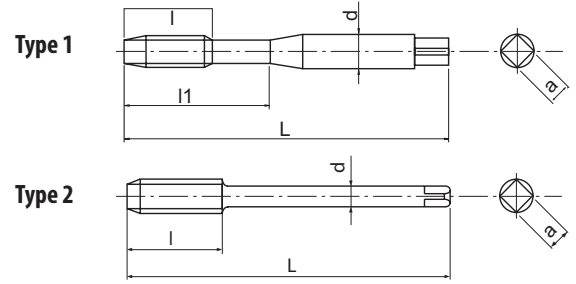
<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>M</b>	<b>N</b>	<b>N</b>	<b>H</b>	
C < 0,2%	0,25 < C < 0,4	C > 0,45%	SCM	INOX	Al	AC,ADC	25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min



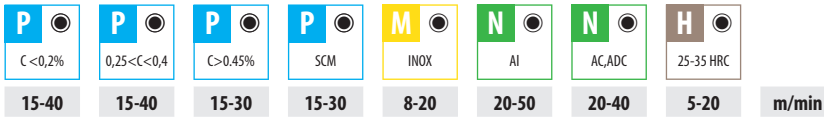
EDP	M	P	L	l	l1	d	a	Z	$\varnothing$	Type
48295155	6	1	160	-	30	6	4,9	5	5.51 ~ 5.59	1
48295161	8	1,25	180	-	35	8	6,2	5	7.37 ~ 7.45	1
48295169	10	1,5	200	-	39	10	8	8	9.24 ~ 9.33	1
48295179	12	1,75	200	18	-	9	7	8	11.10 ~ 11.20	2

# 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

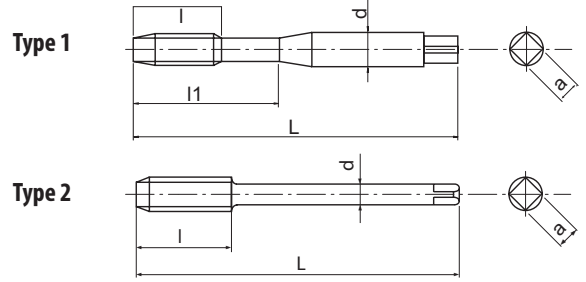


EDP	M	P	L	l	l1	d	a	Z	$\phi$	Type	DIN
48219138	3	0,5	56	-	18	3,5	2,7	4	2,77 ~ 2,82	1	DIN2174
48219144	4	0,7	63	-	21	4,5	3,4	4	3,67 ~ 3,72	1	DIN2174
48219149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48219155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48219161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
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

Threading | Forming taps  
Metric

# S-XPF-HB Weldon

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 Weldon shank

<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>M</b>	<b>N</b>	<b>N</b>	<b>H</b>		
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	

<b>A</b>	<b>M</b>	<b>HSS-Co</b>	<b>V</b>	<b>ISO 2 6HX</b>							<b>DIN 1835</b>	<b>HB</b>
----------	----------	---------------	----------	------------------	--	--	--	--	--	--	-----------------	-----------

EDP	M	P	L	l	l1	d	a	Z		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

Threading | Forming taps

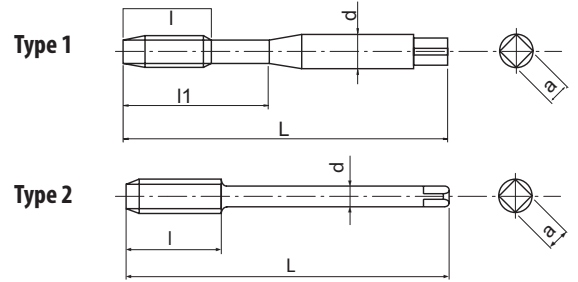
Metric



# S-XPF-GL NEW

Available from December 2017

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

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

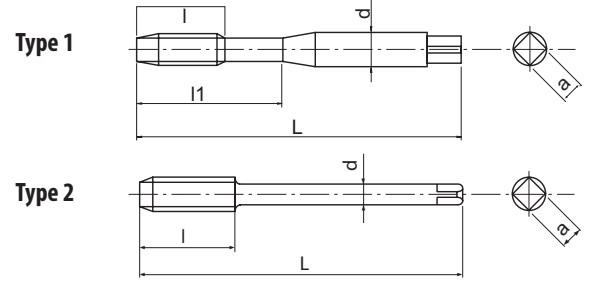
A
M
HSS-Co
V
ISO 2 6HX
C/2,5
DIN 2174
DIN 2174

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

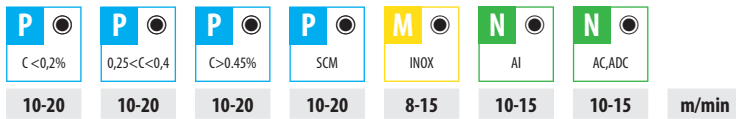
Available from January 2018

Threading | Forming taps | Metric



- 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

Threading | Forming taps

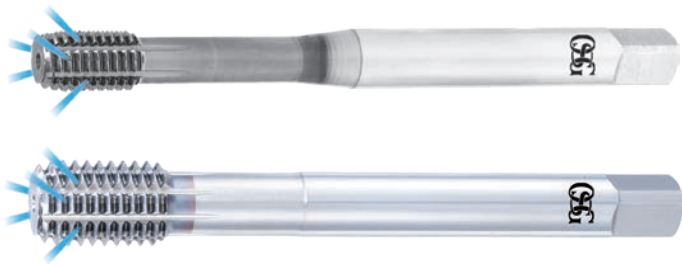


EDP	M	P	oversize	L	l	l1	d	a	Z	$\varnothing$	Type	DIN
48297138	3	0,5	+0,020	56	-	18	3,5	2,7	0	2,79 ~ 2,83	1	DIN2174
48297144	4	0,7	+0,022	63	-	21	4,5	3,4	0	3,69 ~ 3,75	1	DIN2174
48297149	5	0,8	+0,024	70	-	25	6	4,9	0	4,64 ~ 4,71	1	DIN2174
48297155	6	1	+0,026	80	-	30	6	4,9	0	5,55 ~ 5,63	1	DIN2174
48297161	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

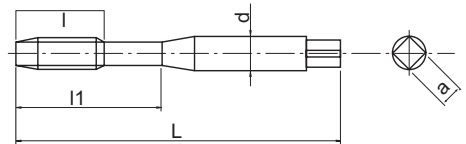
Metric

# C-OIL-XPf

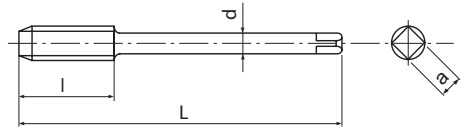
Threading | Forming taps | Metric



Type 1



Type 2



- 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

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

<b>A</b>	<b>M</b>	<b>CARBIDE</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>C/2,5</b>				<b>DIN 2174</b>	<b>DIN 2174</b>
----------	----------	----------------	----------	------------------	--------------	--	--	--	-----------------	-----------------

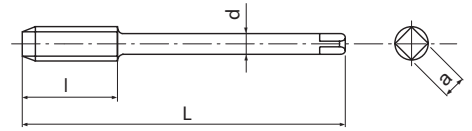
EDP	M	P	L	l	l1	d	a	Z	$\varnothing$	Type	DIN
48226149	5	0,8	70	-	25	6	4,9	5	4,62 ~ 4,68	1	DIN2174
48226155	6	1	80	-	30	6	4,9	5	5,51 ~ 5,59	1	DIN2174
48226161	8	1,25	90	-	35	8	6,2	5	7,37 ~ 7,45	1	DIN2174
48226169	10	1,5	100	-	39	10	8	8	9,24 ~ 9,33	1	DIN2174
48226179	12	1,75	110	17	-	9	7	8	11,10 ~ 11,20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

Threading | Forming taps  
Metric



# A-XPB

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

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

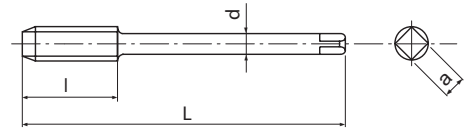
<b>A</b>	<b>MF</b>	<b>PM</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>C/2,5</b>				<b>DIN 2174</b>
----------	-----------	-----------	----------	----------------------	--------------	--	--	--	-----------------

EDP	MF	P	L	l	d	a	Z	$\emptyset$	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

Metric Fine

# 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

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

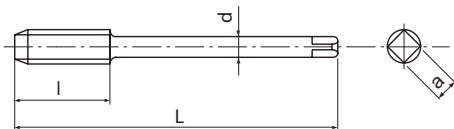
<b>A</b>	<b>MF</b>	<b>PM</b>	<b>V</b>	<b>ISO 2 6HX</b>	<b>C/2,5</b>				<b>DIN 2174</b>
----------	-----------	-----------	----------	------------------	--------------	--	--	--	-----------------

EDP	MF	P	L	l	d	a	Z	$\emptyset$	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

Threading | Forming taps

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

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

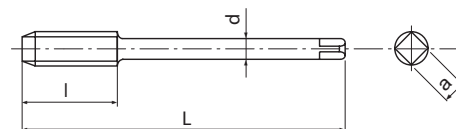
Metric Fine

EDP	MF	P	L	l	d	a	Z	$\varnothing$	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
- HSE forming tap for through & blind holes
- Multilayer TiCN coating
- For general steels, stainless steels, aluminium
- Side through coolant

<b>P</b> C < 0,2%	<b>P</b> 0,25 < C < 0,4	<b>P</b> C > 0,45%	<b>P</b> SCM	<b>M</b> INOX	<b>N</b> Al	<b>N</b> AC,ADC	<b>H</b> 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	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

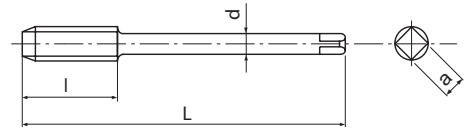




# S-OIL-XP 6GX NEW

Available from January 2018

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

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

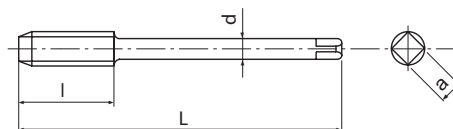
<b>A</b>	<b>MF</b>	<b>HSS-Co</b>	<b>V</b>	<b>ISO 3 6GX</b>	<b>C/2,5</b>				<b>DIN 2174</b>
----------	-----------	---------------	----------	------------------	--------------	--	--	--	-----------------

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

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



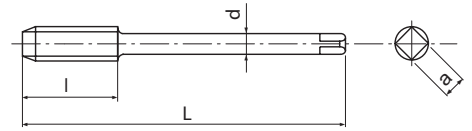
EDP	MF	P	L	l	d	a	Z	$\emptyset$	DIN
48088162	8	1	90	10	6	4,9	5	7,51 ~ 7,59	DIN2174
48088171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48088170	10	1,25	100	12	7	5,5	8	9,37 ~ 9,45	DIN2174
48088182	12	1	100	15	9	7	8	11,52 ~ 11,60	DIN2174
48088181	12	1,25	100	15	9	7	8	11,39 ~ 11,46	DIN2174
48088180	12	1,5	100	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

Threading | Forming taps

Metric Fine

# 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

<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>M</b>	<b>N</b>	<b>N</b>	<b>H</b>	
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

<b>A</b>	<b>MF</b>	<b>HSS-Co</b>	<b>V</b>	<b>ISO 2 6HX</b>				<b>DIN 2174</b>
----------	-----------	---------------	----------	------------------	--	--	--	-----------------

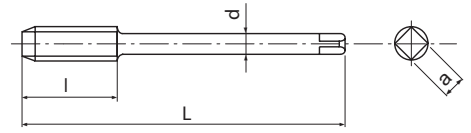
EDP	MF	P	L	l	d	a	Z	Ø	DIN
48089171	10	1	90	12	7	5,5	8	9,51 ~ 9,59	DIN2174
48089180	12	1,5	100	15	9	7	8	11,25 ~ 11,34	DIN2174
48089192	14	1,5	100	15	11	9	8	13,25 ~ 13,34	DIN2174
48089203	16	1,5	100	15	12	9	8	15,25 ~ 15,34	DIN2174

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

Threading | Forming taps

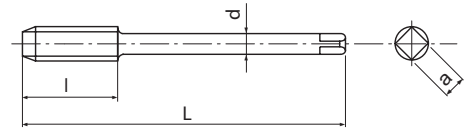
<b>P</b> C < 0,2%	<b>P</b> 0,25 < C < 0,4	<b>P</b> C > 0,45%	<b>P</b> SCM	<b>M</b> INOX	<b>N</b> Al	<b>N</b> AC, ADC		<b>m/min</b>
10-20	10-20	10-20	10-20	8-15	10-15	10-15		

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

Metric Fine

EDP	MF	P	L	I	d	a	Z	$\emptyset$	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





- First choice in quality and performance
- HSE 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

<b>P</b>	<b>P</b>	<b>P</b>	<b>P</b>	<b>M</b>	<b>N</b>	<b>N</b>	
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

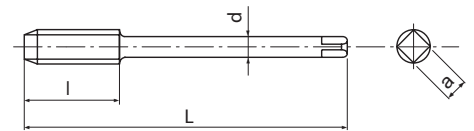
<b>A</b>	<b>MF</b>	<b>HSS-Co</b>	<b>V</b>	<b>ISO 3 6GX</b>	<b>C/2,5</b>			<b>DIN 2174</b>
----------	-----------	---------------	----------	----------------------	--------------	--	--	-----------------

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

Threading | Forming taps

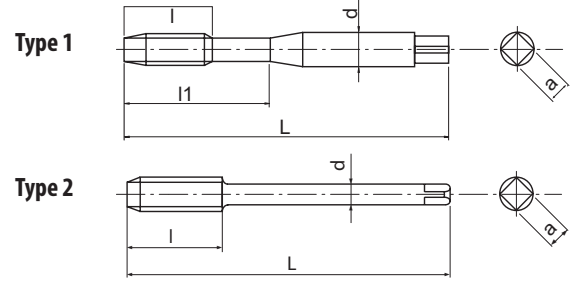
<b>P</b> C < 0,2%	<b>P</b> 0,25 < C < 0,4	<b>P</b> C > 0,45%	<b>P</b> SCM	<b>M</b> INOX	<b>N</b> Al	<b>N</b> AC, ADC	<b>H</b> 25-35 HRC	
15-40	15-40	15-30	15-30	8-20	20-50	20-40	5-20	m/min



EDP	MF	P	L	l	d	a	Z	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

# 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

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

<b>A</b>	<b>UNC</b>	<b>HSS-Co</b>	<b>V</b>	<b>ANSI 2BX</b>	<b>C/2,5</b>				<b>DIN 2184-1</b>	<b>DIN 2184-1</b>
----------	------------	---------------	----------	-----------------	--------------	--	--	--	-------------------	-------------------

EDP	UNC	P	L	l	l1	d	a	Z	$\varnothing$	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

Threading | Forming taps

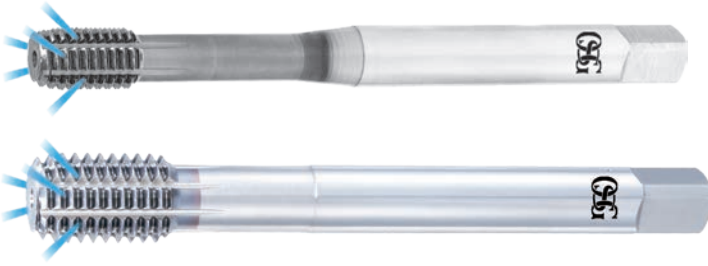


UNC

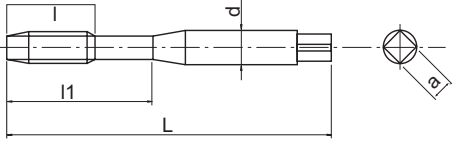
# S-OIL-XPF NEW

Available from February 2018

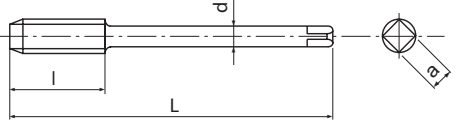
Threading | Forming taps | UNC









Type 1




Type 2



- 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

<b>P</b> 	<b>P</b> 	<b>P</b> 	<b>P</b> 	<b>M</b> 	<b>N</b> 	<b>N</b> 	<b>H</b> 	
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



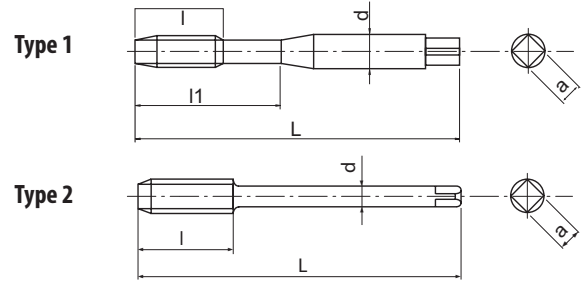
EDP	UNC	P	L	l	l1	d	a	Z		Type	DIN
48042471	1/4	20	80	13	30	7	5,5	5	5.66 ~ 5.76	1	DIN2184-1
48042474	5/16	18	90	14	35	8	6,2	5	7.18 ~ 7.29	1	DIN2184-1
48042479	3/8	16	100	11	39	10	8	8	8.66 ~ 8.78	1	DIN2184-1
48042484	7/16	14	100	14	-	8	6,2	8	10.12 ~ 10.27	2	DIN2184-1
48042489	1/2	13	110	20	-	9	7	8	11.62 ~ 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

Threading | Forming taps

UNC

# S-XPF

Threading | Cutting taps | UNF



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

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

<b>A</b>	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

Threading | Cutting taps



UNF











## SWEDEN

Branch office of OSG SCANDINAVIA  
Abrahams Gränd 8  
295 35 Bromölla  
Sweden  
Tel: +46 40 41 22 55  
Fax: +46 40 41 32 55  
osg@osg-scandinavia.com

## OSG SCANDINAVIA

(For Scandinavian countries)  
Langebjergvaenget 16  
4000 Roskilde  
Denmark  
Tel.: +45 46 75 65 55  
Fax: +45 46 75 67 00  
osg@osg-scandinavia.com

## OSG NETHERLANDS

Bedrijfsweg 5 - 3481 MG Harmelen  
Postbus 50 - 3480 DB Harmelen  
The Netherlands  
Tel.: +31 348 44 2764  
Fax: +31 348 44 2144  
info@osg-nl.com

## OSG UK

Shelton house, 5 Bentalls  
Pipps Hill Ind Est, Basildon Essex SS14 3BY  
United Kingdom  
Tel.: +44 845 305 1066  
Fax: +44 845 305 1067  
sales@osg-uk.com

## OSG EUROPE LOGISTICS

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord  
Belgium  
Tel.: +32 10 23 05 07  
Fax: +32 10 23 05 11  
info@osgeurope.com

## OSG BELUX

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord  
Belgium  
Tel.: +32 10 23 05 11  
Fax: +32 10 23 05 31  
info@osg-belgium.com

## OSG COMAHER

Bekolarra 4  
E - 01010 Vitoria-Gasteiz  
Spain  
Tel.: +34 945 242 400  
Fax: +34 945 228 883  
osg-comaher@osg-comaher.com

## OSG FRANCE

Parc Icade, Paris Nord 2  
Immeuble "Le Rimbaud"  
22 Avenue des Nations  
CS66191 - 93420 Villepinte  
France  
Tel.: +33 1 49 90 10 10  
Fax: +33 1 49 90 10 15  
sales@osg-france.com





#### SLOVAKIA

Branch office of OSG Belgium s.a.  
Tel: +32 10 23 05 04  
Fax: +32 10 23 05 31  
info@osg-belgium.com

#### OSG POLAND

59 Złota St  
00-120 Warsaw  
Poland

#### OSG RUSSIA

Butlerova street, 17B, office 5069  
117342 Moscow  
Russia  
Tel: +7 (495) 150 41 54  
info@osg-russia.com

#### ROMSAN INTERNATIONAL CO. SRL

Reprezentant Exclusiv OSG  
23-25, Nerva Traian Street  
031044 Bucuresti  
România  
Tel: +40 021 322 07 47  
Fax: +40 021 321 56 00  
romsan.int@romsan.ro

#### OSG TURKEY

Rami Kişla Cad.No:56 Eyüp  
Istanbul 34056  
Turkey  
Tel.+90 212 565 24 00  
Fax: +90 212 565 44 00  
info@osg-turkey.com

#### OSG ITALIA

Via Cirenaiica n. 52 int. 61/63  
I - 10142 Torino  
Italy  
Tel.: +39 0117705211  
Fax: +39 0117071402  
info@osg-italia.it

#### OSG GERMANY

Karl-Ehmann-Str. 25  
D - 73037 Göppingen  
Germany  
Tel.: +49 7161 6064 - 0  
Fax: +49 7161 6064 - 444  
info@osg-germany.de



*shaping your dreams*

#### **OSG EUROPE LOGISTICS**

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord - Belgium  
Tel: +32 10 23 05 07  
Fax: +32 10 23 05 51  
info@osgeurope.com

#### **OSG BELUX**

Avenue Lavoisier 1  
B-1300 Z.I. Wavre - Nord - Belgium  
Tel: +32 10 23 05 11  
Fax: +32 10 23 05 31  
info@osg-belgium.com

#### **OSG FRANCE**

Parc Icade, Paris Nord 2  
Immeuble "Le Rimbaud"  
22 Avenue des Nations  
CS66191 - 93420 Villepinte - France  
Tel: +33 1 49 90 10 10  
Fax: +33 1 49 90 10 15  
sales@osg-france.com

#### **OSG NETHERLANDS**

Bedrijfsweg 5 - 3481 MG Harmelen  
Tel: +31 348 44 2764  
Fax: +31 348 44 2144  
info@osg-nl.com

#### **OSG UK**

Shelton house, 5 Bentalls  
Pipps Hill Ind Est, Basildon Essex SS14 3BY  
Tel: +44 845 305 1066  
Fax: +44 845 305 1067  
sales@osg-uk.com

#### **SLOVAKIA**

Branch office of OSG Europe Logistics s.a.  
Tel (SK) +421 2 4329 1295  
Tel (BE) +32 10 23 05 07  
Fax (BE) +32 10 23 05 51  
sales-osgsvk@osgeurope.com

#### **OSG POLAND Sp. z.o.o.**

ul. Spółdzielcza 57  
05-074 Halinów - Poland  
Tel: +22 760 82 71  
Fax: +22 760 82 71  
osg@osg-poland.com

#### **OSG GERMANY**

Karl-Ehmann-Str. 25  
D - 73037 Göppingen - Germany  
Tel: +49 7161 6064 - 0  
Fax: +49 7161 6064 - 444  
info@osg-germany.de

#### **OSG SCANDINAVIA**

(For Scandinavian countries)  
Langebjergvaenget 16  
4000 Roskilde - Denmark  
Tel: +45 46 75 65 55  
Fax: +45 46 75 67 00  
osg@osg-scandinavia.com

#### **SWEDEN**

Branch office of OSG SCANDINAVIA  
Abrahams Gränd 8  
295 35 Bromölla - Sweden  
Tel: +46 40 41 22 55  
Fax: +46 40 41 32 55  
osg@osg-scandinavia.com

#### **OSG COMAHER**

Bekolarra 4  
E - 01010 Vitoria-Gasteiz - Spain  
Tel: +34 945 242 400  
Fax: +34 945 228 883  
osg-comaher@osg-comaher.com

#### **RUSSIA**

Butlerova street, 17B, office 5069  
117342 Moscow - Russia  
Tel: +7 (495) 150 41 54  
info@osg-russia.com

#### **OSG TURKEY**

Rami Kişla Cad.No:56 Eyüp  
Istanbul 34056 - Turkey  
Tel:+90 212 565 24 00  
Fax: +90 212 565 44 00  
info@osg-turkey.com

#### **ROMSAN INTERNATIONAL CO. SRL**

Reprezentant Exclusiv OSG  
23-25, Nerva Traian Street  
031044 Bucuresti - România  
Tel: +40 021 322 07 47  
Fax: +40 021 321 56 00  
romsan.int@romsan.ro

#### **AUSTRIA**

Branch office of OSG GERMANY  
Messestraße 11  
A-6850 Dornbirn  
Tel: +49 7161 6064-0  
Fax: +49 7161 6064-444  
info@osg-germany.de

#### **OSG ITALIA**

Via Cirenaiica n. 52 int. 61/63  
I - 10142 Torino - Italy  
Tel: +39 0117705211  
Fax: +39 0117071402  
info@osg-italia.it

#### **WEXO PRÄZISIONSWERKZEUGE GmbH**

Siemensstraße 13  
D-61352 Bad Homburg  
Tel: (06172) 10 62 06  
Fax: (06172) 10 62 13  
verkauf@wexo.com

#### **OSG EUROPE LOGISTICS S.A.**

08/2017 - All rights reserved. © OSG Europe 2017.

The contents of this catalogue are provided to you for viewing only. They are not intended for reproduction either in part or in whole in this or other medium. They cannot be copied, used to create derivation work or used for any reason, by means without the express, written permission of the copyright owner. If prices are stated, they are netto unit-prices and any eventual taxes have to be added. The company is not responsible for any printing error in technical, price and/or any other data.

Tool specifications subject to change without notice.

[www.osgeurope.com](http://www.osgeurope.com)

