



Finally, the answer you've been looking for is here

A-TAP SERIES

Volume 11



INDEX

Blind Hole

Metric

A-SFT	PAGE 8
A-OIL-SFT	PAGE 9
A-SFT-6GX	PAGE 10
A-SFT-7GX	PAGE 11
A-SFT FORM E NEW SIZES	PAGE 12
A-SFT + 0.1	PAGE 13
A-LT-SFT	PAGE 14
A-SFT-LH	PAGE 15
A-SFT-HB Weldon Shank	PAGE 16

Metric Fine

A-SFT	PAGE 17
A-OIL-SFT	PAGE 18
A-SFT-6GX	PAGE 19
A-SFT FORM E NEW	PAGE 20

UNC

A-SFT	PAGE 21
-------------	---------

UNF

A-SFT	PAGE 22
-------------	---------

G (BSP)

A-SFT NEW SIZE	PAGE 23
----------------------	---------

Rp (BSPP)

A-SFT FORM E NEW	PAGE 24
------------------------	---------

BSW

A-SFT	PAGE 25
-------------	---------

BSF

A-SFT	PAGE 26
-------------	---------

BA

A-SFT	PAGE 27
-------------	---------

Rc (BSPT)

A-TPT	PAGE 28
-------------	---------

Rc (ISO)

A-SFT Rc	PAGE 29
----------------	---------

NPT

A-SFT	PAGE 30
-------------	---------

NPSF

A-SFT FORM E	PAGE 31
--------------------	---------

Through Hole

Metric

A-POT	PAGE 32
A-OIL-POT	PAGE 33
A-POT-6GX	PAGE 34
A-POT-7GX	PAGE 35
A-POT + 0.1	PAGE 36
A-LT-POT	PAGE 37
A-POT-LH	PAGE 38
A-POT-HB Weldon Shank	PAGE 39

Metric Fine

A-POT	PAGE 40
A-OIL-POT	PAGE 41
A-POT-6GX	PAGE 42

UNC

A-POT	PAGE 43
-------------	---------

UNF

A-POT	PAGE 44
-------------	---------

G (BSP)

A-POT	PAGE 45
-------------	---------

BSW

A-POT	PAGE 46
-------------	---------

BSF

A-POT	PAGE 47
-------------	---------

BA

A-POT	PAGE 48
-------------	---------

Finally, the answer you've been looking for is here...

1 Stabilize chip shape
Sharp cutting edge

2 Accelerate chip evacuation
Variable lead flute (PAT.)

3 High wear resistance
V coating

4 High wear resistance
Powder Metallurgy HSS (CPM)



OSG'S NEW PREMIUM BRAND "A-TAP SERIES"

The answer for your troubles lies here

Most of tapping troubles are caused by unstable chip evacuation.

A-TAP Series resolve such troubles and apply to a wide range of work materials and cutting speed.

Tapping Troubles

N°1 breakage and chipping	26 %
N°2 dimensional error	17 %
N°3 galling	14 %
Others	43 %

Main factor is chip packing

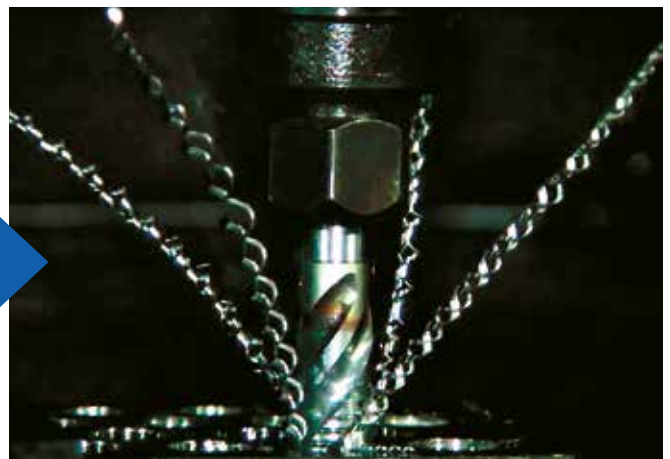


The biggest advantage of A-TAP Series:

THE BEST CHIP EVACUATION



Conventional Tap



A-SFT

KEY FEATURES A-TAP SERIES

Applies to a wide variety of work materials

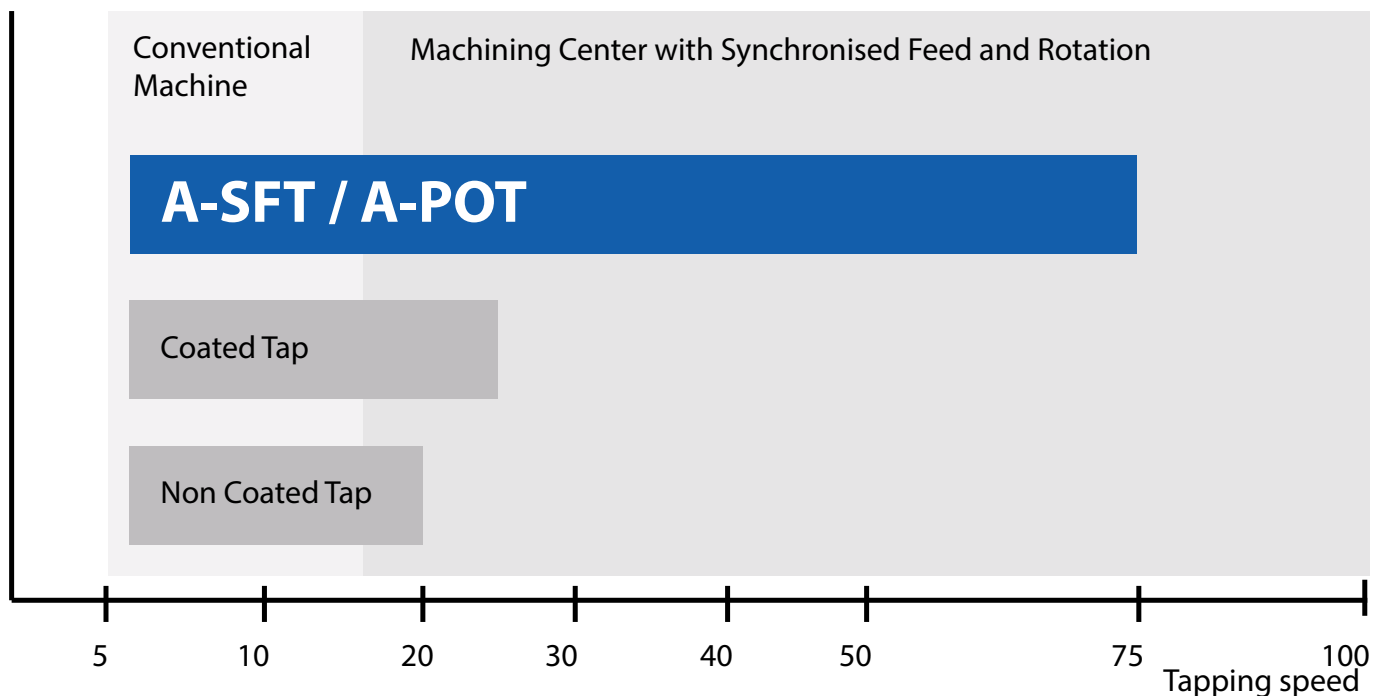
Even to mild steel and stainless steel



High performance in machining center

Applies to a wide cutting range

Long



- It is a image of tapping in medium and high carbon steel with water soluble coolant.
- Machining center with synchronized feed and rotation is recommended for more than 15m/min.
- As the best speed varies by tapping condition, please find it by trials.

SUS304

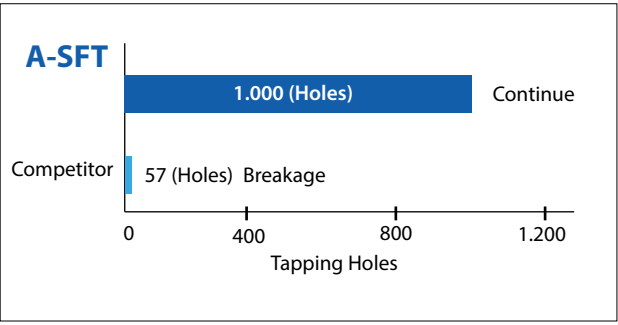
Deep Hole Tapping (2D) in stainless steel

High performance achieved in stainless steel with water soluble oil



■ Cutting edge after 1.000 holes tapping

Tool	A-SFT M8x1,25
Work Material	SUS304
Hole Size	Ø6,8x22mm (Blind)
Tapping Length	16mm (2D)
Tapping Speed	10m/min (398min ⁻¹)
Coolant	Water Soluble Chlorine-Free (10%)
Machine	Vertical Synchronized Machining Center

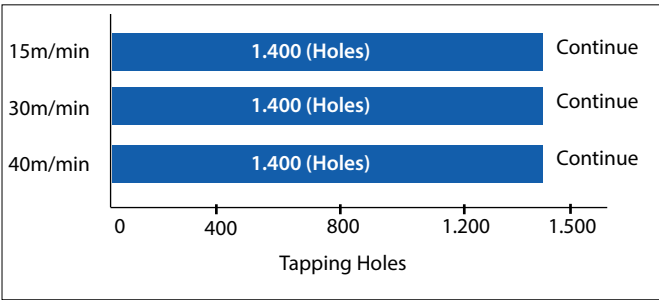


S45C

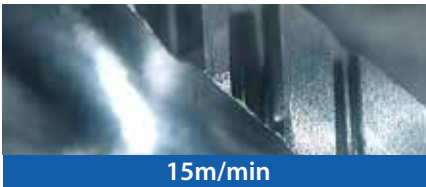
High speed tapping by machining center

Tapping operation in 15,30,40m/min are all stable

Tool	A-SFT M6x1
Work Material	S45C
Hole Size	Ø5x16mm (Blind)
Tapping Length	12mm (2D)
Coolant	Water Soluble Chlorine-Free (10%)
Machine	Vertical Synchronized Machining Center



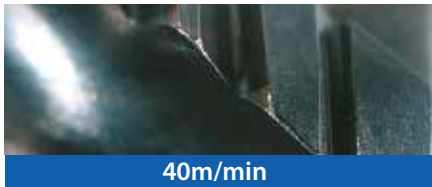
■ Cutting edge after 1.400 holes Tapping



15m/min



30m/min

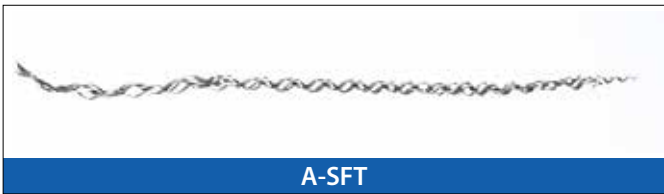


40m/min

■ Chip generated in 40m/min



Conventional Tap

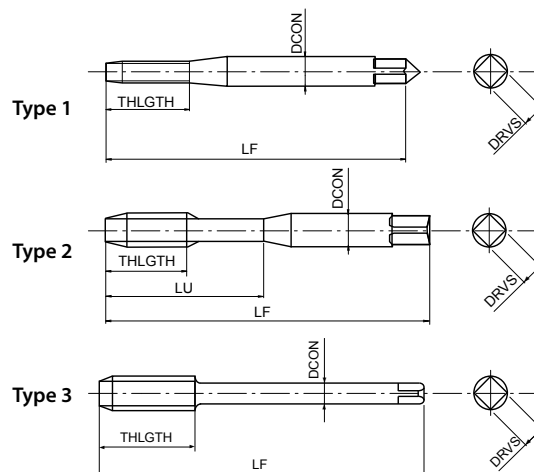


A-SFT

Threading | Cutting taps | Metric



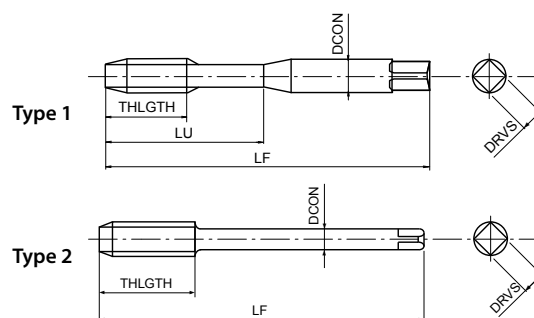
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels



P	P	P	P	M	N	N	S	H	
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	AC, ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min
A	M	PM	V	45°	ISO 2 6HX	C/2,5	DIN 371	DIN 376	

*Tolerance 5 HX

EDP	TD	TP	LF	THLGTH	LU	DCON	DRVS	NOF	Type	DIN
*48139111	1	0,25	40	-	5	2,5	2,1	2	1	371
*48139112	1,1	0,25	40	-	5	2,5	2,1	2	1	371
*48139113	1,2	0,25	40	-	5	2,5	2,1	2	1	371
*48139115	1,4	0,3	40	-	6	2,5	2,1	2	1	371
48139118	1,6	0,35	40	-	7	2,5	2,1	2	1	371
48139119	1,7	0,35	40	-	8	2,5	2,1	2	1	371
48139120	1,8	0,35	40	-	8	2,5	2,1	2	1	371
48139125	2	0,4	45	3,2	10	2,8	2,1	2	2	371
48139127	2,2	0,45	45	3,6	11	2,8	2,1	2	2	371
48139128	2,3	0,4	45	3,6	12	2,8	2,1	2	2	371
48139133	2,5	0,45	50	3,6	13	2,8	2,1	2	2	371
48139136	2,6	0,45	50	3,6	13	2,8	2,1	2	2	371
48139138	3	0,5	56	4	18	3,5	2,7	3	2	371
48139142	3,5	0,6	56	4,8	20	4	3	3	2	371
48139144	4	0,7	63	5,6	21	4,5	3,4	3	2	371
48139147	4,5	0,75	70	6	25	6	4,9	3	2	371
48139149	5	0,8	70	6,4	25	6	4,9	3	2	371
48139152	5,5	0,9	80	7,2	30	6	4,9	3	2	371
48139155	6	1	80	8	30	6	4,9	3	2	371
48139158	7	1	80	8	30	7	5,5	3	2	371
48139161	8	1,25	90	10	35	8	6,2	3	2	371
48139165	9	1,25	90	10	35	9	7	3	2	371
48139169	10	1,5	100	12	39	10	8	3	2	371
48139139	3	0,5	56	4	-	2,2	-	3	3	376
48139185	4	0,7	63	5,6	-	2,8	2,1	3	3	376
48139150	5	0,8	70	6,4	-	3,5	2,7	3	3	376
48139187	6	1	80	8	-	4,5	3,4	3	3	376
48139159	7	1	80	8	-	5,5	4,3	3	3	376
48139188	8	1,25	90	10	-	6	4,9	3	3	376
48139166	9	1,25	90	10	-	7	5,5	3	3	376
48139189	10	1,5	100	12	-	7	5,5	3	3	376
48139175	11	1,5	100	12	-	8	6,2	3	3	376
48139179	12	1,75	110	14	-	9	7	3	3	376
48139191	14	2	110	16	-	11	9	3	3	376
48139202	16	2	110	16	-	12	9	3	3	376
48139214	18	2,5	125	25	-	14	11	4	3	376
48139228	20	2,5	140	25	-	16	12	4	3	376
48139238	22	2,5	140	25	-	18	14,5	4	3	376
48139247	24	3	160	30	-	18	14,5	4	3	376

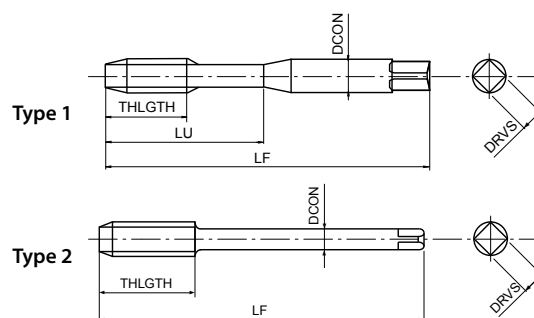


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Centre through coolant

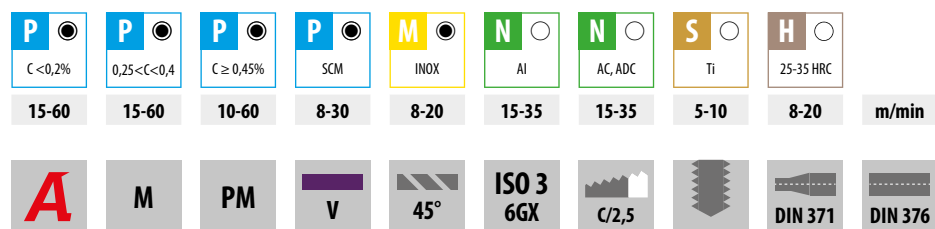
P  C < 0,2%	P  0,25 < C < 0,4	P  C ≥ 0,45%	P  SCM	M  INOX	N  Al	N  AC, ADC	S  Ti	H  25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

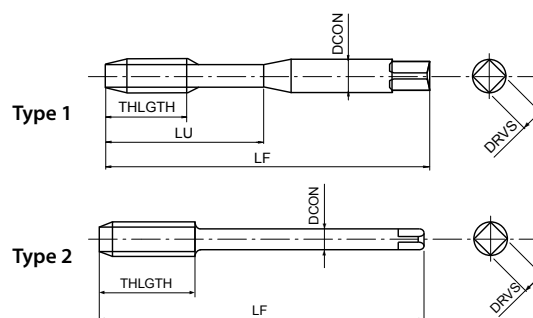


EDP	TD	TP	LF	THLGTH	LU	DCON	DRVS	NOF	Type	DIN
48140155	6	1	80	8	30	6	4,9	3	1	371
48140161	8	1,25	90	10	35	8	6,2	3	1	371
48140169	10	1,5	100	12	39	10	8	3	1	371
48140179	12	1,75	110	14	-	9	7	3	2	376
48140191	14	2	110	16	-	11	9	3	2	376
48140202	16	2	110	16	-	12	9	3	2	376
48140214	18	2,5	125	25	-	14	11	4	2	376
48140228	20	2,5	140	25	-	16	12	4	2	376
48140238	22	2,5	140	25	-	18	14,5	4	2	376
48140247	24	3	160	30	-	18	14,5	4	2	376
48140262	27	3	160	36	-	20	16	4	2	376
48140271	30	3,5	180	42	-	22	18	4	2	376
48140281	33	3,5	180	42	-	25	20	4	2	376
48140294	36	4	200	48	-	28	22	4	2	376
48140304	39	4	200	48	-	32	24	4	2	376
48140314	42	4,5	200	54	-	32	24	4	2	376
48140319	45	4,5	220	54	-	36	29	4	2	376
48140325	48	5	250	60	-	36	29	4	2	376
48140337	52	5	250	60	-	40	32	4	2	376
48140347	56	5,5	250	66	-	40	32	4	2	376



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

[illegible]



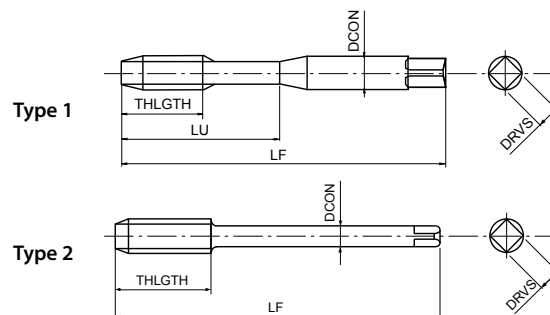
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 7G internal thread tolerance

 C < 0,2%	 0,25 < C < 0,4	 C ≥ 0,45%	 SCM	 INOX	 Al	 AC, ADC	 Ti	 25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20		m/min
										

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A-SFT FORM E NEW SIZES

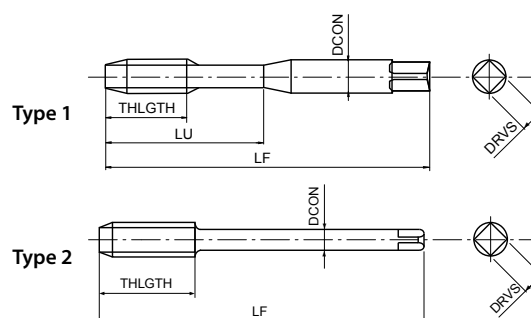
Threading | Cutting taps | Metric



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

P	P	P	P	M	N	N	S	H		
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	AC, ADC	Ti	25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min	
A	M	PM	V	45°	ISO 2 6HX	E/1,5			DIN 371	DIN 376

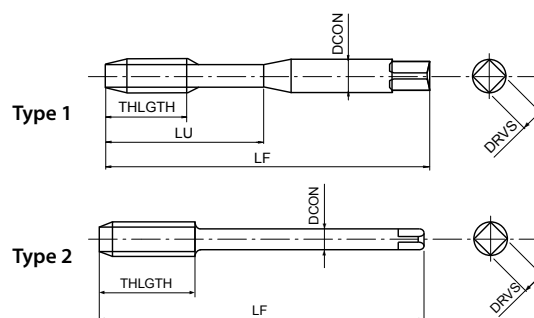
EDP	TD	TP	LF	THLGTH	LU	DCON	DRVS	NOF	Type	DIN
48203125	2	0,4	45	3,2	10	2,8	2,1	2	1	371
48203127	2,2	0,45	45	3,6	11	2,8	2,1	2	1	371
48203128	2,3	0,4	45	3,6	12	2,8	2,1	2	1	371
48203133	2,5	0,45	50	3,6	13	2,8	2,1	2	1	371
48203136	2,6	0,45	50	3,6	13	2,8	2,1	2	1	371
48203138	3	0,5	56	4	18	3,5	2,7	3	1	371
48203142	3,5	0,6	56	4,8	20	4	3	3	1	371
48203144	4	0,7	63	5,6	21	4,5	3,4	3	1	371
48203147	4,5	0,75	70	6	25	6	4,9	3	1	371
48203149	5	0,8	70	6,4	25	6	4,9	3	1	371
48203152	5,5	0,9	80	7,2	30	6	4,9	3	1	371
48203155	6	1	80	8	30	6	4,9	3	1	371
48203158	7	1	80	8	30	7	5,5	3	1	371
48203161	8	1,25	90	10	35	8	6,2	3	1	371
48203165	9	1,25	90	10	35	9	7	3	1	371
48203169	10	1,5	100	12	39	10	8	3	1	371
48203139	3	0,5	56	4	-	2,2	-	3	2	376
48203185	4	0,7	63	5,6	-	2,8	2,1	3	2	376
48203150	5	0,8	70	6,4	-	3,5	2,7	3	2	376
48203187	6	1	80	5	-	4,5	3,4	3	2	376
48203159	7	1	80	8	-	5,5	4,3	3	2	376
48203188	8	1,25	90	10	-	6	4,9	3	2	376
48203166	9	1,25	90	10	-	7	5,5	3	2	376
48203189	10	1,5	100	12	-	7	5,5	3	2	376
48203175	11	1,5	100	12	-	8	6,2	3	2	376
48203179	12	1,75	110	14	-	9	7	3	2	376
48203191	14	2	110	16	-	11	9	3	2	376
48203202	16	2	110	16	-	12	9	3	2	376
48203214	18	2,5	125	25	-	14	11	4	2	376
48203228	20	2,5	140	25	-	16	12	4	2	376
48203238	22	2,5	140	25	-	18	14,5	4	2	376
48203247	24	3	160	30	-	18	14,5	4	2	376



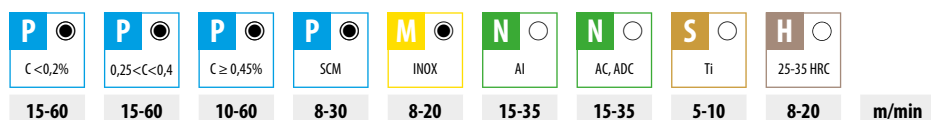
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

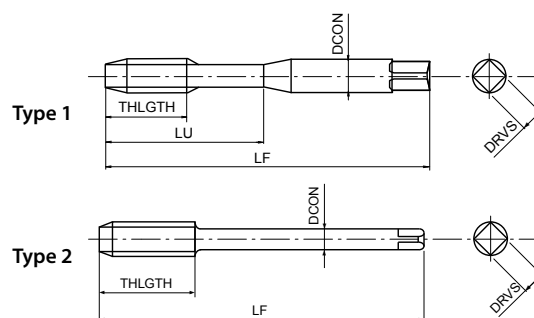
 C < 0,2%	 0,25 < C < 0,4	 C ≥ 0,45%	 SCM	 INOX	 Al	 AC, ADC	 Ti	 25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20		m/min
										

[illegible]



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

[illegible]



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

P  C < 0,2%	P  0,25 < C < 0,4	P  C ≥ 0,45%	P  SCM	M  INOX	N  Al	N  AC, ADC	S  Ti	H  25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min







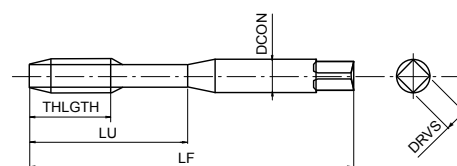




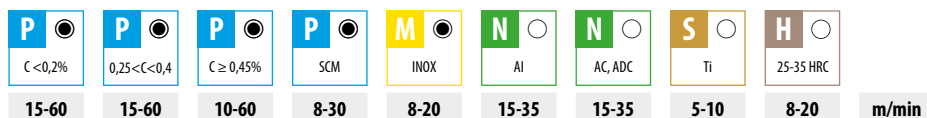

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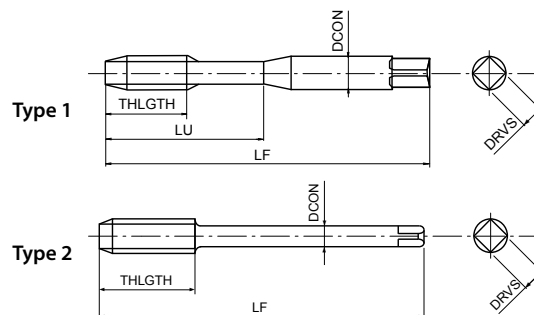
A-SFT-HB Weldon

Threading | Cutting taps | Metric



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

[illegible]

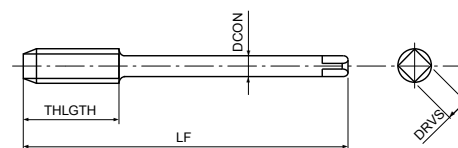


- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P	P	P	P	M	N	N	S	H		
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	AC, ADC	Ti	25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min	
A	MF	PM	V	45°	ISO 2 6HX	C/2,5				
							DIN 371	DIN 374		

EDP	TD	TP	LF	THLGTH	LU	DCON	DRVS	NOF	Type	DIN
48139135	2,5	0,35	50	3,6	13	2,8	2,1	2	1	371
48139137	2,6	0,35	50	3,6	13	2,8	2,1	2	1	371
48139141	3	0,35	56	4	18	3,5	2,7	3	1	371
48139143	3,5	0,35	56	4,8	20	4	3	3	1	371
48139146	4	0,35	63	5,6	21	4,5	3,4	3	1	371
48139145	4	0,5	63	5,6	21	4,5	3,4	3	1	371
48139148	4,5	0,5	70	6	25	6	4,9	3	1	371
48139151	5	0,5	70	6,4	25	6	4,9	3	1	371
48139602	6	0,5	80	8	30	6	4,9	3	1	371
48139601	6	0,75	80	8	30	6	4,9	3	1	371
48139160	7	0,75	80	8	30	7	5,5	3	1	371
48139604	8	0,75	80	10	35	8	6,2	3	1	371
48139603	8	1	90	10	35	8	6,2	3	1	371
48139605	9	1	90	10	35	9	7	3	1	371
48139608	10	0,75	90	12	35	10	8	3	1	371
48139607	10	1	90	12	35	10	8	3	1	371
48139606	10	1,25	100	12	39	10	8	3	1	371
48139157	6	0,5	80	8	-	4,5	3,4	3	2	374
48139156	6	0,75	80	8	-	4,5	3,4	3	2	374
48139163	8	0,75	80	8	-	6	4,9	3	2	374
48139162	8	1	90	10	-	6	4,9	3	2	374
48139167	9	1	90	10	-	7	5,5	3	2	374
48139172	10	0,75	90	10	-	7	5,5	3	2	374
48139171	10	1	90	10	-	7	5,5	3	2	374
48139170	10	1,25	100	12	-	7	5,5	3	2	374
48139176	11	1	90	12	-	8	6,2	3	2	374
48139182	12	1	100	12	-	9	7	3	2	374
48139181	12	1,25	100	12	-	9	7	3	2	374
48139180	12	1,5	100	14	-	9	7	3	2	374
48139194	14	1	100	16	-	11	9	3	2	374
48139193	14	1,25	100	16	-	11	9	3	2	374
48139192	14	1,5	100	16	-	11	9	3	2	374
48139204	16	1	100	16	-	12	9	3	2	374
48139203	16	1,5	100	16	-	12	9	3	2	374
48139218	18	1	110	16	-	14	11	4	2	374
48139216	18	1,5	110	16	-	14	11	4	2	374
48139232	20	1	125	16	-	16	12	4	2	374
48139230	20	1,5	125	16	-	16	12	4	2	374
48139220	20	2	140	25	-	16	12	4	2	374
48139241	22	1	125	16	-	18	14,5	4	2	374
48139240	22	1,5	125	16	-	18	14,5	4	2	374
48139239	22	2	140	25	-	18	14,5	4	2	374
48139251	24	1	140	16	-	18	14,5	4	2	374
48139250	24	1,5	140	16	-	18	14,5	4	2	374
48139249	24	2	140	30	-	18	14,5	4	2	374





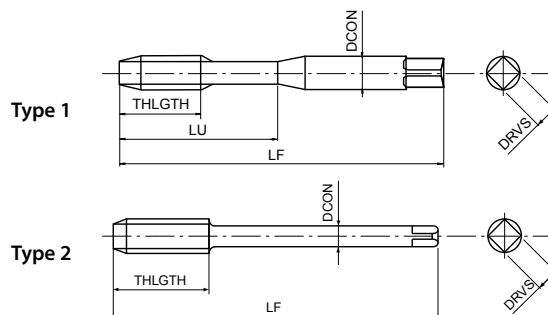
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

 C < 0,2%	 0,25 < C < 0,4	 C ≥ 0,45%	 SCM	 INOX	 Al	 AC, ADC	 Ti	 25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20		m/min
	MF	PM	 V	 45°	ISO 3 6GX	 C/2,5		 DIN 374		

[illegible]

A-SFT FORM E NEW

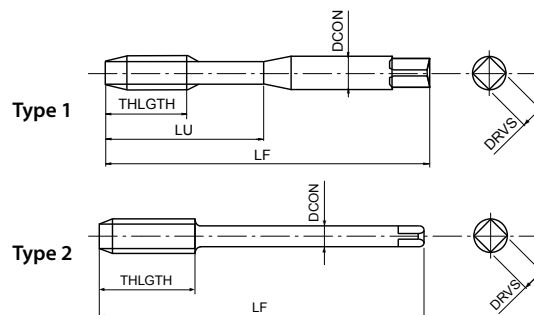
Threading | Cutting taps | Metric Fine



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

P	P	P	P	M	N	N	S	H	
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	AC, ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min
A	MF	PM	V	45°	ISO 2 6HX	E/1,5	DIN 371	DIN 374	

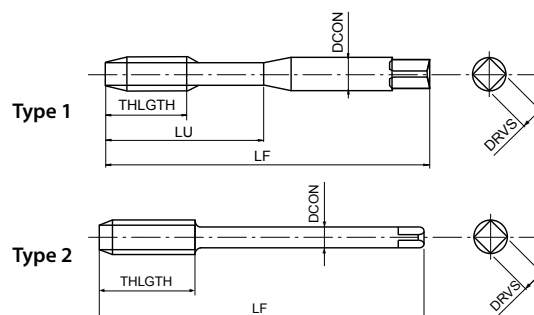
EDP	TD	TP	LF	THLGTH	LU	DCON	DRVS	NOF	Type	DIN
48203135	2,5	0,35	50	3,6	13	2,8	2,1	2	1	371
48203137	2,6	0,35	50	3,6	13	2,8	2,1	2	1	371
48203141	3	0,35	56	4	18	3,5	2,7	3	1	371
48203143	3,5	0,35	56	4,8	20	4	3	3	1	371
48203146	4	0,35	63	5,6	21	4,5	3,4	3	1	371
48203145	4	0,5	63	5,6	21	4,5	3,4	3	1	371
48203148	4,5	0,5	70	6	25	6	4,9	3	1	371
48203151	5	0,5	70	6,4	25	6	4,9	3	1	371
48203602	6	0,5	80	8	30	6	4,9	3	1	371
48203601	6	0,75	80	8	30	6	4,9	3	1	371
48203160	7	0,75	80	8	30	7	5,5	3	1	371
48203604	8	0,75	80	10	35	8	6,2	3	1	371
48203603	8	1	90	10	35	8	6,2	3	1	371
48203605	9	1	90	10	35	9	7	3	1	371
48203608	10	0,75	90	12	35	10	8	3	1	371
48203607	10	1	90	12	35	10	8	3	1	371
48203606	10	1,25	100	12	39	10	8	3	1	371
48203157	6	0,5	80	8	-	4,5	3,4	3	2	374
48203156	6	0,75	80	8	-	4,5	3,4	3	2	374
48203163	8	0,75	80	8	-	6	4,9	3	2	374
48203162	8	1	90	10	-	6	4,9	3	2	374
48203167	9	1	90	10	-	7	5,5	3	2	374
48203172	10	0,75	90	10	-	7	5,5	3	2	374
48203171	10	1	90	10	-	7	5,5	3	2	374
48203170	10	1,25	100	12	-	7	5,5	3	2	374
48203176	11	1	90	12	-	8	6,2	3	2	374
48203182	12	1	100	12	-	9	7	3	2	374
48203181	12	1,25	100	12	-	9	7	3	2	374
48203180	12	1,5	100	14	-	9	7	3	2	374
48203194	14	1	100	16	-	11	9	3	2	374
48203193	14	1,25	100	16	-	11	9	3	2	374
48203192	14	1,5	100	16	-	11	9	3	2	374
48203204	16	1	100	16	-	12	9	3	2	374
48203203	16	1,5	100	16	-	12	9	3	2	374
48203218	18	1	110	16	-	14	11	4	2	374
48203216	18	1,5	110	16	-	14	11	4	2	374
48203232	20	1	125	16	-	16	12	4	2	374
48203230	20	1,5	125	16	-	16	12	4	2	374
48203220	20	2	140	25	-	16	12	4	2	374
48203241	22	1	125	16	-	18	14,5	4	2	374
48203240	22	1,5	125	16	-	18	14,5	4	2	374
48203239	22	2	140	25	-	18	14,5	4	2	374
48203251	24	1	140	16	-	18	14,5	4	2	374
48203250	24	1,5	140	16	-	18	14,5	4	2	374
48203249	24	2	140	30	-	18	14,5	4	2	374



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

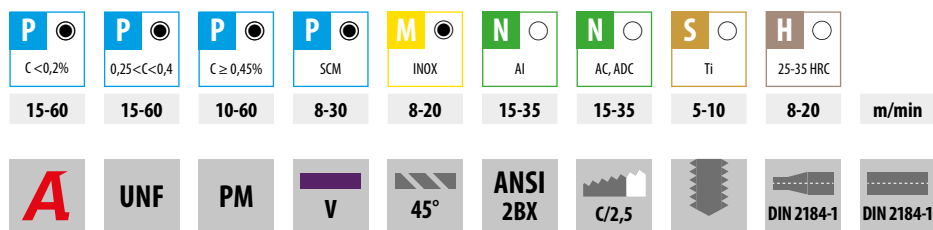
 C < 0,2%	 0,25 < C < 0,4	 C ≥ 0,45%	 SCM	 INOX	 Al	 AC, ADC	 Ti	 25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20		m/min
	UNC	PM			ANSI 2BX					
			V	45°		C/2,5		DIN 2184-1	DIN 2184-1	

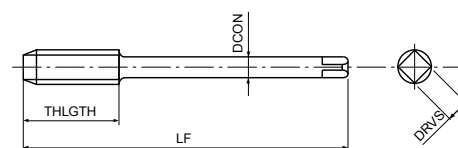
[illegible]



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

Threading | Cutting taps

[illegible]



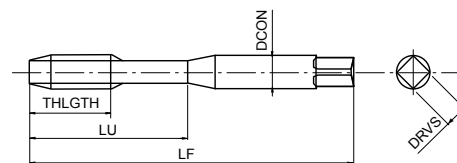
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P 	P 	P 	P 	M 	N 	N 	S 	H 
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	Al, ADC	Ti	25-35 HRC
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20

m/min

A **G** **PM** **V** **45°** **C/2,5** **DIN 5156**

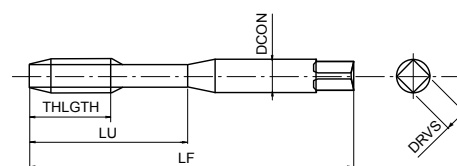
[illegible]



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

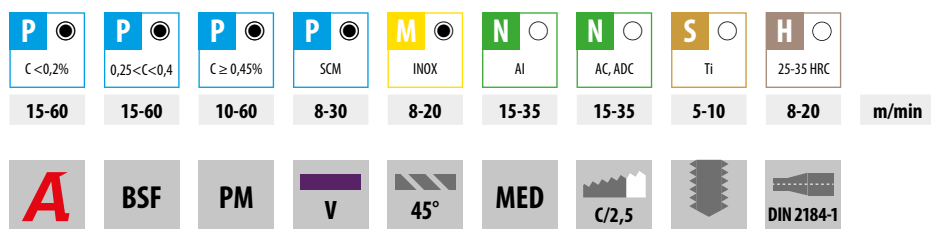
  C < 0,2%	  0,25 < C < 0,4	  C ≥ 0,45%	  SCM	  INOX	  Al	  AC, ADC	  Ti	  25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20		m/min
	BSW	PM			MED					

[illegible]



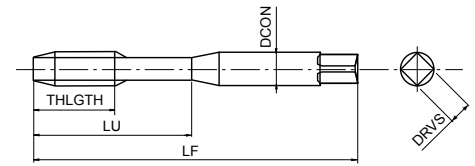
- First choice in quality and performance
- Powder metal spiral-fluted cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

Threading | Cutting taps



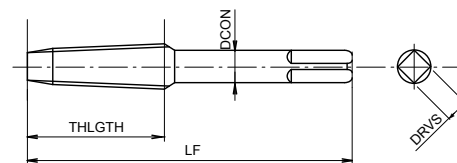
BSF

[illegible]



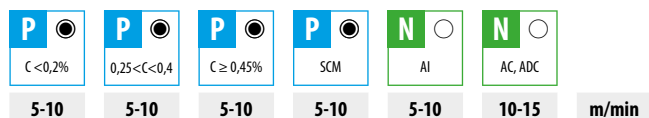
- | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--------------|
| P  | P  | P  | P  | M  | N  | N  | S  | H  | |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM | INOX | Al | AC, ADC | Ti | 25-35 HRC | |
| 15-60 | 15-60 | 10-60 | 8-30 | 8-20 | 15-35 | 15-35 | 5-10 | 8-20 | |
| | | | | | | | | | m/min |

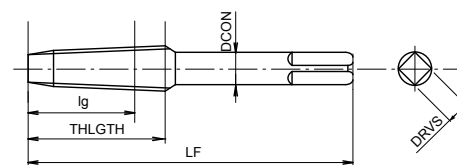
[illegible]



- First choice in quality and performance
- Powder metal straight flute cutting tap for through and blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and aluminium
- RC (BSPT) tapered 1:16

Threading | Cutting taps

[illegible]

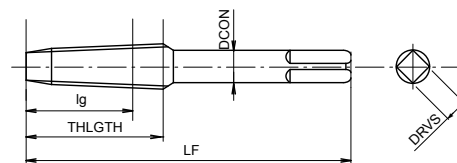


- | | | | | | | |
|--|--|--|--|--|--|-------|
| P  | P  | P  | P  | N  | N  | |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM | AI | AC, ADC | |
| 5-10 | 5-10 | 5-10 | 5-10 | 5-10 | 10-15 | m/min |

[illegible]

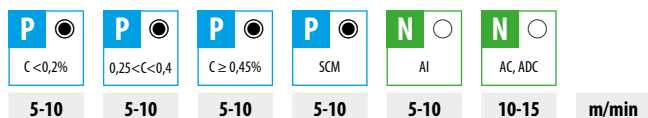
A-SFT NPT

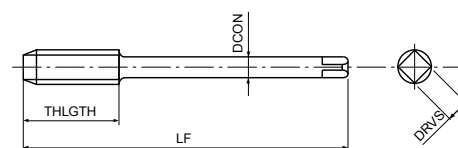
Threading | Cutting taps | NPT



- First choice in quality and performance
- Powder metal spiral flute cutting tap for blind holes
- Multilayer TiCN coating
- High speed tapping in general steels and aluminium
- NPT tapered 1:16

Threading | Cutting taps

[illegible]



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

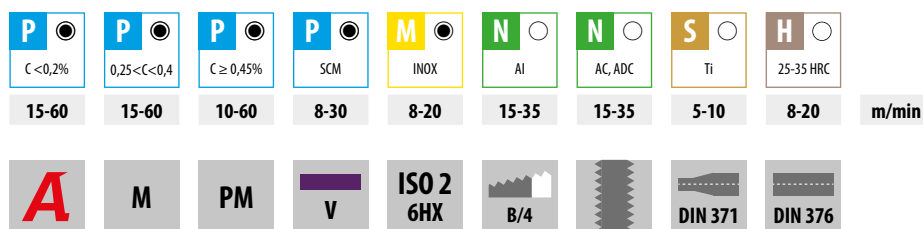
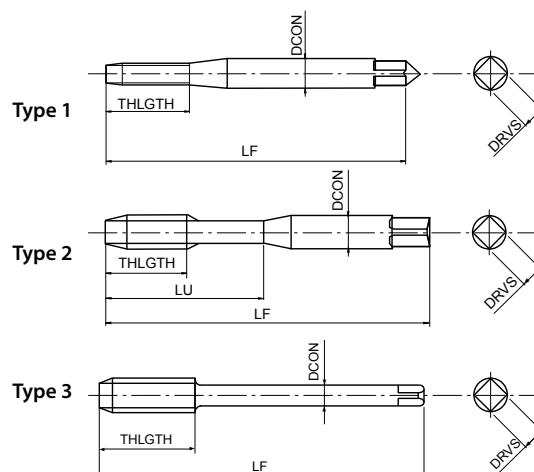
P 	P 	P 	P 	M 	N 	N 	S 	H 	
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	Al, ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	
									m/min

A **NPSF** **PM** **V** **45°** **E/1,5** **DIN 5156**

[illegible]

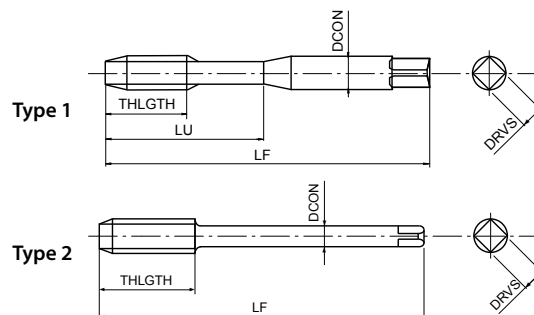


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels



*Tolerance 5 HX

[illegible]



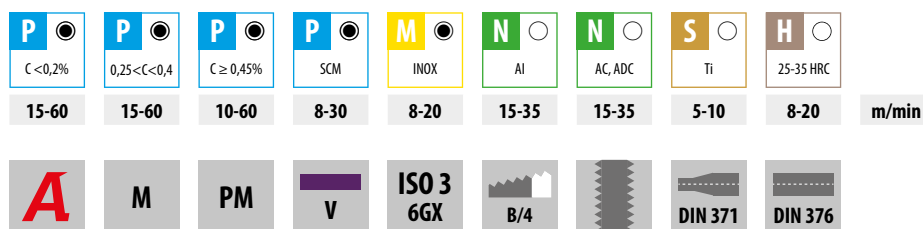
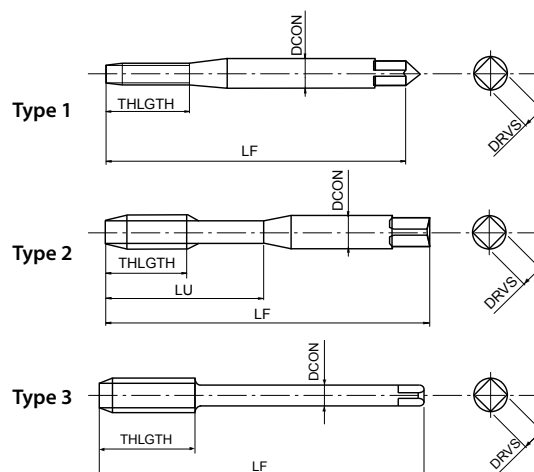
- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Side through coolant

 C < 0,2%	 0,25 < C < 0,4	 C ≥ 0,45%	 SCM	 INOX	 Al	 AC, ADC	 Ti	 25-35 HRC		
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20		m/min
										

[illegible]

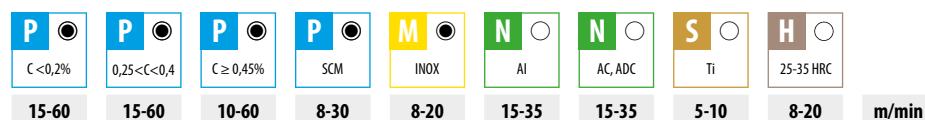
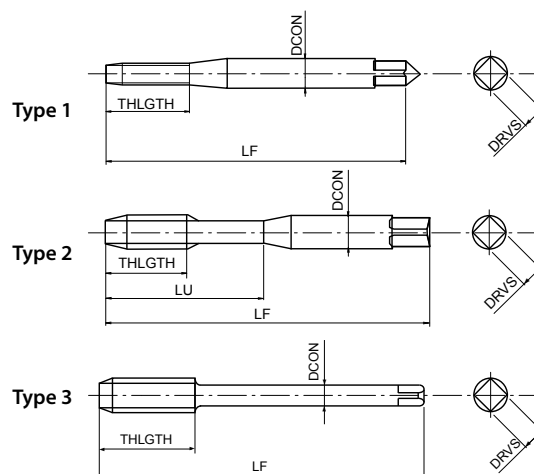


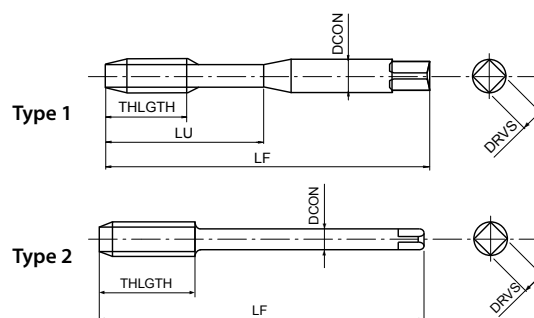
- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 6G internal thread tolerance

[illegible]

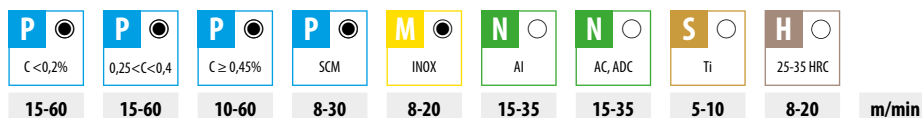


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- For 7G internal thread tolerance

[illegible]

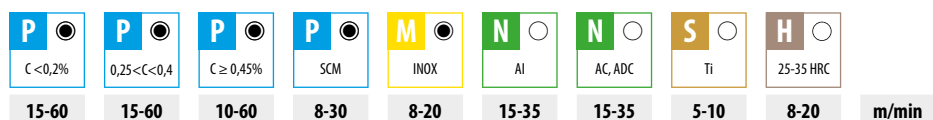
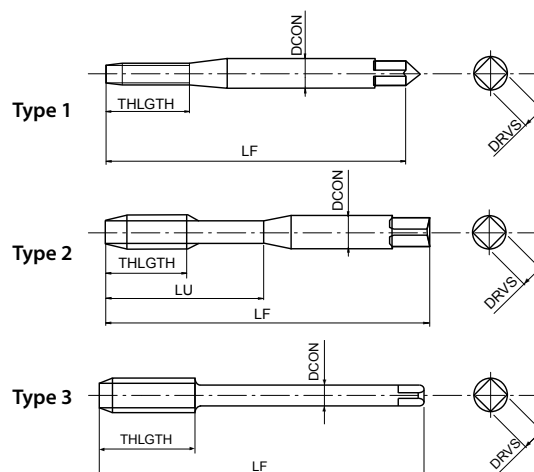


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- Oversized tap for 6H +0,1mm thread tolerance

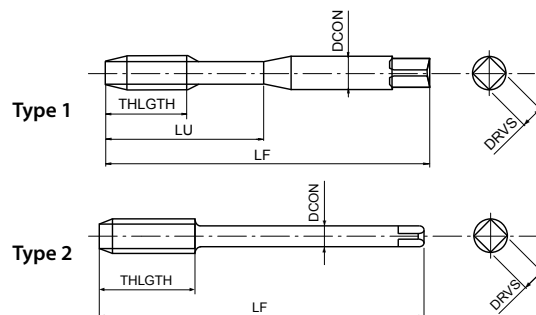
[illegible]



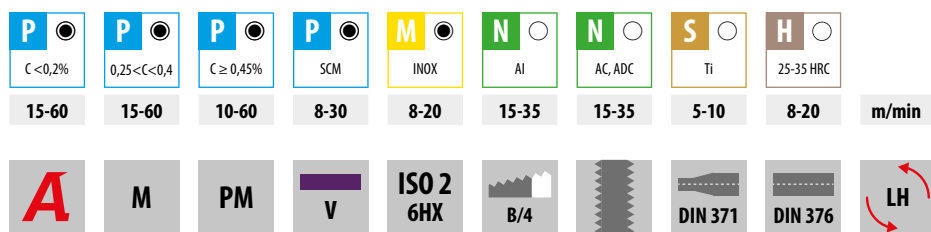
- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels
- With long shank for long reach threading

[illegible]

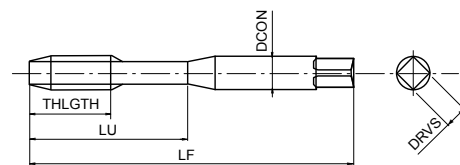
Threading | Cutting taps | Metric



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

[illegible]

Threading | Cutting taps | Metric



- | | | | | | | | | | |
|--|--|---|---|--|--|---|--|---|-------|
| P 
C < 0,2% | P 
0,25 < C < 0,4 | P 
C ≥ 0,45% | P 
SCM | M 
INOX | N 
Al | N 
AC, ADC | S 
Ti | H 
25-35 HRC | |
| 15-60 | 15-60 | 10-60 | 8-30 | 8-20 | 15-35 | 15-35 | 5-10 | 8-20 | m/min |

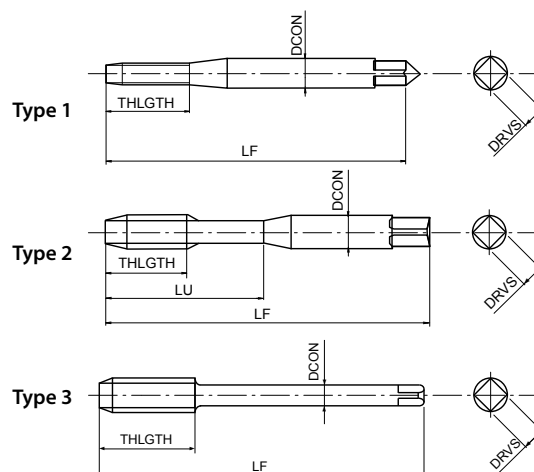


A-POT

Threading | Cutting taps | Metric Fine



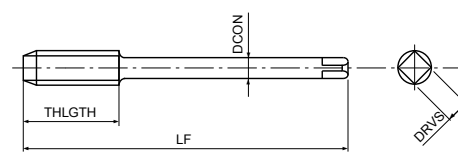
- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels



P	P	P	P	M	N	N	S	H	
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	AC, ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

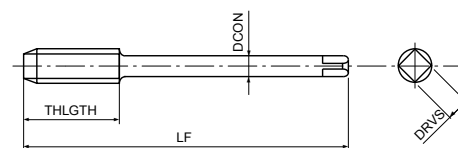
A	MF	PM	V	ISO 2 6HX	B/4	DIN 371	DIN 374
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EDP	TD	TP	LF	THLGTH	LU	DCON	DRVS	NOF	Type	DIN
48145135	2,5	0,35	50	-	9	2,8	2,1	2	1	371
48145137	2,6	0,35	50	-	9	2,8	2,1	2	1	371
48145141	3	0,35	56	8	18	3,5	2,7	3	2	371
48145143	3,5	0,35	56	9	20	4	3	3	2	371
48145146	4	0,35	63	10	21	4,5	3,4	3	2	371
48145145	4	0,5	63	10	21	4,5	3,4	3	2	371
48145148	4,5	0,5	70	12	25	6	4,9	3	2	371
48145151	5	0,5	70	12	25	6	4,9	3	2	371
48145602	6	0,5	80	14	30	6	4,9	3	2	371
48145601	6	0,75	80	14	30	6	4,9	3	2	371
48145160	7	0,75	80	14	30	7	5,5	3	2	371
48145604	8	0,75	80	18	30	8	6,2	3	2	371
48145603	8	1	90	22	35	8	6,2	3	2	371
48145605	9	1	90	22	35	9	7	3	2	371
48145608	10	0,75	90	20	35	10	8	3	2	371
48145607	10	1	90	20	35	10	8	3	2	371
48145606	10	1,25	100	24	39	10	8	3	2	371
48145157	6	0,5	80	14	-	4,5	3,4	3	3	374
48145156	6	0,75	80	14	-	4,5	3,4	3	3	374
48145163	8	0,75	80	18	-	6	4,9	3	3	374
48145162	8	1	90	22	-	6	4,9	3	3	374
48145167	9	1	90	22	-	7	5,5	3	3	374
48145172	10	0,75	90	20	-	7	5,5	3	3	374
48145171	10	1	90	20	-	7	5,5	3	3	374
48145170	10	1,25	100	24	-	7	5,5	3	3	374
48145176	11	1	90	20	-	8	6,2	3	3	374
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48145181	12	1,25	100	22	-	9	7	3	3	374
48145180	12	1,5	100	22	-	9	7	3	3	374
48145194	14	1	100	22	-	11	9	4	3	374
48145193	14	1,25	100	22	-	11	9	4	3	374
48145192	14	1,5	100	22	-	11	9	4	3	374
48145204	16	1	100	22	-	12	9	4	3	374
48145203	16	1,5	100	22	-	12	9	4	3	374
48145218	18	1	110	25	-	14	11	4	3	374
48145216	18	1,5	110	25	-	14	11	4	3	374
48145232	20	1	125	25	-	16	12	4	3	374
48145230	20	1,5	125	25	-	16	12	4	3	374
48145220	20	2	140	34	-	16	12	4	3	374
48145241	22	1	125	25	-	18	14,5	4	3	374
48145240	22	1,5	125	25	-	18	14,5	4	3	374
48145239	22	2	140	34	-	18	14,5	4	3	374
48145251	24	1	140	28	-	18	14,5	4	3	374
48145250	24	1,5	140	28	-	18	14,5	4	3	374
48145249	24	2	140	28	-	18	14,5	4	3	374



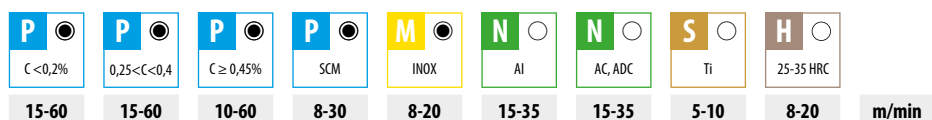
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|--|--|---|---|--|--|---|--|---|-------|
| P 
C < 0,2% | P 
0,25 < C < 0,4 | P 
C ≥ 0,45% | P 
SCM | M 
INOX | N 
Al | N 
AC, ADC | S 
Ti | H 
25-35 HRC | |
| 15-60 | 15-60 | 10-60 | 8-30 | 8-20 | 15-35 | 15-35 | 5-10 | 8-20 | m/min |

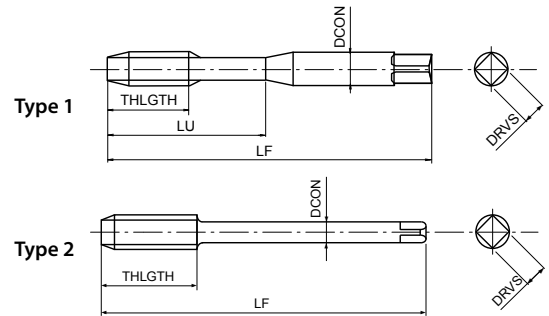
[illegible]



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

Threading | Cutting taps

[illegible]



- First choice in quality and performance
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- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

P 	P 	P 	P 	M 	N 	N 	S 	H 	
C < 0,2%	0,25 < C < 0,4	C ≥ 0,45%	SCM	INOX	Al	AC, ADC	Ti	25-35 HRC	
15-60	15-60	10-60	8-30	8-20	15-35	15-35	5-10	8-20	m/min

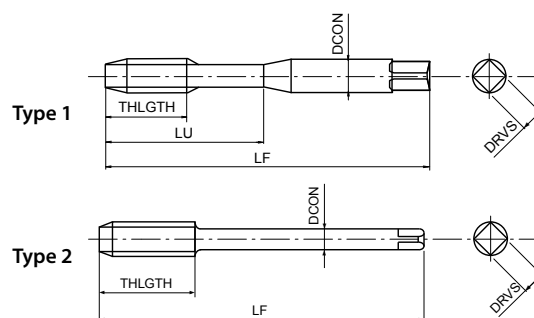









[illegible]

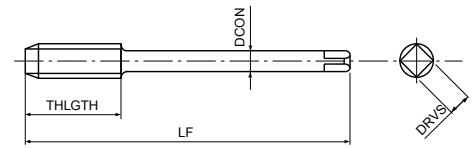


- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

UNF

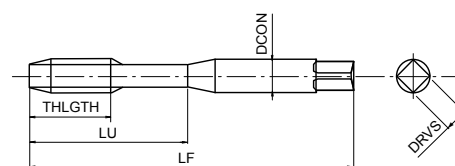
 C < 0,2% 15-60	 0,25 < C < 0,4 15-60	 C ≥ 0,45% 10-60	 SCM 8-30	 INOX 8-20	 Al 15-35	 AC, ADC 15-35	 Ti 5-10	 25-35 HRC 8-20	m/min
 UNF	 PM	 V	 ANSI 2BX	 B/4	 DIN 2184-1	 DIN 2184-1	 DIN 2184-1	 DIN 2184-1	

[illegible]



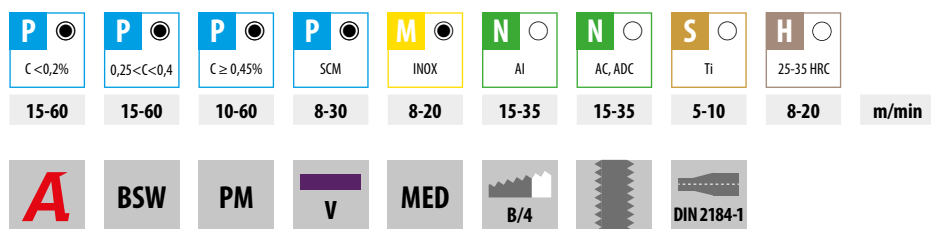
- | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--------------|
| P  | P  | P  | P  | M  | N  | N  | S  | H  | |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM | INOX | Al | AC, ADC | Ti | 25-35 HRC | |
| 15-60 | 15-60 | 10-60 | 8-30 | 8-20 | 15-35 | 15-35 | 5-10 | 8-20 | |
| | | | | | | | | | m/min |

[illegible]



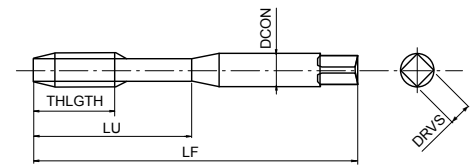
- First choice in quality and performance
- Powder metal spiral-point cutting tap for through holes
- Multilayer TiCN coating
- High speed tapping in general steels, aluminium, stainless steels

Threading | Cutting taps



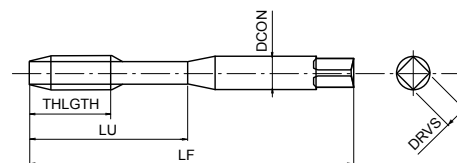
BSW

[illegible]



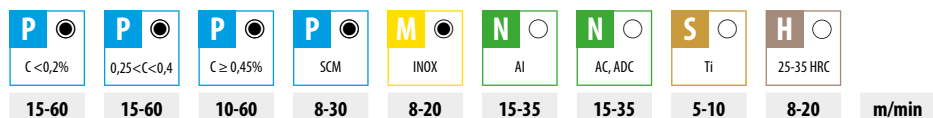
- | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--------------|
| P  | P  | P  | P  | M  | N  | N  | S  | H  | |
| C < 0,2% | 0,25 < C < 0,4 | C ≥ 0,45% | SCM | INOX | Al | AC, ADC | Ti | 25-35 HRC | |
| 15-60 | 15-60 | 10-60 | 8-30 | 8-20 | 15-35 | 15-35 | 5-10 | 8-20 | m/min |

[illegible]



- First choice in quality and performance
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- Multilayer TiCN coating
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Threading | Cutting taps

[illegible]

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