

High Performance Taps

Thread Mills

Synchro Chucks



1998 - 2018

M.A. FORD EUROPE

Where **high performance** is the **standard**®



Threading Tools

M.A. FORD MAX
RANGE

Performance, Precision, Economy

mafordeurope.com



Where **high performance** is the **standard**®

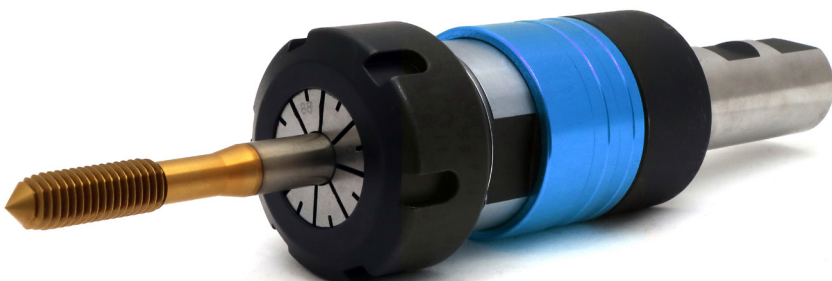


For almost 100 years, M.A.FORD has been at the cutting edge of tooling design and manufacture, and has developed an enviable global reputation for performance and precision in solid carbide tooling serving over 60 countries worldwide.

To expand our range of integrated manufacturing solutions to our

customers, we are now launching our brand new range of high performance tap and synchro chucks.

This new programme will provide a cost effective solution for companies that are looking to improve threading applications on their work-pieces.



CONTENTS

Universal HP Tap

page 2



MTSP	P	M	K	N	S
MTSPC	P	M	K	N	S
MTSF	P	M	K	N	S
MTSFC-C	P	M	K	N	S
MTSF-E	P	M	K	N	S
MTSFC	P	M	K	N	S

Materials $\leq 800 \text{ MPa}^{-2}$

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800SP-BT	P	M	K	N
800SF-CT	P	M	K	N

Stainless Steel - INOX

page 4



INOXSP-BA	P	M
INOXSF-CA	P	M

Materials $\leq 1200 \text{ MPa}^{-2} / \leq 1400 \text{ MPa}^{-2}$

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1200SP-BC	P	M	K	N
1200SF-CC	P	M	K	N
1400SP-BC	P	M	K	
1400SF-CC	P	M	K	

Roll Taps

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FRTG-CT	P	M	N
FRTG-CC	P	M	N
FRTG-CCC	P	M	N

Carbide Thread Mills

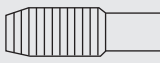


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Synchro Tap Chuck

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BT40 JIS B6339
SK - DIN 68971
HSK - DIN 69893
Weldon - DIN 1835
Accessories
Sealing Discs and Collets




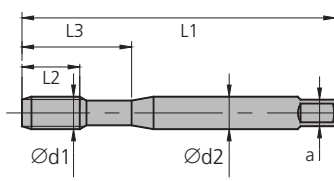
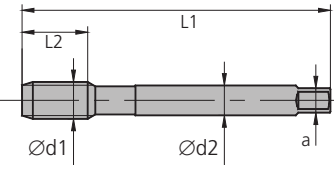








Technical Information

Coating		Flute types		Material	
TA	TIALN		RT Roll taps	HSS	High speed molybdenum steel
TN	TIN		SP Straight flutes with spiral point	HSSW	High speed cobalt steel
TC	TIN+TiCN		SF Spiral flutes	HSSE PM	High speed powder steel
				VHM	Micrograin solid carbide

Annealed	A			
Tempered	QT			
Hardened and tempered	HT			
Precipitation hardened	PH			

Group				Rm	HB		
Steel							
P	P1	Non-alloyed steel	Free cutting steel	A	750	220	P1
	P2		C ≤ 0,55 %	A	650	190	P2
	P3		C > 0,55 %	A	650	190	P3
	P4		C ≤ 0,55 %	QT	700	210	P4
	P5		C > 0,55 %	QT	1000	300	P5
	P6	Low-alloyed steel		A	600	175	P6
	P7			QT	1000	300	P7
	P8			QT	1200	380	P8
	P9			QT	1400	420	P9
	P10	High-alloyed steel and high-alloyed tool steel		A	700	210	P10
	P11			A	1000	300	P11
	P12			HT	1400	420	P12
	P13	Stainless steel	Ferritic/martensitic	A	700	210	P13
	P14		Martensitic	QT	1100	330	P14
Stainless steel							
M	M1	Stainless steel	Austenitic		700	210	M1
	M2		Austenitic	PH	1000	300	M2
	M3		Duplex		800	240	M3
Cast iron							
K	K1	Grey cast iron	Ferritic		600	180	K1
	K2		Pearlitic		820	240	K2
	K3	Malleable cast iron	Ferritic		675	200	K3
	K4		Pearlitic		870	260	K4
	K5	Cast iron with spheroidal graphite	Ferritic		520	155	K5
	K6		Pearlitic		900	270	K6
Non-ferrous metals							
N	N1	Aluminium wrought alloys			-	30	N1
	N2			PH	345	10	N2
	N3	Cast aluminium alloys	Si ≤ 12%		260	75	N3
	N4		Si ≤ 12%	PH	300	90	N4
	N5		Si > 12 %		450	130	N5
	N6	Magnesium alloys			250	70	N6
	N7	Copper and copper alloys	Non-alloyed Brass		350	100	N7
	N8		bronzeCu-alloys		300	90	N8
	N9		short-chipping		400	110	N9
	N10		High-strength		1000	300	N10
Superalloys and titanium							
S	S1	Heat-resistant alloys	Fe-based	A	675	200	S1
	S2			PH	950	280	S2
	S3			A	850	250	S3
	S4		Ni / Co base	PH	1200	350	S4
	S5			C	1100	320	S5
	S6	Titanium alloys	Pure titanium		675	200	S6
	S7		α and β alloys		1250	375	S7
	S8		β alloys		1400	410	S8
Hard materials							
H	H1	Hardened steel		HT		50 HRC	H1
	H2			HT		55 HRC	H2
	H3			HT		60 HRC	H3
	H4	Hardened cast iron		HT		55 HRC	H4

Universal HP Tap

    									     																																																																							
Material groups									<table border="1"> <tr><td>P</td><td>1-14</td></tr> <tr><td>M</td><td>1-3</td></tr> <tr><td>K</td><td>1-6</td></tr> <tr><td>N</td><td>1-10</td></tr> <tr><td>S</td><td>1-3 6</td></tr> </table>		P	1-14	M	1-3	K	1-6	N	1-10	S	1-3 6	<table border="1"> <tr><td>P</td><td>1-14</td></tr> <tr><td>M</td><td>1-3</td></tr> <tr><td>K</td><td>1-6</td></tr> <tr><td>N</td><td>1-10</td></tr> <tr><td>S</td><td>1-3 6</td></tr> </table>		P	1-14	M	1-3	K	1-6	N	1-10	S	1-3 6	<table border="1"> <tr><td>P</td><td>1-8</td></tr> <tr><td>M</td><td>1-3</td></tr> <tr><td>K</td><td>1-6</td></tr> <tr><td>N</td><td>1-10</td></tr> <tr><td>S</td><td>1-3 6</td></tr> </table>		P	1-8	M	1-3	K	1-6	N	1-10	S	1-3 6	<table border="1"> <tr><td>P</td><td>1-8</td></tr> <tr><td>M</td><td>1-3</td></tr> <tr><td>K</td><td>1-6</td></tr> <tr><td>N</td><td>1-10</td></tr> <tr><td>S</td><td>1-3 6</td></tr> </table>		P	1-8	M	1-3	K	1-6	N	1-10	S	1-3 6	<table border="1"> <tr><td>P</td><td>1-8</td></tr> <tr><td>M</td><td>1-3</td></tr> <tr><td>K</td><td>1-6</td></tr> <tr><td>N</td><td>1-10</td></tr> <tr><td>S</td><td>1-3 6</td></tr> </table>		P	1-8	M	1-3	K	1-6	N	1-10	S	1-3 6	<table border="1"> <tr><td>P</td><td>1-8</td></tr> <tr><td>M</td><td>1-3</td></tr> <tr><td>K</td><td>1-6</td></tr> <tr><td>N</td><td>1-10</td></tr> <tr><td>S</td><td>1-3 6</td></tr> </table>		P	1-8	M	1-3	K	1-6	N	1-10	S	1-3 6
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Chamfer									B / 4-5P																																																																							
Tolerance									6HX																																																																							
M	M	Ød1	P	L1	L2	L3	Ød2	a		MTSP	MTSPC	MTSF	MTSFC-C	MTSF-E	MTSFC																																																																	
	DIN 371																																																																															
	M2	0.4	45	8	12	2.8	2.1	1.6		M2 X 0.4		M2 X 0.4																																																																				
	M2.5	0.45	50	5	14	2.8	2.1	2.5		M2.5 X 0.45		M2.5 X 0.45																																																																				
	M3	0.5	56	5	18	3.5	2.7	2.5		M3 X 0.5		M3 X 0.5																																																																				
	M4	0.7	63	7	21	4.5	3.4	3.3		M4 X 0.7		M4 X 0.7																																																																				
	M5	0.8	70	8	25	6	4.9	4.2		M5 X 0.8	M5 X 0.8	M5 X 0.8	M5 X 0.8	M5 X 0.8	M5 X 0.8																																																																	
	M6	1	80	10	30	6	4.9	5		M6 X 1.0	M6 X 1.0	M6 X 1.0	M6 X 1.0	M6 X 1.0	M6 X 1.0																																																																	
	M8	1.25	90	13	35	8	6.2	6.8		M8 X 1.25	M8 X 1.25	M8 X 1.25	M8 X 1.25	M8 X 1.25	M8 X 1.25																																																																	
	M10	1.5	100	15	39	10	8	8.5		M10 X 1.5	M10 X 1.5	M10 X 1.5	M10 X 1.5	M10 X 1.5	M10 X 1.5																																																																	
	DIN 376																																																																															
	M12	1.75	110	18		9	7	10.2		M12 X 1.75	M12 X 1.75	M12 X 1.75	M12 X 1.75	M12 X 1.75	M12 X 1.75																																																																	
	M14	2	110	20		11	9	12		M14 X 2.0	M14 X 2.0	M14 X 2.0	M14 X 2.0	M14 X 2.0	M14 X 2.0																																																																	
	M16	2	110	20		12	9	14		M16 X 2.0	M16 X 2.0	M16 X 2.0	M16 X 2.0	M16 X 2.0	M16 X 2.0																																																																	
M20	2.5	140	25		16	12	17.5				M20 X 2.5																																																																					
M24	3.0	160	30		18	14.5	21				M24 X 3.0																																																																					
M30	3.5	180	35		22	18	26.5				M30 X 3.5																																																																					
MF	MF	Ød1	P	L1	L2	Ød2	a																																																																									
	DIN 374																																																																															
	M8 x 1	1	90	10	6	4.9	7.0			M8 X 1.0	M8 X 1.0	M8 X 1.0		M8 X 1.0																																																																		
	M10 x 1	1	90	10	7	5.5	9.0			M10 X 1.0	M10 X 1.0	M10 X 1.0		M10 X 1.0																																																																		
	M10 x 1.25	1.25	100	15	7	5.5	8.8			M10 X 1.25	M10 X 1.25	M10 X 1.25		M10 X 1.25																																																																		
	M12 x 1.5	1.5	100	15	9	7	10.5			M12 X 1.5	M12 X 1.5	M12 X 1.5		M12 X 1.5																																																																		
	M14 x 1.5	1.5	100	15	11	9	12.5			M14 X 1.5	M14 X 1.5	M14 X 1.5		M14 X 1.5																																																																		
	M16 x 1.5	1.5	100	15	12	9	14.5			M16 X 1.5	M16 X 1.5	M16 X 1.5		M16 X 1.5																																																																		

Vc (m/min)

P	Rm < 1200	10-40	20-50	10-40	20-50	10-40	20-50
	Rm < 1400	5-15	5-15				
M		5-15	5-25	5-15	5-25	5-15	5-25
K		10-30	10-50	10-30	10-50	10-30	10-50
N		10-30	10-50	10-30	10-30	10-30	10-50
S	Rm < 1200	1-8	1-8	1-8	1-8	1-8	1-8

Example of order

MTSP - M2 X 0.4

Materials ≤ 800 MPa⁻²

Material groups		<table border="1"> <tr><td>P</td><td>1-7</td><td>10</td></tr> <tr><td>M</td><td>1-3</td><td></td></tr> <tr><td>N</td><td>3-5</td><td>7-8</td></tr> </table>	P	1-7	10	M	1-3		N	3-5	7-8	<table border="1"> <tr><td>P</td><td>1-7</td><td>10</td></tr> <tr><td>M</td><td>1-3</td><td></td></tr> <tr><td>N</td><td>3-5</td><td>7-8</td></tr> </table>	P	1-7	10	M	1-3		N	3-5	7-8
P	1-7	10																			
M	1-3																				
N	3-5	7-8																			
P	1-7	10																			
M	1-3																				
N	3-5	7-8																			
Hole type																					
Coating		TN	TN																		
Chamfer		B / 4-5P	C / 2-3P																		
Tolerance		ISO2(6H)	ISO2(6H)																		

M

M	Ød1	P	L1	L2	L2 R40	L3	Ød2	a		800SP-BT	800SF-CT
DIN 371											
M3	0.5	56	11	5	18	3.5	2.7	2.5		M3 X 0.5	M3 X 0.5
M4	0.7	63	13	7	21	4.5	3.4	3.3		M4 X 0.7	M4 X 0.7
M5	0.8	70	15	8	25	6	4.9	4.2		M5 X 0.8	M5 X 0.8
M6	1	80	17	10	30	6	4.9	5		M6 X 1.0	M6 X 1.0
M8	1.25	90	20	13	35	8	6.2	6.8		M8 X 1.25	M8 X 1.25
M10	1.5	100	20	15	39	10	8	8.5		M10 X 1.5	M10 X 1.5
DIN 376											
M12	1.75	110	29	18		9	7	10.2		M12 X 1.75	M12 X 1.75
M14	2	110	30	20		11	9	12		M14 X 2.0	M14 X 2.0
M16	2	110	32	20		12	9	14		M16 X 2.0	M16 X 2.0




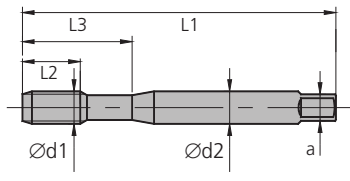
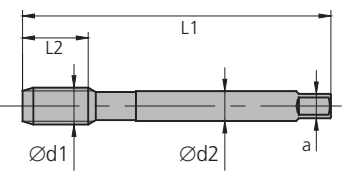





MF

MF	Ød1	P	L1	L2	L2 R40	Ød2	a				
DIN 374											
M8 x 1		1	90	20	10	6	4.9	7.0		M8 X 1.0	M8 X 1.0
M10 x 1		1	90	20	10	7	5.5	9.0		M10 X 1.0	M10 X 1.0
M10 x 1.25		1.25	100	20	15	7	5.5	8.8		M10 X 1.25	M10 X 1.25
M12 x 1.5		1.5	100	20	15	9	7	10.5		M12 X 1.5	M12 X 1.5
M14 x 1.5		1.5	100	20	15	11	9	12.5		M14 X 1.5	M14 X 1.5
M16 x 1.5		1.5	100	20	15	12	9	14.5		M16 X 1.5	M16 X 1.5

Example of order
800SP-BT - M3 X 0.5

Vc (m/min)			
P	Rm < 800	10-35	10-35
	Rm < 1000	5-20	5-20
M		5-15	5-15
K		5-15	5-15
N		10-30	10-30
S			

Stainless Steel – INOX

  											
Material groups		P 13-14 M 1-3		P 13-14 M 1-3							
Hole type		 < 3d		 < 2.5d							
Coating		TA		TA							
Chamfer		B / 4-5P		C / 2-3P							
Tolerance		ISO2 (6H)		ISO2 (6H)							
M	M Ød1	P	L1	L2	L2 R40	L3	Ød2	a		INOXSP-BA	INOXSF-CA
	DIN 371										
	M3	0.5	56	10	5	18	3.5	2.7	2.5	M3 X 0.5	M3 X 0.5
	M4	0.7	63	12	7	21	4.5	3.4	3.3	M4 X 0.7	M4 X 0.7
	M5	0.8	70	14	8	25	6	4.9	4.2	M5 X 0.8	M5 X 0.8
	M6	1	80	18	10	30	6	4.9	5	M6 X 1.0	M6 X 1.0
	M8	1.25	90	20	13	35	8	6.2	6.8	M8 X 1.25	M8 X 1.25
	M10	1.5	100	20	15	39	10	8	8.5	M10 X 1.5	M10 X 1.5
	DIN 376										
	M12	1.75	110	29	18		9	7	10.2	M12 X 1.75	M12 X 1.75
M14	2	110	30	18		11	9	12	M14 X 2.0	M14 X 2.0	
M16	2	110	32	20		12	9	14	M16 X 2.0	M16 X 2.0	
MF	MF Ød1	P	L1	L2	L2 R40	Ød2	a				
	DIN 374										
	M8 x 1	1	90	20	10	6	4.9	7.0		M8 X 1.0	M8 X 1.0
	M10 x 1	1	90	20	10	7	5.5	9.0		M10 X 1.0	M10 X 1.0
	M10 x 1.25	1.25	100	20	15	7	5.5	8.8		M10 X 1.25	M10 X 1.25
	M12 x 1.5	1.5	100	20	15	9	7	10.5		M12 X 1.5	M12 X 1.5
	M14 x 1.5	1.5	100	20	15	11	9	12.5		M14 X 1.5	M14 X 1.5
	M16 x 1.5	1.5	100	20	15	12	9	16.5		M16 X 1.5	M16 X 1.5

Vc (m/min)

P	5-15	5-15
M	5-20	5-20
K		
N		
S		

Example of order

INOXSP-BA - M3 X 0.5

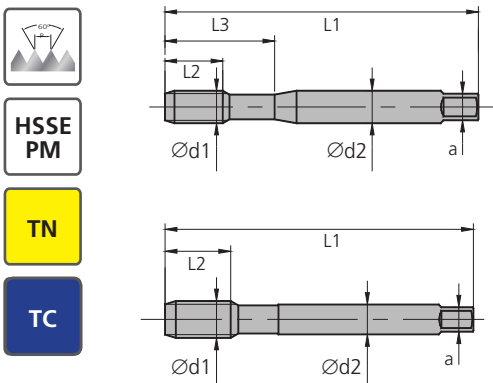





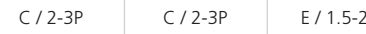


Materials $\leq 1200 \text{ MPa}^{-2}$ / $\leq 1400 \text{ MPa}^{-2}$

Material groups										P 5 7-8		P 5 7-8		P 8-9		P 8-9	
										11 13-14		11 13-14		12		12	
										M 2-3		M 2-3		M 3		M 3	
										K 5		K 5		K 1 6		K 1 6	
										N 3-5		N 3-5					
Hole type																	
										< 3d		< 2.5d		< 2.5d		< 1.5d	
Coating										TC		TC		TC		TC	
Chamfer										B / 4-5P		C / 2-3P		B / 4-5P		C / 2-3P	
Tolerance										ISO2 (6H)		ISO2 (6H)		6HX		6HX	
M										1200SP-BC		1200SF-CC		1400SP-BC		1400SF-CC	
M	Ød1	P	L1	L2	L2 R40	L3	Ød2	a									
DIN 371																	
M3	0.5	56	10	5	18	3.5	2.7	2.5		M3 X 0.5		M3 X 0.5		M3 X 0.5		M3 X 0.5	
M4	0.7	63	12	7	21	4.5	3.4	3.3		M4 X 0.7		M4 X 0.7		M4 X 0.7		M4 X 0.7	
M5	0.8	70	14	8	25	6	4.9	4.2		M5 X 0.8		M5 X 0.8		M5 X 0.8		M5 X 0.8	
M6	1	80	18	10	30	6	4.9	5		M6 X 1.0		M6 X 1.0		M6 X 1.0		M6 X 1.0	
M8	1.25	90	20	13	35	8	6.2	6.8		M8 X 1.25		M8 X 1.25		M8 X 1.25		M8 X 1.25	
M10	1.5	100	20	15	39	10	8	8.5		M10 X 1.5		M10 X 1.5		M10 X 1.5		M10 X 1.5	
DIN 376																	
M12	1.75	110	29	18		9	7	10.2		M12 X 1.75		M12 X 1.75		M12 X 1.75		M12 X 1.75	
M14	2	110	30	18		11	9	12		M14 X 2.0		M14 X 2.0		M14 X 2.0		M14 X 2.0	
M16	2	110	32	20		12	9	14		M16 X 2.0		M16 X 2.0		M16 X 2.0		M16 X 2.0	
MF																	
MF	Ød1	P	L1	L2	L2 R40	Ød2	a										
DIN 374																	
M8 x 1		1	90	20	10	6	4.9	7.0		M8 X 1.0		M8 X 1.0		M8 X 1.0		M8 X 1.0	
M10 x 1		1	90	20	10	7	5.5	9.0		M10 X 1.0		M10 X 1.0		M10 X 1.0		M10 X 1.0	
M10 x 1.25		1.25	100	20	15	7	5.5	8.8									
M12 x 1.5		1.5	100	20	15	9	7	10.5		M12 X 1.5		M12 X 1.5		M12 X 1.5		M12 X 1.5	
M14 x 1.5		1.5	100	20	15	11	9	12.5		M14 X 1.5		M14 X 1.5		M14 X 1.5		M14 X 1.5	
M16 x 1.5		1.5	100	20	15	12	9	16.5		M16 X 1.5		M16 X 1.5		M16 X 1.5		M16 X 1.5	

Example of order
1200SP-BA - M3 X 0.5

		Vc (m/min)			
P	Rm < 1200	5-20	5-20	5-20	5-20
	Rm < 1400			1-5	1-5
M		5-10	5-10		
K		10-25	10-25	10-20	10-20
N		10-30	10-30		
S					

Roll Taps

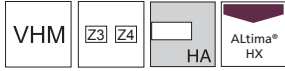
												
												
Material groups												
Hole type												
Coating												
Chamfer												
Tolerance												
M	M	P	L1	L2	L3	Ød2	a		FRTG-CT	FRTG-CC	FRTG-CCC	
	DIN 371											
	M2	0.4	45	8	12	2.8	2.1	1.83	M2 X 0.4			
	M2.5	0.45	50	9	14	2.8	2.1	2.3	M2.5 X 0.45			
	M3	0.5	56	10	18	3.5	2.7	2.8	M3 X 0.5	M3 X 0.5		
	M4	0.7	63	7	21	4.5	3.4	3.7	M4 X 0.7	M4 X 0.7		
	M5	0.8	70	8	25	6	4.9	4.65	M5 X 0.8	M5 X 0.8	M5 X 0.8	
	M6	1	80	10	30	6	4.9	5.6	M6 X 1.0	M6 X 1.0	M6 X 1.0	
	M8	1.25	90	13	35	8	6.2	7.45	M8 X 1.25	M8 X 1.25	M8 X 1.25	
	M10	1.5	100	15	39	10	8	9.35	M10 X 1.5	M10 X 1.5	M10 X 1.5	
	DIN 376											
	M12	1.75	110	18		9	7	11.25	M12 X 1.75			
	M14	2	110	20		11	9	13	M14 X 2.0			
	M16	2	110	20		12	9	15	M16 X 2.0			
MF	MF	P	L1	L2	Ød2	a						
	DIN 374											
	M8 x 1	1	90	10	6	4.9	7.6					
	M10 x 1	1	90	10	7	5.5	9.6					
	M10 x 1.25	1.25	100	15	7	5.5	9.45					
	M12 x 1.5	1.5	100	15	9	7	11.35					
	M14 x 1.5	1.5	100	15	11	9	13.35					
M16 x 1.5	1.5	100	15	12	9	15.35						

Example of order
FRTG-T - M2 X 0.4

Vc (m/min)			
P	Rm < 1000	10-30	
M		10-25	
K			
N		20-40	
S			

Carbide Thread Mills Series STMS Solid

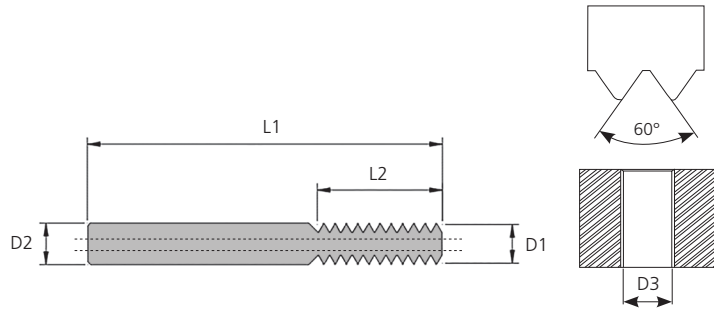
Series STMC / HTMC With Central Coolant



Series STMS



Series STMC / HTMC



Tool No.	Metric Size x Pitch	Tapping Drill D ³	D1	D2	L1	L2	No. of flutes (Z)	Type
STMS 03-0.5	M3 x 0.5	2.5	2.1	4.0	38.0	4.5	3 Straight	Solid
STMC 04-0.7	M4 x 0.7	3.3	2.6	4.0	38.0	6.3	3 Straight	Central Coolant
HTMC 05-0.8	M5 x 0.8	4.2	3.4	4.0	50.0	8.0	3 Helical	Central Coolant
HTMC 06-1.0	M6 x 1.0	5.0	4.0	6.0	58.0	10.0	3 Helical	Central Coolant
HTMC 08-1.25	M8 x 1.25	6.8	5.5	6.0	58.0	13.8	3 Helical	Central Coolant
HTMC 10-1.5	M10 x 1.5	8.5	7.1	8.0	64.0	16.5	3 Helical	Central Coolant
HTMC 12-1.75	M12 x 1.75	10.2	8.6	10.0	73.0	21.0	3 Helical	Central Coolant
HTMC 16-2.0	M14 x 2.0	12.0	9.9	10.0	73.0	26.0	3 Helical	Central Coolant
	M16 x 2.0	14.0						
HTMC 20-2.5	M18 x 2.5	15.5	13.4	14.0	80.0	35.0	4 Helical	Central Coolant
	M20 x 2.5	17.5						
	M22 x 2.5	19.5						
HTMC 24-3.0	M24 x 3.0	21.0	15.9	16.0	100.0	39.0	4 Helical	Central Coolant

Carbide Thread Mills Recommended cutting data

Material Groups	Cutting Speed Vc
Low Carbon Steels	120
Structural & Heat Treated Steels Up To 800 N/mm ²	100
Alloy Steels	60
Austenitic Stainless Steels	70
Titanium Alloys	40
Cast Iron	75
Aluminium Alloys (Si < 10%)	100
Aluminium (Unalloyed)	100
Copper (Unalloyed)	100

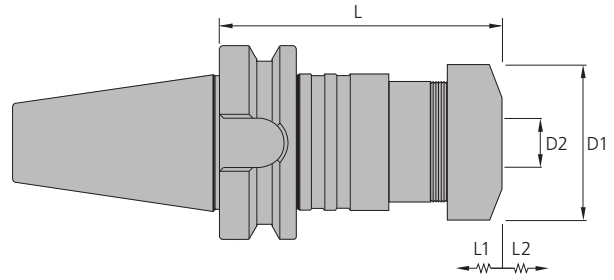
Synchro Tap Chucks

Product Advantages

- Designed for modern or conventional machining centres
- Compensates for deviation in rotating and feeding tapping motions
- Can improve life of tap by more than 50%
- Reduced cycle times due to stable threading process
- Increased surface finish and tap accuracy
- Through coolant tap capability

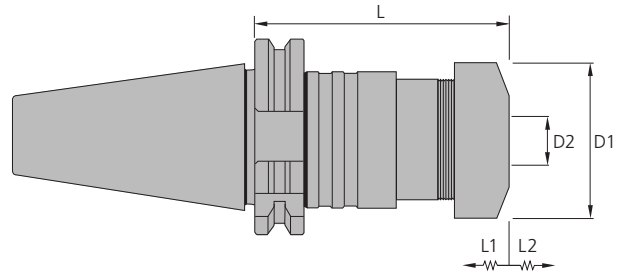


Synchro Tap Chuck BT40 JIS B6339



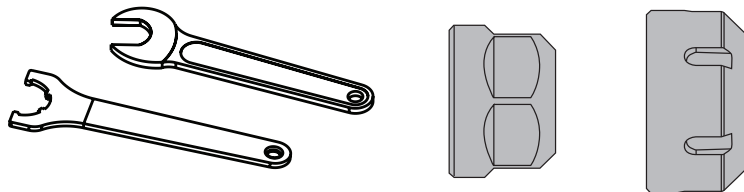
Tool No.	Stock	Shank	Tap Range	Dimensions					Collet
				D1	D2	L	L1	L2	
BT30-FSC20-80	○	BT30	M4-M12 & No.8-7/16	34	3-10	80	0.5	0.5	ER20
BT40-FSC20-85	●	BT40	M4-M12 & No.8-7/16	34	3-10	85	0.5	0.5	ER20
BT50-FSC20-100	○	BT50	M4-M12 & No.8-7/16	34	3-10	100	0.5	0.5	ER20
BT40-FSC32-100	○	BT40	M4-M24 & No.8-3/4	50	3-16	100	0.5	0.5	ER32
BT50-FSC32-115	●	BT50	M4-M24 & No.8-3/4	50	3-16	115	0.5	0.5	ER33

SK - DIN 68971



Tool No.	Stock	Shank	Tap Range	Dimensions					Collet
				D1	D2	L	L1	L2	
SK40-FSC20-80	●	SK40	M4-M12 & No.8-7/16	34	3-10	80	0.5	0.5	ER20
SK50-FSC20-80	○	SK50	M4-M12 & No.8-7/16	34	3-10	80	0.5	0.5	ER20
SK40-FSC32-95	○	SK40	M4-M24 & No.8-3/4	34	3-16	95	0.5	0.5	ER32
SK50-FSC32-95	●	SK50	M4-M24 & No.8-3/4	50	3-16	95	0.5	0.5	ER32

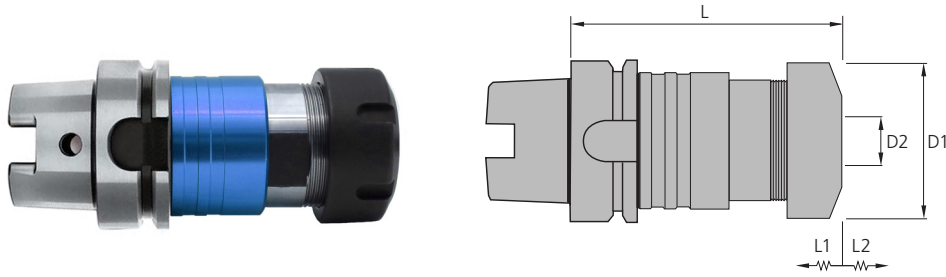
Accessories



Spares	ER20	ER32
Standard clamping nut	FSC20-SCN	FSC32-SCN
Sealing disc clamping nut	FSC20-SDCN	FSC32-SDCN
Wrench	FSC20-NTW	FSC32-NTW

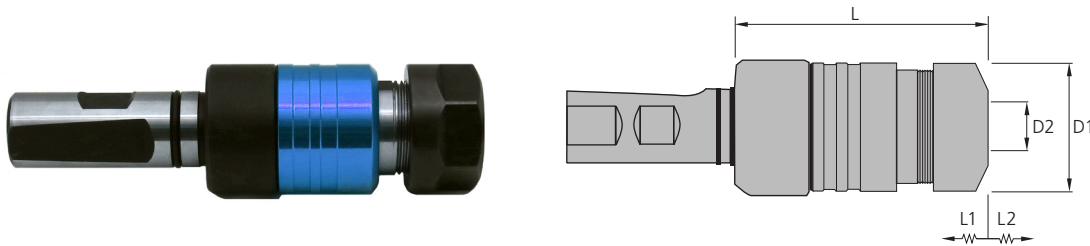
Synchro Tap Chuck

HSK - DIN 69893



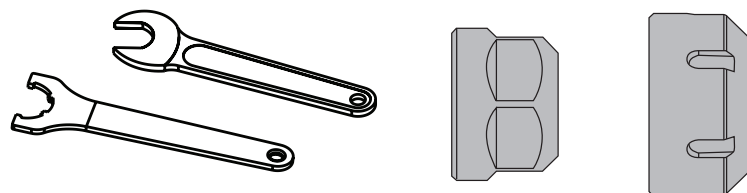
Tool No.	Stock	Shank	Tap Range	Dimensions					Collet
				D1	D2	L	L1	L2	
HSK63A-FSC20-100	●	HSK63A	M4-M12 & No.8-7/16	34	3-10	100	0.5	0.5	ER20
HSK100A-FSC20-110	○	HSK100A	M4-M12 & No.8-7/16	34	3-10	110	0.5	0.5	ER20
HSK63A-FSC32-120	○	HSK63A	M4-M24 & No.8-3/4	50	3-16	120	0.5	0.5	ER32
HSK100A-FSC32-130	●	HSK100A	M4-M24 & No.8-3/4	50	3-16	130	0.5	0.5	ER32

Weldon - DIN 1835



Tool No.	Stock	Shank	Tap Range	Dimensions					Collet
				D1	D2	L	L1	L2	
C20-FSC20-75	●	20	M4-M12 & No.8-7/16	34	3-10	75	0.5	0.5	ER20
C25-FSC20-75	○	25	M4-M12 & No.8-7/16	34	3-10	75	0.5	0.5	ER20
C25-FSC2-95	●	25	M4-M24 & No.8-3/4	50	3-16	95	0.5	0.5	ER32

Accessories



Spares	ER20	ER32
Standard clamping nut	FSC20-SCN	FSC32-SCN
Sealing disc clamping nut	FSC20-SDCN	FSC32-SDCN
Wrench	FSC20-NTW	FSC32-NTW

Synchro Tap Chuck

Sealing Discs



Model		Stock	D (mm)	ISO		JIS	DIN	
				ISO529	ISO529 ISO2283	JISB4430	DIN371	DIN374 DIN376
DER20C-6	DER32C-6	o			M6	M5/M6	M8	
DER20C-6.5	DER32C-6.5	o	6.5	M6	M8	M8		
DER20C-7	DER32C-7	o			M10		M10	
DER20C-8	DER32C-8	o	M8	M10		M8		
DER20C-8.5	DER32C-8.5	o	8.5			M12		
DER20C-9	DER32C-9	o		M12			M12	
DER20C-10	DER32C-10	o	10	M10			M10	
	DER32C-12	o	12					M16
	DER32C-12.5	o	12.5		M16	M16		
	DER32C-14	o	14		M18/M20	M18		M18
	DER32C-15	o	15			M20		
	DER32C-16	o	16		M22			M20

Collets



Model		Stock	D (mm)	ISO		DIN		JIS
				ISO529	ISO529 / ISO2283	DIN371	DIN374 / DIN376	JISB4430
ER20-6.3B5	ER32-6.3B5	●	6.0	M6	M8	M5/M6	M8	M6/M8
ER20-7B5.5	ER32-7B5.5	●					M10	M10
ER20-7B5.5	ER32-7B5.5	●	7.0	M8	M10	M8		
ER20-8.5B6.5	ER32-8.5B6.5	●	8.0					M12
ER20-9B7.1	ER32-9B7.1	●	9.0		M12		M12	
ER20-10B8	ER32-10B8	●	10.0	M10		M10		
	ER32-12B9	●				M16		
	ER32-12.5B10	●			M16			M16
	ER32-14B11.2	●	14.0		M18/M20		M18	M18
	ER32-15B12	●					M20	
	ER32-16B12	●	16.0			M20		



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Дистрибьютор:

ООО "ВЕЛЛКАМ"

127247 Москва,
Дмитровское ш. 100 стр.2

Тел. +7 (499) 685 00 69
email: info@wellcam-ps.ru
www.wellcam-ps.ru

Also available:

M.A. Ford Europe Ltd.

Unit 38, Royal Scot Road
Pride Park, Derby
DE24 8AJ United Kingdom

Phone: +44(0) 1332 267960
Fax: +44(0) 1332 267969
e-mail: sales@mafordeurope.com

mafordeurope.com



M.A. Ford[®] Mfg. Co., Inc.

7737 Northwest Blvd.
Davenport, IA 52806
USA

Tel: 563-391-6220 or 800-553-8024
Fax: 563-386-7660 or 800-892-9522
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**M.A. Ford[®]
Asia-Pacific, Limited**

Unit 2501, 25/f
148 Electric Road
North Point
Hong Kong

Tel: +852-2167-7150
Fax: +852-2167-8150
Email: sales@mafordap.com

**M.A. Ford[®]
Asia-Pacific, Limited**

(Mumbai Branch)
412A Arcadia, Hiranandani Estate
Thane (W) 400607, Maharashtra
India

Tel: +91-22-4123-7421
Fax: +91-22-4123-3387
Email: sales@mafordin.com