

The Right Tool at the Right Time



High Performance Multi-Material Application Taps

to ANSI, DIN/ANSI, ISO and DIN standards



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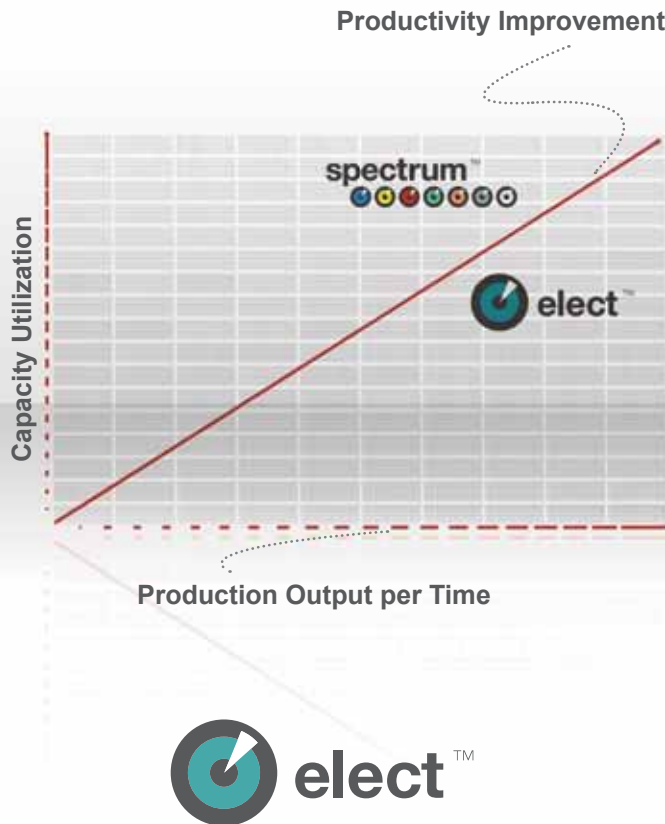
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Your Productivity *Our Vision*

At Dormer, we understand that each customer is different. One customer's priority may be to maximize capacity utilization, while another's may be to increase production output per time.

To help our customers choose the tool that best meets their requirements, Dormer classifies its rotary tooling ranges under one of the following two productivity classes:



	spectrum	elect P	elect M	elect K	elect N	elect S	elect H	elect O
Steel	●	●	●					
Stainless Steel	●		●					
Cast Iron				●				
Non ferrous material					●			
Heat resistant super alloys						●		
Hardened Materials							●	
Other								●

spectrumTM

Products carrying the **Elect**TM brand identify Dormer's best performing tools for one specific material or application, satisfying the need for high output per time.

In the case of material specific tools, a letter, relating to the **ISO** material classifications, will be added to the brand mark to denote material suitability e.g. **Elect P**TM denotes that this is a top performing tool for steel. In the case of application specific tools (e.g. deep hole drills or thread milling cutters) the term "APP" will be used to form the brand mark **Elect APP**TM.

Tools carrying the **Spectrum**TM brand indicate excellent productivity over a multitude of materials, providing high capacity utilization and versatility.

The brand mark incorporates a visual reference to every **ISO** material color code, denoting that these products are suitable for a range of applications or material types.

Features & Benefits

Spectrum™ Cutting Taps



Material

Manufactured from HSS-XS1 premium quality vanadium powder steel and HSCo for superior toughness and edge strength, to give a high resistance to wear and long tool life.

Surface Treatment

Special gold finish with bright flutes/thread, or steam tempering (blue) guarantee a smooth cutting action with less build up on the cutting edge. TiAlN-Top treatment on E615 & E616 long reach taps gives high toughness.

Flute Geometry

Available in spiral point for through holes and spiral flute for blind holes. The three radii profile, with a constant rake angle all along the flute, is specially designed to give an optimum performance and chip evacuation in materials being threaded.

Thread Depth

Threading to depths of up to 3 x Diameter.

Thread Form

Available in Metric, Metric Fine, UNC, UNF, G and NPT thread forms.

Tool Holding

These tap ranges have been designed for use with a high quality floating tool holder. Dormer SynchroFlex® tool holders further ensure a precisely defined minimum compensation so that maximum performance of CNC machines can be fully exploited. This is particularly important for larger sizes of spiral flute taps.

Standard

Available in a choice of ANSI, DIN/ANSI, ISO or DIN standard. E735 NPT taps have ANSI shank and square with DIN overall length.

Short Thread Length

The short thread length means low torque and better chip evacuation.



EX01



EP01



EX00



EP00



E000



E003

SynchroFlex® is a registered trademark of Tapmatic Corp., USA

Customer *Benefits*

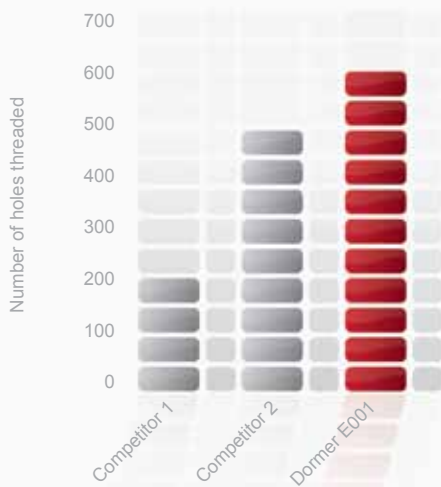


Spectrum™ Cutting Taps

- High performance and productivity in a wide range of materials for blind and through holes.
- Increased tool life as a result of an optimum combination of material and geometry, which gives low material adhesion.
- Narrow, regular chips and adequate flute space mean negligible chip congestion and therefore a continuous production process.
- Threading depths up to $3 \times \varnothing$.
- Long reach taps (E615 & E616) designed with long overall length and short thread length for maximum reach and efficient chip evacuation.
- Available to ANSI, DIN or ISO standard and in thread forms M, MF, UNC, UNF, G and NPT.

Test *Results*

Tool Life comparison, Dormer Spectrum™ E001 spiral point tap v competitor taps



The graph compares the tool life achieved (number of holes threaded) of each tap, threading through holes. At a cutting speed of 32.8ft/min and to a depth of $1.5 \times \varnothing$, the Dormer Spectrum™ E001 spiral point tap threaded 28% more holes than its nearest competitor in 41CrMo4/SS2244 (AMG 1.5; ISO P) Alloy Steel material.

Dormer Spectrum™ spiral point tap, EP01

Industry segment: Small part machining, European customer

Target: To increase tool life

Machine: CNC milling machine

Material: AMG 2.2 (ISO M), 304L

Dimension: M6

Threading depth: 0.472 inches

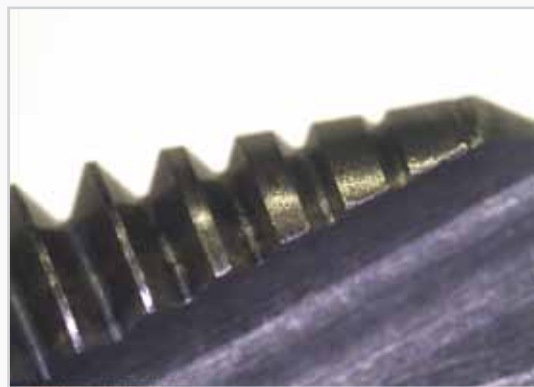
Drill diameter: 5 mm

Coolant: Emulsion 6%

Holder: Rigid tap holder

Hole type: Through holes

Cutting speed: 26.2ft/min



Condition of the cutting edge of Dormer Spectrum™ EP01 after 400 threaded holes

Result

The cutting conditions used for the Dormer Spectrum™ EP01 and the competitor tap were identical. However, a tool life of 100 threaded holes was achieved with the competitor tap. After 400 threaded holes with the Dormer Spectrum™ EP01, end of tool life was still not reached.

Features & *Benefits*



Spectrum™ Forming Taps

Material

Manufactured from HSS-XS1 premium quality vanadium powder steel and HSCo for superior toughness and edge strength, to give a high resistance to wear and long tool life. The Solid Carbide substrate on T115 and T116 allows these taps to be operated at higher cutting speeds for increased productivity.

Surface Treatment

Titanium Nitride (TiN) coating reduces friction resulting in longer tool life; Chromium Nitride (CrN), with its lower tendency to built up edge, is ideal for softer steel and aluminum alloys. A bright finish option is also available.

Titanium Carbo Nitride (TiCN), with its properties of excellent wear resistance, complements the Solid Carbide substrate on the T115 and T116.

Geometry

The thread profile generates only low torque and gives a smooth surface on the finished thread and a long tool life. Oil grooves on the E096, E308, and E890-E893 facilitate the flow of coolant to the machining area, while the internal coolant option on the E099 and E315 further increases tool life.

Threading Depth

Threading to depths of up to 3.5 x Diameter.

Thread Form

Available in Metric, Metric Fine, UNC, UNF and EGM thread forms.

Tool Holding

These tap ranges have been designed for use with a high quality floating tool holder. Dormer SynchroFlex® tool holders further ensure a precisely defined minimum compensation so that maximum performance of CNC machines can be fully exploited.

Standard

Available in a choice of ANSI, DIN/ANSI, ISO or DIN standard.



Customer *Benefits*

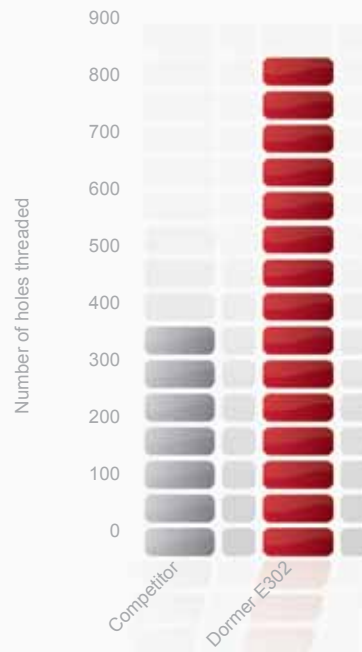


Spectrum™ Forming Taps

- High performance and productivity in a wide range of materials – same tap for threading both blind and through holes.
- Chip-free operation with strong thread for long tool life.
- Smooth surface finish in threaded hole.
- Highly stable design for a lower risk of tap breakage.
- Threading depths up to $3.5 \times \varnothing$.
- Forming tap options with internal coolant or oil grooves facilitate coolant flow to the machining area, for increased tool life.
- Also available in Solid Carbide, with or without internal coolant (T115 & T116), for applications where higher productivity is required.
- Available to ANSI, DIN/ANSI, ISO or DIN standard and in thread forms M, MF, UNC, UNF and EGM.

Test *Results*

Tool Life comparison, Dormer Spectrum™ E302 forming tap v competitor tap



The graph shows that the Dormer Spectrum™ E302 TiN coated tap achieved in excess of double the number of holes threaded by a competitor's equivalent tap in AMG 1.2 (ISO P) Fe37, threading at $2 \times \varnothing$ at a cutting speed of 108 feet per minute.

Application Material Groups (AMG)

How To Use This AMG Chart:

1. Determine your Workpiece Material. Select Material from the AMG Chart below.
2. Use the icons to find product features.
3. Find the Surface Feet per minute (SFM)

example: 82, 82 = SFM

■ = Excellent for Application ● = Good for Application

(see pages 20 - 106)



ANSI	ANSI	ANSI	ANSI
3B	3B	3B	3B
2.5xD	2.5xD	2.5xD	2.5xD
Gold	ST	Gold	ST
HSS XS1	HSS XS1	HSS XS1	HSS XS1
B 3.5 - 5	B 3.5 - 5	C 2 - 3	C 2 - 3
No.6 - 1"	No.2 - 1"	No.6 - 1"	No.4 - 1"

2

3

Application Material Groups (AMG) With Examples *For more examples of application materials, please consult the Dormer Product Selector Program				Hardness HB	20	21	22	23
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120	82	82	82	82	
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200	72	72	72	72	
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<250	59	59	59	59	
	1.4 Alloy steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	<250	52	52	52	52	
	1.5 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>250<350	33	33	33	33	
	1.6 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>350	16	16			
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55HRC					
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63HRC					
2. Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<250		26		23	
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<250		23		20	
	2.3 Ferritic + Austenitic, Martensitic	318-329, 400-446, 15-4PH, 17-4PH, DUPLEX	<300		16		13	
	2.4 Precipitation Hardened	15-5PH, Custom 450 17-4PH	<300					
3. Cast Iron	3.1 Lamellar graphite	Grey, G10, Gg40, J431C, A48 CLASS 20	<150	49	49			
	3.2 Lamellar graphite	Grey, GG25-Gg40, J158, A48 CLASS 40-60	>150<300	26	26			
	3.3 Nodular graphite/ Malleable Cast Iron	A220, A436, A439, A602, Black, GGG40-GGG70	<200	49	49			
	3.4 Nodular graphite/ Malleable Cast Iron	Black Gts/Gtw, J434C	>200<300	26	26			
4. Titanium	4.1 Titanium, unalloyed	Commercially Pure	<200	33			33	
	4.2 Titanium, alloyed	6A14V, 6A14V-2Sn, Monel, Monel K	<270	16			16	
	4.3 Titanium, alloyed	6A14V-4Mo, 7A14V-4Mo, 4911-4967	>270<350					
5. Nickel	5.1 Nickel, unalloyed	Commercially Pure, 17644, 200, 5553	<150	39			39	
	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<270	16			16	
	5.3 Nickel, alloyed	Inconel 718, Nimonic 75-95, Rene 41, Inconel 825, A286	>270<350					
6. Copper	6.1 Copper	Commercially Pure	<100	39			39	
	6.2 β-Brass, Bronze	314-340, 350-370	<200	98			98	
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200	66			66	
	6.4 High Strength Bronze	Ampco® 18-25	<470					
7. Aluminium Magnesium	7.1 Al, Mg, unalloyed	Commercially Pure	<100	52			52	
	7.2 Al alloyed, Si<0.5%	6061 T6, 7075, 314-340	<150	115			115	
	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120	66			66	
	7.4 Al alloyed, Si>10% Mg alloys	Magnesium Whisker Reinforced	<120	49			49	
8. Synthetic Materials	8.1 Thermoplastics	Ultradid, Polystrol	---	98			98	
	8.2 Thermosetting plastics	Bakelitt, Pertinax	---					
	8.3 Reinforced plastic materials	CFK, GFKAFK	---					
9. Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<550					
10. Graphite	10.1 Standard graphite		---					

E064	E892	E035	E036	E037	E038	E074	E893	E005	E006	E007	E008	E094	E890		
UNC	UNC	UNF	UNF	UNF	UNF	UNF	UNF	M	M	M	M	M	M		
															
ANSI	DIN ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	DIN ANSI	ANSI	ANSI	ANSI	ANSI	ANSI	DIN ANSI		
2B	2B	3B	3B	3B	3B	2B	2B	6H	6H	6H	6H	6HX	6H		
															
2.5xD	3xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	3xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	3xD		
Gold	TiN	Gold	ST	Gold	ST	Gold	TiN	Gold	ST	Gold	ST	Gold	TiN		
HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1		
C 2-3	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3	C 2-3	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3	C 2-3	C 2-3		
															
															
No.4 - 3/8	No.4 - 1"	No.6 - 1"	No.10 - 1"	No.10 - 1"	No.10 - 1"	No.10 - 3/8	No.10 - 3/4	M4 - M20	M4 - M20	M4 - M20	M4 - M20	M3 - M10	M3 - M20		
	NEW 2008.04						NEW 2008.04						NEW 2008.04		
24	25	26	27	28	29	30	31	32	33	34	35	36	37	AMG	ISO
98	180	82	82	82	82	98	180	82	82	82	82	98	180	1.1	P
89	164	72	72	72	72	89	164	72	72	72	72	89	164	1.2	P
75	148	59	59	59	59	75	148	59	59	59	59	75	148	1.3	P
66	131	52	52	52	52	66	131	52	52	52	52	66	131	1.4	P
	66	33	33	33	33		66	33	33	33	33		66	1.5	P
		16	16	16	16			16	16					1.6	P
														1.7	H
														1.8	H
	59		26		23		59		26		23		59	2.1	M
	49		23		20		49		23		20		49	2.2	M
	33		16		13		33		16		13		33	2.3	M
														2.4	M
		49	49					49	49					3.1	K
		26	26					26	26					3.2	K
		49	49					49	49					3.3	K
		26	26					26	26					3.4	K
	115	33		33			115	33		33			115	4.1	S
		16		16				16		16				4.2	S
														4.3	S
	66	39		39			66	39		39			66	5.1	S
	26	16		16			26	16		16			26	5.2	S
														5.3	S
	82	39					82	39					82	6.1	N
		98						98						6.2	N
	131	66					131	66					131	6.3	N
														6.4	N
72	131	52		52		72	131	52		52		72	131	7.1	N
125	180	115		115		125	180	115		115		125	180	7.2	N
72	131	66		66		72	131	66		66		72	131	7.3	N
	82	49		49			82	49		49			82	7.4	N
		98		98				98						8.1	O
														8.2	O
														8.3	O
														9.1	H
														10.1	O

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Application Material Groups (AMG)

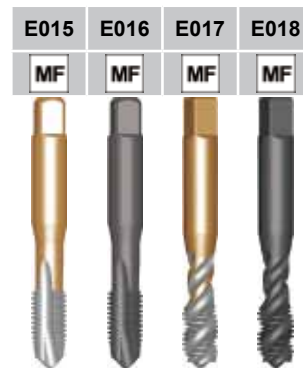
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3. Find the Surface Feet per minute (SFM)

example: 82, 82 = SFM

■ = Excellent for Application ● = Good for Application

(see pages 20 - 106)



ANSI	ANSI	ANSI	ANSI
6H	6H	6H	6H
			
2.5xD	2.5xD	2.5xD	2.5xD
Gold	ST	Gold	ST
HSS XS1	HSS XS1	HSS XS1	HSS XS1
B 3.5 - 5	B 3.5 - 5	C 2 - 3	C 2 - 3
			
			

M8 - M18 M8 - M18 M8 - M18 M8 - M18

Application Material Groups (AMG) With Examples							
*For more examples of application materials, please consult the Dormer Product Selector Program							
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120	82	82	82	82
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200	72	72	72	72
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<250	59	59	59	59
	1.4 Alloy steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	<250	52	52	52	52
	1.5 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>250<350	33	33	33	33
	1.6 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>350	16	16		
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55HRC				
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63HRC				
2. Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<250		26		23
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<250		23		20
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	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<270	16		16	
	5.3 Nickel, alloyed	Inconel 718, Nimonic 75-95, Rene 41, Inconel 825, A286	>270<350				
6. Copper	6.1 Copper	Commercially Pure	<100	39			
	6.2 β-Brass, Bronze	314-340, 350-370	<200	98			
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200	66			
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	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120	66		66	
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	8.2 Thermosetting plastics	Bakelitt, Pertinax	---				
	8.3 Reinforced plastic materials	CFK, GFKAFK	---				
9. Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<550				
10. Graphite	10.1 Standard graphite		---				

ANSI & DIN ANSI

E891	E735		
			
			
			
			
			
			
			
			
M10 - M12	1/16" - 1"		
			
40	41	AMG	ISO
180		1.1	P
164		1.2	P
148		1.3	P
131	20	1.4	P
66	13	1.5	P
	10	1.6	P
		1.7	H
		1.8	H
59		2.1	M
49		2.2	M
33		2.3	M
	10	2.4	M
	30	3.1	K
	13	3.2	K
		3.3	K
		3.4	K
115		4.1	S
	10	4.2	S
	10	4.3	S
66		5.1	S
26	10	5.2	S
	10	5.3	S
82		6.1	N
	49	6.2	N
131	36	6.3	N
	13	6.4	N
131		7.1	N
180		7.2	N
131	52	7.3	N
82	39	7.4	N
		8.1	O
		8.2	O
		8.3	O
		9.1	H
		10.1	O

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Application Material Groups (AMG)

How To Use This AMG Chart:

1. Determine your Workpiece Material. Select Material from the AMG Chart below.
2. Use the icons to find product features.
3. Find the Surface Feet per minute (SFM)

example: 82, 82 = SFM



■ = Excellent for Application ● = Good for Application

(see pages 20 - 106)

				DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1
				2B	2B	2B	2B
				2.5xD	2.5xD	2.5xD	2.5xD
				Gold	ST	Gold	ST
				HSS XS1	HSS XS1	HSS XS1	HSS XS1
				B 3.5 - 5	B 3.5 - 5	C 2 - 3	C 2 - 3
				No. 4 - 1"	No. 4 - 1"	No. 4 - 1"	No. 4 - 1"
				NEW 2010.09	NEW 2010.09	NEW 2010.09	NEW 2010.09
				42	43	44	45
Application Material Groups (AMG) With Examples							
*For more examples of application materials, please consult the Dormer Product Selector Program							
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120	82	82	82	82
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200	72	72	72	72
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<250	59	59	59	59
	1.4 Alloy steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	<250	52	52	52	52
	1.5 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>250<350	33	33	33	33
	1.6 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>350	16	16		
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55HRC				
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63HRC				
2. Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<250		23		23
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<250		20		20
	2.3 Ferritic + Austenitic, Martensitic	318-329, 400-446, 15-4PH, 17-4PH, DUPLEX	<300		13		13
	2.4 Precipitation Hardened	15-5PH, Custom 450 17-4PH	<300				
3. Cast Iron	3.1 Lamellar graphite	Grey, G10, Gg40, J431C, A48 CLASS 20	<150	49	49		
	3.2 Lamellar graphite	Grey, GG25-Gg40, J158, A48 CLASS 40-60	>150<300	26	26		
	3.3 Nodular graphite/ Malleable Cast Iron	A220, A436, A439, A602, Black, GGG40-GGG70	<200	49	49		
	3.4 Nodular graphite/ Malleable Cast Iron	Black Gts/Gtw, J434C	>200<300	26	26		
4. Titanium	4.1 Titanium, unalloyed	Commercially Pure	<200	33		33	
	4.2 Titanium, alloyed	6A14V, 6A14V-2Sn, Monel, Monel K	<270	16		16	
	4.3 Titanium, alloyed	6A14V-4Mo, 7A14V-4Mo, 4911-4967	>270<350				
5. Nickel	5.1 Nickel, unalloyed	Commercially Pure, 17644, 200, 5553	<150	39		39	
	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<270	16		16	
	5.3 Nickel, alloyed	Inconel 718, Nimonic 75-95, Rene 41, Inconel 825, A286	>270<350				
6. Copper	6.1 Copper	Commercially Pure	<100	39			
	6.2 β-Brass, Bronze	314-340, 350-370	<200	98			
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200	65			
	6.4 High Strength Bronze	Ampco® 18-25	<470				
7. Aluminium Magnesium	7.1 Al, Mg, unalloyed	Commercially Pure	<100	52		52	
	7.2 Al alloyed, Si<0.5%	6061 T6, 7075, 314-340	<150	114		114	
	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120	65		65	
	7.4 Al alloyed, Si>10% Mg alloys	Magnesium Whisker Reinforced	<120	49		49	
8. Synthetic Materials	8.1 Thermoplastics	Ultramid, Polystrol	---	98			
	8.2 Thermosetting plastics	Bakelit, Pertinax	---				
	8.3 Reinforced plastic materials	CFK, GFKAFK	---				
9. Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<550				
10. Graphite	10.1 Standard graphite		---				

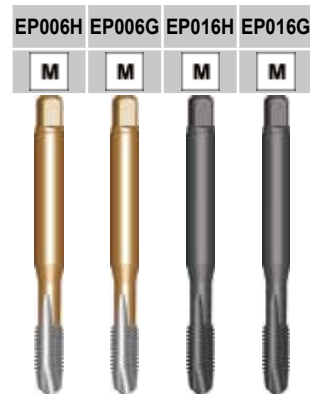
E020	E021	E022	E023	E523	E596	EP30	EP31	EX30	EX31	E030	E031	E032	E033	E530		
UNC	UNC	UNC	UNC	UNC	UNC	UNF	UNF	UNF	UNF	UNF	UNF	UNF	UNF	UNF		
																
ISO 529	ISO 529	ISO 529	ISO 529	ISO 529	ISO 529	DIN 2184-1	DIN 2184-1	DIN 2184-1	DIN 2184-1	ISO 529	ISO 529	ISO 529	ISO 529	ISO 529		
2B	2B	2B	2B	2BX	2BX	2B	2B	2B	2B	2B	2B	2B	2B	2BX		
																
2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD		
Gold	ST	Gold	ST		CrN	Gold	ST	Gold	ST	Gold	ST	Gold	ST			
HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS	HSS	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS		
B 3.5-5	B 3.5-5	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3	C 2-3		
																
																
No.2 - 1"	No.2 - 1"	No.2 - 1"	No.2 - 1"	No.4 - 3/8	No.4 - 3/8	No.8 - 1"	No.8 - 1"	No.8 - 1"	No.8 - 1"	No.8 - 1"	No.8 - 1"	No.8 - 1"	No.8 - 1"	No.10 - No.8		
						NEW 2010.09	NEW 2010.09	NEW 2010.09	NEW 2010.09							
46	47	48	49	50	50	51	52	53	54	55	56	57	58	59	AMG	ISO
82	82	82	82	98	180	82	82	82	82	82	82	82	82	98	1.1	P
72	72	72	72	88	164	72	72	72	72	72	72	72	72	88	1.2	P
59	59	59	59	75	147	59	59	59	59	59	59	59	59	75	1.3	P
52	52	52	52	65	131	52	52	52	52	52	52	52	52	65	1.4	P
33	33	33	33			33	33	33	33	33	33	33	33		1.5	P
16	16					16	16			16	16	16	16		1.6	P
															1.7	H
															1.8	H
	23		23		59		23		23		23		23		2.1	M
	20		20		49		20		20		20		20		2.2	M
	13		13				13		13		13		13		2.3	M
															2.4	M
49	49					49	49			49	49				3.1	K
26	26					26	26			26	26				3.2	K
49	49					49	49			49	49				3.3	K
26	26					26	26			26	26				3.4	K
33		33			114	33		33		33		33			4.1	S
16		16				16		16		16		16			4.2	S
															4.3	S
39		39			65	39		39		39		39			5.1	S
16		16			26	16		16		16		16			5.2	S
															5.3	S
39		39			82	39				39					6.1	N
98		98				98				98					6.2	N
65		65			131	65				65					6.3	N
															6.4	N
52		52		72	131	52		52		52		52		72	7.1	N
114		114		124	180	114		114		114		114		124	7.2	N
65		65		72	131	65		65		65		65		72	7.3	N
49		49			82	49		49		49		49			7.4	N
98		98				98				98		98			8.1	O
															8.2	O
															8.3	O
															9.1	H
															10.1	O

Page #
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reference

Application Material Groups (AMG)

How To Use This AMG Chart:

1. Determine your Workpiece Material. Select Material from the AMG Chart below.
 2. Use the icons to find product features.
 3. Find the Surface Feet per minute (SFM)
- example: 82, 82 = SFM



■ = Excellent for Application ● = Good for Application

(see pages 20 - 106)

Application Material Groups (AMG) With Examples							
*For more examples of application materials, please consult the Dormer Product Selector Program							
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120	82	82	82	82
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200	72	72	72	72
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<250	59	59	59	59
	1.4 Alloy steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	<250	52	52	52	52
	1.5 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>250<350	33	33	33	33
	1.6 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>350	16	16	16	16
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55HRC				
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63HRC				
2. Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<250			23	23
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<250			20	20
	2.3 Ferritic + Austenitic, Martensitic	318-329, 400-446, 15-4PH, 17-4PH, DUPLEX	<300			13	13
	2.4 Precipitation Hardened	15-5PH, Custom 450 17-4PH	<300				
3. Cast Iron	3.1 Lamellar graphite	Grey, G10, Gg40, J431C, A48 CLASS 20	<150	49	49	49	49
	3.2 Lamellar graphite	Grey, GG25-Gg40, J158, A48 CLASS 40-60	>150<300	26	26	26	26
	3.3 Nodular graphite/ Malleable Cast Iron	A220, A436, A439, A602, Black, GGG40-GGG70	<200	49	49	49	49
	3.4 Nodular graphite/ Malleable Cast Iron	Black Gts/Gtw, J434C	>200<300	26	26	26	26
4. Titanium	4.1 Titanium, unalloyed	Commercially Pure	<200	33	33		
	4.2 Titanium, alloyed	6A14V, 6A14V-2Sn, Monel, Monel K	<270	16	16		
	4.3 Titanium, alloyed	6A14V-4Mo, 7A14V-4Mo, 4911-4967	>270<350				
5. Nickel	5.1 Nickel, unalloyed	Commercially Pure, 17644, 200, 5553	<150	39	39		
	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<270	16	16		
	5.3 Nickel, alloyed	Inconel 718, Nimonic 75-95, Rene 41, Inconel 825, A286	>270<350				
6. Copper	6.1 Copper	Commercially Pure	<100	39	39		
	6.2 β-Brass, Bronze	314-340, 350-370	<200	98	98		
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200	65	65		
	6.4 High Strength Bronze	Ampco® 18-25	<470				
7. Aluminium Magnesium	7.1 Al, Mg, unalloyed	Commercially Pure	<100	52	52		
	7.2 Al alloyed, Si<0.5%	6061 T6, 7075, 314-340	<150	114	114		
	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120	65	65		
	7.4 Al alloyed, Si>10% Mg alloys	Magnesium Whisker Reinforced	<120	49	49		
8. Synthetic Materials	8.1 Thermoplastics	Ultradid, Polystrol	---	98	98		
	8.2 Thermosetting plastics	Bakelit, Pertinax	---				
	8.3 Reinforced plastic materials	CFK, GFKAFK	---				
9. Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<550				
10. Graphite	10.1 Standard graphite		---				

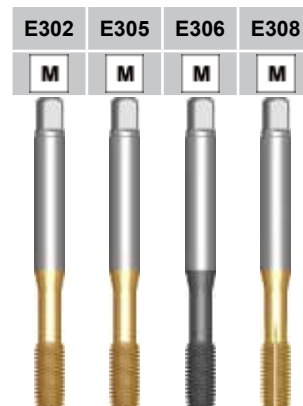
E616	EX006H	EX006G	EX016H	EX016G	E195	E245	E615	E000	E001	E002	E003	E301		
M	M	M	M	M	M	M	M	M	M	M	M	M		
DIN 371e18 329e12	DIN 371e18 329e12	DIN 371e18 329e12	DIN 371e18 329e12	DIN 371e18 329e12	DIN 371	DIN 376	DIN 371e18 329e12	ISO 629	ISO 629	ISO 629	ISO 629	DIN 2174		
6H	6H	6G	6H	6G	6H	6H	6H	6H	6H	6H	6H	6HX		
3xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	3xD	2.5xD	2.5xD	2.5xD	2.5xD	3xD		
TiAlN Top	Gold	Gold	ST	ST			TiAlN Top	Gold	ST	Gold	ST			
HSCo	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSCo	HSCo	HSCo	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSCo		
B 3.5 - 5	C 2 - 3	C 2 - 3	C 2 - 3	C 2 - 3	C 2 - 3	C 2 - 3	C 2 - 3	B 3.5 - 5	B 3.5 - 5	C 2 - 3	C 2 - 3	C 2 - 3.5		
M3 - M20	M2 - M64	M3 - M20	M2 - M64	M3 - M20	M4 - M10	M12 - M24	M3 - M20	M1.6 - M24	M1.6 - M24	M2 - M24	M2 - M24	M1 - M24		
NEW 2008.09	NEW 2010.02	NEW 2010.02	NEW 2010.02	NEW 2010.02			NEW 2008.09							
64	65	66	67	68	69	69	70	71	72	73	74	75	AMG	ISO
124	82	82	82	82	72	72	124	82	82	82	82	98	1.1	P
124	72	72	72	72	65	65	124	72	72	72	72	88	1.2	P
98	59	59	59	59	52	52	98	59	59	59	59	75	1.3	P
92	52	52	52	52	39	39	92	52	52	52	52	65	1.4	P
49	33	33	33	33	23	23	49	33	33	33	33		1.5	P
33							33	16	16				1.6	P
													1.7	H
													1.8	H
23			23	23			23		23		23		2.1	M
20			20	20			20		20		20		2.2	M
16			13	13			16		13		13		2.3	M
													2.4	M
65							65	49	49				3.1	K
52							52	26	26				3.2	K
78							78	49	49				3.3	K
52							52	26	26				3.4	K
	33	33						33		33			4.1	S
23	16	16					23	16		16			4.2	S
													4.3	S
	39	39						39		39			5.1	S
23	16	16					23	16		16			5.2	S
													5.3	S
59							59	39					6.1	N
147							147	98					6.2	N
114							114	65					6.3	N
													6.4	N
92	52	52					92	52		52		72	7.1	N
	114	114						114		114		124	7.2	N
	65	65						65		65		72	7.3	N
	49	49						49		49			7.4	N
								98					8.1	O
													8.2	O
													8.3	O
													9.1	H
													10.1	O

Page #
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reference

Application Material Groups (AMG)

How To Use This AMG Chart:

1. Determine your Workpiece Material. Select Material from the AMG Chart below.
 2. Use the icons to find product features.
 3. Find the Surface Feet per minute (SFM)
- example: 180, 180 = SFM



■ = Excellent for Application ● = Good for Application

(see pages 20 - 106)

DIN 2174	DIN 2174	DIN 2174	DIN 2174
6HX	6HX	6HX	6HX
3xD	3xD	3xD	3.5xD
TiN	TiN	CrN	TiN
HSCo	HSCo	HSCo	HSCo
C 2-3.5	E 1.5-2	C 2-3.5	C 2-3.5
M1 - M24	M3 - M10	M3 - M12	M3 - M24

Application Material Groups (AMG) With Examples					76	77	78	79
*For more examples of application materials, please consult the Dormer Product Selector Program								
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120	180	180	180	180	
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200	164	164	164	164	
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<250	147	147	147	147	
	1.4 Alloy steel	4140,4340,52100,8620 H11-H41,A2,D2,01,P20,420	<250	131	131	131	131	
	1.5 Alloy steel/ Hardened and tempered steel	4140,4340,52100,8620 H11-H41,A2,D2,01,P20,420	>250<350	65	65		65	
	1.6 Alloy steel/ Hardened and tempered steel	4140,4340,52100,8620 H11-H41,A2,D2,01,P20,420	>350					
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55HRC					
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63HRC					
2.Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<250	59	59	59	59	
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<250	49	49	49	49	
	2.3 Ferritic + Austenitic, Martensitic	318-329, 400-446, 15-4PH, 17-4PH. DUPLEX	<300	33	33		33	
	2.4 Precipitation Hardened	15-5PH, Custom 450 17-4PH	<300					
3.Cast Iron	3.1 Lamellar graphite	Grey, G10, Gg40, J431C, A48 CLASS 20	<150					
	3.2 Lamellar graphite/	Grey, GG25-Gg40, J158, A48 CLASS 40-60	>150<300					
	3.3 Nodular graphite/ Malleable Cast Iron	A220, A436, A439, A602, Black, GGG40-GGG70	<200					
	3.4 Nodular graphite/ Malleable Cast Iron	Black Gts/Gtw, J434C	>200<300					
4.Titanium	4.1 Titanium, unalloyed	Commercially Pure	<200	114	114	114	114	
	4.2 Titanium, alloyed	6A14V, 6A14V-2Sn, Monel, Monel K	<270					
	4.3 Titanium, alloyed	6A14V-4Mo, 7A14V-4Mo, 4911-4967	>270<350					
5.Nickel	5.1 Nickel, unalloyed	Commercially Pure, 17644, 200, 5553	<150	65	65	65	65	
	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<270	26	26	26	26	
	5.3 Nickel, alloyed	Inconel 718,Nimonic 75-95,Rene 41,Inconel 825,A286	>270<350					
6.Copper	6.1 Copper	Commercially Pure	<100	82	82	82	82	
	6.2 β-Brass, Bronze	314-340, 350-370	<200					
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200	131	131	131	131	
	6.4 High Strength Bronze	Ampco® 18-25	<470					
7.Aluminium Magnesium	7.1 Al, Mg, unalloyed	Commercially Pure	<100	131	131	131	131	
	7.2 Al alloyed, Si<0.5%	6061 T6, 7075, 314-340	<150	180	180	180	180	
	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120	131	131	131	131	
	7.4 Al alloyed, Si>10% Mg alloys	Magnesium Whisker Reinforced	<120	82	82	82	82	
8.Synthetic Materials	8.1 Thermoplastics	Ultradid, Polystrol	---					
	8.2 Thermosetting plastics	Bakelit, Pertinax	---					
	8.3 Reinforced plastic materials	CFK, GFKAFK	---					
9.Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<550					
10.Graphite	10.1 Standard graphite		---					

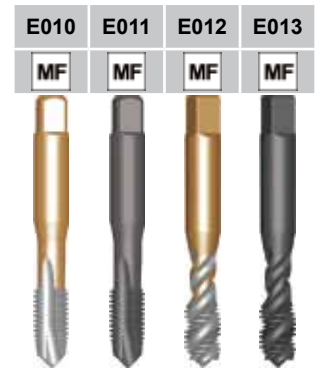
E315	E309	E310	E323	T115	T116	E090	E097	E091	E098	E096	E099	EP10	EP11	EX10	EX11		
M	M	M	EGM	M	M	M	M	M	M	M	M	MF	MF	MF	MF		
																	
DIN 2174	DIN 2174	DIN 2174	DIN 40435	DIN 2174	DIN 2174	ISO 629	ISO 629	ISO 629	ISO 629	ISO 629	ISO 629	DIN 374	DIN 374	DIN 374	DIN 374		
6HX	6GX	6GX	6H mod.	6HX	6HX	6HX	6HX	6HX	6HX	6HX	6HX	6H	6H	6H	6H		
																	
3.5xD	3xD	3xD	3xD	3xD	3xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	3xD	2.5xD	2.5xD	2.5xD	2.5xD		
TiN	TiN	TiN	TiN	TiCN	TiCN	Gold	CrN	TiN	TiN	TiN	TiN	Gold	ST	Gold	ST		
HSCo	HSCo	HSCo	HSCo	HM	HM	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1	HSS XS1		
C 2-3.5	C 2-3.5	E 1.5-2	C 2-3.5	C 2-3	C 2-3	C 2-3	C 2-3	C 2-3	E 1.5-2	C 2-3	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3		
																	
																	
M5 - M12	M3 - M12	M3 - M10	M3 - M12	M3 - M10	M5 - M12	M2 - M16	M2 - M16	M2 - M16	M3 - M10	M3 - M16	M4 - M16	M4 - M30	M4 - M30	M4 - M30	M4 - M30		
												NEW 2010.09	NEW 2010.09	NEW 2010.09	NEW 2010.09		
80	80	81	81	82	82	83	84	85	86	87	88	89	90	91	92	AMG	ISO
180	180	180	180	196	196	98	180	180	180	180	180	82	82	82	82	1.1	P
164	164	164	164	196	196	88	164	164	164	164	164	72	72	72	72	1.2	P
147	147	147	147	196	196	75	147	147	147	147	147	59	59	59	59	1.3	P
131	131	131	131	131	131	65	131	131	131	131	131	52	52	52	52	1.4	P
65	65	65	65	98	98			65	65	65	65	33	33	33	33	1.5	P
												16	16			1.6	P
																1.7	H
																1.8	H
59	59	59	59	82	82		59	59	59	59	59		23		23	2.1	M
49	49	49	49	82	82		49	49	49	49	49		20		20	2.2	M
33	33	33	33	82	82			33	33	33	33		13		13	2.3	M
				82	82											2.4	M
												49	49			3.1	K
												26	26			3.2	K
												49	49			3.3	K
												26	26			3.4	K
114	114	114	114				114	114	114	114	114	33		33		4.1	S
												16		16		4.2	S
																4.3	S
65	65	65	65	114	114		65	65	65	65	65	39		39		5.1	S
26	26	26	26	49	49		26	26	26	26	26	16		16		5.2	S
																5.3	S
82	82	82	82	131	131		82	82	82	82	82	39				6.1	N
												98				6.2	N
131	131	131	131	265	265		131	131	131	131	131	65				6.3	N
																6.4	N
131	131	131	131	229	229	72	131	131	131	131	131	52		52		7.1	N
180	180	180	180	262	262	124	180	180	180	180	180	114		114		7.2	N
131	131	131	131	262	262	72	131	131	131	131	131	65		65		7.3	N
82	82	82	82				82	82	82	82	82	49		49		7.4	N
												98				8.1	O
																8.2	O
																8.3	O
																9.1	H
																10.1	O

Application Material Groups (AMG)

How To Use This AMG Chart:

1. Determine your Workpiece Material. Select Material from the AMG Chart below.
2. Use the icons to find product features.
3. Find the Surface Feet per minute (SFM)

example: 82, 82 = SFM



■ = Excellent for Application ● = Good for Application

(see pages 20 - 106)

ISO 529	ISO 529	ISO 529	ISO 529
6H	6H	6H	6H
2.5xD	2.5xD	2.5xD	2.5xD
Gold	ST	Gold	ST
HSS XS1	HSS XS1	HSS XS1	HSS XS1
B 3.5 - 5	B 3.5 - 5	C 2 - 3	C 2 - 3
M4 - M24	M4 - M24	M4 - M22	M4 - M22

Application Material Groups (AMG) With Examples							
*For more examples of application materials, please consult the Dormer Product Selector Program							
1. Steel	1.1 Magnetic soft steel	12L14, 12L15	<120	82	82	82	82
	1.2 Structural Steel/ case carburising steel	1005-1025, 1214, 1215, A36	<200	72	72	72	72
	1.3 Plain Carbon steel	1030-1060, 1050-1060, 1144-1146	<250	59	59	59	59
	1.4 Alloy steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	<250	52	52	52	52
	1.5 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>250<350	33	33	33	33
	1.6 Alloy steel/ Hardened and tempered steel	4140, 4340, 52100, 8620 H11-H41, A2, D2, 01, P20, 420	>350	16	16		
	1.7 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	49-55HRC				
	1.8 Alloy steel Hardened	A2-D2, H10-H41, L1-L6, M1-M42, T1	55-63HRC				
2. Stainless Steel	2.1 Free machining Stainless Steel	200, 303, 416, 420F, 430F, 440	<250		23		23
	2.2 Austenitic	301, 302, 304, 316, 321, 330, CUSTOM 455, AM-350	<250		20		20
	2.3 Ferritic + Austenitic, Martensitic	318-329, 400-446, 15-4PH, 17-4PH, DUPLEX	<300		13		13
	2.4 Precipitation Hardened	15-5PH, Custom 450 17-4PH	<300				
3. Cast Iron	3.1 Lamellar graphite	Grey, G10, Gg40, J431C, A48 CLASS 20	<150	49	49		
	3.2 Lamellar graphite	Grey, GG25-Gg40, J158, A48 CLASS 40-60	>150<300	26	26		
	3.3 Nodular graphite/ Malleable Cast Iron	A220, A436, A439, A602, Black, GGG40-GGG70	<200	49	49		
	3.4 Nodular graphite/ Malleable Cast Iron	Black Gts/Gtw, J434C	>200<300	26	26		
4. Titanium	4.1 Titanium, unalloyed	Commercially Pure	<200	33		33	
	4.2 Titanium, alloyed	6A14V, 6A14V-2Sn, Monel, Monel K	<270	16		16	
	4.3 Titanium, alloyed	6A14V-4Mo, 7A14V-4Mo, 4911-4967	>270<350				
5. Nickel	5.1 Nickel, unalloyed	Commercially Pure, 17644, 200, 5553	<150	39		39	
	5.2 Nickel, alloyed	Monel 400, Hastelloy C, Inconel 625, Waspaloy	<270	16		16	
	5.3 Nickel, alloyed	Inconel 718, Nimonic 75-95, Rene 41, Inconel 825, A286	>270<350				
6. Copper	6.1 Copper	Commercially Pure	<100	39			
	6.2 β-Brass, Bronze	314-340, 350-370	<200	98			
	6.3 α-Brass	Alloyed Cu + Al + Fe, Long Chipping	<200	65			
	6.4 High Strength Bronze	Ampco® 18-25	<470				
7. Aluminium Magnesium	7.1 Al, Mg, unalloyed	Commercially Pure	<100	52		52	
	7.2 Al alloyed, Si<0.5%	6061 T6, 7075, 314-340	<150	114		114	
	7.3 Al alloyed, Si>0.5%<10%	6061 T6, 380-390	<120	65		65	
	7.4 Al alloyed, Si>10% Mg alloys	Magnesium Whisker Reinforced	<120	49		49	
8. Synthetic Materials	8.1 Thermoplastics	Ultramid, Polystrol	---	98		98	
	8.2 Thermosetting plastics	Bakelite, Pertinax	---				
	8.3 Reinforced plastic materials	CFK, GFKAFK	---				
9. Hard Mat.	9.1 Cermets (Metal-ceramics)	Ferrotic	<550				
10. Graphite	10.1 Standard graphite		---				

E317	E564	EP40	EP41	EX40	EX41	E040	E041	E042	E043		
MF	MF	G	G	G	G	G	G	G	G		
											
DIN 2174	ISO 629	DIN 5156	DIN 5156	DIN 5156	DIN 5156	ISO	ISO	ISO	ISO		
6HX	6HX	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL		
											
3xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD	2.5xD		
											
TiN	TiN	Gold	ST	Gold	ST	Gold	ST	Gold	ST		
											
HSCo	HSCo	HSCo	HSCo	HSCo	HSCo	HSS XS1	HSS XS1	HSS XS1	HSS XS1		
											
C 2-3.5	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3	B 3.5-5	B 3.5-5	C 2-3	C 2-3		
											
											
M5 - M10	M4 - M16	1/8 - 1"	1/8 - 1"	1/8 - 1.1/2	1/8 - 1.1/2	1/8 - 3/4	1/8 - 3/4	1/8 - 3/4	1/8 - 3/4		
		NEW 2010.09	NEW 2010.09	NEW 2010.09	NEW 2010.09						
97	98	99	100	101	102	103	104	105	106	AMG	ISO
180	180	82	82	82	82	82	82	82	82	1.1	P
164	164	72	72	72	72	72	72	72	72	1.2	P
147	147	59	59	59	59	59	59	59	59	1.3	P
131	131	52	52	52	52	52	52	52	52	1.4	P
65	65	33	33	33	33	33	33	33	33	1.5	P
		16	16		16	16	16		16	1.6	P
										1.7	H
										1.8	H
59	59		23		23		23		23	2.1	M
49	49		20		20		20		20	2.2	M
33	33		13		13		13		13	2.3	M
										2.4	M
		49	49			49	49			3.1	K
		26	26			26	26			3.2	K
		49	49			49	49			3.3	K
		26	26			26	26			3.4	K
114	114	33		33		33		33		4.1	S
		16		16		16		16		4.2	S
										4.3	S
65	65	39		39		39		39		5.1	S
26	26	16		16		16		16		5.2	S
										5.3	S
82	82	39				39				6.1	N
		98				98				6.2	N
131	131	65				65				6.3	N
										6.4	N
131	131	52		52		52		52		7.1	N
180	180	114		114		114		114		7.2	N
131	131	65		65		65		65		7.3	N
82	82	49		49		49		49		7.4	N
		98		98		98		98		8.1	O
										8.2	O
										8.3	O
										9.1	H
										10.1	O

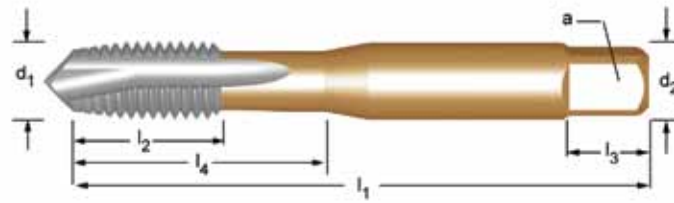
Page #
for easy
reference

E025

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E025



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

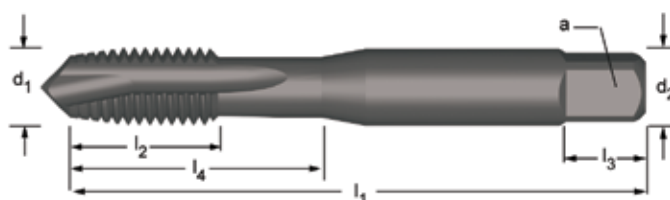
UNC	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
6	32	2"	0.2610	0.1410	0.1100	2	H2	N36	2.85	0.5938	0581070	E0256-32
8	32	2.1/8	0.2484	0.1680	0.1310	2	H2	N29	3.50	0.6526	0581087	E0258-32
10	24	2.3/8	0.4303	0.1940	0.1520	2	H3	N25	3.90	0.8434	0581094	E02510-24
12	24	2.3/8	0.4173	0.2200	0.1650	2	H3	N16	4.50	0.8848	0581100	E02512-24
1/4	20	2.1/2	0.5075	0.2550	0.1910	2	H3	N7	5.10	1.0073	0581117	E0251/4
1/4	20	2.1/2	0.5075	0.2550	0.1910	3	H3	N7	5.10	1.0073	0581124	E0251/43FL
5/16	18	2.23/32	0.5939	0.3180	0.2380	2	H3	F	6.60	1.1891	0581131	E0255/16
5/16	18	2.23/32	0.5939	0.3180	0.2380	3	H3	F	6.60	1.1891	0581148	E0255/163FL
3/8	16	2.15/16	0.6020	0.3810	0.2860	2	H3	5/16	8.00	1.2915	0581155	E0253/8
3/8	16	2.15/16	0.6020	0.3810	0.2860	3	H3	5/16	8.00	1.2915	0581162	E0253/83FL
7/16	14	3.5/32	0.9055	0.3230	0.2420	3	H3	U	9.40		0581179	E0257/16
1/2	13	3.3/8	0.9055	0.3670	0.2750	2	H3	27/64	10.80		0581186	E0251/2
1/2	13	3.3/8	0.9055	0.3670	0.2750	3	H3	27/64	10.80		0581193	E0251/23FL
9/16	12	3.19/32	0.9843	0.4290	0.3220	3	H3	31/64	12.20		0581209	E0259/16
5/8	11	3.13/16	0.9843	0.4800	0.3600	3	H3	17/32	13.50		0581216	E0255/8
3/4	10	4.1/4	1.1614	0.5900	0.4420	3	H4	21/32	16.50		0581223	E0253/4
7/8	9	4.11/16	1.1614	0.6970	0.5230	3	H4	49/64	19.50		0581230	E0257/8
1"	8	5.1/8	1.3976	0.8000	0.6000	3	H4	7/8	22.25		0581247	E0251

E026

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

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ANSI

E026



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

UNC	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
2	56	1.3/4	0.3140	0.1410	0.1100	2	H2	N50	1.80	0.3140	0583203	E0262-56
4	40	1.7/8	0.6091	0.1410	0.1100	2	H2	N43	2.35	0.6091	0581254	E0264-40
5	40	1.15/16	0.7404	0.1410	0.1100	2	H2	N38	2.65	0.7404	0581261	E0265-40
6	32	2"	0.2610	0.1410	0.1100	2	H2	N36	2.85	0.5938	0581278	E0266-32
8	32	2.1/8	0.2484	0.1680	0.1310	2	H2	N29	3.50	0.6526	0581285	E0268-32
10	24	2.3/8	0.4303	0.1940	0.1520	2	H3	N25	3.90	0.8434	0581292	E02610-24
12	24	2.3/8	0.4173	0.2200	0.1650	2	H3	N16	4.50	0.8848	0581308	E02612-24
1/4	20	2.1/2	0.5075	0.2550	0.1910	2	H3	N7	5.10	1.0073	0581315	E0261/4
1/4	20	2.1/2	0.5075	0.2550	0.1910	3	H3	N7	5.10	1.0073	0581339	E0261/43FL
1/4	20	2.1/2	0.5075	0.2550	0.1910	3	H11	N7	5.10	1.0073	0581322	E0261/4H11 ¹⁾
5/16	18	2.23/32	0.5939	0.3180	0.2380	2	H3	F	6.60	1.1891	0581346	E0265/16
5/16	18	2.23/32	0.5939	0.3180	0.2380	3	H3	F	6.60	1.1891	0581360	E0265/163FL
5/16	18	2.23/32	0.5939	0.3180	0.2380	3	H11	F	6.60	1.1891	0581353	E0265/16H11 ¹⁾
3/8	16	2.15/16	0.6020	0.3810	0.2860	2	H3	5/16	8.00	1.2915	0581377	E0263/8
3/8	16	2.15/16	0.6020	0.3810	0.2860	3	H3	5/16	8.00	1.2915	0581391	E0263/83FL
3/8	16	2.15/16	0.6020	0.3810	0.2860	3	H11	5/16	8.00	1.2915	0581384	E0263/8H11 ¹⁾
7/16	14	3.5/32	0.9055	0.3230	0.2420	3	H3	U	9.40		0581407	E0267/16
1/2	13	3.3/8	0.9055	0.3670	0.2750	2	H3	27/64	10.80		0581414	E0261/2
1/2	13	3.3/8	0.9055	0.3670	0.2750	3	H3	27/64	10.80		0581438	E0261/23FL
1/2	13	3.3/8	0.9055	0.3670	0.2750	3	H11	27/64	10.80		0581421	E0261/2H11 ¹⁾
9/16	12	3.19/32	0.9843	0.4290	0.3220	3	H3	31/64	12.20		0581445	E0269/16
5/8	11	3.13/16	0.9843	0.4800	0.3600	3	H3	17/32	13.50		0581469	E0265/8
5/8	11	3.13/16	0.9843	0.4800	0.3600	3	H11	17/32	13.50		0581452	E0265/8H11 ¹⁾
3/4	10	4.1/4	1.1614	0.5900	0.4420	3	H4	21/32	16.50		0581476	E0263/4
7/8	9	4.11/16	1.1614	0.6970	0.5230	3	H4	49/64	19.50		0581483	E0267/8
1"	8	5.1/8	1.3976	0.8000	0.6000	3	H4	7/8	22.25		0581490	E0261

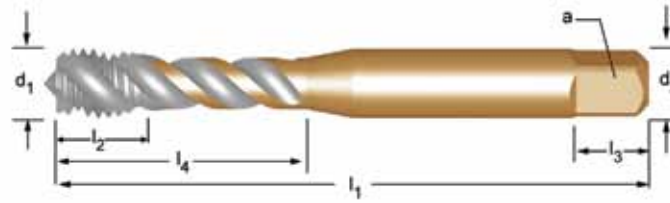
¹⁾ Oversize +.005", not 3B

E027

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• Spectrum™ Machos de máquina



E027



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2	6.2	8.1					

UNC	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits	l_3 mm	l_4 mm	EDP # or Stock No.	e-Code
6	32	2"	0.2610	0.1410	0.1100	3	H2	N36	2.85	0.5938	0581506 E0276-32
8	32	2.1/8	0.2484	0.1680	0.1310	3	H2	N29	3.50	0.6526	0581513 E0278-32
10	24	2.3/8	0.2650	0.1940	0.1520	3	H3	N25	3.90	0.8434	0581520 E02710-24
12	24	2.3/8	0.2520	0.2200	0.1650	3	H3	N16	4.50	0.8848	0581537 E02712-24
1/4	20	2.1/2	0.3937	0.2550	0.1910	3	H3	N7	5.10	1.0993	0581544 E0271/4
5/16	18	2.23/32	0.4567	0.3180	0.2380	3	H3	F	6.60	1.3094	0581551 E0275/16
3/8	16	2.15/16	0.5315	0.3810	0.2860	3	H3	5/16	8.00	1.4415	0581568 E0273/8
7/16	14	3.5/32	0.6299	0.3230	0.2420	3	H3	U	9.40		0581575 E0277/16
1/2	13	3.3/8	0.6890	0.3670	0.2750	3	H3	27/64	10.80		0581582 E0271/2
9/16	12	3.19/32	0.7087	0.4290	0.3220	3	H3	31/64	12.20		0581599 E0279/16
5/8	11	3.13/16	0.7087	0.4800	0.3600	3	H3	17/32	13.50		0581605 E0275/8
3/4	10	4.1/4	0.8858	0.5900	0.4420	3	H4	21/32	16.50		0581612 E0273/4
7/8	9	4.11/16	0.9843	0.6970	0.5230	3	H4	49/64	19.50		0581629 E0277/8
1"	8	5.1/8	1.1811	0.8000	0.6000	3	H4	7/8	22.25		0581636 E0271

E028

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ANSI

E028

UNC

HSS
XS1

ST

ANSI



3B

2.5xD

C
2 - 3



■ 1.1 1.2 1.3 1.4 1.5 2.1 2.2
● 2.3

UNC	TPI	l_1 Inch	l_2 Inch	d_2 Inch / Ø	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
4	40	1.7/8	0.6091	0.1410	0.1100	3	H2	N43	2.35	0.6091	0581643	E0284-40
5	40	1.15/16	0.7404	0.1410	0.1100	3	H2	N38	2.65	0.7404	0581650	E0285-40
6	32	2"	0.2610	0.1410	0.1100	3	H2	N36	2.85	0.5938	0581667	E0286-32
8	32	2.1/8	0.2484	0.1680	0.1310	3	H2	N29	3.50	0.6526	0581674	E0288-32
10	24	2.3/8	0.2650	0.1940	0.1520	3	H3	N25	3.90	0.8434	0581681	E02810-24
12	24	2.3/8	0.2520	0.2200	0.1650	3	H3	N16	4.50	0.8848	0581698	E02812-24
1/4	20	2.1/2	0.3937	0.2550	0.1910	3	H3	N7	5.10	1.0993	0581704	E0281/4
5/16	18	2.23/32	0.4567	0.3180	0.2380	3	H3	F	6.60	1.3094	0581711	E0285/16
3/8	16	2.15/16	0.5315	0.3810	0.2860	3	H3	5/16	8.00	1.4415	0581728	E0283/8
3/8	16	2.15/16	0.5315	0.3810	0.2860	3	H5	5/16	8.00	1.4415	0581735	E0283/8H5 ¹⁾
7/16	14	3.5/32	0.6299	0.3230	0.2420	3	H3	U	9.40		0581742	E0287/16
1/2	13	3.3/8	0.6890	0.3670	0.2750	3	H3	27/64	10.80		0581759	E0281/2
9/16	12	3.19/32	0.7087	0.4290	0.3220	3	H3	31/64	12.20		0581766	E0289/16
5/8	11	3.13/16	0.7087	0.4800	0.3600	3	H3	17/32	13.50		0581773	E0285/8
3/4	10	4.1/4	0.8858	0.5900	0.4420	3	H4	21/32	16.50		0581780	E0283/4
7/8	9	4.11/16	0.9843	0.6970	0.5230	3	H4	49/64	19.50		0581797	E0287/8
1"	8	5.1/8	1.1811	0.8000	0.6000	3	H4	7/8	22.25		0581803	E0281

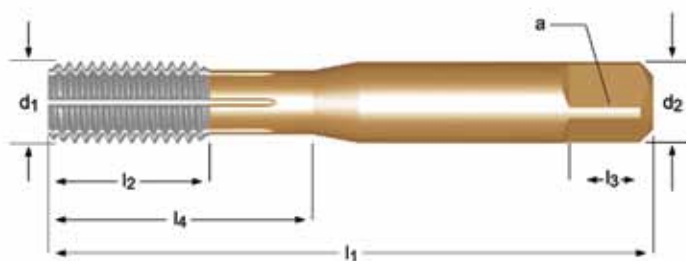
¹⁾ Class of fit: 2B

E064

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E064

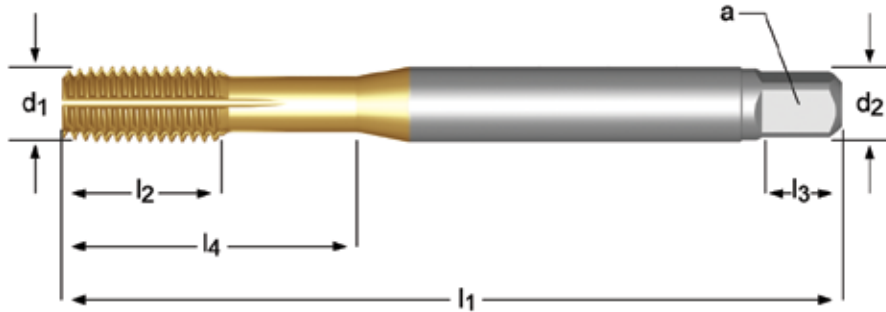


• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

UNC	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z			l_4	EDP # or Stock No.	e-Code
4	40	1.7/8	0.6091	0.1410	0.1100	3	N39	2.60	0.6091	0582633	E0644-40
6	32	2"	0.2610	0.1410	0.1100	3	1/8	3.20	0.5938	0582640	E0646-32
8	32	2.1/8	0.2484	0.1680	0.1310	3	N25	3.80	0.6526	0582657	E0648-32
10	24	2.3/8	0.4303	0.1940	0.1520	4	11/64	4.40	0.8434	0582664	E06410-24
12	24	2.3/8	0.4173	0.2200	0.1650	4	N9	5.00	0.8848	0582671	E06412-24
1/4	20	2.1/2	0.5075	0.2550	0.1910	4		5.80	1.0073	0582688	E0641/4
5/16	18	2.23/32	0.5939	0.3180	0.2380	5		7.30	1.1891	0582695	E0645/16
3/8	16	2.15/16	0.6020	0.3810	0.2860	6	11/32	8.80	1.2915	0582701	E0643/8

E892

- Machine Tap Spectrum™, oil grooves
- Spectrum™ Tarauds machine
- Spectrum™ Machos de máquina, con ranuras de lubricación



E892



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.1	7.2	7.3
●	1.5	2.3	5.2	6.1	6.3	7.4					

UNC	TPI	l_1 mm	l_2 Inch	d_2 Ø Inch /	a Inch	z	$\leftrightarrow$	$\leftrightarrow$	l_4	EDP # or Stock No.	e-Code
4	40	56	0.4330	0.1410	0.1100	3	N39	2.60	0.6091	0631652	E8924-40
6	32	56	0.5100	0.1410	0.1100	3	1/8	3.20	0.5938	0631669	E8926-32
8	32	63	0.6500	0.1680	0.1310	4	N25	3.80	0.6526	0631676	E8928-32
10	24	70	0.7600	0.1940	0.1520	4	11/64	4.40	0.8434	0631683	E89210-24
1/4	20	80	0.5910	0.2550	0.1910	4		5.80	1.0073	0631690	E8921/4
5/16	18	90	0.7090	0.3180	0.2380	5		7.30	1.1891	0631706	E8925/16
3/8	16	100	0.7870	0.3810	0.2860	6	11/32	8.80	1.2915	0631713	E8923/8
7/16	14	100	0.7870	0.3230	0.2420	6	Y	10.30		0631720	E8927/16
1/2	13	110	0.9060	0.3670	0.2750	6	15/32	11.90		0631737	E8921/2
5/8	11	110	0.9060	0.4800	0.3600	8	37/64	14.80		0631744	E8925/8
3/4	10	125	1.1810	0.5900	0.4420	8	45/64	17.90		0631751	E8923/4
1"	8	160	1.4961	0.7087	0.5709	8	61/64	24.00		0639740	E8921

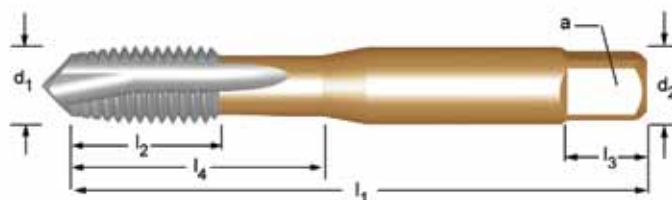
DIN/ANSI

E035

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E035



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

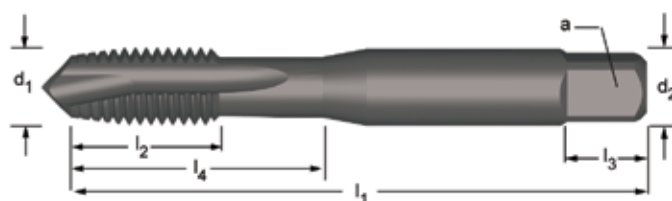
UNF	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
6	40	2"	0.2610	0.1410	0.1100	2	H2	N33	2.95	0.5938	0581957	E0356-40
8	36	2.1/8	0.2484	0.1680	0.1310	2	H2	N29	3.50	0.6526	0581964	E0358-36
10	32	2.3/8	0.4303	0.1940	0.1520	2	H2	N21	4.10	0.8434	0581971	E03510-32
12	28	2.3/8	0.4173	0.2200	0.1650	2	H3	N14	4.70	0.8848	0581988	E03512-28
1/4	28	2.1/2	0.5075	0.2550	0.1910	2	H3	N3	5.50	1.0073	0581995	E0351/4
1/4	28	2.1/2	0.5075	0.2550	0.1910	3	H3	N3	5.50	1.0073	0582008	E0351/43FL
5/16	24	2.23/32	0.5939	0.3180	0.2380	2	H3	I	6.90	1.1891	0582015	E0355/16
5/16	24	2.23/32	0.5939	0.3180	0.2380	3	H3	I	6.90	1.1891	0582022	E0355/163FL
3/8	24	2.15/16	0.6020	0.3810	0.2860	2	H3	Q	8.50	1.2915	0582039	E0353/8
3/8	24	2.15/16	0.6020	0.3810	0.2860	3	H3	Q	8.50	1.2915	0582046	E0353/83FL
7/16	20	3.5/32	0.9055	0.3230	0.2420	3	H3	25/64	9.90		0582053	E0357/163FL
1/2	20	3.3/8	0.9055	0.3670	0.2750	2	H3	29/64	11.50		0582060	E0351/2
1/2	20	3.3/8	0.9055	0.3670	0.2750	3	H3	29/64	11.50		0582077	E0351/23FL
9/16	18	3.19/32	0.9843	0.4290	0.3220	3	H3	33/64	12.90		0582084	E0359/16
5/8	18	3.13/16	0.9843	0.4800	0.3600	3	H3	37/64	14.50		0582091	E0355/8
3/4	16	4.1/4	1.1614	0.5900	0.4420	3	H3	11/16	17.50		0582107	E0353/4
7/8	14	4.11/16	1.1614	0.6970	0.5230	3	H4	13/16	20.40		0582114	E0357/8
1"	12	5.1/8	1.3976	0.8000	0.6000	3	H4	59/64	23.25		0582121	E0351-12
1"	14	5.1/8	1.3976	0.8000	0.6000	3	H4	59/64	23.50		0582138	E0351-14

E036

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



ANSI

E036



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

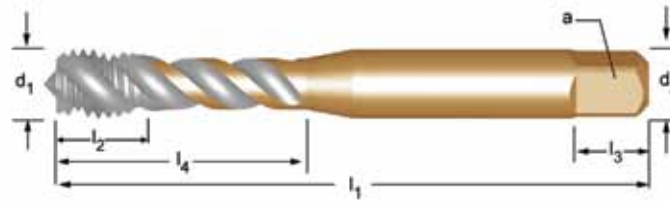
UNF	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
10	32	2.3/8	0.4303	0.1940	0.1520	2	H2	N21	4.10	0.8434	0582145	E03610-32
12	28	2.3/8	0.4173	0.2200	0.1650	2	H3	N14	4.70	0.8848	0582152	E03612-28
1/4	28	2.1/2	0.5075	0.2550	0.1910	2	H3	N3	5.50	1.0073	0582169	E0361/4
1/4	28	2.1/2	0.5075	0.2550	0.1910	3	H3	N3	5.50	1.0073	0582176	E0361/43FL
5/16	24	2.23/32	0.5939	0.3180	0.2380	2	H3	I	6.90	1.1891	0582183	E0365/16
5/16	24	2.23/32	0.5939	0.3180	0.2380	3	H3	I	6.90	1.1891	0582190	E0365/163FL
3/8	24	2.15/16	0.6020	0.3810	0.2860	2	H3	Q	8.50	1.2915	0582206	E0363/8
3/8	24	2.15/16	0.6020	0.3810	0.2860	3	H3	Q	8.50	1.2915	0582213	E0363/83FL
7/16	20	3.5/32	0.9055	0.3230	0.2420	3	H3	25/64	9.90		0582220	E0367/163FL
1/2	20	3.3/8	0.9055	0.3670	0.2750	2	H3	29/64	11.50		0582237	E0361/2
1/2	20	3.3/8	0.9055	0.3670	0.2750	3	H3	29/64	11.50		0582244	E0361/23FL
9/16	18	3.19/32	0.9843	0.4290	0.3220	3	H3	33/64	12.90		0582251	E0369/16
5/8	18	3.13/16	0.9843	0.4800	0.3600	3	H3	37/64	14.50		0582268	E0365/8
3/4	16	4.1/4	1.1614	0.5900	0.4420	3	H3	11/16	17.50		0582275	E0363/4
7/8	14	4.11/16	1.1614	0.6970	0.5230	3	H4	13/16	20.40		0582282	E0367/8
1"	12	5.1/8	1.3976	0.8000	0.6000	3	H4	59/64	23.25		0582299	E0361-12
1"	14	5.1/8	1.3976	0.8000	0.6000	3	H4	59/64	23.50		0582305	E0361-14

E037

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E037



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	1.6	4.1	4.2	5.1	5.2	8.1			

UNF	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
10	32	2.3/8	0.2650	0.1940	0.1520	3	H2	N21	4.10	0.8434	0582312	E03710-32
1/4	28	2.1/2	0.3937	0.2550	0.1910	3	H3	N3	5.50	1.0993	0582329	E03711/4
5/16	24	2.23/32	0.4567	0.3180	0.2380	3	H3	I	6.90	1.3094	0582336	E0375/16
3/8	24	2.15/16	0.5315	0.3810	0.2860	3	H3	Q	8.50	1.4415	0582343	E0373/8
7/16	20	3.5/32	0.6299	0.3230	0.2420	3	H3	25/64	9.90		0582350	E0377/16
1/2	20	3.3/8	0.6890	0.3670	0.2750	3	H3	29/64	11.50		0582367	E03711/2
9/16	18	3.19/32	0.7087	0.4290	0.3220	3	H3	33/64	12.90		0582374	E0379/16
5/8	18	3.13/16	0.7087	0.4800	0.3600	3	H3	37/64	14.50		0582381	E0375/8
3/4	16	4.1/4	0.8858	0.5900	0.4420	3	H3	11/16	17.50		0582398	E0373/4
7/8	14	4.11/16	0.9843	0.6970	0.5230	3	H4	13/16	20.40		0582404	E0377/8
1"	12	5.1/8	1.1811	0.8000	0.6000	3	H4	59/64	23.25		0582411	E0371-12
1"	14	5.1/8	1.1811	0.8000	0.6000	3	H4	59/64	23.50		0582428	E0371-14

E038

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



ANSI

E038



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3					

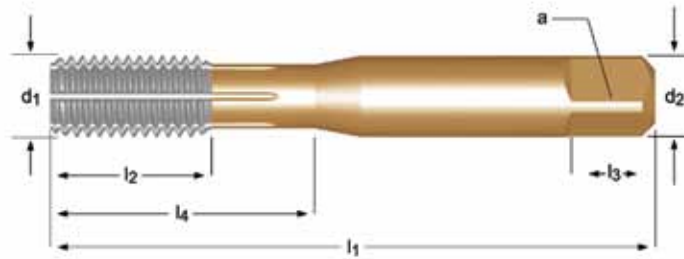
UNF	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	Limits			l_4 mm	EDP # or Stock No.	e-Code
10	32	2.3/8	0.2650	0.1940	0.1520	3	H2	N21	4.10	0.8434	0582435	E03810-32
1/4	28	2.1/2	0.3937	0.2550	0.1910	3	H3	N3	5.50	1.0993	0582442	E0381/4
5/16	24	2.23/32	0.4567	0.3180	0.2380	3	H3	I	6.90	1.3094	0582459	E0385/16
3/8	24	2.15/16	0.5315	0.3810	0.2860	3	H3	Q	8.50	1.4415	0582466	E0383/8
7/16	20	3.5/32	0.6299	0.3230	0.2420	3	H3	25/64	9.90		0582473	E0387/16
1/2	20	3.3/8	0.6890	0.3670	0.2750	3	H3	29/64	11.50		0582480	E0381/2
9/16	18	3.19/32	0.7087	0.4290	0.3220	3	H3	33/64	12.90		0582497	E0389/16
5/8	18	3.13/16	0.7087	0.4800	0.3600	3	H3	37/64	14.50		0582503	E0385/8
3/4	16	4.1/4	0.8858	0.5900	0.4420	3	H3	11/16	17.50		0582510	E0383/4
7/8	14	4.11/16	0.9843	0.6970	0.5230	3	H4	13/16	20.40		0582527	E0387/8
1"	12	5.1/8	1.1811	0.8000	0.6000	3	H4	59/64	23.25		0582534	E0381-12
1"	14	5.1/8	1.1811	0.8000	0.6000	3	H4	59/64	23.50		0582541	E0381-14

E074

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E074



• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

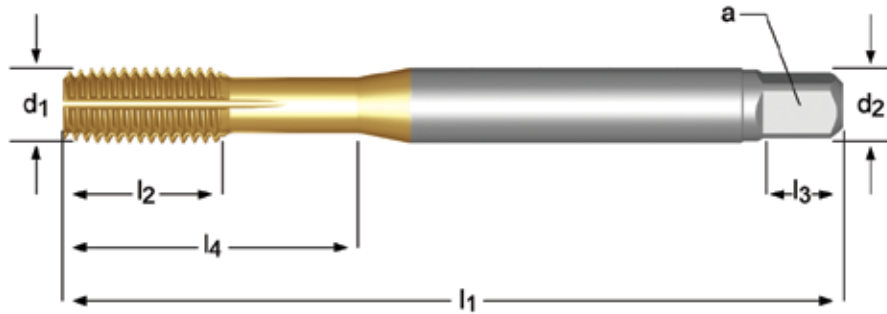
UNF	TPI	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z			l_4	EDP # or Stock No.	e-Code
10	32	2.3/8	0.4303	0.1940	0.1520	4	N16	4.50	0.8434	0582879	E07410-32
1/4	28	2.1/2	0.5075	0.2550	0.1910	4	A	6.00	1.0073	0582886	E0741/4
5/16	24	2.23/32	0.5939	0.3180	0.2380	5	M	7.50	1.1891	0582893	E0745/16
3/8	24	2.15/16	0.6020	0.3810	0.2860	6	T	9.10	1.2915	0582909	E0743/8

E893

• Machine Tap Spectrum™, oil grooves

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina, con ranuras de lubricación



spectrum™

E893



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.1	7.2	7.3
●	1.5	2.3	5.2	6.1	6.3	7.4					

UNF	TPI	l_1 mm	l_2 Inch	d_2 Ø Inch /	a Inch	z	$\leftrightarrow$	$\leftrightarrow$	l_4	EDP # or Stock No.	e-Code
10	32	70	0.7600	0.1940	0.1520	4	4.50	N16	0.8434	0631768	E89310-32
1/4	28	80	0.5910	0.2550	0.1910	4	6.00	A	1.0073	0631775	E8931/4
5/16	24	90	0.7090	0.3180	0.2380	5	7.50	M	1.1891	0631782	E8935/16
3/8	24	100	0.7870	0.3810	0.2860	6	9.10	T	1.2915	0631799	E8933/8
7/16	20	100	0.7870	0.3230	0.2420	6	10.60	Z		0631805	E8937/16
1/2	20	110	0.9060	0.3670	0.2750	6	12.10			0631812	E8931/2
5/8	16	110	0.9060	0.4800	0.3600	8	15.30	39/64		0631829	E8935/8
3/4	16	125	1.1810	0.5900	0.4420	8	18.30	23/32		0631836	E8933/4

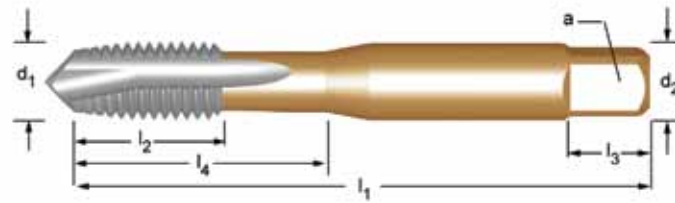
DIN/ANSI

E005

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E005



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

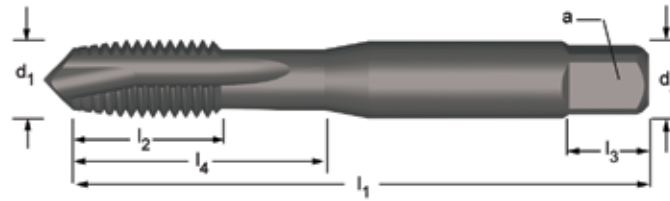
M	P mm	l ₁ Inch	l ₂ Inch	d ₂ Ø Inch /	a Inch	z	↔	l ₄ ↔		EDP # or Stock No.	e-Code
4	0.70	2.1/8	0.2484	0.1680	0.1310	2	3.30	0.6526	N30	0580301	E005M4
4	0.70	2.1/8	0.2484	0.1680	0.1310	3	3.30	0.6526	N30	0580318	E005M43FL
5	0.80	2.3/8	0.4303	0.1940	0.1520	2	4.20	0.8434	N19	0580325	E005M5
5	0.80	2.3/8	0.4303	0.1940	0.1520	3	4.20	0.8434	N19	0580332	E005M53FL
6	1.00	2.1/2	0.5075	0.2550	0.1910	2	5.00	1.0073	N9	0580349	E005M6
6	1.00	2.1/2	0.5075	0.2550	0.1910	3	5.00	1.0073	N9	0580356	E005M63FL
8	1.25	2.23/32	0.5939	0.3180	0.2380	2	6.80	1.1891	H	0580363	E005M8
8	1.25	2.23/32	0.5939	0.3180	0.2380	3	6.80	1.1891	H	0580370	E005M83FL
10	1.50	2.15/16	0.6020	0.3810	0.2860	2	8.50	1.2915	Q	0580387	E005M10
10	1.50	2.15/16	0.6020	0.3810	0.2860	3	8.50	1.2915	Q	0580394	E005M103FL
12	1.75	3.3/8	0.9055	0.3670	0.2750	2	10.30		Y	0580400	E005M12
12	1.75	3.3/8	0.9055	0.3670	0.2750	3	10.30		Y	0580417	E005M123FL
14	2.00	3.19/32	0.9843	0.4290	0.3220	3	12.00		15/32	0580424	E005M14
16	2.00	3.13/16	0.9843	0.4800	0.3600	3	14.00		35/64	0580431	E005M16
18	2.50	4.1/32	1.1614	0.5420	0.4060	3	15.50		39/64	0580448	E005M18
20	2.50	4.15/32	1.1614	0.6520	0.4890	3	17.50		11/16	0580455	E005M20

E006

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



ANSI

E006



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

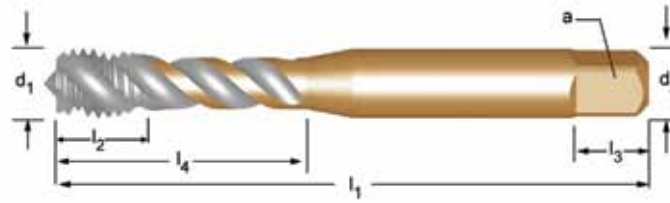
		I_1	I_2	d_2 Ø	 a		 I_4		EDP # or		
M	P mm	Inch	Inch	Inch /	Inch	z			Stock No.	e-Code	
4	0.70	2.1/8	0.2484	0.1680	0.1310	2	3.30	0.6526	N30	0580462	E006M4
4	0.70	2.1/8	0.2484	0.1680	0.1310	3	3.30	0.6526	N30	0583180	E006M43FL
5	0.80	2.3/8	0.4303	0.1940	0.1520	2	4.20	0.8434	N19	0580479	E006M5
5	0.80	2.3/8	0.4303	0.1940	0.1520	3	4.20	0.8434	N19	0580486	E006M53FL
6	1.00	2.1/2	0.5075	0.2550	0.1910	2	5.00	1.0073	N9	0580493	E006M6
6	1.00	2.1/2	0.5075	0.2550	0.1910	3	5.00	1.0073	N9	0580509	E006M63FL
8	1.25	2.23/32	0.5939	0.3180	0.2380	2	6.80	1.1891	H	0580516	E006M8
8	1.25	2.23/32	0.5939	0.3180	0.2380	3	6.80	1.1891	H	0583197	E006M83FL
10	1.50	2.15/16	0.6020	0.3810	0.2860	2	8.50	1.2915	Q	0580523	E006M10
10	1.50	2.15/16	0.6020	0.3810	0.2860	3	8.50	1.2915	Q	0580530	E006M103FL
12	1.75	3.3/8	0.9055	0.3670	0.2750	2	10.30		Y	0580547	E006M12
12	1.75	3.3/8	0.9055	0.3670	0.2750	3	10.30		Y	0580554	E006M123FL
14	2.00	3.19/32	0.9843	0.4290	0.3220	3	12.00		15/32	0580561	E006M14
16	2.00	3.13/16	0.9843	0.4800	0.3600	3	14.00		35/64	0580578	E006M16
18	2.50	4.1/32	1.1614	0.5420	0.4060	3	15.50		39/64	0580585	E006M18
20	2.50	4.15/32	1.1614	0.6520	0.4890	3	17.50		11/16	0580592	E006M20

E007

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E007



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

M	P mm	l ₁ Inch	l ₂ Inch	d ₂ Ø Inch /	a Inch	z	l ₄	EDP # or Stock No.	e-Code
4	0.70	2.1/8	0.2484	0.1680	0.1310	3	3.30	0580608	E007M4
5	0.80	2.3/8	0.2650	0.1940	0.1520	3	4.20	0580615	E007M5
6	1.00	2.1/2	0.3937	0.2550	0.1910	3	5.00	0580622	E007M6
8	1.25	2.23/32	0.4567	0.3180	0.2380	3	6.80	0580639	E007M8
10	1.50	2.15/16	0.5315	0.3810	0.2860	3	8.50	0580646	E007M10
12	1.75	3.3/8	0.6890	0.3670	0.2750	3	10.30	0580653	E007M12
14	2.00	3.19/32	0.7087	0.4290	0.3220	3	12.00	0580660	E007M14
16	2.00	3.13/16	0.7087	0.4800	0.3600	3	14.00	0580677	E007M16
18	2.50	4.1/32	0.8858	0.5420	0.4060	3	15.50	0580684	E007M18
20	2.50	4.15/32	0.8858	0.6520	0.4890	3	17.50	0580691	E007M20

E008

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



ANSI

E008



- 1.1 1.2 1.3 1.4 1.5 2.1 2.2
- 2.3

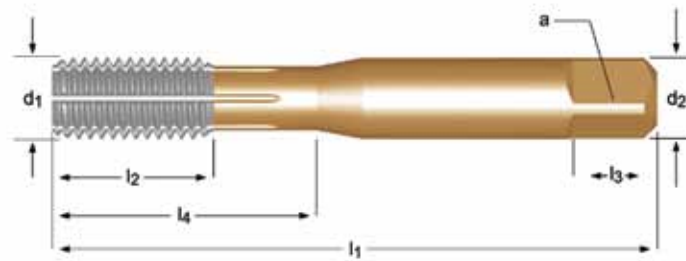
M	P mm	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z	l_4	EDP # or Stock No.	e-Code
4	0.70	2.1/8	0.2484	0.1680	0.1310	3	3.30	0580707	E008M4
5	0.80	2.3/8	0.2650	0.1940	0.1520	3	4.20	0580714	E008M5
6	1.00	2.1/2	0.3937	0.2550	0.1910	3	5.00	0580721	E008M6
8	1.25	2.23/32	0.4567	0.3180	0.2380	3	6.80	0580738	E008M8
10	1.50	2.15/16	0.5315	0.3810	0.2860	3	8.50	0580745	E008M10
12	1.75	3.3/8	0.6890	0.3670	0.2750	3	10.30	0580752	E008M12
14	2.00	3.19/32	0.7087	0.4290	0.3220	3	12.00	0580769	E008M14
16	2.00	3.13/16	0.7087	0.4800	0.3600	3	14.00	0580776	E008M16
18	2.50	4.1/32	0.8858	0.5420	0.4060	3	15.50	0580783	E008M18
20	2.50	4.15/32	0.8858	0.6520	0.4890	3	17.50	0580790	E008M20

E094

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E094

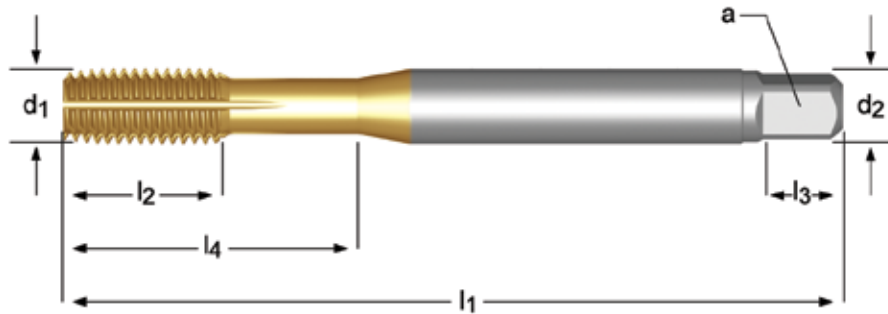


• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

M	P mm	l_1 Inch	l_2 Inch	d_2 Ø Inch /	a Inch	z			l_4	EDP # or Stock No.	e-Code
3	0.50	2"	0.7404	0.1410	0.1100	3	N35	2.80	0.7404	0583128	E094M3
4	0.70	2.1/8	0.2484	0.1680	0.1310	4		3.70	0.6526	0583135	E094M4
5	0.80	2.3/8	0.4303	0.1940	0.1520	4	N14	4.60	0.8434	0583142	E094M5
6	1.00	2.1/2	0.5075	0.2550	0.1910	4	7/32	5.50	1.0073	0583159	E094M6
8	1.25	2.23/32	0.5939	0.3180	0.2380	5		7.40	1.1891	0583166	E094M8
10	1.50	2.15/16	0.6020	0.3810	0.2860	6		9.30	1.2915	0583173	E094M10

E890

- Machine Tap Spectrum™, oil grooves
- Spectrum™ Tarauds machine
- Spectrum™ Machos de máquina, con ranuras de lubricación



DIN/ANSI

E890



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.1	7.2	7.3
●	1.5	2.3	5.2	6.1	6.3	7.4					

M	P mm	l_1 mm	l_2 Inch	d_2 Ø Inch /	a Inch	z	$\leftrightarrow$	$\leftrightarrow$	l_4	EDP # or Stock No.	e-Code
3	0.50	56	0.7404	0.1410	0.1100	4	2.80	N35	0.7404	0639733	E890M3
4	0.70	63	0.6500	0.1680	0.1310	4	3.70	N27	0.6526	0631546	E890M4
5	0.80	70	0.7600	0.1940	0.1520	4	4.60	N14	0.8434	0631553	E890M5
6	1.00	80	0.5910	0.2550	0.1910	4	5.50	7/32	1.0073	0631560	E890M6
8	1.25	90	0.7090	0.3180	0.2380	5	7.40	L	1.1891	0631577	E890M8
10	1.50	100	0.7870	0.3810	0.2860	6	9.30	23/64	1.2915	0631584	E890M10
12	1.75	110	0.9060	0.3670	0.2750	6	11.20	7/16		0631591	E890M12
16	2.00	110	0.9060	0.4800	0.3600	8	15.00	19/32		0631607	E890M16
18	2.50	125	1.1810	0.5420	0.4060	8	16.75			0631614	E890M18
20	2.50	140	1.4170	0.6520	0.4890	8	18.80			0631621	E890M20

E015 / E016

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina

ANSI



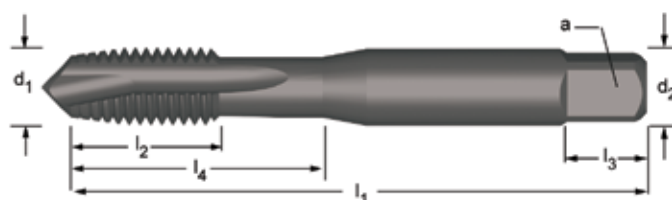
spectrum™

E015



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

MF	P mm	l ₁ Inch	l ₂ Inch	d ₂ Ø Inch /	a Inch	z		l ₄		EDP # or Stock No.	e-Code
8	1.00	2.23/32	0.5939	0.3180	0.2380	3	7.00	1.1891	J	0580912	E015M8X1.0
10	1.00	2.15/16	0.6020	0.3810	0.2860	3	9.00	1.2915	T	0580929	E015M10X1.0
14	1.50	3.19/32	0.9843	0.4290	0.3220	3	12.50		31/64	0580936	E015M14X1.5
18	1.50	4.1/32	1.1614	0.5420	0.4060	3	16.50		41/64	0580943	E015M18X1.5



spectrum™

E016



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

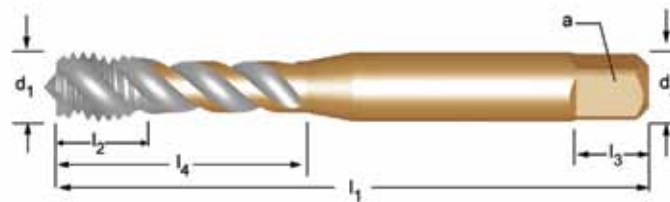
MF	P mm	l ₁ Inch	l ₂ Inch	d ₂ Ø Inch /	a Inch	z		l ₄		EDP # or Stock No.	e-Code
8	1.00	2.23/32	0.5939	0.3180	0.2380	3	7.00	1.1891	J	0580950	E016M8X1.0
10	1.00	2.15/16	0.6020	0.3810	0.2860	3	9.00	1.2915	T	0580967	E016M10X1.0
14	1.50	3.19/32	0.9843	0.4290	0.3220	3	12.50		31/64	0580974	E016M14X1.5
18	1.50	4.1/32	1.1614	0.5420	0.4060	3	16.50		41/64	0580981	E016M18X1.5

E017 / E018

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



ANSI

E017



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2	8.1				

MF	P mm	l ₁ Inch	l ₂ Inch	d ₂ Ø Inch /	a Inch	z			l ₄	EDP # or Stock No.	e-Code
8	1.00	2.23/32	0.4567	0.3180	0.2380	3	J	7.00	1.3094	0580998	E017M8X1.0
10	1.00	2.15/16	0.5315	0.3810	0.2860	3	T	9.00	1.4415	0581001	E017M10X1.0
14	1.50	3.19/32	0.7087	0.4290	0.3220	3	31/64	12.50		0581018	E017M14X1.5
18	1.50	4.1/32	0.8858	0.5420	0.4060	3	41/64	16.50		0581025	E017M18X1.5



E018



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	2.3						

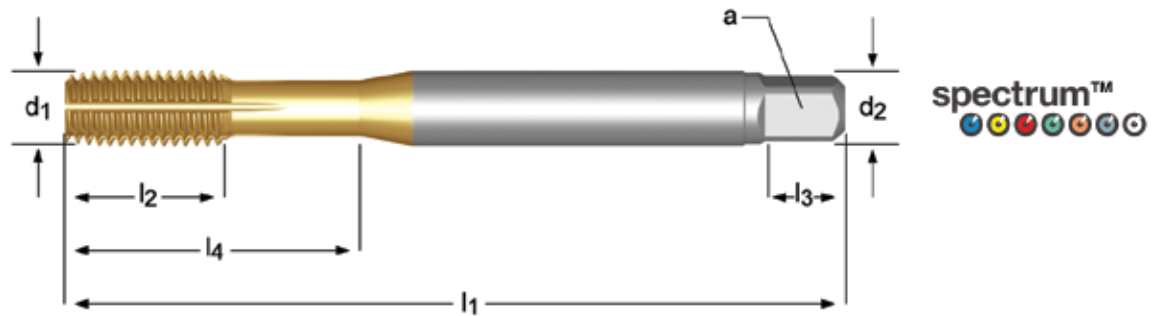
MF	P mm	l ₁ Inch	l ₂ Inch	d ₂ Ø Inch /	a Inch	z			l ₄	EDP # or Stock No.	e-Code
8	1.00	2.23/32	0.4567	0.3180	0.2380	3	J	7.00	1.3094	0581032	E018M8X1.0
10	1.00	2.15/16	0.5315	0.3810	0.2860	3	T	9.00	1.4415	0581049	E018M10X1.0
14	1.50	3.19/32	0.7087	0.4290	0.3220	3	31/64	12.50		0581056	E018M14X1.5
18	1.50	4.1/32	0.8858	0.5420	0.4060	3	41/64	16.50		0581063	E018M18X1.5

E891

- Machine Tap Spectrum™, oil grooves

- Spectrum™ Tarauds machine

- Spectrum™ Machos de máquina, con ranuras de lubricación



E891



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.1	7.2	7.3
●	1.5	2.3	5.2	6.1	6.3	7.4					

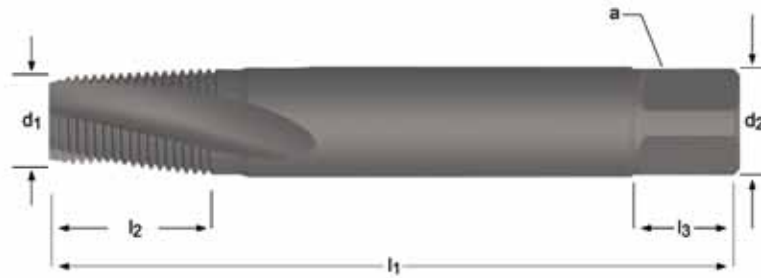
MF	P mm	l_1 mm	l_2 Inch	d_2 Ø Inch /	a Inch	z			l_4	EDP # or Stock No.	e-Code
10	1.25	100	0.7870	0.3810	0.2860	6	9.40	U	1.4415	0631638	E891M10X1.25
12	1.5	110	0.9060	0.3670	0.2750	6	11.20			0631645	E891M12X1.5

E735

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



DIN/ANSI

E735



■	1.4	1.5	1.6	2.4	3.1	3.2	4.2	4.3	5.2	5.3	6.2	6.4
●	6.3	7.3	7.4									

NPT	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	↔	EDP # or Stock No.	e-Code
1/16	27	7.72	80	14	7.9	5.9	9	3	6.30	D	0007495	E7351/16
1/8	27	10.06	90	14	11.1	8.3	9	4	8.50	R	0007501	E7351/8
1/4	18	13.36	100	20	14.3	10.7	11	4	11.00	7/16	0007518	E7351/4
3/8	18	16.81	110	20	17.8	13.5	13	5	14.50	37/64	0007525	E7353/8
1/2	14	20.96	125	26	17.5	13.1	16	5	18.00	23/32	0007532	E7351/2
3/4	14	26.29	140	26	23.0	17.2	18	5	23.00	59/64	0007938	E7353/4
1"	11.5	32.92	150	31	28.6	21.4	21	5	29.00	1.5/32	0007952	E7351

EP20

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW
2010.09

EP20



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
4	40	2.845	56	9	3.5	2.7	6	3	2.35	18	0138021	EP204-40
5	40	3.175	56	10	3.5	2.7	6	3	2.65	18	0138038	EP205-40
6	32	3.505	56	11	4.0	3.0	6	3	2.85	20	0138045	EP206-32
8	32	4.166	63	12	4.5	3.4	8	3	3.5	21	0138052	EP208-32
10	24	4.826	70	13	6.0	4.9	8	3	3.9	25	0138069	EP2010-24
12	24	5.486	80	15	6.0	4.9	8	3	4.5	30	0138076	EP2012-24
1/4	20	6.350	80	15	7.0	5.5	8	3	5.1	30	0138083	EP201/4
5/16	18	7.938	90	18	8.0	6.2	9	3	6.6	35	0138090	EP205/16
3/8	16	9.525	100	20	10.0	8.0	11	3	8	39	0138106	EP203/8
7/16	14	11.112	100	20	8.0	6.2	9	3	9.4		0138113	EP207/16
1/2	13	12.700	110	23	9.0	7.0	10	3	10.8		0138120	EP201/2
5/8	11	15.875	110	25	12.0	9.0	12	3	13.5		0138137	EP205/8
3/4	10	19.050	125	30	14.0	11.0	14	4	16.5		0138144	EP203/4 ¹⁾
7/8	9	22.225	140	34	18.0	14.5	17	4	19.5		0138151	EP207/8 ¹⁾
1	8	25.400	160	38	18.0	14.5	17	4	22.25		0138168	EP201 ¹⁾

¹⁾ HSCo

EP21

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW
2010.09

EP21



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
4	40	2.845	56	9	3.5	2.7	6	3	2.35	18	0138175	EP214-40
5	40	3.175	56	10	3.5	2.7	6	3	2.65	18	0138182	EP215-40
6	32	3.505	56	11	4.0	3.0	6	3	2.85	20	0138199	EP216-32
8	32	4.166	63	12	4.5	3.4	8	3	3.5	21	0138205	EP218-32
10	24	4.826	70	13	6.0	4.9	8	3	3.9	25	0138212	EP2110-24
12	24	5.486	80	15	6.0	4.9	8	3	4.5	30	0138229	EP2112-24
1/4	20	6.350	80	15	7.0	5.5	8	3	5.1	30	0138274	EP211/4
5/16	18	7.938	90	18	8.0	6.2	9	3	6.6	35	0138281	EP215/16
3/8	16	9.525	100	20	10.0	8.0	11	3	8	39	0138298	EP213/8
7/16	14	11.112	100	20	8.0	6.2	9	3	9.4		0138304	EP217/16
1/2	13	12.700	110	23	9.0	7.0	10	3	10.8		0138311	EP211/2
5/8	11	15.875	110	25	12.0	9.0	12	3	13.5		0138328	EP215/8
3/4	10	19.050	125	30	14.0	11.0	14	4	16.5		0138335	EP213/4 ¹⁾
7/8	9	22.225	140	34	18.0	14.5	17	4	19.5		0138342	EP217/8 ¹⁾
1	8	25.400	160	38	18.0	14.5	17	4	22.25		0138359	EP211 ¹⁾

DIN

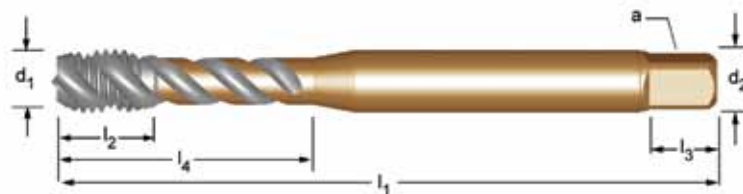
¹⁾ HSCo

EX20

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW
2010.09

EX20



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	flute width	l ₄ mm	EDP # or Stock No.	e-Code
4	40	2.845	56	6	3.5	2.7	6	3	2.35	18	0150269	EX204-40
5	40	3.175	56	6	3.5	2.7	6	3	2.65	18	0150276	EX205-40
6	32	3.505	56	7	4.0	3.0	6	3	2.85	20	0150283	EX206-32
8	32	4.166	63	7	4.5	3.4	8	3	3.5	21	0150290	EX208-32
10	24	4.826	70	8	6.0	4.9	8	3	3.9	25	0150306	EX2010-24
12	24	5.486	80	10	6.0	4.9	8	3	4.5	30	0150313	EX2012-24
1/4	20	6.350	80	10	7.0	5.5	8	3	5.1	30	0150320	EX201/4
5/16	18	7.938	90	12	8.0	6.2	9	3	6.6	35	0150337	EX205/16
3/8	16	9.525	100	15	10.0	8.0	11	3	8	39	0150344	EX203/8
7/16	14	11.112	100	15	8.0	6.2	9	3	9.4		0150351	EX207/16
1/2	13	12.700	110	18	9.0	7.0	10	3	10.8		0150368	EX201/2
5/8	11	15.875	110	20	12.0	9.0	12	4	13.5		0150375	EX205/8
3/4	10	19.050	125	25	14.0	11.0	14	4	16.5		0150382	EX203/4 ¹⁾
7/8	9	22.225	140	25	18.0	14.5	17	4	19.5		0150399	EX207/8 ¹⁾
1	8	25.400	160	30	18.0	14.5	17	4	22.25		0150405	EX201 ¹⁾

¹⁾ HSCo

EX21

• Machine Tap Spectrum™

• Spectrum™ Tárauds machine

• Spectrum™ Machos de máquina



NEW

2010.09

EX21

UNC

HSS
XS1

ST

DIN
2184-1



2B

2.5xD

C
2 - 3



- 1.1 1.2 1.3 1.4 1.5 2.1 2.2
- 2.3

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
4	40	2.845	56	6	3.5	2.7	6	3	2.35	18	0150412	EX214-40
5	40	3.175	56	6	3.5	2.7	6	3	2.65	18	0150429	EX215-40
6	32	3.505	56	7	4.0	3.0	6	3	2.85	20	0150436	EX216-32
8	32	4.166	63	7	4.5	3.4	8	3	3.5	21	0150443	EX218-32
10	24	4.826	70	8	6.0	4.9	8	3	3.9	25	0150450	EX2110-24
12	24	5.486	80	10	6.0	4.9	8	3	4.5	30	0150467	EX2112-24
1/4	20	6.350	80	10	7.0	5.5	8	3	5.1	30	0150474	EX211/4
5/16	18	7.938	90	12	8.0	6.2	9	3	6.6	35	0150627	EX215/16
3/8	16	9.525	100	15	10.0	8.0	11	3	8	39	0151945	EX213/8
7/16	14	11.112	100	15	8.0	6.2	9	3	9.4		0159507	EX217/16
1/2	13	12.700	110	18	9.0	7.0	10	3	10.8		0159514	EX211/2
5/8	11	15.875	110	20	12.0	9.0	12	4	13.5		0159552	EX215/8
3/4	10	19.050	125	25	14.0	11.0	14	4	16.5		0159576	EX213/4 ¹⁾
7/8	9	22.225	140	25	18.0	14.5	17	4	19.5		0159590	EX217/8 ¹⁾
1	8	25.400	160	30	18.0	14.5	17	4	22.25		0168318	EX211 ¹⁾

DIN

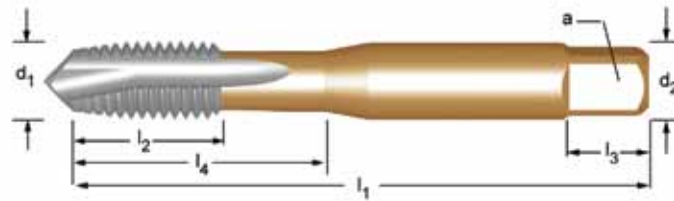
¹⁾ HSCo

E020

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E020



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
•	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
2	56	2.184	44.5	9.5	2.80	2.24	5	3	1.85	9.5	0010280	E0202-56
4	40	2.845	48	14	3.15	2.50	5	3	2.35	14	0568965	E0204-40
5	40	3.175	48	12.5	3.15	2.50	5	3	2.65	12.5	0010365	E0205-40
6	32	3.505	50	16	3.55	2.80	5	3	2.85	16	0568972	E0206-32
8	32	4.166	53	9.5	4.50	3.55	6	3	3.50	17	0568989	E0208-32
10	24	4.826	58	11	5.00	4.00	7	3	3.90	20	0568996	E02010-24
12	24	5.486	62	12	5.60	4.50	7	3	4.50	21	0569009	E02012-24
1/4	20	6.350	66	13	6.30	5.00	8	3	5.10	26	0569016	E0201/4
5/16	18	7.938	72	16	8.00	6.30	9	3	6.60	29	0569023	E0205/16
3/8	16	9.525	80	18	10.00	8.00	11	3	8.00	32	0569030	E0203/8
7/16	14	11.112	85	19	8.00	6.30	9	3	9.40		0569047	E0207/16
1/2	13	12.700	89	22	9.00	7.10	10	3	10.80		0569054	E0201/2
5/8	11	15.875	102	24	12.50	10.00	13	3	13.50		0569061	E0205/8
3/4	10	19.050	112	29	14.00	11.20	14	4	16.50		0569078	E0203/4
7/8	9	22.225	118	29	16.00	12.50	16	4	19.50		0569085	E0207/8
1"	8	25.400	130	35	18.00	14.00	18	4	22.25		0569092	E0201

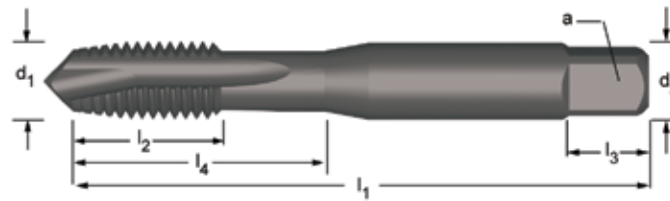
ISO

E021

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E021

UNC

HSS
XS1

ST

ISO
529



2B

2.5xD

B
3.5 - 5



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
2	56	2.184	44.5	9.5	2.80	2.24	5	3	1.85	9.5	0010396	E0212-56
4	40	2.845	48	14	3.15	2.50	5	3	2.35	14	0569108	E0214-40
5	40	3.175	48	12.5	3.15	2.50	5	3	2.65	12.5	0010419	E0215-40
6	32	3.505	50	16	3.55	2.80	5	3	2.85	16	0569115	E0216-32
8	32	4.166	53	9.5	4.50	3.55	6	3	3.50	17	0569122	E0218-32
10	24	4.826	58	11	5.00	4.00	7	3	3.90	20	0569139	E02110-24
12	24	5.486	62	12	5.60	4.50	7	3	4.50	21	0569146	E02112-24
1/4	20	6.350	66	13	6.30	5.00	8	3	5.10	26	0569153	E0211/4
5/16	18	7.938	72	16	8.00	6.30	9	3	6.60	29	0569160	E0215/16
3/8	16	9.525	80	18	10.00	8.00	11	3	8.00	32	0569177	E0213/8
7/16	14	11.112	85	19	8.00	6.30	9	3	9.40		0569184	E0217/16
1/2	13	12.700	89	22	9.00	7.10	10	3	10.80		0569191	E0211/2
5/8	11	15.875	102	24	12.50	10.00	13	3	13.50		0569207	E0215/8
3/4	10	19.050	112	29	14.00	11.20	14	4	16.50		0569214	E0213/4
7/8	9	22.225	118	29	16.00	12.50	16	4	19.50		0569221	E0217/8
1"	8	25.400	130	35	18.00	14.00	18	4	22.25		0569238	E0211

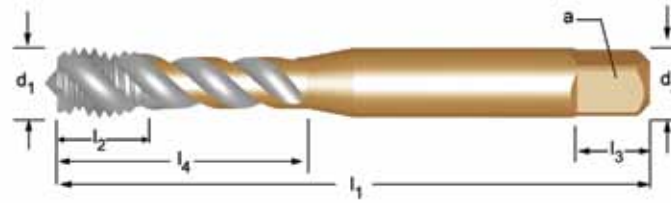
ISO

E022

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E022



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
•	4.1	4.2	5.1	5.2	6.2	8.1					

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
2	56	2.184	44.5	9.5	2.80	2.24	5	2	1.85	9.5	0010426	E0222-56
4	40	2.845	48	6	3.15	2.50	5	3	2.35	14	0569245	E0224-40
5	40	3.175	48	6	3.15	2.50	5	3	2.65	12.5	0010433	E0225-40
6	32	3.505	50	6	3.55	2.80	5	3	2.85	16	0569252	E0226-32
8	32	4.166	53	7	4.50	3.55	6	3	3.50	17	0569269	E0228-32
10	24	4.826	58	8	5.00	4.00	7	3	3.90	20	0569276	E02210-24
12	24	5.486	62	12	5.60	4.50	7	3	4.50	21	0569283	E02212-24
1/4	20	6.350	66	10	6.30	5.00	8	3	5.10	28	0569290	E0221/4
5/16	18	7.938	72	12	8.00	6.30	9	3	6.60	31	0569306	E0225/16
3/8	16	9.525	80	15	10.00	8.00	11	3	8.00	34	0569313	E0223/8
7/16	14	11.112	85	19	8.00	6.30	9	3	9.40		0569320	E0227/16
1/2	13	12.700	89	19	9.00	7.10	10	3	10.80		0569337	E0221/2
5/8	11	15.875	102	24	12.50	10.00	13	4	13.50		0569344	E0225/8
3/4	10	19.050	112	29	14.00	11.20	14	4	16.50		0569351	E0223/4
7/8	9	22.225	118	29	16.00	12.50	16	4	19.50		0569368	E0227/8
1	8	25.400	130	35	18.00	14.00	18	4	22.25		0569375	E0221

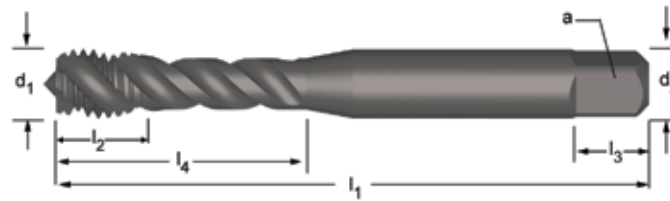
ISO

E023

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E023



- 1.1 1.2 1.3 1.4 1.5 2.1 2.2
- 2.3

UNC	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	flute length	l ₄ mm	EDP # or Stock No.	e-Code
2	56	2.184	44.5	9.5	2.80	2.24	5	2	1.85	9.5	0010440	E0232-56
4	40	2.845	48	6	3.15	2.50	5	3	2.35	14	0569382	E0234-40
5	40	3.175	48	6	3.15	2.50	5	3	2.65	12.5	0010471	E0235-40
6	32	3.505	50	6	3.55	2.80	5	3	2.85	16	0569399	E0236-32
8	32	4.166	53	7	4.50	3.55	6	3	3.50	17	0569405	E0238-32
10	24	4.826	58	8	5.00	4.00	7	3	3.90	20	0569412	E02310-24
12	24	5.486	62	12	5.60	4.50	7	3	4.50	21	0569429	E02312-24
1/4	20	6.350	66	10	6.30	5.00	8	3	5.10	28	0569436	E0231/4
5/16	18	7.938	72	12	8.00	6.30	9	3	6.60	31	0569443	E0235/16
3/8	16	9.525	80	15	10.00	8.00	11	3	8.00	34	0569450	E0233/8
7/16	14	11.112	85	19	8.00	6.30	9	3	9.40		0569467	E0237/16
1/2	13	12.700	89	19	9.00	7.10	10	3	10.80		0569474	E0231/2
5/8	11	15.875	102	24	12.50	10.00	13	4	13.50		0569481	E0235/8
3/4	10	19.050	112	29	14.00	11.20	14	4	16.50		0569498	E0233/4
7/8	9	22.225	118	29	16.00	12.50	16	4	19.50		0569504	E0237/8
1	8	25.400	130	35	18.00	14.00	18	4	22.25		0569511	E0231

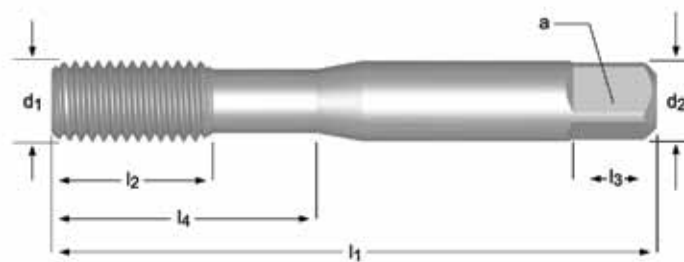
ISO

E523 / E596

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina

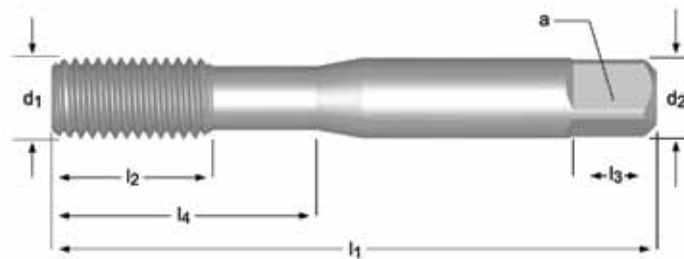


E523



• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

		d ₁ nom	l ₁	l ₂	d ₂ Ø	 a	l ₃		l ₄	EDP # or	
UNC	TPI	mm	mm	mm	mm	mm	mm		mm	Stock No.	e-Code
4	40	2.845	48	12.5	3.15	2.50	5	2.6	12.5	0215968	E5234-40BRIGHT
6	32	3.505	50	14	3.55	2.80	5	3.2	14	0215999	E5236-32BRIGHT
8	32	4.166	53	9.5	4.50	3.55	6	3.8	18	0216002	E5238-32BRIGHT
10	24	4.826	58	11	5.00	4.00	7	4.4	20	0215937	E52310-24BRIGHT
1/4	20	6.350	66	13	6.30	5.00	8	5.8	26	0215920	E5231/4BRIGHT
5/16	18	7.938	72	16	8.00	6.30	9	7.3	29	0215982	E5235/16BRIGHT
3/8	16	9.525	80	18	10.00	8.00	11	8.8	32	0215951	E5233/8BRIGHT



E596



■ 1.1 1.2 1.3 4.1 5.1 7.1 7.2 7.3

• 1.4 2.1 2.2 5.2 6.1 6.3 7.4

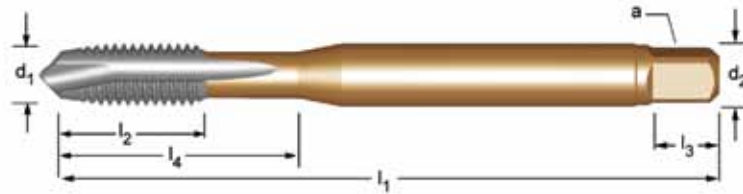
		d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	 a mm	l ₃ mm	 mm	l ₄ mm	EDP # or Stock No.	e-Code
UNC	TPI										
4	40	2.845	48	12.5	3.15	2.50	5	2.6	12.5	0357385	E5964-40
6	32	3.505	50	14	3.55	2.80	5	3.2	14	0357392	E5966-32
8	32	4.166	53	9.5	4.50	3.55	6	3.8	18	0357408	E5968-32
10	24	4.826	58	11	5.00	4.00	7	4.4	20	0357415	E59610-24
1/4	20	6.350	66	13	6.30	5.00	8	5.8	26	0357422	E5961/4
5/16	18	7.938	72	16	8.00	6.30	9	7.3	29	0357439	E5965/16
3/8	16	9.525	80	18	10.00	8.00	11	8.8	32	0357446	E5963/8

EP30

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

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2010.09

EP30



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
•	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	63	12	4.5	3.4	8	3	3.5	21	0138366	EP308-36
10	32	4.826	70	13	6.0	4.9	8	3	4.1	25	0138373	EP3010-32
1/4	28	6.350	80	15	7.0	5.5	8	3	5.5	30	0138380	EP301/4
5/16	24	7.938	90	18	8.0	6.2	9	3	6.9	35	0138397	EP305/16
3/8	24	9.525	100	20	10.0	8.0	11	3	8.5	39	0138403	EP303/8
7/16	20	11.112	100	20	8.0	6.2	9	3	9.9		0138410	EP307/16
1/2	20	12.700	110	23	9.0	7.0	10	3	11.5		0138427	EP301/2
5/8	18	15.875	110	25	12.0	9.0	12	3	14.5		0138434	EP305/8
3/4	16	19.050	125	30	14.0	11.0	14	4	17.5		0138441	EP303/4 ¹⁾
7/8	14	22.225	140	34	18.0	14.5	17	4	20.4		0138458	EP307/8 ¹⁾
1	12	25.400	160	38	18.0	14.5	17	4	23.25		0138465	EP301 ¹⁾

DIN

¹⁾ HSCo

EP31

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

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spectrum™

NEW

2010.09

EP31



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	63	12	4.5	3.4	8	3	3.5	21	0138472	EP318-36
10	32	4.826	70	13	6.0	4.9	8	3	4.1	25	0138489	EP3110-32
1/4	28	6.350	80	15	7.0	5.5	8	3	5.5	30	0138496	EP311/4
5/16	24	7.938	90	18	8.0	6.2	9	3	6.9	35	0138502	EP315/16
3/8	24	9.525	100	20	10.0	8.0	11	3	8.5	39	0138519	EP313/8
7/16	20	11.112	100	20	8.0	6.2	9	3	9.9		0138526	EP317/16
1/2	20	12.700	110	23	9.0	7.0	10	3	11.5		0138533	EP311/2
5/8	18	15.875	110	25	12.0	9.0	12	3	14.5		0138540	EP315/8
3/4	16	19.050	125	30	14.0	11.0	14	4	17.5		0138557	EP313/4 ¹⁾
7/8	14	22.225	140	34	18.0	14.5	17	4	20.4		0138564	EP317/8 ¹⁾
1	12	25.400	160	38	18.0	14.5	17	4	23.25		0138571	EP311 ¹⁾

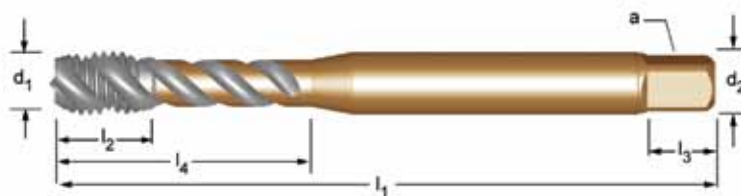
¹⁾ HSCo

EX30

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™

NEW
2010.09

EX30



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	63	7	4.5	3.4	8	3	3.5	21	0168325	EX308-36
10	32	4.826	70	8	6.0	4.9	8	3	4.1	25	0168332	EX3010-32
1/4	28	6.350	80	10	7.0	5.5	8	3	5.5	30	0168349	EX301/4
5/16	24	7.938	90	12	8.0	6.2	9	3	6.9	35	0168356	EX305/16
3/8	24	9.525	100	15	10.0	8.0	11	3	8.5	39	0168363	EX303/8
7/16	20	11.112	100	15	8.0	6.2	9	3	9.9		0168370	EX307/16
1/2	20	12.700	110	18	9.0	7.0	10	3	11.5		0168387	EX301/2
5/8	18	15.875	110	20	12.0	9.0	12	4	14.5		0168394	EX305/8
3/4	16	19.050	125	25	14.0	11.0	14	4	17.5		0168400	EX303/4 ¹⁾
7/8	14	22.225	140	25	18.0	14.5	17	4	20.4		0168417	EX307/8 ¹⁾
1	12	25.400	160	30	18.0	14.5	17	4	23.25		0168424	EX301 ¹⁾

DIN

¹⁾ HSCo

EX31

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™

NEW
2010.09

EX31

UNF

HSS
XS1

ST

DIN
2184-1



2B

2.5xD

C
2 - 3



■ 1.1 1.2 1.3 1.4 1.5 2.1 2.2
● 2.3

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	63	7	4.5	3.4	8	3	3.5	21	0168431	EX318-36
10	32	4.826	70	8	6.0	4.9	8	3	4.1	25	0168448	EX3110-32
1/4	28	6.350	80	10	7.0	5.5	8	3	5.5	30	0168455	EX311/4
5/16	24	7.938	90	12	8.0	6.2	9	3	6.9	35	0168462	EX315/16
3/8	24	9.525	100	15	10.0	8.0	11	3	8.5	39	0168479	EX313/8
7/16	20	11.112	100	15	8.0	6.2	9	3	9.9		0168486	EX317/16
1/2	20	12.700	110	18	9.0	7.0	10	3	11.5		0168493	EX311/2
5/8	18	15.875	110	20	12.0	9.0	12	4	14.5		0168509	EX315/8
3/4	16	19.050	125	25	14.0	11.0	14	4	17.5		0168516	EX313/4 ¹⁾
7/8	14	22.225	140	25	18.0	14.5	17	4	20.4		0168523	EX317/8 ¹⁾
1	12	25.400	160	30	18.0	14.5	17	4	23.25		0168530	EX311 ¹⁾

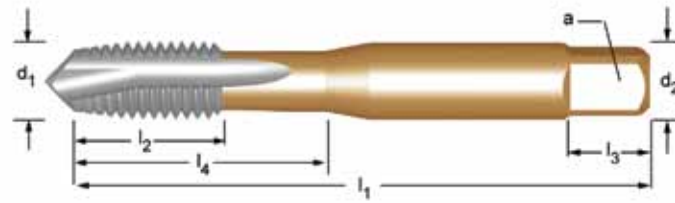
¹⁾ HSCo

E030

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E030



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	53	9.5	4.50	3.55	6	3	3.50	17	0569528	E0308-36
10	32	4.826	58	11	5.00	4.00	7	3	4.10	20	0569535	E03010-32
1/4	28	6.350	66	13	6.30	5.00	8	3	5.50	26	0569542	E0301/4
5/16	24	7.938	72	16	8.00	6.30	9	3	6.90	29	0569559	E0305/16
3/8	24	9.525	80	18	10.00	8.00	11	3	8.50	32	0569566	E0303/8
7/16	20	11.112	85	19	8.00	6.30	9	3	9.90		0569573	E0307/16
1/2	20	12.700	89	22	9.00	7.10	10	3	11.50		0569580	E0301/2
9/16	18	14.288	95	24	11.20	9.00	12	3	12.90		0569597	E0309/16
5/8	18	15.875	102	24	12.50	10.00	13	3	14.50		0569603	E0305/8
3/4	16	19.050	112	29	14.00	11.20	14	4	17.50		0569610	E0303/4
7/8	14	22.225	118	29	16.00	12.50	16	4	20.40		0569627	E0307/8
1"	12	25.400	130	35	18.00	14.00	18	4	23.25		0569634	E0301

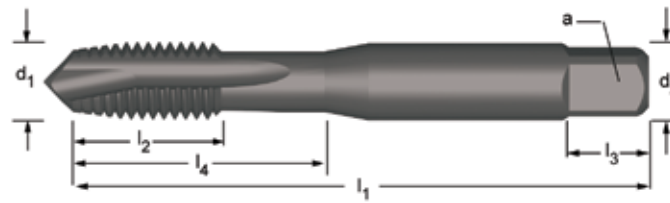
ISO

E031

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E031



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	53	9.5	4.50	3.55	6	3	3.50	17	0569641	E0318-36
10	32	4.826	58	11	5.00	4.00	7	3	4.10	20	0569658	E03110-32
1/4	28	6.350	66	13	6.30	5.00	8	3	5.50	26	0569665	E0311/4
5/16	24	7.938	72	16	8.00	6.30	9	3	6.90	29	0569672	E0315/16
3/8	24	9.525	80	18	10.00	8.00	11	3	8.50	32	0569689	E0313/8
7/16	20	11.112	85	19	8.00	6.30	9	3	9.90		0569696	E0317/16
1/2	20	12.700	89	22	9.00	7.10	10	3	11.50		0569702	E0311/2
9/16	18	14.288	95	24	11.20	9.00	12	3	12.90		0569719	E0319/16
5/8	18	15.875	102	24	12.50	10.00	13	3	14.50		0569726	E0315/8
3/4	16	19.050	112	29	14.00	11.20	14	4	17.50		0569733	E0313/4
7/8	14	22.225	118	29	16.00	12.50	16	4	20.40		0569740	E0317/8
1"	12	25.400	130	35	18.00	14.00	18	4	23.25		0569757	E0311

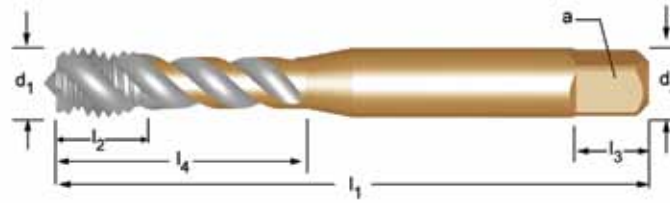
ISO

E032

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E032



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	1.6	4.1	4.2	5.1	5.2	8.1			

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	53	7	4.50	3.55	6	3	3.50	0569962	E0328-36
10	32	4.826	58	8	5.00	4.00	7	3	4.10	0569979	E03210-32
1/4	28	6.350	66	10	6.30	5.00	8	3	5.50	0569986	E0321/4
5/16	24	7.938	72	12	8.00	6.30	9	3	6.90	0569993	E0325/16
3/8	24	9.525	80	15	10.00	8.00	11	3	8.50	0570005	E0323/8
7/16	20	11.112	85	19	8.00	6.30	9	3	9.90	0570012	E0327/16
1/2	20	12.700	89	22	9.00	7.10	10	3	11.50	0570029	E0321/2
9/16	18	14.288	95	24	11.20	9.00	12	3	12.90	0570036	E0329/16
5/8	18	15.875	102	24	12.50	10.00	13	4	14.50	0570043	E0325/8
3/4	16	19.050	112	29	14.00	11.20	14	4	17.50	0570050	E0323/4
7/8	14	22.225	118	29	16.00	12.50	16	4	20.40	0570067	E0327/8
1"	12	25.400	130	35	18.00	14.00	18	4	23.25	0570074	E0321

ISO

E033

• Machine Tap Spectrum™

• Spectrum™ Tardauds machine

• Spectrum™ Machos de máquina



E033



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3					

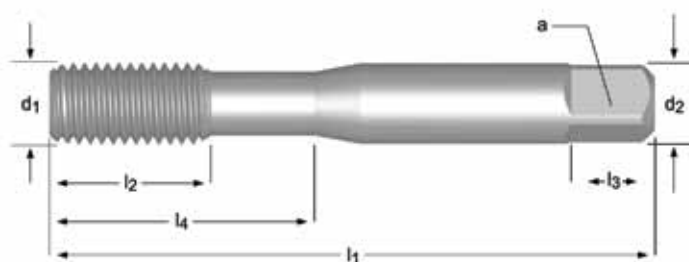
UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	flute length mm	l ₄ mm	EDP # or Stock No.	e-Code
8	36	4.166	53	7	4.50	3.55	6	3	3.50	17	0570081	E0338-36
10	32	4.826	58	8	5.00	4.00	7	3	4.10	20	0570098	E03310-32
1/4	28	6.350	66	10	6.30	5.00	8	3	5.50	28	0570104	E0331/4
5/16	24	7.938	72	12	8.00	6.30	9	3	6.90	31	0570111	E0335/16
3/8	24	9.525	80	15	10.00	8.00	11	3	8.50	34	0570128	E0333/8
7/16	20	11.112	85	19	8.00	6.30	9	3	9.90		0570135	E0337/16
1/2	20	12.700	89	22	9.00	7.10	10	3	11.50		0570142	E0331/2
9/16	18	14.288	95	24	11.20	9.00	12	3	12.90		0570159	E0339/16
5/8	18	15.875	102	24	12.50	10.00	13	4	14.50		0570166	E0335/8
3/4	16	19.050	112	29	14.00	11.20	14	4	17.50		0570173	E0333/4
7/8	14	22.225	118	29	16.00	12.50	16	4	20.40		0570180	E0337/8
1"	12	25.400	130	35	18.00	14.00	18	4	23.25		0570197	E0331

E530

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E530



• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

UNF	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	↔	l ₄ mm	EDP # or Stock No.	e-Code
10	32	4.826	58	11	5.00	4.00	7	4.5	20	0199831	E53010-32BRIGHT
1/4	28	6.350	66	13	6.30	5.00	8	6	26	0199855	E5301/4BRIGHT
5/16	24	7.938	72	16	8.00	8.00	9	7.5	29	0199879	E5305/16BRIGHT
3/8	24	9.525	80	18	10.00	10.00	11	9.1	32	0199893	E5303/8BRIGHT
7/16	20	11.112	85	19	8.00	8.00	9	10.6		0199916	E5307/16BRIGHT

ISO

EP006H

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW

2010.02

EP006H



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code	
2	0.40	50	6	2.8	2.1	5	3	1.6	9	0137239	EP00M2	¹⁾
2.5	0.45	50	8	2.8	2.1	5	3	2.1	12.5	0137246	EP00M2.5	¹⁾
3	0.50	56	9	3.5	2.7	6	3	2.5	18	0135709	EP00M3	
3	0.50	56	10	2.2	1.8	4	3	2.5		0135716	EP00M3DIN376	
3.5	0.60	56	11	4.0	3.0	6	3	2.9	20	0135723	EP00M3.5	
4	0.70	63	12	4.5	3.4	6	3	3.3	21	0135730	EP00M4	
4	0.70	63	12	2.8	2.1	5	3	3.3		0135747	EP00M4DIN376	
4.5	0.75	70	13	6.0	4.9	8	3	3.8	25	0135754	EP00M4.5	
5	0.80	70	13	6.0	4.9	8	3	4.2	25	0135846	EP00M5	
5	0.80	70	13	3.5	2.7	6	3	4.2		0135853	EP00M5DIN376	
6	1.00	80	15	6.0	4.9	8	3	5	30	0135860	EP00M6	
6	1.00	80	15	4.5	3.4	6	3	5		0135877	EP00M6DIN376	
7	1.00	80	15	7.0	5.5	8	3	6	30	0135884	EP00M7	
8	1.25	90	18	8.0	6.2	9	3	6.8	35	0135891	EP00M8	
8	1.25	90	18	6.0	4.9	8	3	6.8		0135907	EP00M8DIN376	
10	1.50	100	20	10.0	8.0	11	3	8.5	39	0135914	EP00M10	
10	1.50	100	20	7.0	5.5	8	3	8.5		0135921	EP00M10DIN376	
12	1.75	110	23	9.0	7.0	10	3	10.3		0135938	EP00M12	
14	2.00	110	25	11.0	9.0	12	3	12		0135945	EP00M14	
16	2.00	110	25	12.0	9.0	12	3	14		0135952	EP00M16	
18	2.50	125	30	14.0	11.0	14	4	15.5		0135969	EP00M18	¹⁾
20	2.50	140	30	16.0	12.0	15	4	17.5		0135976	EP00M20	¹⁾
22	2.50	140	34	18.0	14.5	17	4	19.5		0135983	EP00M22	¹⁾
24	3.00	160	38	18.0	14.5	17	4	21		0135990	EP00M24	¹⁾
27	3.00	160	38	20.0	16.0	19	4	24		0136003	EP00M27	¹⁾
30	3.50	180	45	22.0	18.0	21	4	26.5		0136010	EP00M30	¹⁾

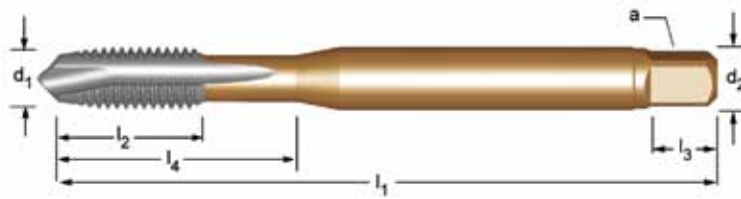
¹⁾ HSCo

EP006G

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW

2010.02

EP006G



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	3	2.5	18	0135617	EP00M36G
4	0.70	63	12	4.5	3.4	6	3	3.3	21	0135624	EP00M46G
5	0.80	70	13	6.0	4.9	8	3	4.2	25	0135631	EP00M56G
6	1.00	80	15	6.0	4.9	8	3	5	30	0135648	EP00M66G
8	1.25	90	18	8.0	6.2	9	3	6.8	35	0135655	EP00M86G
10	1.50	100	20	10.0	8.0	11	3	8.5	39	0135662	EP00M106G
12	1.75	110	23	9.0	7.0	10	3	10.3		0135679	EP00M126G
16	2.00	110	25	12.0	9.0	12	3	14		0135686	EP00M166G
20	2.50	140	30	16.0	12.0	15	4	17.5		0135693	EP00M206G ¹⁾

DIN

¹⁾ HSCo

EP016H

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW

2010.02

EP016H



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code	
2	0.40	50	6	2.8	2.1	5	3	1.6	9	0137253	EP01M2	¹⁾
2.5	0.45	50	8	2.8	2.1	5	3	2.1	12.5	0137291	EP01M2.5	¹⁾
3	0.50	56	9	3.5	2.7	6	3	2.5	18	0136119	EP01M3	
3	0.50	56	10	2.2	1.8	4	3	2.5		0136126	EP01M3DIN376	
3.5	0.60	56	11	4.0	3.0	6	3	2.9	20	0136133	EP01M3.5	
4	0.70	63	12	4.5	3.4	6	3	3.3	21	0136140	EP01M4	
4	0.70	63	12	2.8	2.1	5	3	3.3		0136157	EP01M4DIN376	
4.5	0.75	70	13	6.0	4.9	8	3	3.8	25	0136164	EP01M4.5	
5	0.80	70	13	6.0	4.9	8	3	4.2	25	0136171	EP01M5	
5	0.80	70	13	3.5	2.7	6	3	4.2		0136188	EP01M5DIN376	
6	1.00	80	15	6.0	4.9	8	3	5	30	0136195	EP01M6	
6	1.00	80	15	4.5	3.4	6	3	5		0136201	EP01M6DIN376	
7	1.00	80	15	7.0	5.5	8	3	6	30	0136218	EP01M7	
8	1.25	90	18	8.0	6.2	9	3	6.8	35	0136225	EP01M8	
8	1.25	90	18	6.0	4.9	8	3	6.8		0136232	EP01M8DIN376	
10	1.50	100	20	10.0	8.0	11	3	8.5	39	0136249	EP01M10	
10	1.50	100	20	7.0	5.5	8	3	8.5		0136256	EP01M10DIN376	
12	1.75	110	23	9.0	7.0	10	3	10.3		0136263	EP01M12	
14	2.00	110	25	11.0	9.0	12	3	12		0136317	EP01M14	
16	2.00	110	25	12.0	9.0	12	3	14		0136324	EP01M16	
18	2.50	125	30	14.0	11.0	14	4	15.5		0136331	EP01M18	¹⁾
20	2.50	140	30	16.0	12.0	15	4	17.5		0136348	EP01M20	¹⁾
22	2.50	140	34	18.0	14.5	17	4	19.5		0136355	EP01M22	¹⁾
24	3.00	160	38	18.0	14.5	17	4	21		0136362	EP01M24	¹⁾
27	3.00	160	38	20.0	16.0	19	4	24		0136379	EP01M27	¹⁾
30	3.50	180	45	22.0	18.0	21	4	26.5		0136386	EP01M30	¹⁾

¹⁾ HSCo

EP016G

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™

NEW

2010.02

EP016G



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	a mm	l_3 mm	z		l_4 mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	3	2.5	18	0136027	EP01M36G
4	0.70	63	12	4.5	3.4	6	3	3.3	21	0136034	EP01M46G
5	0.80	70	13	6.0	4.9	8	3	4.2	25	0136041	EP01M56G
6	1.00	80	15	6.0	4.9	8	3	5	30	0136058	EP01M66G
8	1.25	90	18	8.0	6.2	9	3	6.8	35	0136065	EP01M86G
10	1.50	100	20	10.0	8.0	11	3	8.5	39	0136072	EP01M106G
12	1.75	110	23	9.0	7.0	10	3	10.3		0136089	EP01M126G
16	2.00	110	25	12.0	9.0	12	3	14		0136096	EP01M166G
20	2.50	140	30	16.0	12.0	15	4	17.5		0136102	EP01M206G ¹⁾

¹⁾ HSCo

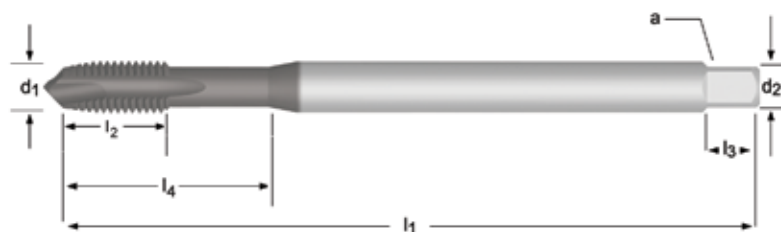
DIN

E616

• Machine Tap Spectrum™, Extra Long

• Spectrum™ Tarauds machine, Extra Long

• Spectrum™ Machos de máquina, Extra largo



spectrum™

NEW

2008.09

E616



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3										
●	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	5.2	6.2	7.1					

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	112	9	3.5	2.7	6	3	2.5	18	0007396	E616M3
4	0.70	112	12	4.5	3.4	6	3	3.3	21	0007402	E616M4
5	0.80	125	13	6.0	4.9	8	3	4.2	25	0007419	E616M5
6	1.00	125	15	6.0	4.9	8	3	5	30	0007426	E616M6
8	1.25	140	18	8.0	6.2	9	3	6.8	40	0007433	E616M8
10	1.50	160	20	10.0	8.0	11	3	8.5	50	0007440	E616M10
12	1.75	180	23	9.0	7.0	10	3	10.2		0007457	E616M12
14	2.00	180	25	11.0	9.0	12	3	12		0007464	E616M14
16	2.00	200	25	12.0	9.0	12	3	14		0007471	E616M16
20	2.50	224	30	16	12.0	15	4	17.5		0007488	E616M20

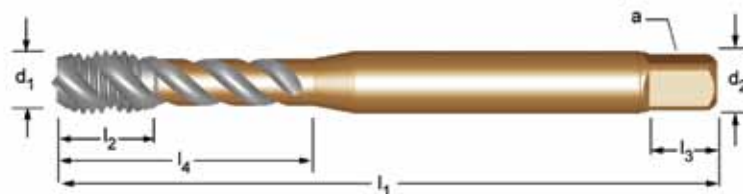
DIN

EX006H

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW

2010.02

EX006H



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code	
2	0.40	45	4	2.8	2.1	5	3	1.6	9	0137307	EX00M2	¹⁾
2.5	0.45	50	4	2.8	2.1	5	3	2.05	12.5	0137314	EX00M2.5	¹⁾
3	0.50	56	6	3.5	2.7	6	3	2.5	18	0136591	EX00M3	
3.5	0.60	56	7	4.0	3.0	6	3	2.9	20	0136607	EX00M3.5	
4	0.70	63	7	4.5	3.4	6	3	3.3	21	0136614	EX00M4	
5	0.80	70	8	6.0	4.9	8	3	4.2	25	0136621	EX00M5	
6	1.00	80	10	6.0	4.9	8	3	5	31	0136638	EX00M6	
6	1.00	80	10	4.5	3.4	6	3	5		0136645	EX00M6DIN376	
7	1.00	80	10	7.0	5.5	8	3	6	31	0136652	EX00M7	
8	1.25	90	12	8.0	6.2	9	3	6.8	35	0136669	EX00M8	
8	1.25	90	13	6.0	4.9	8	3	6.8		0136676	EX00M8DIN376	
10	1.50	100	15	10.0	8.0	11	3	8.5	39	0136683	EX00M10	
10	1.50	100	15	7.0	5.5	8	3	8.5		0136690	EX00M10DIN376	
12	1.75	110	16	9.0	7.0	10	3	10.3		0136706	EX00M12	
14	2.00	110	20	11.0	9.0	12	3	12		0136713	EX00M14	
16	2.00	110	20	12.0	9.0	12	4	14		0136720	EX00M16	
18	2.50	125	25	14.0	11.0	14	4	15.5		0136737	EX00M18	¹⁾
20	2.50	140	25	16.0	12.0	15	4	17.5		0136744	EX00M20	¹⁾
22	2.50	140	25	18.0	14.5	17	4	19.5		0136829	EX00M22	¹⁾
24	3.00	160	30	18.0	14.5	17	4	21		0136836	EX00M24	¹⁾
27	3.00	160	30	20.0	16.0	19	4	24		0136843	EX00M27	¹⁾
30	3.50	180	36	22.0	18.0	21	4	26.5		0136850	EX00M30	¹⁾
33	3.50	180	36	25.0	20.0	23	4	29.5		0136867	EX00M33	¹⁾
36	4.00	200	40	28.0	22.0	25	4	32		0136874	EX00M36	¹⁾
39	4.00	200	40	32.0	24.0	27	4	35		0136881	EX00M39	¹⁾
42	4.50	200	45	32.0	24.0	27	4	37.5		0136898	EX00M42	¹⁾
48	5.00	250	50	36.0	29.0	32	4	43		0136904	EX00M48	¹⁾
52	5.00	250	50	40.0	32.0	35	5	47		0136911	EX00M52	¹⁾
56	5.50	250	55	40.0	32.0	35	5	50.5		0136928	EX00M56	¹⁾
64	6.00	315	60	50.0	39.0	42	6	58		0136935	EX00M64	¹⁾

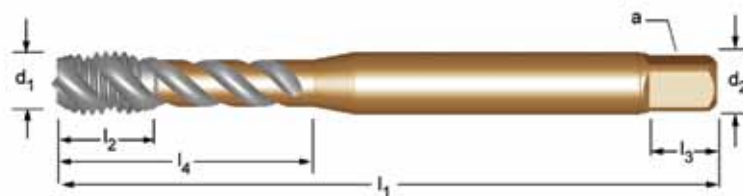
¹⁾ HSCo

EX006G

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EX006G



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	6	3.5	2.7	6	3	2.5	18	0136393	EX00M36G
4	0.70	63	7	4.5	3.4	6	3	3.3	21	0136409	EX00M46G
5	0.80	70	8	6.0	4.9	8	3	4.2	25	0136416	EX00M56G
6	1.00	80	10	6.0	4.9	8	3	5	31	0136423	EX00M66G
8	1.25	90	12	8.0	6.2	9	3	6.8	35	0136430	EX00M86G
10	1.50	100	15	10.0	8.0	11	3	8.5	39	0136447	EX00M106G
12	1.75	110	16	9.0	7.0	10	3	10.3		0136454	EX00M126G
14	2.00	110	20	11.0	9.0	12	3	12		0136461	EX00M146G
16	2.00	110	20	12.0	9.0	12	4	14		0136478	EX00M166G
20	2.50	140	25	16.0	12.0	15	4	17.5		0136485	EX00M206G ¹⁾

¹⁾ HSCo

EX016H

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EX016H



■ 1.1 1.2 1.3 1.4 1.5 2.1 2.2
● 2.3

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code	
2	0.40	45	4	2.8	2.1	5	3	1.6	9	0137321	EX01M2	¹⁾
2.5	0.45	50	4	2.8	2.1	5	3	2.05	12.5	0137338	EX01M2.5	¹⁾
3	0.50	56	6	3.5	2.7	6	3	2.5	18	0136942	EX01M3	
3.5	0.60	56	7	4.0	3.0	6	3	2.9	20	0136966	EX01M3.5	
4	0.70	63	7	4.5	3.4	6	3	3.3	21	0136973	EX01M4	
5	0.80	70	8	6.0	4.9	8	3	4.2	25	0136980	EX01M5	
6	1.00	80	10	6.0	4.9	8	3	5	31	0136997	EX01M6	
6	1.00	80	10	4.5	3.4	6	3	5		0137000	EX01M6DIN376	
7	1.00	80	10	7.0	5.5	8	3	6	31	0137017	EX01M7	
8	1.25	90	12	8.0	6.2	9	3	6.8	35	0137024	EX01M8	
8	1.25	90	13	6.0	4.9	8	3	6.8		0137031	EX01M8DIN376	
10	1.50	100	15	10.0	8.0	11	3	8.5	39	0137048	EX01M10	
10	1.50	100	15	7.0	5.5	8	3	8.5		0137055	EX01M10DIN376	
12	1.75	110	16	9.0	7.0	10	3	10.3		0137062	EX01M12	
14	2.00	110	20	11.0	9.0	12	3	12		0137079	EX01M14	
16	2.00	110	20	12.0	9.0	12	4	14		0137086	EX01M16	
18	2.50	125	25	14.0	11.0	14	4	15.5		0137093	EX01M18	¹⁾
20	2.50	140	25	16.0	12.0	15	4	17.5		0137109	EX01M20	¹⁾
22	2.50	140	25	18.0	14.5	17	4	19.5		0137116	EX01M22	¹⁾
24	3.00	160	30	18.0	14.5	17	4	21		0137123	EX01M24	¹⁾
27	3.00	160	30	20.0	16.0	19	4	24		0137130	EX01M27	¹⁾
30	3.50	180	36	22.0	18.0	21	4	26.5		0137147	EX01M30	¹⁾
33	3.50	180	36	25.0	20.0	23	4	29.5		0137154	EX01M33	¹⁾
36	4.00	200	40	28.0	22.0	25	4	32		0137161	EX01M36	¹⁾
39	4.00	200	40	32.0	24.0	27	4	35		0137178	EX01M39	¹⁾
42	4.50	200	45	32.0	24.0	27	4	37.5		0137185	EX01M42	¹⁾
48	5.00	250	50	36.0	29.0	32	4	43		0137192	EX01M48	¹⁾
52	5.00	250	50	40.0	32.0	35	5	47		0137208	EX01M52	¹⁾
56	5.50	250	55	40.0	32.0	35	5	50.5		0137215	EX01M56	¹⁾
64	6.00	315	60	50.0	39.0	42	6	58		0137222	EX01M64	¹⁾

¹⁾ HSCo

DIN

EX016G

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EX016G

M

**HSS
XS1**

ST

DIN
371≤10
376≥12



6G

2.5xD

C
2 - 3



■ **1.1** **1.2** **1.3** **1.4** **1.5** **2.1** **2.2**
● **2.3**

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	6	3.5	2.7	6	3	2.5	18	0136492	EX01M36G
4	0.70	63	7	4.5	3.4	6	3	3.3	21	0136508	EX01M46G
5	0.80	70	8	6.0	4.9	8	3	4.2	25	0136515	EX01M56G
6	1.00	80	10	6.0	4.9	8	3	5	31	0136522	EX01M66G
8	1.25	90	12	8.0	6.2	9	3	6.8	35	0136539	EX01M86G
10	1.50	100	15	10.0	8.0	11	3	8.5	39	0136546	EX01M106G
12	1.75	110	16	9.0	7.0	10	3	10.3		0136553	EX01M126G
14	2.00	110	20	11.0	9.0	12	3	12		0136560	EX01M146G
16	2.00	110	20	12.0	9.0	12	4	14		0136577	EX01M166G
20	2.50	140	25	16.0	12.0	15	4	17.5		0136584	EX01M206G ¹⁾

¹⁾ HSCo

E195 / E245

- Machine Tap Spectrum™, back tapered
- Spectrum™ Tarauds machine, Conicité arrière
- Spectrum™ Machos de máquina con rosca acheflanada hacia atrás

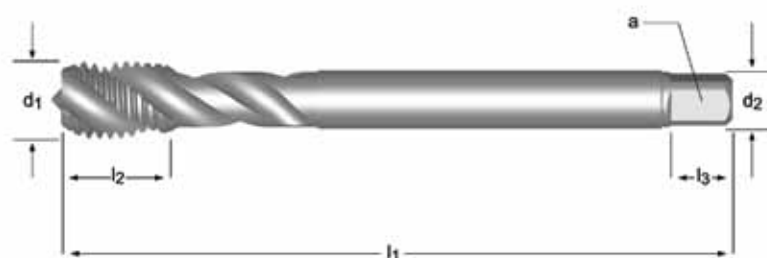


E195



■	1.3	1.4	
●	1.1	1.2	1.5

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
4	0.70	63	7	4.5	3.4	6	3	3.3	21	0084861	E195M4
5	0.80	70	8	6.0	4.9	8	3	4.2	25	0084878	E195M5
6	1.00	80	10	6.0	4.9	8	3	5	30	0084885	E195M6
8	1.25	90	13	8.0	6.2	9	3	6.8	35	0084892	E195M8
10	1.50	100	15	10.0	8.0	11	3	8.5	39	0084854	E195M10



E245



■	1.3	1.4	
●	1.1	1.2	1.5

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		EDP # or Stock No.	e-Code
12	1.75	110	18	9	7.0	10	3	10.3	0086728	E245M12
14	2.00	110	20	11	9.0	12	3	12	0086735	E245M14
16	2.00	110	20	12	9.0	12	4	14	0086742	E245M16
18	2.50	125	25	14	11.0	14	4	15.5	0086759	E245M18
20	2.50	140	25	16	12.0	15	4	17.5	0086766	E245M20
22	2.50	140	25	18	14.5	17	4	19.5	0086773	E245M22
24	3.00	160	30	18	14.5	17	4	21	0086780	E245M24

DIN

E615

• Machine Tap Spectrum™, Extra Long

• Spectrum™ Tarauds machine, Extra Long

• Spectrum™ Machos de máquina, Extra largo



spectrum™

NEW

2008.09

E615



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	112	6	3.5	2.7	6	3	2.5	18	0007297	E615M3
4	0.70	112	7	4.5	3.4	6	3	3.3	21	0007303	E615M4
5	0.80	125	8	6.0	4.9	8	3	4.2	25	0007310	E615M5
6	1.00	125	10	6.0	4.9	8	3	5	30	0007327	E615M6
8	1.25	140	13	8.0	6.2	9	3	6.8	40	0007334	E615M8
10	1.50	160	15	10.0	8.0	11	3	8.5	50	0007341	E615M10
12	1.75	180	16	9.0	7.0	10	3	10.2		0007358	E615M12
14	2.00	180	20	11.0	9.0	12	3	12		0007365	E615M14
16	2.00	200	20	12.0	9.0	12	3	14		0007372	E615M16
20	2.50	224	25	16	12	15	4	17.5		0007389	E615M20

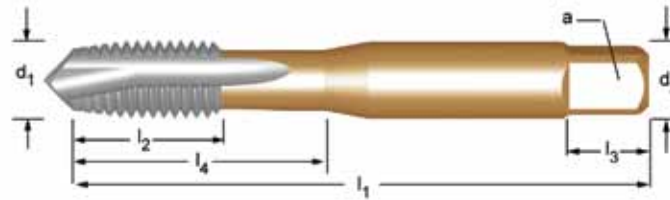
DIN

E000

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• Spectrum™ Machos de máquina



E000



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
1.6	0.35	41	7	2.50	2.00	4	3	1.25	7	0168769	E000M1.6
2	0.40	41	8	2.50	2.00	4	3	1.6	8	0168776	E000M2
2.5	0.45	44.5	9.5	2.80	2.24	5	3	2.05	9.5	0168783	E000M2.5
3	0.50	48	15	3.15	2.50	5	3	2.5	12.5	0567586	E000M3
3.5	0.60	50	16	3.55	2.80	5	3	2.9	14	0567593	E000M3.5
4	0.70	53	17	4.00	3.15	6	3	3.3	14	0567609	E000M4
5	0.80	58	11	5.00	4.00	7	3	4.2	22	0567616	E000M5
6	1.00	66	13	6.30	5.00	8	3	5.0	26	0567623	E000M6
7	1.00	66	13	7.10	5.60	8	3	6.0	26	0636176	E000M7
8	1.25	72	16	8.00	6.30	9	3	6.8	29	0567630	E000M8
10	1.50	80	18	10.00	8.00	11	3	8.5	34	0567647	E000M10
12	1.75	89	22	9.00	7.10	10	3	10.3		0567654	E000M12
14	2.00	95	24	11.20	9.00	12	3	12.0		0567661	E000M14
16	2.00	102	24	12.50	10.00	13	3	14.0		0567678	E000M16
18	2.50	112	29	14.00	11.20	14	4	15.5		0567685	E000M18
20	2.50	112	29	14.00	11.20	14	4	17.5		0567692	E000M20
22	2.50	118	29	16.00	12.50	16	4	19.5		0567708	E000M22
24	3.00	130	35	18.00	14.00	18	4	21.0		0567715	E000M24

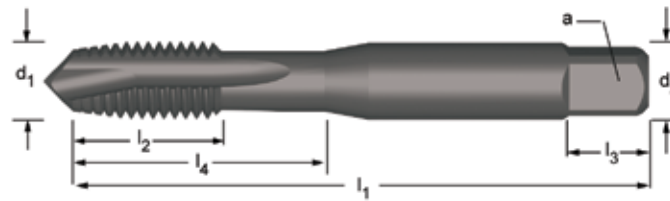
ISO

E001

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E001



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
1.6	0.35	41	7	2.50	2.00	4	3	1.25	7	0168790	E001M1.6
2	0.40	41	8	2.50	2.00	4	3	1.6	8	0168806	E001M2
2.5	0.45	44.5	9.5	2.80	2.24	5	3	2.05	9.5	0168813	E001M2.5
3	0.50	48	15	3.15	2.50	5	3	2.5	12.5	0567722	E001M3
3.5	0.60	50	16	3.55	2.80	5	3	2.9	14	0567739	E001M3.5
4	0.70	53	17	4.00	3.15	6	3	3.3	14	0567746	E001M4
5	0.80	58	11	5.00	4.00	7	3	4.2	22	0567753	E001M5
6	1.00	66	13	6.30	5.00	8	3	5.0	26	0567760	E001M6
7	1.00	66	13	7.10	5.60	8	3	6.0	26	0636183	E001M7
8	1.25	72	16	8.00	6.30	9	3	6.8	29	0567777	E001M8
10	1.50	80	18	10.00	8.00	11	3	8.5	34	0567784	E001M10
12	1.75	89	22	9.00	7.10	10	3	10.3		0567791	E001M12
14	2.00	95	24	11.20	9.00	12	3	12.0		0567807	E001M14
16	2.00	102	24	12.50	10.00	13	3	14.0		0567814	E001M16
18	2.50	112	29	14.00	11.20	14	4	15.5		0567821	E001M18
20	2.50	112	29	14.00	11.20	14	4	17.5		0567838	E001M20
22	2.50	118	29	16.00	12.50	16	4	19.5		0567845	E001M22
24	3.00	130	35	18.00	14.00	18	4	21.0		0567852	E001M24

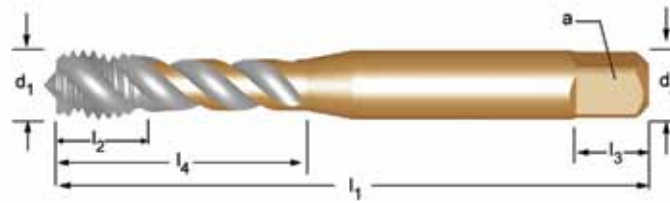
ISO

E002

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E002



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
2	0.40	41	8	2.50	2.00	4	3	1.6	8	0168820	E002M2
2.5	0.45	44.5	9.5	2.80	2.24	5	3	2.05	9.5	0168837	E002M2.5
3	0.50	48	6	3.15	2.50	5	3	2.5	12.5	0567869	E002M3
3.5	0.60	50	16	3.55	2.80	5	3	2.9	14	0567876	E002M3.5
4	0.70	53	7	4.00	3.15	6	3	3.3	19	0567883	E002M4
5	0.80	58	8	5.00	4.00	7	3	4.2	22	0567890	E002M5
6	1.00	66	10	6.30	5.00	8	3	5.0	27	0567906	E002M6
7	1.00	66	13	7.10	5.60	8	3	6	26	0636190	E002M7
8	1.25	72	12	8.00	6.30	9	3	6.8	31	0567913	E002M8
10	1.50	80	15	10.00	8.00	11	3	8.5	35	0567920	E002M10
12	1.75	89	16	9.00	7.10	10	3	10.3		0567937	E002M12
14	2.00	95	18	11.20	9.00	12	3	12.0		0567944	E002M14
16	2.00	102	18	12.50	10.00	13	4	14.0		0567951	E002M16
18	2.50	112	29	14.00	11.20	14	4	15.5		0567968	E002M18
20	2.50	112	29	14.00	11.20	14	4	17.5		0567975	E002M20
22	2.50	118	29	16.00	12.50	16	4	19.5		0567982	E002M22
24	3.00	130	35	18.00	14.00	18	4	21.0		0567999	E002M24

ISO

E003

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E003



- 1.1 1.2 1.3 1.4 1.5 2.1 2.2
- 2.3

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
2	0.40	41	8	2.50	2.00	4	3	1.6	8	0168844	E003M2
2.5	0.45	44.5	9.5	2.80	2.24	5	3	2.05	9.5	0168851	E003M2.5
3	0.50	48	6	3.15	2.50	5	3	2.5	12.5	0568002	E003M3
3.5	0.60	50	16	3.55	2.80	5	3	2.9	14	0568019	E003M3.5
4	0.70	53	7	4.00	3.15	6	3	3.3	19	0568026	E003M4
5	0.80	58	8	5.00	4.00	7	3	4.2	22	0568033	E003M5
6	1.00	66	10	6.30	5.00	8	3	5.0	27	0568040	E003M6
7	1.00	66	13	7.10	5.60	8	3	6	26	0636206	E003M7
8	1.25	72	12	8.00	6.30	9	3	6.8	31	0568057	E003M8
10	1.50	80	15	10.00	8.00	11	3	8.5	35	0568064	E003M10
12	1.75	89	16	9.00	7.10	10	3	10.3		0568071	E003M12
14	2.00	95	18	11.20	9.00	12	3	12.0		0568088	E003M14
16	2.00	102	18	12.50	10.00	13	4	14.0		0568095	E003M16
18	2.50	112	29	14.00	11.20	14	4	15.5		0568101	E003M18
20	2.50	112	29	14.00	11.20	14	4	17.5		0568118	E003M20
22	2.50	118	29	16.00	12.50	16	4	19.5		0568125	E003M22
24	3.00	130	35	18.00	14.00	18	4	21.0		0568132	E003M24

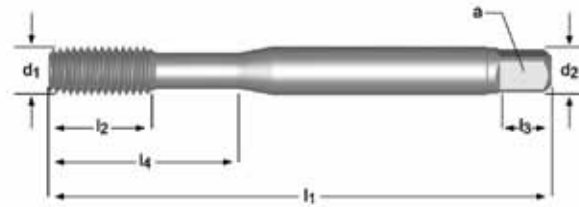
ISO

E301

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E301



• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
1	0.25	40	5.5	2.5	2.1	5	3	0.90	-	0583333	E301M1
1.2	0.25	40	5.5	2.5	2.1	5		1.10	-	0636831	E301M1.2
1.4	0.30	40	7	2.5	2.1	5		1.25	-	0636848	E301M1.4
1.6	0.35	40	8	2.5	2.1	5	3	1.45	-	0583340	E301M1.6
1.7	0.35	40	8	2.5	2.1	5		1.26	-	0636855	E301M1.7
1.8	0.35	40	8	2.5	2.1	5		1.65	-	0636862	E301M1.8
2	0.40	45	6	2.8	2.1	5	3	1.80	11	0583371	E301M2
2.2	0.45	45	7	2.8	2.1	5		2.00	12	0636879	E301M2.2
2.3	0.40	45	7	2.8	2.1	5		2.1	12	0636886	E301M2.3
2.5	0.45	50	8	2.8	2.1	5	3	2.30	14	0583388	E301M2.5
2.6	0.45	50	8	2.8	2.1	5		2.4	5	0636893	E301M2.6
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583395	E301M3
3.5	0.60	56	11	4.0	3.0	6	4	3.20	20	0583401	E301M3.5
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583418	E301M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583425	E301M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583432	E301M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583449	E301M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583357	E301M10
12	1.75	110	23	9.0	7.0	10	5	11.20	-	0583364	E301M12
16	2.00	110	25	12.0	9.0	12	8	15.10	-	0010105	E301M16
20	2.50	140	30	16.0	12.0	15	8	18.90	-	0010136	E301M20
24	3.00	160	36	18.0	14.5	17	8	22.7	-	0010167	E301M24

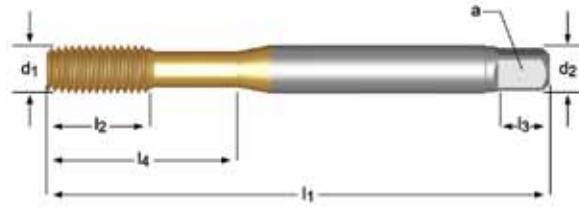
DIN

E302

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E302



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
1	0.25	40	5.5	2.5	2.1	5	3	0.90	-	0583456	E302M1
1.2	0.25	40	5.5	2.5	2.1	5	3	1.10	-	0636909	E302M1.2
1.4	0.30	40	7	2.5	2.1	5	3	1.25	-	0636916	E302M1.4
1.6	0.35	40	8	2.5	2.1	5	3	1.45	-	0583463	E302M1.6
1.7	0.35	40	8	2.5	2.1	5	3	1.55	-	0636923	E302M1.7
1.8	0.35	40	8	2.5	2.1	5	3	1.65	-	0636930	E302M1.8
2	0.40	45	6	2.8	2.1	5	3	1.80	11	0583494	E302M2
2.2	0.45	45	7	2.8	2.1	5	3	2.0	12	0636947	E302M2.2
2.3	0.40	45	7	2.8	2.1	5	3	2.1	12	0636954	E302m2.3
2.5	0.45	50	8	2.8	2.1	5	3	2.30	14	0583500	E302M2.5
2.6	0.45	50	8	2.8	2.1	5	3	2.4	5	0636961	E302M2.6
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583517	E302M3
3.5	0.60	56	11	4.0	3.0	6	4	3.20	20	0583524	E302M3.5
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583531	E302M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583548	E302M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583555	E302M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583562	E302M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583470	E302M10
12	1.75	110	23	9.0	7.0	10	5	11.20	-	0583487	E302M12
16	2.00	110	25	12.0	9.0	12	8	15.10	-	0010181	E302M16
20	2.50	140	30	16.0	12.0	15	8	18.9	-	0010211	E302M20
24	3.00	160	36	18.0	14.5	17	8	22.70	-	0010242	E302M24

DIN

E305

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E305



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583586	E305M3
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583593	E305M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583609	E305M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583616	E305M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583623	E305M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583579	E305M10

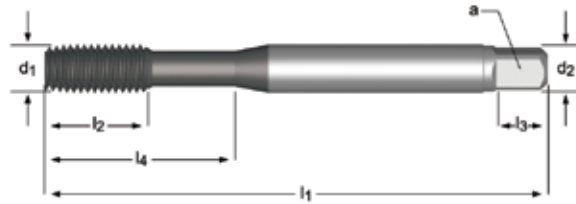
DIN

E306

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E306



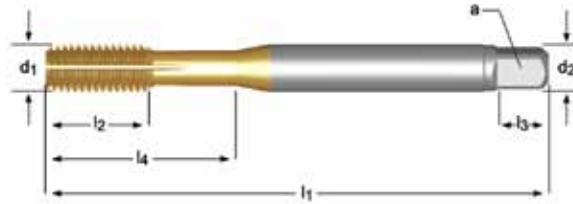
■	1.1	1.2	1.3	1.4	4.1	5.1	7.1	7.2	7.3
●	2.1	2.2	5.2	6.1	6.3	7.4			

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583654	E306M3
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583661	E306M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583678	E306M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583685	E306M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583692	E306M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583630	E306M10
12	1.75	110	23	9.0	7.0	10	5	11.20	-	0583647	E306M12

DIN

E308

- Machine Tap Spectrum™, oil grooves
- Spectrum™ Tarauds machine
- Spectrum™ Machos de máquina, con ranuras de lubricación



E308



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583746	E308M3
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583753	E308M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583760	E308M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583777	E308M6
7	1.00	80	15	7.0	5.5	8	5	6.50	30	0583784	E308M7
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583791	E308M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583708	E308M10
12	1.75	110	23	9.0	7.0	10	5	11.20	-	0583715	E308M12
14	2.00	110	25	11.0	9.0	12	6	13.00	-	0583722	E308M14
16	2.00	110	25	12.0	9.0	12	6	15.00	-	0583739	E308M16
20	2.50	140	30	16.0	12.0	15		18.90	-	0010259	E308M20
24	3.00	160	36	18.0	14.5	17		22.70	-	0010273	E308M24

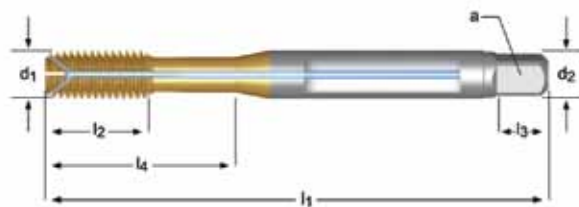
DIN

E315 / E309

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina

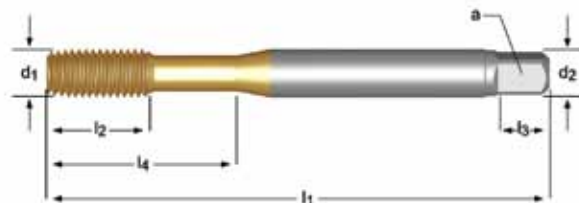


E315



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0584019	E315M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0584026	E315M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0584033	E315M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583999	E315M10
12	1.75	110	23	9.0	7.0	10	5	11.20	-	0584002	E315M12



E309



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

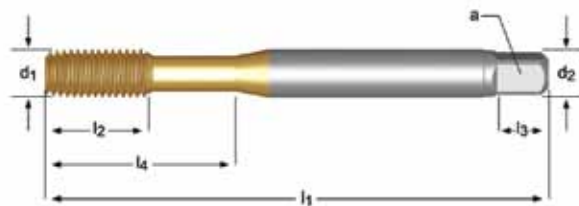
M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583821	E309M3
3.5	0.60	56	11	4.0	3.0	6	4	3.20	20	0583838	E309M3.5
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583845	E309M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583852	E309M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583869	E309M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583876	E309M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583807	E309M10
12	1.75	110	23	9.0	7.0	10	5	11.20	-	0583814	E309M12

E310 / E323

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E310



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	9	3.5	2.7	6	4	2.80	18	0583890	E310M3
4	0.70	63	12	4.5	3.4	6	5	3.70	21	0583906	E310M4
5	0.80	70	13	6.0	4.9	8	5	4.60	25	0583913	E310M5
6	1.00	80	15	6.0	4.9	8	5	5.50	30	0583920	E310M6
8	1.25	90	18	8.0	6.2	9	5	7.40	35	0583937	E310M8
10	1.50	100	20	10.0	8.0	11	5	9.30	39	0583883	E310M10



E323



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	63	12	4.5	3.4	6	4	3.40	21	0584125	E323M3
4	0.70	70	13	6.0	4.9	8	4	4.60	25	0584132	E323M4
5	0.80	80	15	6.0	4.9	8	4	5.70	30	0584149	E323M5
6	1.00	90	18	8.0	6.2	9	5	6.80	35	0584156	E323M6
8	1.25	100	20	10.0	8	11	5	9.10	39	0584163	E323M8
10	1.50	100	21	9.0	7	10	5	11.30	-	0584101	E323M10
12	1.75	110	25	11.0	9	12	6	13.50	-	0584118	E323M12

DIN

T115 / T116

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina

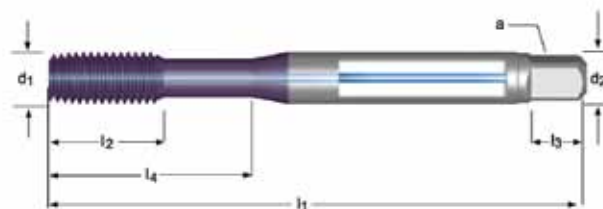


T115



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	5.1	7.1	7.2	7.3
•	2.4	5.2	6.1	6.3								

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	Flute Shape	l ₄ mm	EDP # or Stock No.	e-Code
3	0.50	56	10	3.5	2.7	6	2.8		0623299	T115M3 ¹⁾
4	0.70	63	13	4.5	3.4	6	3.7		0623305	T115M4 ¹⁾
5	0.80	70	16	6	4.9	8	4.6		0623312	T115M5 ¹⁾
6	1.00	80	19	6	4.9	8	5.5	30	0623329	T115M6
8	1.25	90	22	8	6.2	9	7.4	35	0623336	T115M8
10	1.50	100	24	10	8.0	11	9.3	39	0623343	T115M10



T116



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	5.1	7.1	7.2	7.3
•	2.4	5.2	6.1	6.3								

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	Flute Shape	l ₄ mm	EDP # or Stock No.	e-Code
5	0.80	70	16	6	4.9	8	4.6		0623350	T116M5
6	1.00	80	19	6	4.9	8	5.5	30	0623367	T116M6
8	1.25	90	22	8	6.2	9	7.4	35	0623374	T116M8
10	1.50	100	24	10	8.0	11	9.3	39	0623381	T116M10
12	1.75	110	23	9	7.0	10	11.2		0623398	T116M12

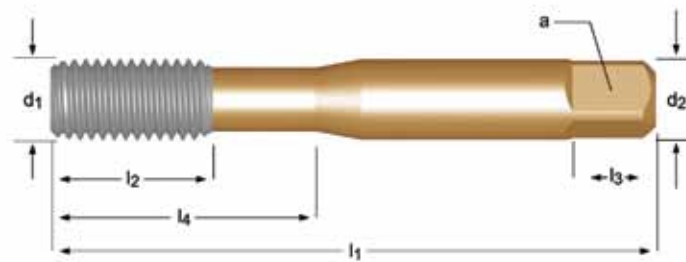
¹⁾ Without neck / sans détalonnage / Without neck

E090

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E090



• 1.1 1.2 1.3 1.4 7.1 7.2 7.3

M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	a mm	l_3 mm		l_4 mm	EDP # or Stock No.	e-Code
2	0.40	41	8	2.50	2.00	4	1.8	8	0599587	E090M2 ¹⁾
2.5	0.45	44.5	9.5	2.80	2.24	5	2.3	9.5	0599594	E090M2.5 ¹⁾
3	0.50	48	12.5	3.15	2.50	5	2.8	12.5	0599600	E090M3
3.5	0.60	50	14	3.55	2.80	5	3.2	14	0599617	E090M3.5
4	0.70	53	14	4.00	3.15	6	3.7	14	0599624	E090M4
5	0.80	58	11	5.00	4.00	7	4.6	22	0599631	E090M5
6	1.00	66	13	6.30	5.00	8	5.5	26	0599648	E090M6
8	1.25	72.0	16	8.00	6.30	9	7.4	29	0599655	E090M8
10	1.50	80.0	18	10.00	8.00	11	9.3	34	0599662	E090M10
12	1.75	89.0	22	9.00	7.10	10	11.2	-	0599679	E090M12
16	2.00	102.0	24	12.50	10.00	13	15.0	-	0599686	E090M16

ISO

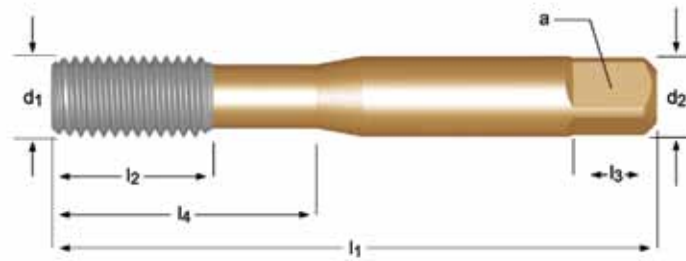
¹⁾ HSCo

E097

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E097



■	1.1	1.2	1.3	4.1	5.1	7.1	7.2	7.3
●	1.4	2.1	2.2	5.2	6.1	6.3	7.4	

M	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm		l ₄ mm	EDP # or Stock No.	e-Code
2	0.40	41	8	2.50	2.00	4	1.8	8	0599884	E097M2 ¹⁾
2.5	0.45	44.5	9.5	2.80	2.24	5	2.3	9.5	0599891	E097M2.5 ¹⁾
3	0.50	48	12.5	3.15	2.50	5	2.8	12.5	0599907	E097M3
4	0.70	53	14	4.00	3.15	6	3.7	14	0599914	E097M4
5	0.80	58	11	5.00	4.00	7	4.6	22	0599921	E097M5
6	1.00	66	13	6.30	5.00	8	5.5	26	0599938	E097M6
8	1.25	72.0	16	8.00	6.30	9	7.4	29	0599945	E097M8
10	1.50	80.0	18	10.00	8.00	11	9.3	34	0599952	E097M10
12	1.75	89.0	22	9.00	7.10	10	11.2		0599969	E097M12
16	2.00	102.0	24	12.50	10.00	13	15		0599976	E097M16

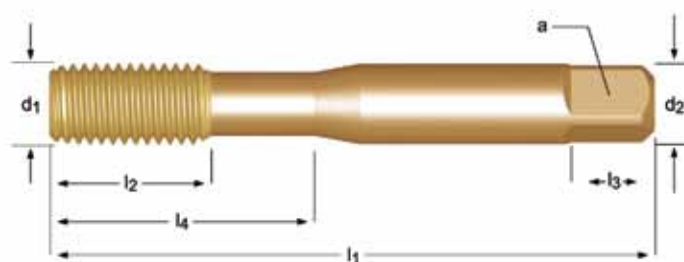
¹⁾ HSCo

E091

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E091



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	a mm	l_3 mm		l_4 mm	EDP # or Stock No.	e-Code
2	0.40	41	8	2.50	2.00	4	1.8	8	0599693	E091M2 ¹⁾
2.5	0.45	44.5	9.5	2.80	2.24	5	2.3	9.5	0599709	E091M2.5 ¹⁾
3	0.50	48	12.5	3.15	2.50	5	2.8	12.5	0599716	E091M3
3.5	0.60	50	14	3.55	2.80	5	3.2	14	0599723	E091M3.5
4	0.70	53	14	4.00	3.15	6	3.7	14	0599730	E091M4
5	0.80	58	11	5.00	4.00	7	4.6	22	0599747	E091M5
6	1.00	66	13	6.30	5.00	8	5.5	26	0599754	E091M6
8	1.25	72	16	8.00	6.30	9	7.4	29	0599761	E091M8
10	1.50	80	18	10.00	8.00	11	9.3	34	0599778	E091M10
12	1.75	89	22	9.00	7.10	10	11.2		0599785	E091M12
16	2.00	102	24	12.50	10.00	13	15		0599792	E091M16

¹⁾ HSCo

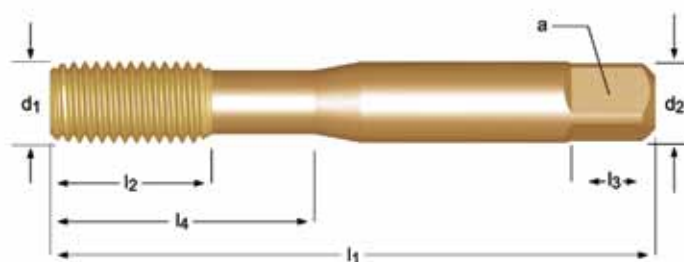
ISO

E098

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™
ISO 529

E098



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	a mm	l_3 mm		l_4 mm	EDP # or Stock No.	e-Code
3	0.50	48	12.5	3.15	2.50	5	2.8	12.5	0599983	E098M3
4	0.70	53	14	4.00	3.15	6	3.7	14	0599990	E098M4
5	0.80	58	11	5.00	4.00	7	4.6	22	0600009	E098M5
6	1.00	66	13	6.30	5.00	8	5.5	26	0600016	E098M6
8	1.25	72	16	8.00	6.30	9	7.4	29	0600023	E098M8
10	1.50	80	18	10.00	8.00	11	9.3	34	0600030	E098M10

ISO

E096

- Machine Tap Spectrum™, oil grooves
- Spectrum™ Tarauds machine
- Spectrum™ Machos de máquina, con ranuras de lubricación



E096



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	a mm	l_3 mm		l_4 mm	EDP # or Stock No.	e-Code
3	0.50	48	12.5	3.15	2.50	5	2.8	12.5	0599808	E096M3
4	0.70	53	14	4.00	3.15	6	3.7	14	0599815	E096M4
5	0.80	58	11	5.00	4.00	7	4.6	22	0599822	E096M5
6	1.00	66	13	6.30	5.00	8	5.5	26	0599839	E096M6
8	1.25	72	16	8.00	6.30	9	7.4	29	0599846	E096M8
10	1.50	80	18	10.00	8.00	11	9.3	34	0599853	E096M10
12	1.75	89	22	9.00	7.10	10	11.2		0599860	E096M12
16	2.00	102	24	12.50	10.00	13	15		0599877	E096M16

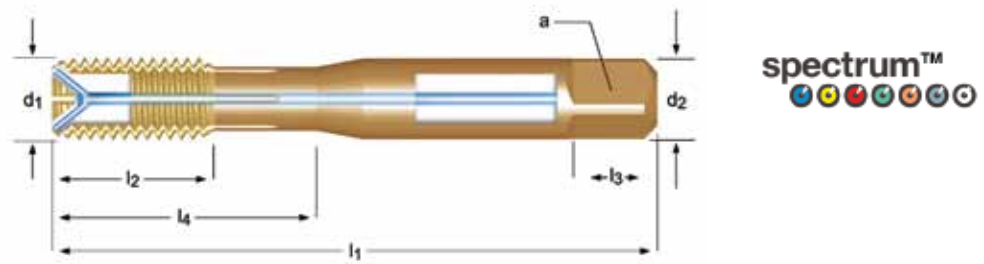
ISO

E099

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E099



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

M	P mm	l_1 mm	l_2 mm	d_2 Ø mm	a mm	l_3 mm	l_4 mm	EDP # or Stock No.	e-Code
4	0.70	53	14	4.00	3.15	6	3.7	0600047	E099M4
5	0.80	58	11	5.00	4.00	7	4.6	0600054	E099M5
6	1.00	66	13	6.30	5.00	8	5.5	0600061	E099M6
8	1.25	72	16	8.00	6.30	9	7.4	0600078	E099M8
10	1.50	80	18	10.00	8.00	11	9.3	0600085	E099M10
12	1.75	89	22	9.00	7.10	10	11.2	0600092	E099M12
16	2.00	102	24	12.50	10.00	13	15	0600108	E099M16

EP10

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



NEW

2010.09

EP10



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↕	EDP # or Stock No.	e-Code
4	0.50	63	12	2.8	2.1	5	3	3.5	0137345	EP10M4X.5
5	0.50	70	13	3.5	2.7	6	3	4.5	0137352	EP10M5X.5
6	0.75	80	15	4.5	3.4	6	3	5.3	0137369	EP10M6X.75
8	0.75	80	15	6.0	4.9	8	3	7.3	0137376	EP10M8X.75
8	1.00	90	18	6.0	4.9	8	3	7	0137383	EP10M8X1.0
10	0.75	90	18	7.0	5.5	8	3	9.3	0137390	EP10M10X.75
10	1.00	90	18	7.0	5.5	8	3	9	0137406	EP10M10X1.0
10	1.25	100	20	7.0	5.5	8	3	8.8	0137413	EP10M10X1.25
12	1.00	100	21	9.0	7.0	10	3	11	0137420	EP10M12X1.0
12	1.25	100	21	9.0	7.0	10	3	10.8	0137437	EP10M12X1.25
12	1.50	100	21	9.0	7.0	10	3	10.5	0137444	EP10M12X1.5
14	1.00	100	21	11.0	9.0	12	3	13	0137451	EP10M14X1.0
14	1.25	100	21	11.0	9.0	12	3	13	0137468	EP10M14X1.25
14	1.50	100	21	11.0	9.0	12	3	12.5	0137475	EP10M14X1.5
16	1.00	100	21	12.0	9.0	12	3	15	0137482	EP10M16X1.0
16	1.50	100	21	12.0	9.0	12	3	14.5	0137499	EP10M16X1.5
18	1.00	110	24	14.0	11.0	14	4	17	0137505	EP10M18X1.0
18	1.50	110	24	14.0	11.0	14	4	16.5	0137512	EP10M18X1.5 ¹⁾
20	1.00	125	24	16.0	12.0	15	4	19	0137529	EP10M20X1.0 ¹⁾
20	1.50	125	24	16.0	12.0	15	4	18.5	0137536	EP10M20X1.5 ¹⁾
22	1.50	125	25	18.0	14.5	17	4	20.5	0137543	EP10M22X1.5 ¹⁾
24	1.50	140	28	18.0	14.5	17	4	22.5	0137550	EP10M24X1.5 ¹⁾
24	2.00	140	28	18.0	14.5	17	4	22	0137567	EP10M24X2.0 ¹⁾
25	1.50	140	28	18.0	14.5	17	4	23.5	0137574	EP10M25X1.5 ¹⁾
26	1.50	140	28	18.0	14.5	17	4	24.5	0137581	EP10M26X1.5 ¹⁾
27	1.50	140	28	20.0	16.0	19	4	25.5	0137598	EP10M27X1.5 ¹⁾
27	2.00	140	28	20.0	16.0	19	4	25	0137604	EP10M27X2.0 ¹⁾
28	1.50	140	28	20.0	16.0	19	4	26.5	0137611	EP10M28X1.5 ¹⁾
30	1.50	150	28	22.0	18.0	21	4	28.5	0137628	EP10M30X1.5 ¹⁾
30	2.00	150	28	22.0	18.0	21	4	28	0137635	EP10M30X2.0 ¹⁾

¹⁾ HSCo

EP11

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™

NEW

2010.09

EP11

MF

HSS
XS1

ST

DIN
374



6H

2.5xD

B
3.5 - 5



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
4	0.50	63	12	2.8	2.1	5	3	3.5	0137642	EP11M4X.5
5	0.50	70	13	3.5	2.7	6	3	4.5	0137659	EP11M5X.5
6	0.75	80	15	4.5	3.4	6	3	5.3	0137666	EP11M6X.75
8	0.75	80	15	6.0	4.9	8	3	7.3	0137673	EP11M8X.75
8	1.00	90	18	6.0	4.9	8	3	7	0137680	EP11M8X1.0
10	0.75	90	18	7.0	5.5	8	3	9.3	0137697	EP11M10X.75
10	1.00	90	18	7.0	5.5	8	3	9	0137703	EP11M10X1.0
10	1.25	100	20	7.0	5.5	8	3	8.8	0137710	EP11M10X1.25
12	1.00	100	21	9.0	7.0	10	3	11	0137727	EP11M12X1.0
12	1.25	100	21	9.0	7.0	10	3	10.8	0137819	EP11M12X1.25
12	1.50	100	21	9.0	7.0	10	3	10.5	0137826	EP11M12X1.5
14	1.00	100	21	11.0	9.0	12	3	13	0137833	EP11M14X1.0
14	1.25	100	21	11.0	9.0	12	3	13	0137840	EP11M14X1.25
14	1.50	100	21	11.0	9.0	12	3	12.5	0137857	EP11M14X1.5
16	1.00	100	21	12.0	9.0	12	3	15	0137864	EP11M16X1.0
16	1.50	100	21	12.0	9.0	12	3	14.5	0137871	EP11M16X1.5
18	1.00	110	24	14.0	11.0	14	4	17	0137888	EP11M18X1.0
18	1.50	110	24	14.0	11.0	14	4	16.5	0137895	EP11M18X1.5 ¹⁾
20	1.00	125	24	16.0	12.0	15	4	19	0137901	EP11M20X1.0 ¹⁾
20	1.50	125	24	16.0	12.0	15	4	18.5	0137918	EP11M20X1.5 ¹⁾
22	1.50	125	25	18.0	14.5	17	4	20.5	0137925	EP11M22X1.5 ¹⁾
24	1.50	140	28	18.0	14.5	17	4	22.5	0137932	EP11M24X1.5 ¹⁾
24	2.00	140	28	18.0	14.5	17	4	22	0137949	EP11M24X2.0 ¹⁾
25	1.50	140	28	18.0	14.5	17	4	23.5	0137956	EP11M25X1.5 ¹⁾
26	1.50	140	28	18.0	14.5	17	4	24.5	0137963	EP11M26X1.5 ¹⁾
27	1.50	140	28	20.0	16.0	19	4	25.5	0137970	EP11M27X1.5 ¹⁾
27	2.00	140	28	20.0	16.0	19	4	25	0137987	EP11M27X2.0 ¹⁾
28	1.50	140	28	20.0	16.0	19	4	26.5	0137994	EP11M28X1.5 ¹⁾
30	1.50	150	28	22.0	18.0	21	4	28.5	0138007	EP11M30X1.5 ¹⁾
30	2.00	150	28	22.0	18.0	21	4	28	0138014	EP11M30X2.0 ¹⁾

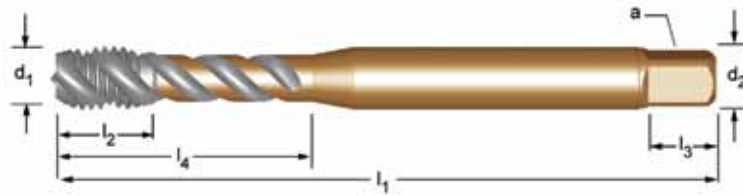
¹⁾ HSCo

EX10

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™

NEW

2010.09

EX10



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2					

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
4	0.50	63	7	2.8	2.1	5	3	3.5	0149669	EX10M4X.50
5	0.50	70	8	3.5	2.7	6	3	4.5	0149676	EX10M5X.50
6	0.75	80	10	4.5	3.4	6	3	5.3	0149683	EX10M6X.75
8	0.75	80	13	6.0	4.9	8	3	7.3	0149690	EX10M8X.75
8	1.00	90	13	6.0	4.9	8	3	7	0149706	EX10M8X1.0
10	0.75	90	13	7.0	5.5	8	3	9.3	0149713	EX10M10X.75
10	1.00	90	13	7.0	5.5	8	3	9	0149720	EX10M10X1.0
10	1.25	100	15	7.0	5.5	8	3	8.8	0149737	EX10M10X1.25
12	1.00	100	15	9.0	7.0	10	3	11	0149744	EX10M12X1.0
12	1.25	100	15	9.0	7.0	10	3	10.8	0149751	EX10M12X1.25
12	1.50	100	15	9.0	7.0	10	3	10.5	0149768	EX10M12X1.5
14	1.00	100	15	11.0	9.0	12	3	13	0149775	EX10M14X1.0
14	1.25	100	15	11.0	9.0	12	3	12.8	0149782	EX10M14X1.25
14	1.50	100	15	11.0	9.0	12	3	12.5	0149799	EX10M14X1.5
16	1.00	100	15	12.0	9.0	12	4	15	0149805	EX10M16X1.0
16	1.50	100	15	12.0	9.0	12	4	14.5	0149812	EX10M16X1.5
18	1.00	110	17	14.0	11.0	14	4	17	0149829	EX10M18X1.0 ¹⁾
18	1.50	110	17	14.0	11.0	14	4	16.5	0149836	EX10M18X1.5 ¹⁾
20	1.00	125	17	16.0	12.0	15	4	19	0149843	EX10M20X1.0 ¹⁾
20	1.50	125	17	16.0	12.0	15	4	18.5	0149850	EX10M20X1.5 ¹⁾
22	1.50	125	17	18.0	14.5	17	4	20.5	0149867	EX10M22X1.5 ¹⁾
24	1.50	140	20	18.0	14.5	17	4	22.5	0149874	EX10M24X1.5 ¹⁾
24	2.00	140	20	18.0	14.5	17	4	22	0149881	EX10M24X2.0 ¹⁾
25	1.50	140	20	18.0	14.5	17	4	23.5	0149898	EX10M25X1.5 ¹⁾
26	1.50	140	20	18.0	14.5	17	4	24.5	0149904	EX10M26X1.5 ¹⁾
27	1.50	140	20	20.0	16.0	19	4	25.5	0149911	EX10M27X1.5 ¹⁾
27	2.00	140	20	20.0	16.0	19	4	25	0149928	EX10M27X2.0 ¹⁾
28	1.50	140	20	20.0	16.0	19	4	26.5	0149935	EX10M28X1.5 ¹⁾
30	1.50	150	20	22.0	18.0	21	4	28.5	0149942	EX10M30X1.5 ¹⁾
30	2.00	150	20	22.0	18.0	21	4	28	0149959	EX10M30X2.0 ¹⁾

¹⁾ HSCo

EX11

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



spectrum™

NEW

2010.09

EX11



■ 1.1 1.2 1.3 1.4 1.5 2.1 2.2
● 2.3

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		EDP # or Stock No.	e-Code
4	0.50	63	7	2.8	2.1	5	3	3.5	0149966	EX11M4X.50
5	0.50	70	8	3.5	2.7	6	3	4.5	0149973	EX11M5X.50
6	0.75	80	10	4.5	3.4	6	3	5.3	0149980	EX11M6X.75
8	0.75	80	13	6.0	4.9	8	3	7.3	0149997	EX11M8X.75
8	1.00	90	13	6.0	4.9	8	3	7	0150009	EX11M8X1.0
10	0.75	90	13	7.0	5.5	8	3	9.3	0150016	EX11M10X.75
10	1.00	90	13	7.0	5.5	8	3	9	0150023	EX11M10X1.0
10	1.25	100	15	7.0	5.5	8	3	8.8	0150030	EX11M10X1.25
12	1.00	100	15	9.0	7.0	10	3	11	0150047	EX11M12X1.0
12	1.25	100	15	9.0	7.0	10	3	10.8	0150054	EX11M12X1.25
12	1.50	100	15	9.0	7.0	10	3	10.5	0150061	EX11M12X1.5
14	1.00	100	15	11.0	9.0	12	3	13	0150078	EX11M14X1.0
14	1.25	100	15	11.0	9.0	12	3	12.8	0150085	EX11M14X1.25
14	1.50	100	15	11.0	9.0	12	3	12.5	0150092	EX11M14X1.5
16	1.00	100	15	12.0	9.0	12	4	15	0150108	EX11M16X1.0
16	1.50	100	15	12.0	9.0	12	4	14.5	0150115	EX11M16X1.5
18	1.00	110	17	14.0	11.0	14	4	17	0150122	EX11M18X1.0 ¹⁾
18	1.50	110	17	14.0	11.0	14	4	16.5	0150139	EX11M18X1.5 ¹⁾
20	1.00	125	17	16.0	12.0	15	4	19	0150146	EX11M20X1.0 ¹⁾
20	1.50	125	17	16.0	12.0	15	4	18.5	0150153	EX11M20X1.5 ¹⁾
22	1.50	125	17	18.0	14.5	17	4	20.5	0150160	EX11M22X1.5 ¹⁾
24	1.50	140	20	18.0	14.5	17	4	22.5	0150177	EX11M24X1.5 ¹⁾
24	2.00	140	20	18.0	14.5	17	4	22	0150184	EX11M24X2.0 ¹⁾
25	1.50	140	20	18.0	14.5	17	4	23.5	0150191	EX11M25X1.5 ¹⁾
26	1.50	140	20	18.0	14.5	17	4	24.5	0150207	EX11M26X1.5 ¹⁾
27	1.50	140	20	20.0	16.0	19	4	25.5	0150214	EX11M27X1.5 ¹⁾
27	2.00	140	20	20.0	16.0	19	4	25	0150221	EX11M27X2.0 ¹⁾
28	1.50	140	20	20.0	16.0	19	4	26.5	0150238	EX11M28X1.5 ¹⁾
30	1.50	150	20	22.0	18.0	21	4	28.5	0150245	EX11M30X1.5 ¹⁾
30	2.00	150	20	22.0	18.0	21	4	28	0150252	EX11M30X2.0 ¹⁾

¹⁾ HSCo

E010

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E010



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	l ₄ mm	EDP # or Stock No.	e-Code
4	0.50	53	17	4.00	3.15	6	3	3.5	14	0568149	E010M4X.5
5	0.50	58	11	5.00	4.00	7	3	4.5	22	0568156	E010M5X.5
6	0.50	66	13	6.30	5.00	8	3	5.5	26	0568163	E010M6X.5
6	0.75	66	13	6.30	5.00	8	3	5.3	26	0568170	E010M6X.75
8	0.75	72	16	8.00	6.30	9	3	7.3	29	0568187	E010M8X.75
8	1.00	72	16	8.00	6.30	9	3	7.0	29	0568194	E010M8X1.0
10	1.00	80	18	10.00	8.00	11	3	9.0	34	0568200	E010M10X1.0
10	1.25	80	18	10.00	8.00	11	3	8.8	34	0568217	E010M10X1.25
12	1.00	89	22	9.00	7.10	10	3	11.0		0568224	E010M12X1.0
12	1.25	89	22	9.00	7.10	10	3	10.8		0568231	E010M12X1.25
12	1.50	89	22	9.00	7.10	10	3	10.5		0568248	E010M12X1.5
14	1.00	95	24	11.20	9.00	12	3	13.0		0568255	E010M14X1.0
14	1.25	95	24	11.20	9.00	12	3	12.8		0568262	E010M14X1.25
14	1.50	95	24	11.20	9.00	12	3	12.5		0568279	E010M14X1.5
16	1.00	102	24	12.50	10.00	13	3	15.0		0568286	E010M16X1.0
16	1.50	102	24	12.50	10.00	13	3	14.5		0568293	E010M16X1.5
18	1.00	112	29	14.00	11.20	14	4	17.0		0568309	E010M18X1.0
18	1.50	112	29	14.00	11.20	14	4	16.5		0568316	E010M18X1.5
20	1.00	112	29	14.00	11.20	14	4	19.0		0568323	E010M20X1.0
20	1.50	112	29	14.00	11.20	14	4	18.5		0568330	E010M20X1.5
20	2.00	112	29	14.00	11.20	14	4	18.0		0568347	E010M20X2.0
22	1.50	118	29	16.00	12.50	16	4	20.5		0568354	E010M22X1.5
24	1.50	130	35	18.00	14.00	18	4	22.5		0568361	E010M24X1.5
24	2.00	130	35	18.00	14.00	18	4	22.0		0568378	E010M24X2.0

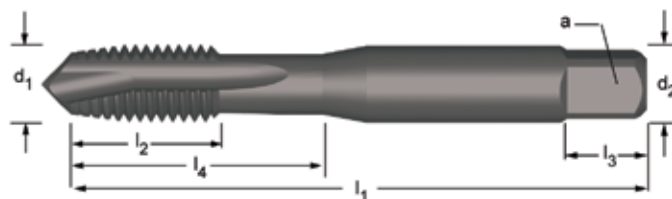
ISO

E011

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E011



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

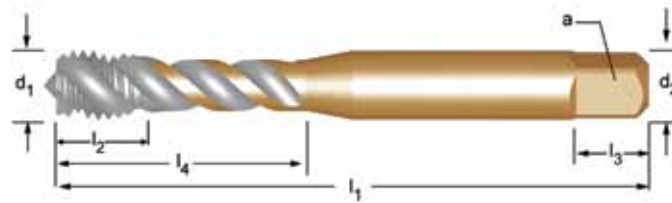
MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
4	0.50	53	17	4.00	3.15	6	3	3.5	14	0568385	E011M4X.5
5	0.50	58	11	5.00	4.00	7	3	4.5	22	0568392	E011M5X.5
6	0.50	66	13	6.30	5.00	8	3	5.5	26	0568408	E011M6X.5
6	0.75	66	13	6.30	5.00	8	3	5.3	26	0568415	E011M6X.75
8	0.75	72	16	8.00	6.30	9	3	7.3	29	0568422	E011M8X.75
8	1.00	72	16	8.00	6.30	9	3	7.0	29	0568439	E011M8X1.0
10	1.00	80	18	10.00	8.00	11	3	9.0	34	0568446	E011M10X1.0
10	1.25	80	18	10.00	8.00	11	3	8.8	34	0568453	E011M10X1.25
12	1.00	89	22	9.00	7.10	10	3	11.0		0568460	E011M12X1.0
12	1.25	89	22	9.00	7.10	10	3	10.8		0568477	E011M12X1.25
12	1.50	89	22	9.00	7.10	10	3	10.5		0568484	E011M12X1.5
14	1.00	95	24	11.20	9.00	12	3	13.0		0568491	E011M14X1.0
14	1.25	95	24	11.20	9.00	12	3	12.8		0568507	E011M14X1.25
14	1.50	95	24	11.20	9.00	12	3	12.5		0568514	E011M14X1.5
16	1.00	102	24	12.50	10.00	13	3	15.0		0568521	E011M16X1.0
16	1.50	102	24	12.50	10.00	13	3	14.5		0568538	E011M16X1.5
18	1.00	112	29	14.00	11.20	14	4	17.0		0568545	E011M18X1.0
18	1.50	112	29	14.00	11.20	14	4	16.5		0568552	E011M18X1.5
20	1.00	112	29	14.00	11.20	14	4	19.0		0568569	E011M20X1.0
20	1.50	112	29	14.00	11.20	14	4	18.5		0568576	E011M20X1.5
20	2.00	112	29	14.00	11.20	14	4	18.0		0568583	E011M20X2.0
22	1.50	118	29	16.00	12.50	16	4	20.5		0568590	E011M22X1.5
24	1.50	130	35	18.00	14.00	18	4	22.5		0568606	E011M24X1.5
24	2.00	130	35	18.00	14.00	18	4	22.0		0568613	E011M24X2.0

E012

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E012



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2	8.1				

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	flute length	l ₄ mm	EDP # or Stock No.	e-Code
4	0.50	53	7	4.0	3.15	6	3	3.5	19	0568620	E012M4X.5
5	0.50	58	8	5.0	4.0	7	3	4.5	22	0568637	E012M5X.5
6	0.50	66	10	6.3	5.0	8	3	5.5	27	0568644	E012M6X.5
6	0.75	66	10	6.3	5.0	8	3	5.3	27	0568651	E012M6X.75
8	0.75	72	12	8.0	6.3	9	3	7.3	31	0568668	E012M8X.75
8	1.00	72	12	8.0	6.3	9	3	7.0	31	0568675	E012M8X1.0
10	1.00	80	15	10.0	8.0	11	3	9.0	35	0568682	E012M10X1.0
10	1.25	80	15	10.0	8.0	11	3	8.8	35	0568699	E012M10X1.25
12	1.00	89	16	9.0	7.1	10	3	11.0		0568705	E012M12X1.0
12	1.25	89	16	9.0	7.1	10	3	10.8		0568712	E012M12X1.25
12	1.50	89	16	9.0	7.1	10	3	10.5		0568729	E012M12X1.5
14	1.50	95	18	11.2	9.0	12	3	12.5		0568736	E012M14X1.5
16	1.00	102	18	12.5	10.0	13	4	15.0		0568743	E012M16X1.0
16	1.50	102	18	12.5	10.0	13	4	14.5		0568750	E012M16X1.5
18	1.50	112	29	14.0	11.2	14	4	16.5		0568767	E012M18X1.5
20	1.50	112	29	14.0	11.2	14	4	18.5		0568774	E012M20X1.5
22	1.50	118	29	16.0	12.5	16	4	20.5		0568781	E012M22X1.5

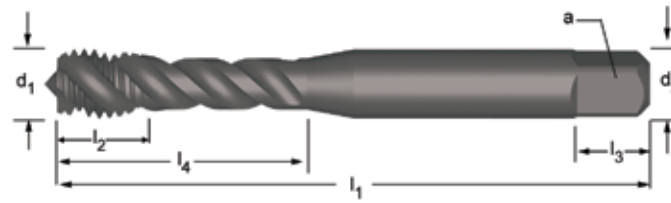
ISO

E013

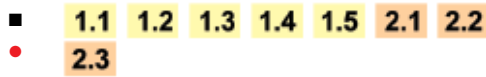
• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E013



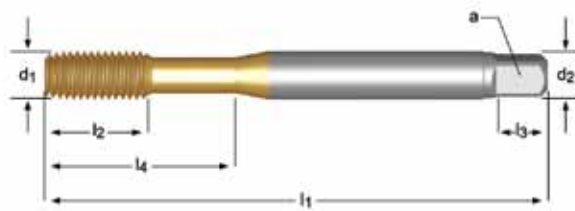
MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
4	0.50	53	7	4.0	3.15	6	3	3.5	19	0568798	E013M4X.5
5	0.50	58	8	5.0	4.0	7	3	4.5	22	0568804	E013M5X.5
6	0.50	66	10	6.3	5.0	8	3	5.5	27	0568811	E013M6X.5
6	0.75	66	10	6.3	5.0	8	3	5.3	27	0568828	E013M6X.75
8	0.75	72	12	8.0	6.3	9	3	7.3	31	0568835	E013M8X.75
8	1.00	72	12	8.0	6.3	9	3	7.0	31	0568842	E013M8X1.0
10	1.00	80	15	10.0	8.0	11	3	9.0	35	0568859	E013M10X1.0
10	1.25	80	15	10.0	8.0	11	3	8.8	35	0568866	E013M10X1.25
12	1.00	89	16	9.0	7.1	10	3	11.0		0568873	E013M12X1.0
12	1.25	89	16	9.0	7.1	10	3	10.8		0568880	E013M12X1.25
12	1.50	89	16	9.0	7.1	10	3	10.5		0568897	E013M12X1.5
14	1.50	95	18	11.2	9.0	12	3	12.5		0568903	E013M14X1.5
16	1.00	102	18	12.5	10.0	13	4	15.0		0568910	E013M16X1.0
16	1.50	102	18	12.5	10.0	13	4	14.5		0568927	E013M16X1.5
18	1.50	112	29	14.0	11.2	14	4	16.5		0568934	E013M18X1.5
20	1.50	112	29	14.0	11.2	14	4	18.5		0568941	E013M20X1.5
22	1.50	118	29	16.0	12.5	16	4	20.5		0568958	E013M22X1.5

E317

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E317



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		l ₄ mm	EDP # or Stock No.	e-Code
5	0.50	70	13	6.0	4.9	8	5	4.80	25	0584064	E317M5X0.5
6	0.75	80	15	6.0	4.9	8	5	5.70	30	0584071	E317M6X0.75
7	0.75	80	15	7.0	5.5	8	5	6.70	30	0584088	E317M7X0.75
8	1.00	90	18	8.0	6.2	9	5	7.50	35	0584095	E317M8X1
10	1.00	100	20	10.0	8.0	11	5	9.50	39	0584040	E317M10X1
10	1.25	100	20	10.0	8.0	11	5	9.40	39	0584057	E317M10X1.25

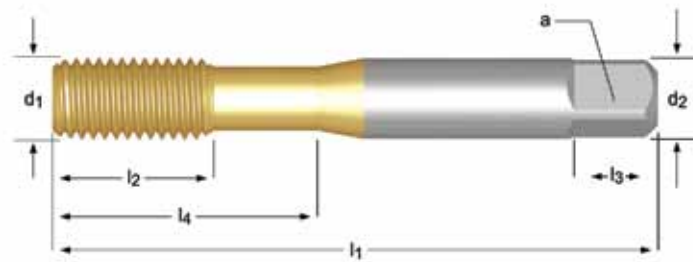
DIN

E564

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E564



■	1.1	1.2	1.3	1.4	2.1	2.2	4.1	5.1	7.3
●	1.5	2.3	5.2	6.1	6.3	7.1	7.2	7.4	

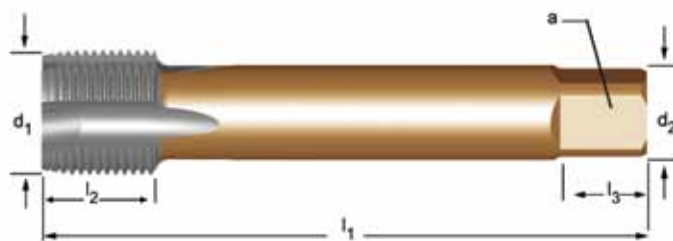
MF	P mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	↔	l ₄ mm	EDP # or Stock No.	e-Code
5	0.50	58	11	5.00	4.00	7	4.8	22	0161715	E564M5X.5
6	0.75	66	13	6.30	5.00	8	5.7	26	0161722	E564M6X.75
8	0.75	72	16	8.00	6.30	9	7.7	29	0161739	E564M8X.75
8	1.00	72	16	8.00	6.30	9	7.5	29	0161746	E564M8X1.0
10	1.00	80	18	10.00	8.00	11	9.5	34	0161753	E564M10X1.0
10	1.25	80	18	10.00	8.00	11	9.4	34	0161760	E564M10X1.25
12	1.00	89	22	9.00	7.10	10	11.5		0161777	E564M12X1.0
12	1.25	89	22	9.00	7.10	10	11.4		0161784	E564M12X1.25
12	1.50	89	22	9.00	7.10	10	11.3		0161791	E564M12X1.5
14	1.00	95	24	11.20	9.00	12	13.5		0161807	E564M14X1.0
14	1.25	95	24	11.20	9.00	12	13.4		0161814	E564M14X1.25
14	1.50	95	24	11.20	9.00	12	13.3		0161821	E564M14X1.5
16	1.50	102	24	12.50	10.00	13	15.25		0161845	E564M16X1.5

EP40

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



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2010.09

EP40



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
1/8	28	9.728	90	18	7	5.5	8	3	8.8	0138588	EP401/8
1/4	19	13.157	100	21	11	9.0	12	3	11.8	0138595	EP401/4
3/8	19	16.662	100	21	12	9.0	12	4	15.25	0138601	EP403/8
1/2	14	20.955	125	24	16	12.0	15	4	19	0138618	EP401/2
5/8	14	22.911	125	24	18	14.5	17	4	21	0138625	EP405/8
3/4	14	26.441	140	28	20	16.0	19	4	24.5	0138632	EP403/4
7/8	14	30.201	150	28	22	18.0	21	4	28.25	0138649	EP407/8
1	11	33.249	160	30	25	20.0	23	4	30.75	0138656	EP401

DIN

EP41

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



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NEW

2010.09

EP41



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
1/8	28	9.728	90	18	7	5.5	8	3	8.8	0138663	EP411/8
1/4	19	13.157	100	21	11	9.0	12	3	11.8	0138670	EP411/4
3/8	19	16.662	100	21	12	9.0	12	4	15.25	0138687	EP413/8
1/2	14	20.955	125	24	16	12.0	15	4	19	0138694	EP411/2
5/8	14	22.911	125	24	18	14.5	17	4	21	0138700	EP415/8
3/4	14	26.441	140	28	20	16.0	19	4	24.5	0147054	EP413/4
7/8	14	30.201	150	28	22	18.0	21	4	28.25	0149645	EP417/8
1	11	33.249	160	30	25	20.0	23	4	30.75	0149652	EP411

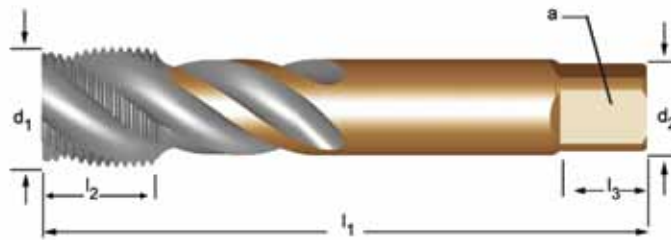
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EX40

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



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2010.09

EX40



■	1.1	1.2	1.3	1.4	1.5	7.1	7.2	7.3	7.4
●	4.1	4.2	5.1	5.2	8.1				

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	□ a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
1/8	28	9.728	90	13	7	5.5	8	3	8.8	0168547	EX401/8
1/4	19	13.157	100	15	11	9.0	12	3	11.8	0168554	EX401/4
3/8	19	16.662	100	15	12	9.0	12	4	15.25	0168561	EX403/8
1/2	14	20.955	125	18	16	12.0	15	4	19	0168578	EX401/2
5/8	14	22.911	125	18	18	14.5	17	4	21	0168585	EX405/8
3/4	14	26.441	140	20	20	16.0	19	4	24.5	0168592	EX403/4
7/8	14	30.201	150	20	22	18.0	21	4	28.25	0168608	EX407/8
1	11	33.249	160	22	25	20.0	23	4	30.75	0168615	EX401
1.1/8	11	37.897	170	22	28	22.0	25	4	35	0168622	EX401.1/8
1.1/4	11	41.910	170	22	32	24.0	27	4	39.5	0168639	EX401.1/4
1.1/2	11	47.803	190	23	36	29.0	32	4	45	0168646	EX401.1/2

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EX41



■ 1.1 1.2 1.3 1.4 1.5 2.1 2.2
● 1.6 2.3

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
1/8	28	9.728	90	13	7	5.5	8	3	8.8	0168653	EX411/8
1/4	19	13.157	100	15	11	9.0	12	3	11.8	0168660	EX411/4
3/8	19	16.662	100	15	12	9.0	12	4	15.25	0168677	EX413/8
1/2	14	20.955	125	18	16	12.0	15	4	19	0168684	EX411/2
5/8	14	22.911	125	18	18	14.5	17	4	21	0168691	EX415/8
3/4	14	26.441	140	20	20	16.0	19	4	24.5	0168707	EX413/4
7/8	14	30.201	150	20	22	18.0	21	4	28.25	0168714	EX417/8
1	11	33.249	160	22	25	20.0	23	4	30.75	0168721	EX411
1.1/8	11	37.897	170	22	28	22.0	25	4	35	0168738	EX411.1/8
1.1/4	11	41.910	170	22	32	24.0	27	4	39.5	0168745	EX411.1/4
1.1/2	11	47.803	190	23	36	29.0	32	4	45	0168752	EX411.1/2

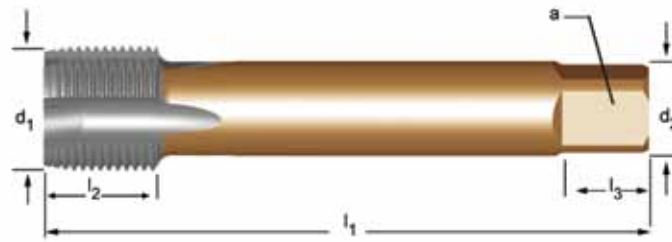
DIN

E040

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E040



■	1.1	1.2	1.3	1.4	1.5	6.1	6.3	7.1	7.2	7.3	7.4
●	1.6	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.2	8.1

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	Flute Length	EDP # or Stock No.	e-Code
1/8	28	9.728	90	15	8	6.3	9	3	8.80	0569764	E0401/8
1/4	19	13.157	100	19	10	8	11	3	11.80	0569771	E0401/4
3/8	19	16.662	100	21	12.5	10	13	3	15.25	0569788	E0403/8
1/2	14	20.955	125	26	16	12.5	16	4	19.00	0569795	E0401/2
3/4	14	26.441	140	28	20	16	20	4	24.50	0569801	E0403/4

Dormer/ISO

E041

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E041

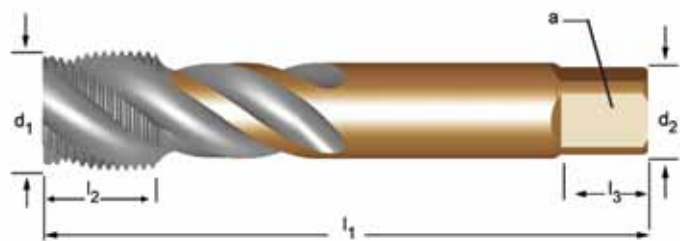


■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3	3.1	3.2	3.3	3.4	

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
1/8	28	9.728	90	15	8	6.3	9	3	8.80	0569818	E0411/8
1/4	19	13.157	100	19	10	8	11	3	11.80	0569825	E0411/4
3/8	19	16.662	100	21	12.5	10	13	3	15.25	0569832	E0413/8
1/2	14	20.955	125	26	16	12.5	16	4	19.00	0569849	E0411/2
3/4	14	26.441	140	28	20	16	20	4	24.50	0569856	E0413/4

E042

- Machine Tap Spectrum™
- Spectrum™ Tarauds machine
- Spectrum™ Machos de máquina



E042

G

HSS
XS1

Gold

ISO

NORMAL

2.5xD

C
2 - 3

■

1.1

1.2

1.3

1.4

1.5

7.1

7.2

7.3

7.4

●

4.1

4.2

5.1

5.2

8.1

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z		EDP # or Stock No.	e-Code
1/8	28	9.728	90	15	8	6.3	9	3	8.80	0569863	E0421/8
1/4	19	13.157	100	19	10	8	11	3	11.80	0569870	E0421/4
3/8	19	16.662	100	21	12.5	10	13	4	15.25	0569887	E0423/8
1/2	14	20.955	125	26	16	12.5	16	4	19.00	0569894	E0421/2
3/4	14	26.441	140	28	20	16	20	4	24.50	0569900	E0423/4

Dormer/ISO

E043

• Machine Tap Spectrum™

• Spectrum™ Tarauds machine

• Spectrum™ Machos de máquina



E043



■	1.1	1.2	1.3	1.4	1.5	2.1	2.2
●	1.6	2.3					

G(BSP)	TPI	d ₁ nom mm	l ₁ mm	l ₂ mm	d ₂ Ø mm	a mm	l ₃ mm	z	↔	EDP # or Stock No.	e-Code
1/8	28	9.728	90	15	8	6.3	9	3	8.80	0569917	E0431/8
1/4	19	13.157	100	19	10	8	11	3	11.80	0569924	E0431/4
3/8	19	16.662	100	21	12.5	10	13	4	15.25	0569931	E0433/8
1/2	14	20.955	125	26	16	12.5	16	4	19.00	0569948	E0431/2
3/4	14	26.441	140	28	20	16	20	4	24.50	0569955	E0433/4



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