



THREAD LINE

THREAD LINE INDEX

Code Código	40.1040	40.1046	40.1050	40.1060	40.1066	40.1140	40.1160	40.1240
								
Page Página	270	271	272	273	274	275	276	277
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
Ø Range Diámetro (mm)	3 - 10	12 - 20	3 - 10	3 - 10	12 - 36	4 - 20	4 - 20	1/8 - 1"
Thread Style Tipo de Rosca	M	M	M	M	M	MF	MF	GAS/ BSP
Coating Recubrimiento	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA
Form Forma	B	B	E	C	C	B	C	B
Tolerance Tolerancia	6H	6H	6H	6H	6H	6H	6H	-
Norm Norma	DIN 371	DIN 376	DIN 371	DIN 371	DIN 376	DIN 374	DIN 374	DIN 5156
Through Hole Agujero pasante	●	●	○	○	○	●	○	●
Blind Hole Agujero Ciego			●	●	●		●	
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	○	○	○	○	○	○	○	○
H HRC 55								
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	●	●	●	●	●	●	●	●
M Stainless Steel >700N/mm2								
K Cast Iron	●	●	●	●	●	●	●	●
K Nodular Cast Iron								
N Aluminium	○	○	○	○	○	○	○	○
N Copper								
N Plastics								
N SI ≥7%								
G Graphite								
G GFK/CFK								
S Titanium Alloy								
S NiAlloys								

[illegible]

★ Best Choice

- First Choice

- Suitable

THREAD LINE INDEX

Code Código	40.7046	40.7060	40.7066	40.7068	41.6040	41.6046	41.6050	41.6056
								
Page Página	288	289	290	291	296	297	298	299
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM
Ø Range Diámetro (mm)	12 - 36	2 - 10	12 - 36	3 - 20	2 - 10	12 - 20	3 - 10	12 - 20
Thread Style Tipo de Rosca	M	M	M	M	M	M	M	M
Coating Recubrimiento	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up
Form Forma	B	C	C	C	B	B	C	C
Tolerance Tolerancia	6H	6H	6HX	6HX	6H	6H	6H	6H
Norm Norma	DIN 376	DIN 371	DIN 376	HELION	DIN 371	DIN 371	DIN 371	DIN 376
Through Hole Agujero pasante	●	○	○	○	●	●	○	○
Blind Hole Agujero Ciego		●	●	●			●	●
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	●	●	●	●	★	★	★	★
H HRC 55								
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	●	●	●	●	●	●	●	●
M Stainless Steel >700N/mm2								
K Cast Iron	●	●	●	●	○	○	●	●
K Nodular Cast Iron	○	○	○	○	○	○	○	○
N Aluminium								
N Copper								
N Plastics								
N SI ≥7%								
G Graphite								
G GFK/CFK								
S Titanium Alloy								
S NiAlloys								

43.2010	43.2117	43.2810	43.2816	44.0040	44.0046	44.0060	44.0066	45.3265	45.4060
									
304	305	306	307	312	313	314	315	320	321
HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
3 - 16	5 - 16	5 - 10	10 - 14	2 - 10	12 - 20	3 - 10	12 - 20	1/16 - 1"	2 - 10
M	MF	M	M	M	M	M	M	GAS BSP	M
Shark	Shark	Shark	Shark	Bright	Bright	Bright	Bright	Racer	Racer
D	C	C	C	B	B	C	C	C	C
6HX	6HX	6HX	6HX	6H	6H	6H	6H	6HX	6HX
DIN 371/376	DIN 374	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 5156	DIN 371
●	●	●	●	●	●	○	○	○	○
●	●	●	●			●	●	●	●
●	●	●	●					●	●
★	★	★	★						
								★	★
●	●	●	●					○	○
●	●	●	●						
				★	★	★	★		
				●	●	●	●		
				●	●	●	●		
	○	○	○						
								○	○

★ Best Choice ● First Choice ○ Suitable

THREAD LINE INDEX

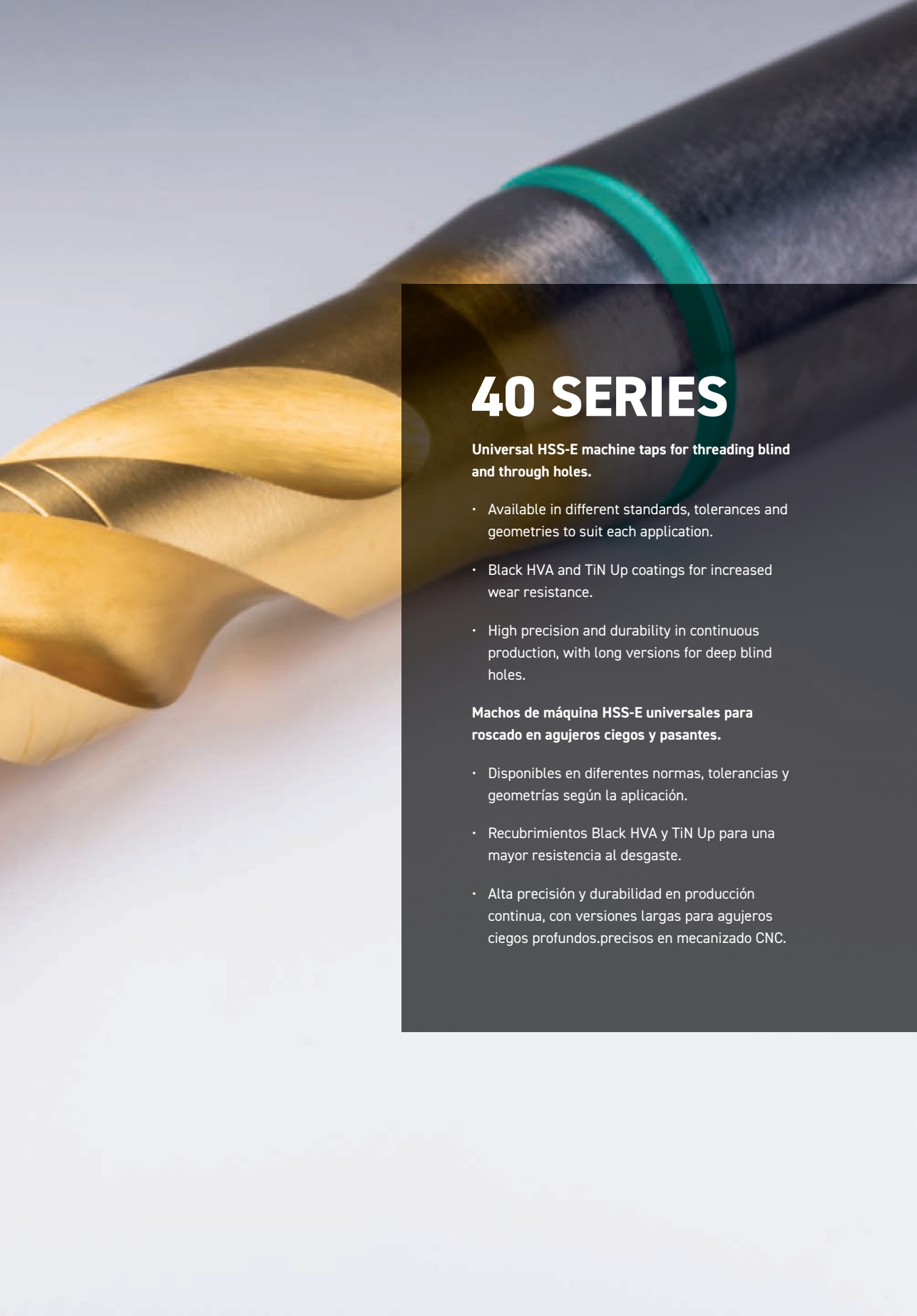
Code Código	45.4066	45.4164	45.5040	45.5046	45.5144	45.5245	46.4040	46.4046
								
Page Página	322	323	324	325	326	327	332	333
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E-PM	HSS-E-PM
ø Range Diámetro (mm)	12 - 30	6 - 24	2 - 10	12 - 30	6 - 24	1/16 - 1"	3 - 10	12 - 16
Thread Style Tipo de Rosca	M	MF	M	M	MF	GAS / BSP	M	M
Coating Recubrimiento	Racer	Racer	DSC	DSC	DSC	DSC	Shark	Shark
Form Forma	C	C	B	B	B	B	B	B
Tolerance Tolerancia	6HX	6HX	6HX	6HX	6HX	-	6HX	6HX
Norm Norma	DIN 376	DIN 374	DIN 371	DIN 376	DIN 374	DIN 5156	DIN 371	DIN 376
Through Hole Agujero pasante	○	○	●	●	●	●	●	●
Blind Hole Agujero Ciego	●	●						
P Carbon Steel								
P High Alloyed Steel	●	●	●	●	●	●		
H HRC 55								
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	★	★	★	★	★	★		
M Stainless Steel >700N/mm2								
K Cast Iron	○	○	○	○	○	○	○	○
K Nodular Cast Iron								
N Aluminium								
N Copper								
N Plastics								
N SI ≥7%								
G Graphite								
G GFK/CFK								
S Titanium Alloy							●	●
S NiAlloys	○	○	○	○	○	○	★	★

46.4070	46.4076	47.9010	48.7010	48.7016	4990	4991			
									
334	335	346	340	341	347	348			
HSS-E-PM	HSS-E-PM	SC	HSS-E	HSS-E	SC	SC			
3 - 10	12 - 16	3 - 16	3 - 10	12 - 20	2 - 16	4 - 16/8 - 16			
M	M	M	M	M	M	M / MF			
Shark	Shark	Shark	TiN Up	TiN Up	Racer	Racer			
C	C	D	C	C	-	-			
6HX	6HX	6H	6HX	6HX	-	-			
DIN 371	DIN 376	DIN 371	DIN 2174	DIN 2174	HELION	HELION			
○	○	●	●	●	●	●			
●	●	●	●	●	●	●			
					●	●			
			●	●	●	●			
		●			●	●			
		★			○	○			
		○			○	○			
			○	●	●	●			
○	○		○		●	●			
					●	●			
					○	○			
					○	○			
●	●		○	○	●	●			
★	★		○	○					

★ Best Choice ● First Choice ○ Suitable



40.7060 - UNIVERSAL MACHINE TAP HSS-E

A close-up, angled view of a metal machine tap. The tap has a yellowish-gold body with a teal-colored band around its middle. The background is a soft, out-of-focus grey.

40 SERIES

Universal HSS-E machine taps for threading blind and through holes.

- Available in different standards, tolerances and geometries to suit each application.
- Black HVA and TiN Up coatings for increased wear resistance.
- High precision and durability in continuous production, with long versions for deep blind holes.

Machos de máquina HSS-E universales para roscado en agujeros ciegos y pasantes.

- Disponibles en diferentes normas, tolerancias y geometrías según la aplicación.
- Recubrimientos Black HVA y TiN Up para una mayor resistencia al desgaste.
- Alta precisión y durabilidad en producción continua, con versiones largas para agujeros ciegos profundos, precisos en mecanizado CNC.

40 SERIES INDEX

Code Código	40.1040	40.1046	40.1050	40.1060	40.1066	40.1140
						
Page Página	270	271	272	273	274	275
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
ø Range Diámetro (mm)	3 - 10	12 - 20	3 - 10	3 - 10	12 - 36	4 - 20
Thread Style Tipo de Rosca	M	M	M	M	M	MF
Coating Recubrimiento	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA
Form Forma	B	B	E	C	C	B
Tolerance Tolerancia	6H	6H	6H	6H	6H	6H
Norm Norma	DIN 371	DIN 376	DIN 371	DIN 371	DIN 376	DIN 374
Through Hole Agujero pasante	●	●	○	○	○	●
Blind Hole Agujero Ciego			●	●	●	
P Carbon Steel	●	●	●	●	●	●
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless	●	●	●	●	●	●
K Cast Iron	●	●	●	●	●	●
N Non Ferrous	○	○	○	○	○	○
G Graphite						
S Super Alloys						
Eshop Tienda online						

40.1160	40.1240	40.1260	40.1340	40.1360	40.1440	40.1446	40.1460
							
276	277	278	279	280	281	282	283
HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
4 - 20	1/8 - 1"	1/8 - 1"	4 - 5/8	4 - 5/8	4 - 3/8	7/16 - 3/4	4 - 3/8
MF	GAS/ BSP	GAS / BSP	UNF / SAE	UNF / SAE	UNC	UNC	UNC
Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA
C	B	C	B	C	B	B	C
6H	-	-	2B	2B	2B	2B	2B
DIN 374	DIN 5156	DIN 5156	DIN 374	DIN 374	DIN 371	DIN 376	DIN 371
○	●	○	●	○	●	●	○
●		●		●			●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○
							

★ Best Choice ● First Choice ○ Suitable

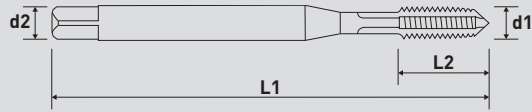
40 SERIES INDEX

Code Código	40.1466	40.1640	40.1660	40.7040	40.7046	40.7060
						
Page Página	284	285	286	287	288	289
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
ø Range Diámetro (mm)	7/16 - 3/4	3 - 10	3 - 10	2 - 10	12 - 36	2 - 10
Thread Style Tipo de Rosca	UNC	M	M	M	M	M
Coating Recubrimiento	Black HVA	Black HVA	Black HVA	TiN Up	TiN Up	TiN Up
Form Forma	C	B	C	B	B	C
Tolerance Tolerancia	2B	6G	6G	6H	6H	6H
Norm Norma	DIN 376	DIN 371	DIN 371	DIN 371	DIN 376	DIN 371
Through Hole Agujero pasante	○	●	○	●		○
Blind Hole Agujero Ciego	●		●		●	●
P Carbon Steel	●	●	●	●	●	●
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless	●	●	●	●	●	●
K Cast Iron	●	●	●	●	●	●
N Non Ferrous	○	○	○			
G Graphite						
S Super Alloys						
Eshop Tienda online						

40.7066	40.7068						
							
290	291						
HSS-E	HSS-E						
12 - 36	3 - 20						
M	M						
TiN Up	TiN Up						
C	C						
6HX	6HX						
DIN 376	HELION						
○	○						
●	●						
●	●						
●	●						
●	●						
							

MACHO DE MÁQUINA MULTIUSO HSS-E

Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401040M03	M3	3,00	0,50	3,50	56	10	2,50	●
401040M04	M4	4,00	0,70	4,50	63	12	3,30	●
401040M05	M5	5,00	0,80	6,00	70	14	4,20	●
401040M06	M6	6,00	1,00	6,00	80	16	5,00	●
401040M08	M8	8,00	1,25	8,00	90	17	6,80	●
401040M10	M10	10,00	1,50	10,00	100	20	8,50	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido

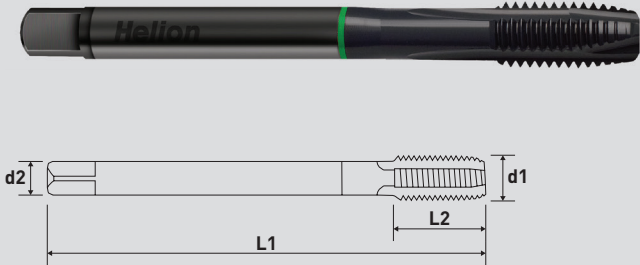
40.1046

UNIVERSAL
MACHINE
TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cutting
Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401046M12	M12	12,00	1,75	9,00	110	24	10,20	●
401046M14	M14	14,00	2,00	11,00	110	26	12,00	●
401046M16	M16	16,00	2,00	12,00	110	26	14,00	●
401046M18	M18	18,00	2,50	14,00	125	30	15,50	●
401046M20	M20	20,00	2,50	16,00	140	32	17,50	●
401046M22	M22	22,00	2,50	16,00	140	32	19,50	○
401046M24	M24	24,00	3,00	18,00	160	36	21,00	○
401046M27	M27	27,00	3,00	20,00	160	36	24,00	○
401046M30	M30	30,00	3,50	22,00	180	40	26,50	○
401046M36	M36	36,00	4,00	28,00	200	50	32,00	○

● Stock | Disponible ○ Under Request | Bajo Pedido

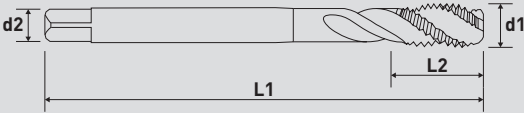
40.1050

UNIVERSAL MACHINE TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cutting
Conditions



P

M

K

N

S

H

G

M

HSS-E

BLACK
HVA

DIN
371

6H
TOLERANCE

FORM
E
Px1,5

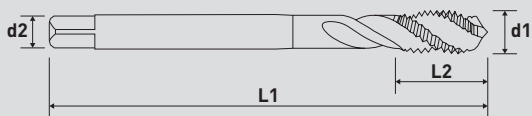
MQL

Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401050M03	M3	3	0,50	3,50	56	6,00	2,50	●
401050M04	M4	4	0,70	4,50	63	7,50	3,30	●
401050M05	M5	5	0,80	6,00	70	8,50	4,20	●
401050M06	M6	6	1,00	6,00	80	11,00	5,00	●
401050M08	M8	8	1,25	8,00	90	14,00	6,80	●
401050M10	M10	10	1,50	10,00	100	16,00	8,50	●



Form E with short entry
Forma E con entrada corta

● Stock | Disponible ○ Under Request | Bajo Pedido



40.1060

UNIVERSAL MACHINE TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cutting
Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401060M03	M3	3	0,50	3,50	56	6	2,50	●
401060M04	M4	4	0,70	4,50	63	8	3,30	●
401060M05	M5	5	0,80	6,00	70	9	4,20	●
401060M06	M6	6	1,00	6,00	80	11	5,00	●
401060M08	M8	8	1,25	8,00	90	14	6,80	●
401060M10	M10	10	1,50	10,00	100	16	8,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido

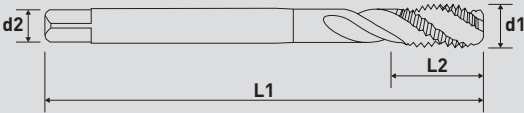
40.1066

UNIVERSAL
MACHINE
TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E

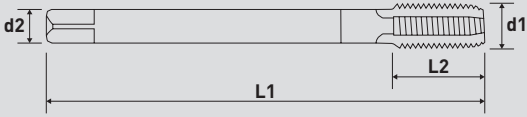


Cutting
Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401066M12	M12	12	1,75	9,00	110	19	10,20	●
401066M14	M14	14	2,00	11,00	110	20	12,00	●
401066M16	M16	16	2,00	12,00	110	20	14,00	●
401066M18	M18	18	2,50	14,00	125	25	15,50	●
401066M20	M20	20	2,50	16,00	140	25	17,50	○
401066M22	M22	22	2,50	18,00	140	27	19,50	○
401066M24	M24	24	3,00	18,00	160	36	21,00	○
401066M27	M27	27	3,00	20,00	160	30	24,00	○
401066M30	M30	30	3,50	22,00	180	35	26,50	○
401066M36	M36	36	4,00	28,00	200	40	32,00	○

● Stock | Disponible ○ Under Request | Bajo Pedido



40.1140

UNIVERSAL MACHINE TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cutting
Conditions



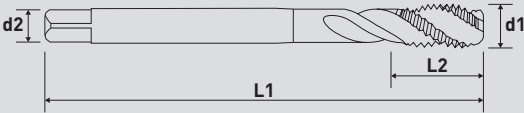
Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401140MF405	MF4	4,00	0,50	2,80	63	8	3,50	●
401140MF505	MF5	5,00	0,50	3,50	70	10	4,50	●
401140MF6075	MF6	6,00	0,75	4,50	80	13	5,20	●
401140MF81	MF8	8,00	1,00	6,00	90	16	7,00	●
401140MF101	MF10	10,00	1,00	7,00	90	16	9,00	●
401140MF10125	MF10	10,00	1,25	7,00	100	39	8,80	●
401140MF121	MF12	12,00	1,00	9,00	100	20	11,00	●
401140MF1215	MF12	12,00	1,50	9,00	100	20	10,50	●
401140MF1415	MF14	14,00	1,50	11,00	100	20	12,50	●
401140MF1615	MF16	16,00	1,50	12,00	100	22	14,50	●
401140MF1815	MF18	18,00	1,50	12,00	100	22	16,50	●
401140MF2015	MF20	20,00	1,50	16,00	125	25	18,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido

40.1160

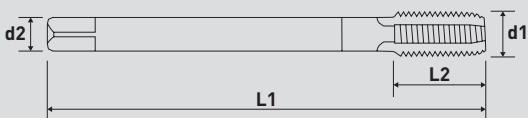
UNIVERSAL
MACHINE
TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401160MF405	MF4	4,00	0,50	2,80	63	5	3,50	●
401160MF505	MF5	5,00	0,50	3,50	70	5	4,50	●
401160MF6075	MF6	6,00	0,75	4,50	80	8	5,25	●
401160MF81	MF8	8,00	1,00	6,00	90	11	7,00	●
401160MF101	MF10	10,00	1,00	7,00	90	11	9,00	●
401160MF10125	MF10	10,00	1,25	7,00	100	14	8,80	●
401160MF121	MF12	12,00	1,00	9,00	100	11	11,00	●
401160MF12125	MF12	12,00	1,25	9,00	100	16	10,80	●
401160MF1215	MF12	12,00	1,50	9,00	100	16	10,50	●
401160MF141	MF14	14,00	1,00	11,00	100	11	13,00	●
401160MF1415	MF14	14,00	1,50	11,00	100	15	12,50	●
401160MF161	MF16	16,00	1,00	12,00	100	11	15,00	●
401160MF1615	MF16	16,00	1,50	12,00	100	15	14,50	●
401160MF2015	MF20	20,00	1,50	16,00	125	16	18,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido



40.1240

UNIVERSAL MACHINE TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



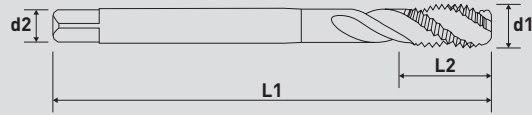
Cutting
Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401240G18	G1/8	9,73	28	7,00	90	18	8,80	●
401240G14	G1/4	13,16	19	11,00	100	20	11,80	●
401240G38	G3/8	16,66	19	12,00	100	22	15,25	●
401240G12	G1/2	20,96	14	16,00	125	25	19,00	●
401240G34	G3/4	26,44	14	20,00	140	28	24,50	●
401240G1	G1"	33,25	11	25,00	160	30	30,75	●

● Stock | Disponible ○ Under Request | Bajo Pedido

MACHO DE MÁQUINA MULTIUSO HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401260G18	GAS1/8	9,73	28	7,00	90	11,00	8,80	●
401260G14	GAS1/4	13,16	19	11,00	100	14,00	11,80	●
401260G38	GAS3/8	16,66	19	12,00	100	14,00	15,25	●
401260G12	GAS1/2	20,96	14	16,00	125	18,00	19,00	●
401260G34	GAS3/4	26,44	14	20,00	140	20,00	24,50	●
401260G1	GAS1"	33,25	11	25,00	160	24,00	30,75	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido

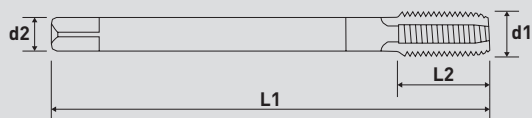
40.1340

UNIVERSAL MACHINE TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cutting
Conditions

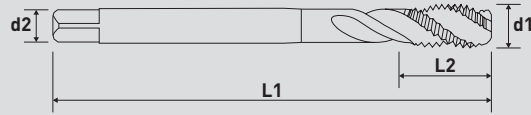


Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401340NF448	UNF4	2,85	48	2,20	56	10	2,40	●
401340NF640	UNF6	3,51	40	2,50	56	11	2,95	●
401340NF1032	UNF10	4,83	32	3,50	70	14	4,10	●
401340NF1428	UNF1/4	6,35	28	4,50	80	16	5,50	●
401340NF3824	UNF3/8	9,53	24	7,00	90	18	8,50	●
401340NF5818	UNF5/8	15,88	18	12,00	100	22	14,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido

MACHO DE MÁQUINA MULTIUSO HSS-E

Cutting Conditions



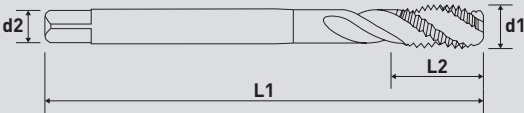
Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401360NF448	UNF4	2,85	48,00	2,20	56	6,00	2,40	●
401360NF640	UNF6	3,51	40,00	2,50	56	7,00	2,95	●
401360NF1032	UNF10	4,83	32,00	3,50	70	9,00	4,10	●
401360NF1428	UNF1/4	6,35	28,00	4,50	80	9,00	5,50	●
401360NF3824	UNF3/8	9,53	24,00	7,00	90	11,00	8,50	●
401360NF5818	UNF5/8	15,88	18,00	12,00	100	15,00	14,50	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido

40.1446

UNIVERSAL
MACHINE
TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



P

M

K

N

S

H

G

UNC

HSS-E

BLACK
HVA

DIN
376

2B
TOLERANCE

FORM
B
Px4

HA

MQL

Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401446NC71614	UNC7/16	11,11	14	8,00	100	22	9,40	●
401446NC1213	UNC1/2	12,70	13	9,00	110	25	10,80	●
401446NC5811	UNC5/8	15,88	11	12,00	110	30	13,50	●
401446NC3410	UNC3/4	19,05	10	14,00	125	33	16,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido

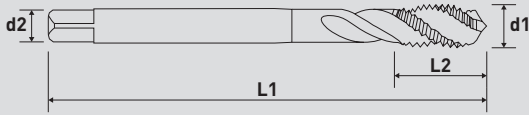
40.1460

UNIVERSAL MACHINE TAP HSS-E

MACHO DE MÁQUINA MULTIUSO HSS-E



Cutting Conditions

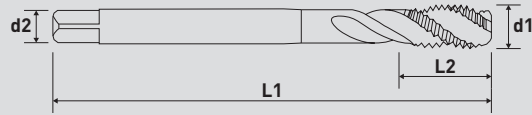


Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401460NC440	UNC4	2,85	40,00	3,50	56	7,00	2,35	●
401460NC632	UNC6	3,51	32,00	4,00	56	8,00	2,85	●
401460NC832	UNC8	4,17	32,00	4,50	63	8,00	3,50	●
401460NC1024	UNC10	4,83	24,00	6,00	70	11,00	3,90	●
401460NC1420	UNC1/4	6,35	20,00	7,00	80	13,00	5,10	●
401460NC51618	UNC5/16	7,94	18,00	8,00	90	14,00	6,60	●
401460NC3816	UNC3/8	9,53	16,00	10,00	100	16,00	8,00	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido

MACHO DE MÁQUINA MULTIUSO HSS-E

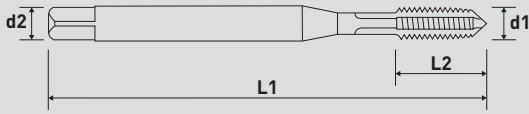
Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
401466NC71614	UNC7/16	11,11	14,00	8,00	100	18,00	9,40	●
401466NC1213	UNC1/2	12,7	13,00	9,00	110	20,00	10,80	●
401466NC5811	UNC5/8	15,88	11,00	12,00	110	24,00	13,50	●
401466NC3410	UNC3/4	19,05	10,00	14,00	125	25,00	16,50	●

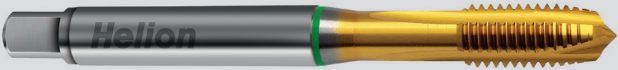
● **Stock** | Disponible ○ **Under Request** | Bajo Pedido

**Cutting
Conditions**



Cod.	M	d1	P	d2	L1	L2	Previous Hole ø	Stock
401640M03	M3	3,00	0,50	3,50	56	10	2,50	●
401640M04	M4	4,00	0,70	4,50	63	12	3,30	●
401640M05	M5	5,00	0,80	6,00	70	14	4,20	●
401640M06	M6	6,00	1,00	6,00	80	16	5,00	●
401640M08	M8	8,00	1,25	8,00	90	17	6,80	●
401640M10	M10	10,00	1,50	10,00	100	20	8,50	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido



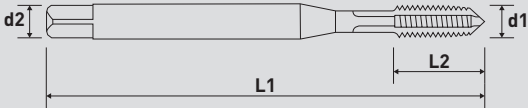
40.7040

UNIVERSAL
MACHINE
TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



Cutting
Conditions



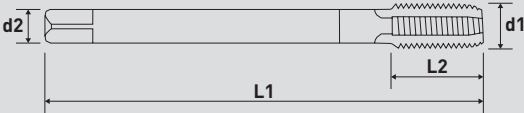
Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
407040M02	M2	2,00	0,40	2,80	45,00	8,00	1,60	●
407040M03	M3	3,00	0,50	3,50	56,00	10,00	2,50	●
407040M04	M4	4,00	0,70	4,50	63,00	12,00	3,30	●
407040M05	M5	5,00	0,80	6,00	70,00	14,00	4,20	●
407040M06	M6	6,00	1,00	6,00	80,00	16,00	5,00	●
407040M08	M8	8,00	1,30	8,00	90,00	17,00	6,80	●
407040M10	M10	10,00	1,50	10,00	100,00	20,00	8,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido

40.7046

UNIVERSAL
MACHINE
TAP HSS-E

MACHO DE MÁQUINA
MULTIUSO HSS-E



P

M

K

N

S

H

G

M

HSS-E

TIN
Up

DIN
376

6H
TOLERANCE

FORM
B
Px4







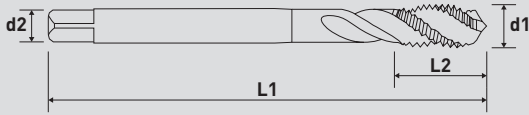




MQL

Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
407046M12	M12	12,00	1,8	9,0	110,0	24,0	10,20	●
407046M14	M14	14,00	2,0	11,0	110,0	26,0	12,00	●
407046M16	M16	16,00	2,0	12,0	110,0	26,0	14,00	●
407046M18	M18	18,00	2,5	14,0	125,0	30,0	15,50	●
407046M20	M20	20,00	2,5	16,0	140,0	32,0	17,50	○
407046M22	M22	22,00	2,5	18,0	140,0	32,0	19,50	○
407046M24	M24	24,00	3,0	18,0	160,0	36,0	21,00	○
407046M27	M27	27,00	3,0	20,0	160,0	36,0	24,00	○
407046M30	M30	30,00	3,5	22,0	180,0	40,0	26,50	○
407046M36	M36	36,00	4,0	28,0	200,0	50,0	32,00	○

● Stock | Disponible ○ Under Request | Bajo Pedido



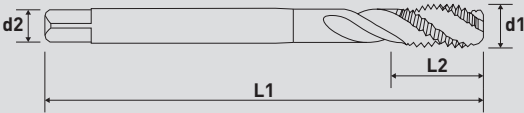
**Cutting
Conditions**



40.7066

UNIVERSAL
MACHINE TAP
LONG HSS-E

MACHO DE MÁQUINA
MULTIUSO LARGO HSS-E



P

M

K

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S

H

G

M

HSS-E

TIN
Up

DIN
376

6HX
TOLERANCE

FORM
C
Px2,5

MQL

Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
407066M12	M12	12,00	1,75	9,00	110	19,0	10,20	●
407066M14	M14	14,00	2,00	11,00	110	20,0	12,00	●
407066M16	M16	16,00	2,00	12,00	110	20,0	14,00	●
407066M18	M18	18,00	2,50	14,00	125	25,0	15,50	○
407066M20	M20	20,00	2,50	16,00	140	25,0	17,50	●
407066M24	M24	24,00	3,00	18,00	160	30,0	21,00	●
407066M27	M27	27,00	3,00	20,00	160	30,0	24,00	○
407066M30	M30	30,00	3,50	22,00	180	35,0	26,50	○
407066M36	M36	36,00	4,00	28,00	200	40,0	32,00	○

● Stock | Disponible ○ Under Request | Bajo Pedido

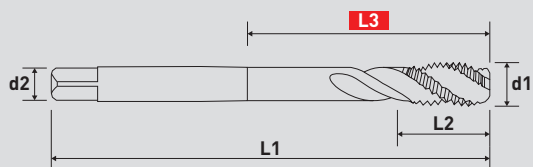
40.7068

UNIVERSAL MACHINE TAP LONG HSS-E

MACHO DE MÁQUINA
MULTIUSO LARGO HSS-E



Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	L3	Previous Hole Ø	Stock
407068M03	M3	3,00	0,50	3,50	112	6,00	18,00	2,50	●
407068M04	M4	4,00	0,70	2,80	112	8,00	77,00	3,30	●
407068M05	M5	5,00	0,80	3,50	125	9,00	90,00	4,20	●
407068M06	M6	6,00	1,00	4,50	125	11,00	90,00	5,00	●
407068M08	M8	8,00	1,25	6,00	140	14,00	97,00	6,80	●
407068M10	M10	10,00	1,50	7,00	160	16,00	117,00	8,50	●
407068M12	M12	12,00	1,75	9,00	180	19,00	133,00	10,20	●
407068M16	M16	16,00	2,00	12,00	220	20,00	168,00	14,00	●
407068M20	M20	20,00	2,50	16,00	280	25,00	225,00	17,50	●

Special Long
Largo Especial

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido





41 SERIES

High-performance HSS-E-PM taps for precise threading in blind and through holes.

- Suitable for multiple materials and demanding production applications.
- Excellent chip evacuation, cutting stability and dimensional accuracy.
- TiN Up coating for increased wear resistance and extended tool life.

Machos HSS-E-PM de alto rendimiento para roscado preciso en agujeros ciegos y pasantes.

- Adecuados para múltiples materiales y aplicaciones de producción exigentes.
- Excelente evacuación de viruta, estabilidad de corte y precisión dimensional.
- Recubrimiento TiN Up para una mayor resistencia al desgaste y vida útil prolongada.

41 SERIES INDEX

Code Código	41.6040	41.6046	41.6050	41.6056		
						
Page Página	296	297	298	299		
Tool Material M. herramienta	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM		
ø Range Diámetro (mm)	2 - 10	12 - 20	3 - 10	12 - 20		
Thread Style Tipo de Rosca	M	M	M	M		
Coating Recubrimiento	TiN Up	TiN Up	TiN Up	TiN Up		
Form Forma	B	B	C	C		
Tolerance Tolerancia	6H	6H	6H	6H		
Norm Norma	DIN 371	DIN 371	DIN 371	DIN 371		
Through Hole Agujero pasante	●	●	○	○		
Blind Hole Agujero Ciego			●	●		
P Carbon Steel	★	★	★	★		
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless	●	●	●	●		
K Cast Iron	○	○	●	●		
N Non Ferrous						
G Graphite						
S Super Alloys						
Eshop Tienda online						

★ Best Choice

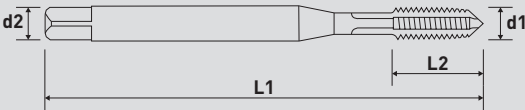
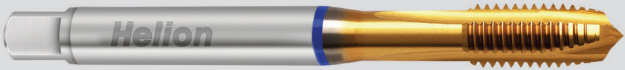
- First Choice

- Suitable

41.6040

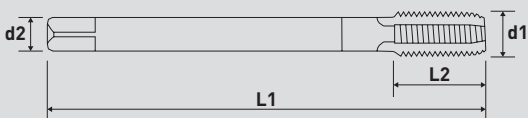
UNIVERSAL MACHINE TAP HSS-E-PM

MACHO DE MÁQUINA
MULTIUSO HSS-E-PM



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
416040M02	M2	2,00	0,40	2,80	45	8	1,60	●
416040M03	M3	3,00	0,50	3,50	56	10	2,50	●
416040M04	M4	4,00	0,70	4,50	63	12	3,30	●
416040M05	M5	5,00	0,80	6,00	70	14	4,20	●
416040M06	M6	6,00	1,00	6,00	80	16	5,00	●
416040M08	M8	8,00	1,25	8,00	90	17	6,80	●
416040M10	M10	10,00	1,50	10,00	100	20	8,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido



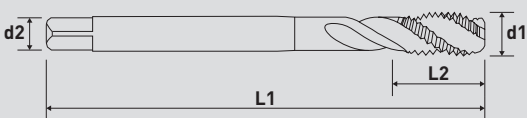
MACHO DE MÁQUINA
MULTIUSO HSS-E-PM



Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
416046M12	M12	12,00	1,75	9,00	110	24	10,20	●
416046M14	M14	14,00	2,00	11,00	110	26	12,00	●
416046M16	M16	16,00	2,00	12,00	110	26	14,00	●
416046M18	M18	18,00	2,50	14,00	125	30	15,50	●
416046M20	M20	20,00	2,50	16,00	140	32	17,50	●



MACHO DE MÁQUINA MULTIUSO HSS-E-PM



Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
416056M12	M12	12,00	1,75	9,00	110	19,00	10,20	●
416056M14	M14	14,00	2,00	11,00	110	20,00	12,00	●
416056M16	M16	16,00	2,00	12,00	110	20,00	14,00	●
416056M20	M20	20,00	2,50	16,00	140	25,00	17,50	●

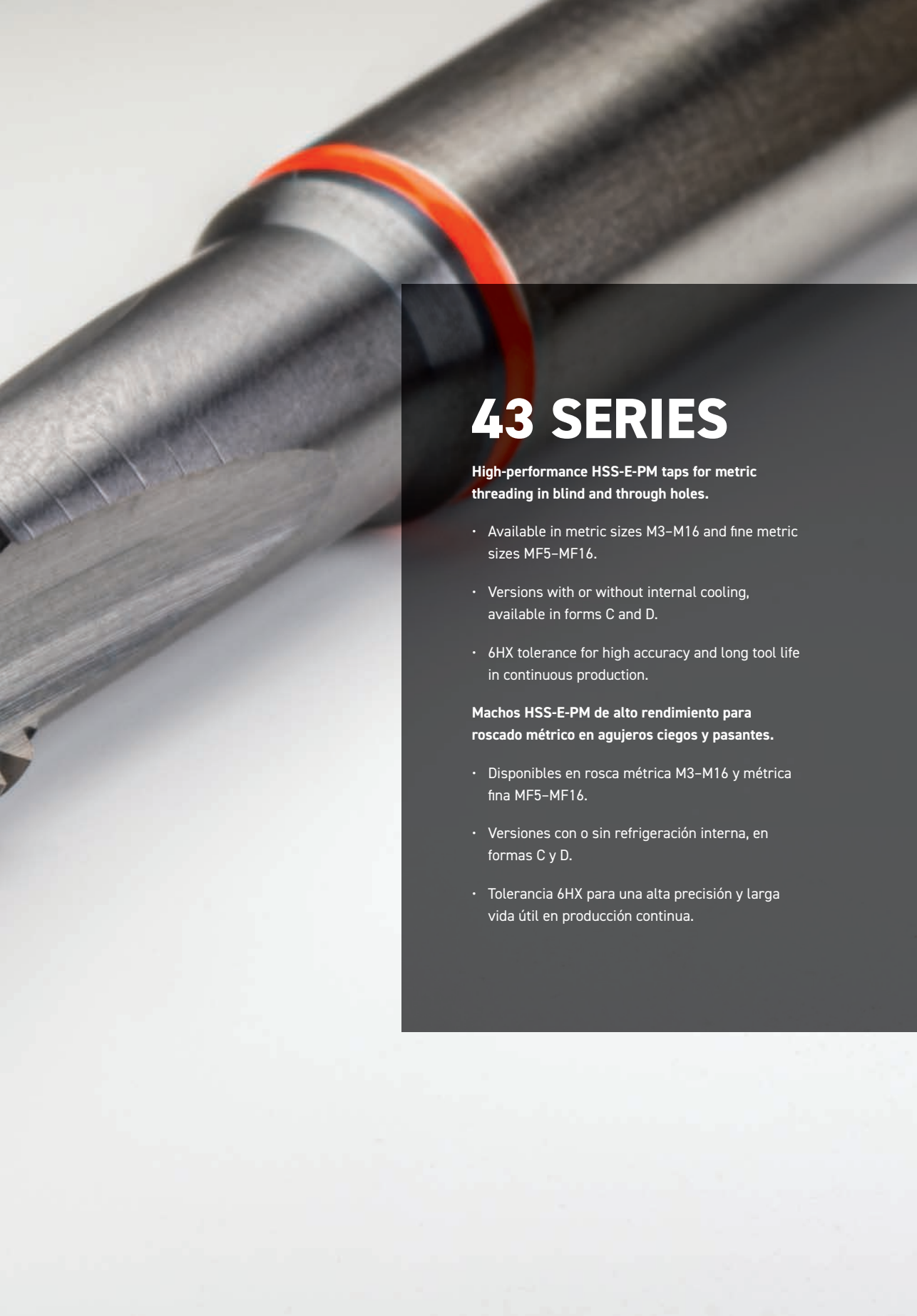
Especially for rigid threading with synchronized feed.

Especial para roscado rígido con avance sincronizado.

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido



43.2810 - HIGH PERFORMANCE MACHINE TAP HSS-E-PM



43 SERIES

High-performance HSS-E-PM taps for metric threading in blind and through holes.

- Available in metric sizes M3–M16 and fine metric sizes MF5–MF16.
- Versions with or without internal cooling, available in forms C and D.
- 6HX tolerance for high accuracy and long tool life in continuous production.

Machos HSS-E-PM de alto rendimiento para roscado métrico en agujeros ciegos y pasantes.

- Disponibles en rosca métrica M3–M16 y métrica fina MF5–MF16.
- Versiones con o sin refrigeración interna, en formas C y D.
- Tolerancia 6HX para una alta precisión y larga vida útil en producción continua.

43 SERIES INDEX

Code Código	43.2010	43.2117	43.2810	43.2816		
						
Page Página	304	305	306	307		
Tool Material M. herramienta	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM		
ø Range Diámetro (mm)	3 - 16	5 - 16	5 - 10	10 - 14		
Thread Style Tipo de Rosca	M	MF	M	M		
Coating Recubrimiento	Shark	Shark	Shark	Shark		
Form Forma	D	C	C	C		
Tolerance Tolerancia	6HX	6HX	6HX	6HX		
Norm Norma	DIN 371/376	DIN 374	DIN 371	DIN 376		
Through Hole Agujero pasante	●	●	●	●		
Blind Hole Agujero Ciego	●	●	●	●		
P Carbon Steel	●	●	●	●		
H HRC 55 - 62	★	★	★	★		
H HRC 70 - 75						
M Stainless						
K Cast Iron	●	●	●	●		
N Non Ferrous	○	○	○	○		
G Graphite						
S Super Alloys						
Eshop Tienda online						

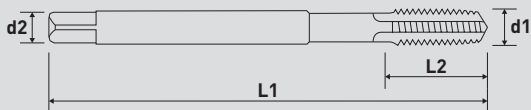
★ Best Choice

- First Choice

- Suitable

HIGH PERFORMANCE MACHINE TAP HSS-E-PM

MACHO DE MÁQUINA DE ALTO RENDIMIENTO HSS-E-PM



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
432010M03	M3	3,00	0,50	3,50	56	10	2,60	●
432010M04	M4	4,00	0,70	4,50	63	12	3,40	●
432010M05	M5	5,00	0,80	6,00	70	14	4,30	●
432010M06	M6	6,00	1,00	6,00	80	16	5,10	●
432010M08	M8	8,00	1,25	8,00	90	17	6,90	●
432010M10	M10	10,00	1,50	10,00	100	20	8,60	●
432010M12	M12	12,00	1,75	12,00	110	24	10,40	●
432010M14	M14	14,00	2,00	14,00	110	26	12,00	●
432010M16	M16	16,00	2,00	16,00	110	26	14,10	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido

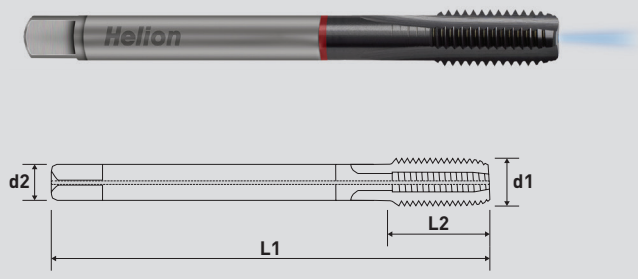
43.2117

HIGH PERFORMANCE MACHINE TAP HSS-E-PM

MACHO DE MÁQUINA DE ALTO
RENDIMIENTO HSS-E-PM



Cutting
Conditions



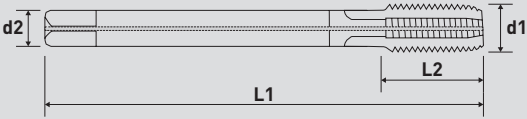
Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
432117MF05050	MF5	5,00	0,50	3,50	70	10	4,50	●
432117MF06050	MF6	6,00	0,50	4,50	80	13	5,50	●
432117MF06075	MF6	6,00	0,75	4,50	80	13	5,20	●
432117MF08075	MF8	8,00	0,75	6,00	80	14	7,20	●
432117MF08100	MF8	8,00	1,00	6,00	90	16	7,00	●
432117MF10100	MF10	10,00	1,00	7,00	90	16	9,00	●
432117MF10125	MF10	10,00	1,25	7,00	100	20	9,30	●
432117MF12100	MF12	12,00	1,00	9,00	100	20	11,00	●
432117MF12125	MF12	12,00	1,25	9,00	100	20	10,80	●
432117MF12150	MF12	12,00	1,50	9,00	100	20	10,50	●
432117MF14150	MF14	14,00	1,50	11,00	100	20	12,50	●
432117MF16150	MF16	16,00	1,50	12,00	100	22	14,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido

43.2810

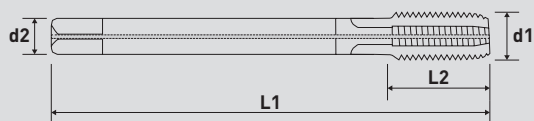
HIGH PERFORMANCE MACHINE TAP HSS-E-PM

MACHO DE MÁQUINA DE ALTO
RENDIMIENTO HSS-E-PM



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
432810M05	M5	5,00	0,80	6,00	70	14	4,20	●
432810M06	M6	6,00	1,00	6,00	80	16	5,00	●
432810M08	M8	8,00	1,25	8,00	90	17	6,80	●
432810M10	M10	10,00	1,50	10,00	100	20	8,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido



MACHO DE MÁQUINA DE ALTO RENDIMIENTO HSS-E-PM



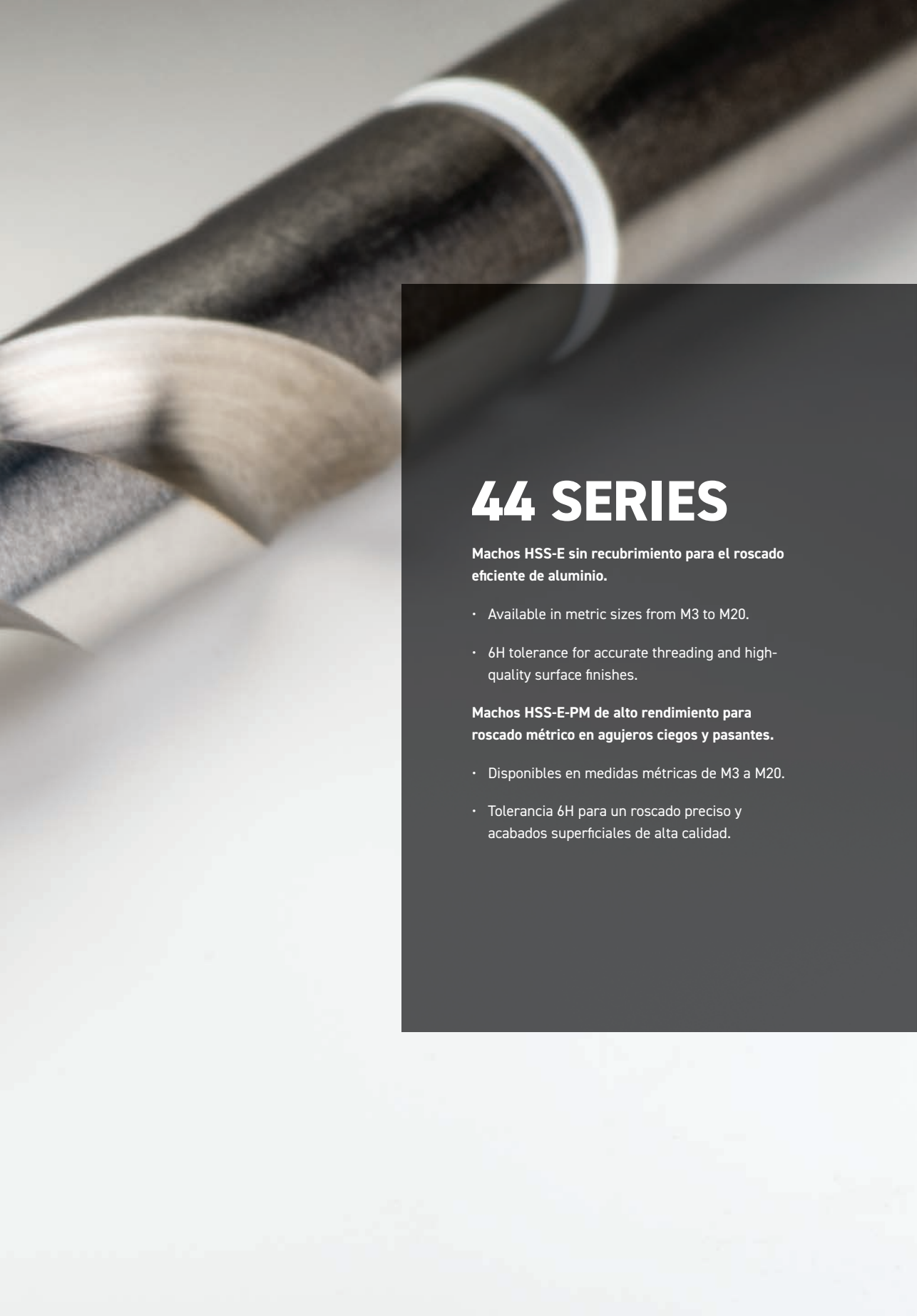
Cutting Conditions



THREAD LINE 307



44.0066 - MACHINE TAP FOR ALUMINIUM HSS-E



44 SERIES

Machos HSS-E sin recubrimiento para el roscado eficiente de aluminio.

- Available in metric sizes from M3 to M20.
- 6H tolerance for accurate threading and high-quality surface finishes.

Machos HSS-E-PM de alto rendimiento para roscado métrico en agujeros ciegos y pasantes.

- Disponibles en medidas métricas de M3 a M20.
- Tolerancia 6H para un roscado preciso y acabados superficiales de alta calidad.

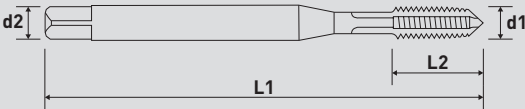
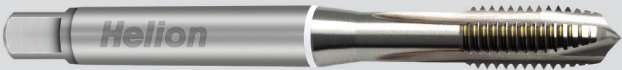
44 SERIES INDEX

Code Código	44.0040	44.0046	44.0060	44.0066		
						
Page Página	312	313	314	315		
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E		
ø Range Diámetro (mm)	2 - 10	12 - 20	3 - 10	12 - 20		
Thread Style Tipo de Rosca	M	M	M	M		
Coating Recubrimiento	Bright	Bright	Bright	Bright		
Form Forma	B	B	C	C		
Tolerance Tolerancia	6H	6H	6H	6H		
Norm Norma	DIN 371	DIN 376	DIN 371	DIN 376		
Through Hole Agujero pasante	●	●	○	○		
Blind Hole Agujero Ciego			●	●		
P Carbon Steel						
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless						
K Cast Iron						
N Non Ferrous	★	★	★	★		
G Graphite						
S Super Alloys						
Eshop Tienda online						

44.0040

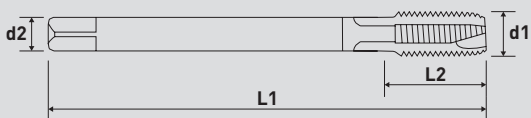
MACHINE TAP
HSS-E FOR
ALUMINIUM

MACHO DE MÁQUINA
HSS-E PARA ALUMINIO



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
440040M02	M2	2,00	0,40	3,50	56	10	1,60	●
440040M025	M2,5	2,50	0,45	2,8	50	14,5	2,05	●
440040M03	M3	3,00	0,50	3,50	56	10	2,50	●
440040M04	M4	4,00	0,70	4,50	63	12	3,30	●
440040M05	M5	5,00	0,80	6,00	70	14	4,20	●
440040M06	M6	6,00	1,00	6,00	80	16	5,00	●
440040M08	M8	8,00	1,25	8,00	90	17	6,80	●
440040M10	M10	10,00	1,50	10,00	100	20	8,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido



MACHO DE MÁQUINA HSS-E PARA ALUMINIO

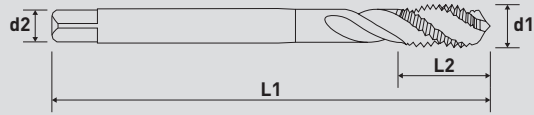


Cutting Conditions



MACHO DE MÁQUINA HSS-E PARA ALUMINIO

Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
440060M03	M3	3,00	0,50	3,50	56	6	2,50	●
440060M04	M4	4,00	0,70	4,50	63	8	3,30	●
440060M05	M5	5,00	0,80	6,00	70	9	4,20	●
440060M06	M6	6,00	1,00	6,00	80	11	5,00	●
440060M08	M8	8,00	1,25	8,00	90	14	6,80	●
440060M10	M10	10,00	1,50	10,00	100	16	8,50	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido



45.4066 - HIGH PERFORMANCE MACHINE TAP HSS-E



45 SERIES

High-performance HSS-E taps for threading through and blind holes.

- DSC coating for through holes and Racer coating for blind holes.
- Available in metric, fine metric and GAS/BSP thread standards.
- Geometries designed for high productivity while having efficient chip evacuation, high surface quality and extended tool life.

Machos HSS-E de alto rendimiento para roscado en agujeros pasantes y ciegos.

- Recubrimiento DSC para agujeros pasantes y Racer para agujeros ciegos.
- Disponibles en rosca métrica, métrica fina y GAS/BSP.
- Geometrías diseñadas para una alta productividad y a la misma vez una evacuación eficiente de la viruta, alta calidad superficial y larga vida útil.

45 SERIES INDEX

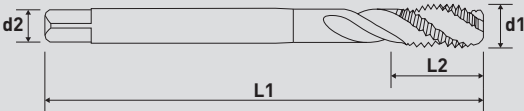
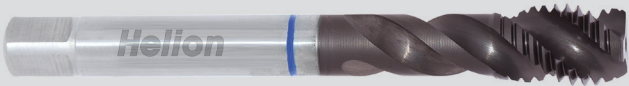
Code Código	45.3265	45.4060	45.4066	45.4164	45.5040	45.5046
						
Page Página	320	321	322	323	324	325
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
ø Range Diámetro (mm)	1/16 - 1"	2 - 10	12 - 30	6 - 24	2 - 10	12 - 30
Thread Style Tipo de Rosca	GAS / BSP	M	M	MF	M	M
Coating Recubrimiento	Racer	Racer	Racer	Racer	DSC	DSC
Form Forma	C	C	C	C	B	B
Tolerance Tolerancia	6HX	6HX	6HX	6HX	6HX	6HX
Norm Norma	DIN 5156	DIN 371	DIN 376	DIN 374	DIN 371	DIN 376
Through Hole Agujero pasante	○	○	○	○	●	●
Blind Hole Agujero Ciego	●	●	●	●		
P Carbon Steel	●	●	●	●	●	●
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless	★	★	★	★	★	★
K Cast Iron	○	○	○	○	○	○
N Non Ferrous						
G Graphite						
S Super Alloys	○	○	○	○	○	○
Eshop Tienda online						

45.5144	45.5245						
							
326	327						
HSS-E	HSS-E						
6 - 24	1/16 - 1"						
MF	GAS / BSP						
DSC	DSC						
B	B						
6HX	-						
DIN 374	DIN 5156						
●	●						
●	●						
★	★						
○	○						
○	○						
							

45.3265

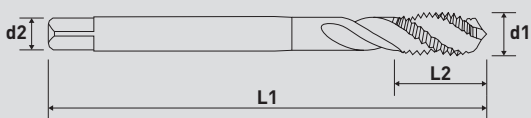
HIGH PERFORMANCE
MACHINE TAP HSS-E

MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
453265G116	GAS1/16	7,72	28,00	6,00	90	11	6,80	●
453265G18	GAS1/8	9,73	28,00	7,00	90	11	8,80	●
453265G14	GAS1/4	13,16	19,00	11,00	100	14	11,80	●
453265G38	GAS3/8	16,66	19,00	12,00	100	14	15,25	●
453265G12	GAS1/2	20,96	14,00	16,00	125	18	19,00	●
453265G58	GAS5/8	22,91	14,00	18,00	125	18	21,00	●
453265G34	GAS3/4	26,44	14,00	20,00	140	20	24,50	●
453265G78	GAS7/8	30,20	14,00	22,00	150	22	28,25	●
453265G1	GAS1"	33,25	11,00	25,00	160	24	30,75	●

● Stock | Disponible ○ Under Request | Bajo Pedido



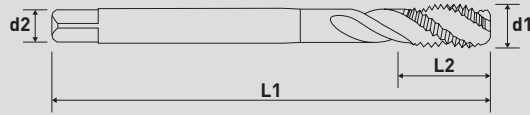
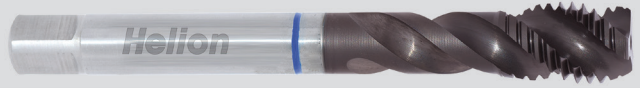
MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



Cutting Conditions

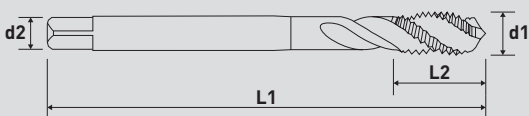


MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
454066M12	M12	12,00	1,75	9,00	110	19	10,20	●
454066M14	M14	14,00	2,00	11,00	110	20	12,00	●
454066M16	M16	16,00	2,00	12,00	110	20	14,00	●
454066M18	M18	18,00	2,50	14,00	125	25	15,50	●
454066M20	M20	20,00	2,50	16,00	140	25	17,50	●
454066M24	M24	24,00	3,00	18,00	160	30	21,00	●
454066M30	M30	30,00	3,50	22,00	180	35	26,50	●

● **Stock** | Disponible ○ **Under Request** | Bajo Pedido



HIGH PERFORMANCE MACHINE TAP HSS-E

MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



Cutting Conditions

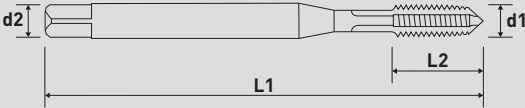


THREAD LINE 323

45.5040

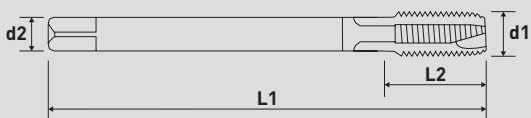
HIGH PERFORMANCE
MACHINE TAP HSS-E

MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
455040M02	M2	2,00	0,40	2,80	45	8	1,60	●
455040M025	M2,5	2,50	0,45	2,80	50	9	2,05	●
455040M03	M3	3,00	0,50	3,50	56	10	2,50	●
455040M04	M4	4,00	0,70	4,50	63	12	3,30	●
455040M05	M5	5,00	0,80	6,00	70	14	4,20	●
455040M06	M6	6,00	1,00	6,00	80	16	5,00	●
455040M08	M8	8,00	1,25	8,00	90	17	6,80	●
455040M10	M10	10,00	1,50	10,00	100	20	8,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido



MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



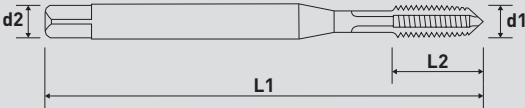
Cutting Conditions



45.5144

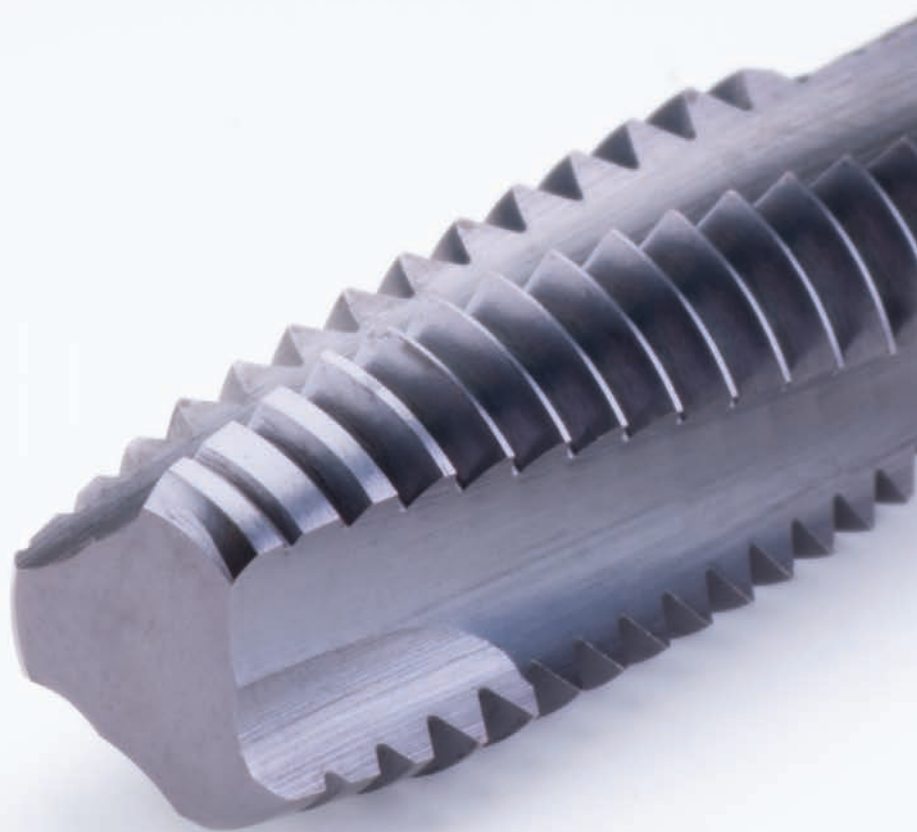
HIGH PERFORMANCE MACHINE TAP HSS-E

MACHO DE
MÁQUINA DE ALTO
RENDIMIENTO HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
455144MF6075	MF6	6,00	0,75	4,50	80	13	5,20	●
455144MF8075	MF8	8,00	0,75	6,00	80	14	7,20	●
455144MF81	MF8	8,00	1,00	6,00	90	16	7,00	●
455144MF101	MF10	10,00	1,00	7,00	90	16	9,00	●
455144MF10125	MF10	10,00	1,25	7,00	100	20	8,80	●
455144MF121	MF12	12,00	1,00	9,00	100	20	11,00	●
455144MF12125	MF12	12,00	1,25	9,00	100	20	10,80	●
455144MF1215	MF12	12,00	1,50	9,00	100	20	10,50	●
455144MF1415	MF14	14,00	1,50	11,00	100	20	12,50	●
455144MF1615	MF16	16,00	1,50	12,00	100	22	14,50	●
455144MF1815	MF18	18,00	1,50	14,00	110	25	16,50	●
455144MF2015	MF20	20,00	1,50	16,00	125	25	18,50	●
455144MF2415	MF24	24,00	1,50	18,00	140	28	22,50	●

● Stock | Disponible ○ Under Request | Bajo Pedido



46.4070 - HIGH PERFORMANCE MACHINE TAP HSS-E-PM



46 SERIES

High-performance HSS-E taps for threading Inconel Alloys in through and blind holes.

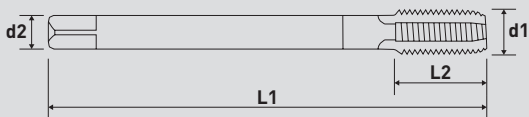
- Available in metric sizes from M3 to M16 and Forms B and C.
- Shark coating for high wear resistance and extended durability.
- 6HX tolerance for precise threading, efficient chip evacuation and high-quality finishes.

Machos HSS-E de alto rendimiento para roscado de aleaciones de Inconel en agujeros pasantes y ciegos.

- Disponibles en medidas métricas de M3 a M16 y geometrías B y C.
- Recubrimiento Shark para una elevada resistencia al desgaste y mayor durabilidad
- Tolerancia 6HX para un roscado preciso, evacuación eficiente de la viruta y acabados de alta calidad.

46 SERIES INDEX

Code Código	46.4040	46.4046	46.4070	46.4076		
						
Page Página	332	333	334	335		
Tool Material M. herramienta	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM		
Ø Range Diámetro (mm)	3 - 10	12 - 16	3 - 10	12 - 16		
Thread Style Tipo de Rosca	M	M	M	M		
Coating Recubrimiento	Shark	Shark	Shark	Shark		
Form Forma	B	B	C	C		
Tolerance Tolerancia	6HX	6HX	6HX	6HX		
Norm Norma	DIN 371	DIN 376	DIN 371	DIN 376		
Through Hole Agujero pasante	●	●	○	○		
Blind Hole Agujero Ciego			●	●		
P Carbon Steel						
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless						
K Cast Iron	○	○	○	○		
N Non Ferrous						
G Graphite						
S Super Alloys	★	★	★	★		
Eshop Tienda online						



46.4046

HIGH PERFORMANCE MACHINE TAP HSS-E-PM

MACHO DE MÁQUINA DE ALTO
RENDIMIENTO HSS-E-PM

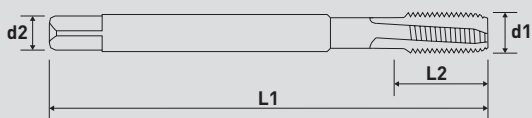


Cutting
Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
464046M12	M12	12,00	1,75	9,00	110	24	10,20	●
464046M16	M16	16,00	2,00	12,00	110	26	14,00	●

● Stock | Disponible ○ Under Request | Bajo Pedido



MACHO DE MÁQUINA DE ALTO RENDIMIENTO HSS-E-PM



Cutting Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
464076M12	M12	12,00	1,75	9,00	110	24	10,20	●
464076M16	M16	16,00	2,00	12,00	110	26	14,00	●





48 SERIES

HSS-E forming taps for chipless threading and superior thread resistance.

- Available in metric sizes from M3 to M20, with or without internal cooling.
- TiN Up coating for increased wear resistance and extended tool life.
- Geometry and 6HX tolerance for precise, stable threading without chip generation.

Machos laminadores HSS-E para roscado sin viruta y alta resistencia de rosca.

- Disponibles en medidas métricas de M3 a M20, con o sin refrigeración interna.
- Recubrimiento TiN Up para una mayor resistencia al desgaste y vida útil prolongada
- Geometría y tolerancia 6HX para un roscado preciso, estable y sin creación de viruta.

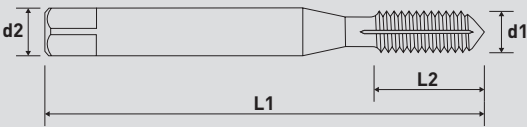
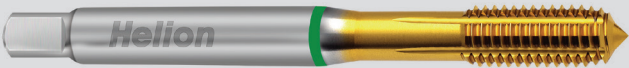
48 SERIES INDEX

Code Código	48.7010	48.7016				
						
Page Página	340	341				
Tool Material M. herramienta	HSS-E	HSS-E				
ø Range Diámetro (mm)	3 - 10	12 - 20				
Thread Style Tipo de Rosca	M	M				
Coating Recubrimiento	TiN Up	TiN Up				
Form Forma	C	C				
Tolerance Tolerancia	6HX	6HX				
Norm Norma	DIN 2174	DIN 2174				
Through Hole Agujero pasante	●	●				
Blind Hole Agujero Ciego	●	●				
P Carbon Steel	●	●				
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless	○	●				
K Cast Iron	○					
N Non Ferrous						
G Graphite						
S Super Alloys	○	○				
Eshop Tienda online						

48.7010

FORMING TAP HSS-E

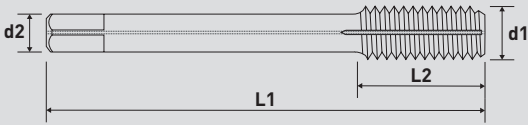
MACHO DE
LAMINACIÓN HSS-E



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
487010M03	M3	3,00	0,50	3,50	56	10	2,80	●
487010M04	M4	4,00	0,70	4,50	63	12	3,70	●
487010M05	M5	5,00	0,80	6,00	70	14	4,65	●
487010M06	M6	6,00	1,00	6,00	80	16	5,55	●
487010M08	M8	8,00	1,25	8,00	90	17	7,40	●
487010M10	M10	10,00	1,50	10,00	100	20	9,30	●

Forming taps recommended for the aeronautical industry, for other sectors, consult your application with the Technical Department. Machos de laminación para la industria aeronáutica, para otros sectores, consultar su aplicación con el Departamento Técnico.

● Stock | Disponible ○ Under Request | Bajo Pedido



48.7016

FORMING TAP HSS-E INTERNAL COOLANT

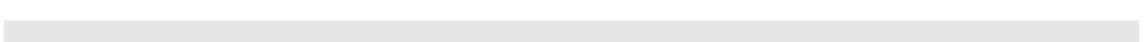
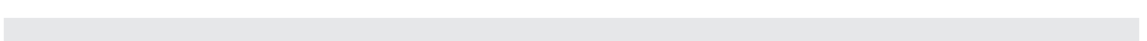
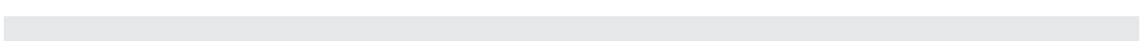
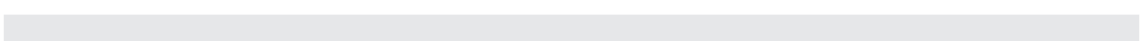
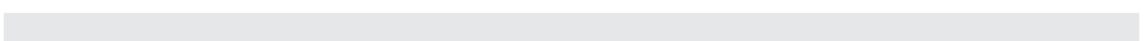
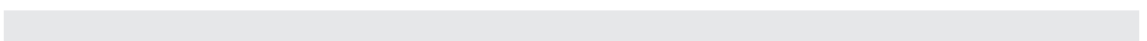
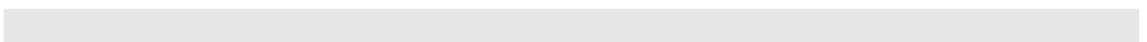
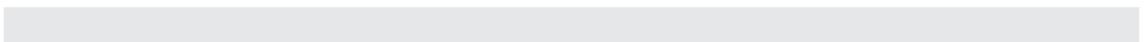
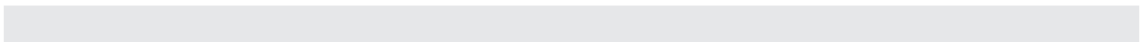
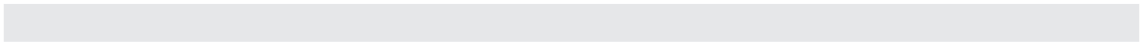
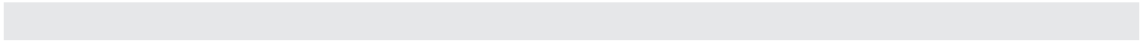
MACHO DE LAMINACIÓN HSS-E
REFRIGERACIÓN INTERIOR



Cutting
Conditions



Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
487016M12	M12	12,00	1,75	9,00	110	24	11,20	●
487016M14	M14	14,00	2,00	11,00	110	26	13,10	●
487016M16	M16	16,00	2,00	12,00	110	26	15,10	●
487016M20	M20	20,00	2,50	16,00	140	32	18,90	●



Forming taps recommended for the aeronautical industry, for other sectors, consult your application with the Technical Department. Machos de laminación para la industria aeronáutica, para otros sectores, consultar su aplicación con el Departamento Técnico.

● Stock | Disponible ○ Under Request | Bajo Pedido





SOLID CARBIDE THREADING

Solid carbide threading tools for high-precision machining in demanding materials.

- Machine taps and thread mills for through and blind holes.
- Solutions for hardened steels up to 62 HRC and a wide range of materials.
- High rigidity and wear resistance for precise threads and consistent performance.

Herramientas de roscado en metal duro para mecanizados de alta precisión en materiales exigentes.

- Machos de máquina y fresas de roscar para agujeros pasantes y ciegos.
- Soluciones para aceros templados de hasta 62 HRC y una amplia variedad de materiales.
- Elevada rigidez y resistencia al desgaste para obtener roscas precisas y un rendimiento constante.

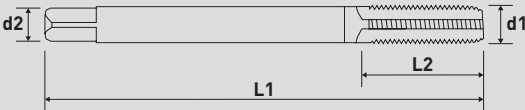
SOLID CARBIDE THREADING INDEX

Code Código	47.9010	4990	4991			
						
Page Página	346	347	348			
Tool Material M. herramienta	SC	SC	SC			
ø Range Diámetro (mm)	3 - 16	2 - 16	4 - 16/8 - 16			
Thread Style Tipo de Rosca	M	M	M / MF			
Coating Recubrimiento	Shark	Racer	Racer			
Form Forma	D					
Tolerance Tolerancia	6H					
Norm Norma	DIN 371	HELION	HELION			
Through Hole Agujero pasante	●	●	●			
Blind Hole Agujero Ciego	●	●	●			
P Carbon Steel	●	●	●			
H HRC 55 - 62	★	●	●			
H HRC 70 - 75	○	○	○			
M Stainless		●	●			
K Cast Iron		●	●			
N Non Ferrous		○	○			
G Graphite						
S Super Alloys		●	●			
Eshop Tienda online						

47.9010

SC MACHINE TAP
FOR HARDENED
STEELS

MACHO DE MÁQUINA SC
PARA TEMPLADOS



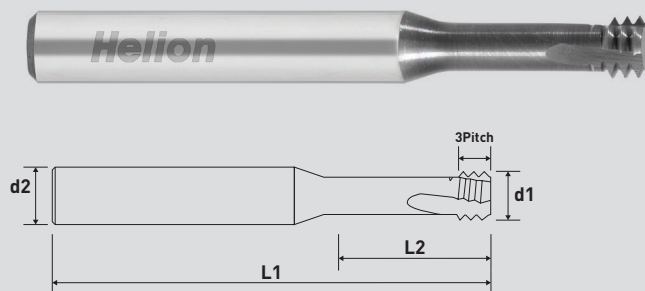
Cod.	M	d1	P	d2	L1	L2	Previous Hole Ø	Stock
479010M03	M3	3,00	0,50	3,50	56	12	2,60	●
479010M04	M4	4,00	0,70	4,50	63	14	3,40	●
479010M05	M5	5,00	0,80	6,00	70	17	4,30	●
479010M06	M6	6,00	1,00	6,00	80	20	5,10	●
479010M08	M8	8,00	1,25	8,00	90	20	6,90	●
479010M10	M10	10,00	1,50	10,00	100	24	8,60	●
479010M12	M12	12,00	1,75	12,00	110	28	10,40	●
479010M16	M16	16,00	2,00	16,00	110	40	14,10	●

48 - 63 HRC / Vc = 1 - 2 m/min

Use drill bit 62.6000 for the holes prior to threading,
according to the recommended diameters for each thread.
Utilice la borca 62.6000 para los agujeros previos de
acuerdo con los diámetros recomendados para cada rosca.

● Stock | Disponible ○ Under Request | Bajo Pedido

4990

SC MICRO
THREAD MILL 2XDMICRO FRESA DE
ROSCAR SC 2XDCutting
Conditions

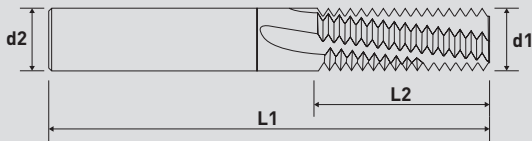
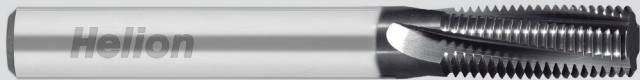
Cod.	M	d1	P	d2	L1	L2	Z	Previous Hole Ø	Stock
4990M20040	M2	1,55	0,40	3,00	39	4,50	3	1,60	●
4990M22045	M2,2	1,65	0,45	6,00	54	5,00	3	1,75	●
4990M25045	M2,5	1,95	0,45	6,00	54	5,50	3	2,05	●
4990M30050	M3	2,35	0,50	6,00	54	6,50	3	2,50	●
4990M35060	M3,5	2,75	0,60	6,00	54	7,50	3	2,90	●
4990M40070	M4	3,10	0,70	6,00	54	9,00	3	3,30	●
4990M45075	M4,5	3,40	0,75	6,00	54	10,50	3	3,75	●
4990M50080	M5	3,80	0,80	6,00	54	12,50	3	4,20	●
4990M60100	M6	4,65	1,00	6,00	54	14,00	3	5,00	●
4990M80125	M8	5,95	1,25	6,00	54	18,00	3	6,75	●
4990M10150	M10	7,80	1,50	8,00	64	23,00	3	8,50	●
4990M12175	M12	9,00	1,75	10,0	73	26,00	3	10,25	●
4990M16200	M16	11,80	2,00	12,0	80	35,00	4	14,00	●

● Stock | Disponible ○ Under Request | Bajo Pedido

4991

SC THREAD
MILL 2XD

FRESA DE
ROSCAR SC 2XD



Cod.	M	d1	P	d2	L1	L2	Z	Previous Hole Ø	Stock
4991M40070	M4	3,10	0,70	6	55	8	3	3,30	●
4991M50080	M5	4,00	0,80	6	55	12	3	4,20	●
4991M60100	M6	4,50	1,00	6	55	12	3	5,00	●
4991M60100	M7	4,50	1,00	6	55	12	3	6,00	●
4991M80125	M8	6,00	1,25	6	55	15	3	6,80	●
4991M12175	M12	8,00	1,75	8	66	20	3	10,20	●
4991M14200	M14	10,00	2,00	10	80	25	4	12,00	●
4991M16200	M16	12,00	2,00	12	82	30	4	14,00	●

Cod.	M	d1	P	d2	L1	L2	Z	Previous Hole Ø	Stock
4991MF80100	MF8	6,00	1,00	6	55	15	3	7,00	●
4991MF10100	MF10	8,00	1,00	8	66	20	3	9,00	●
	MF12	8,00	1,00	8	66	20	3	11,00	●
4991MF12125	MF10	8,00	1,25	8	66	20	3	8,80	●
	MF12	8,00	1,25	8	66	20	3	10,80	●
4991M10150	M10	8,00	1,50	8	66	20	3	8,50	●
	MF12	8,00	1,50	8	66	20	3	10,50	●
4991MF12150	M10	8,00	1,50	8	65	20	3	8,50	●
	M11	8,00	1,50	8	65	20	3	9,50	●
	MF12	8,00	1,50	8	65	20	3	10,50	●
4991MF14150	MF14	10,00	1,50	10	80	25	4	13,50	●
4991MF16150	MF16	12,00	1,50	12	82	30	4	14,50	●

Double application with the same tool.

Doble aplicación con la misma herramienta.

● Stock | Disponible ○ Under Request | Bajo Pedido



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