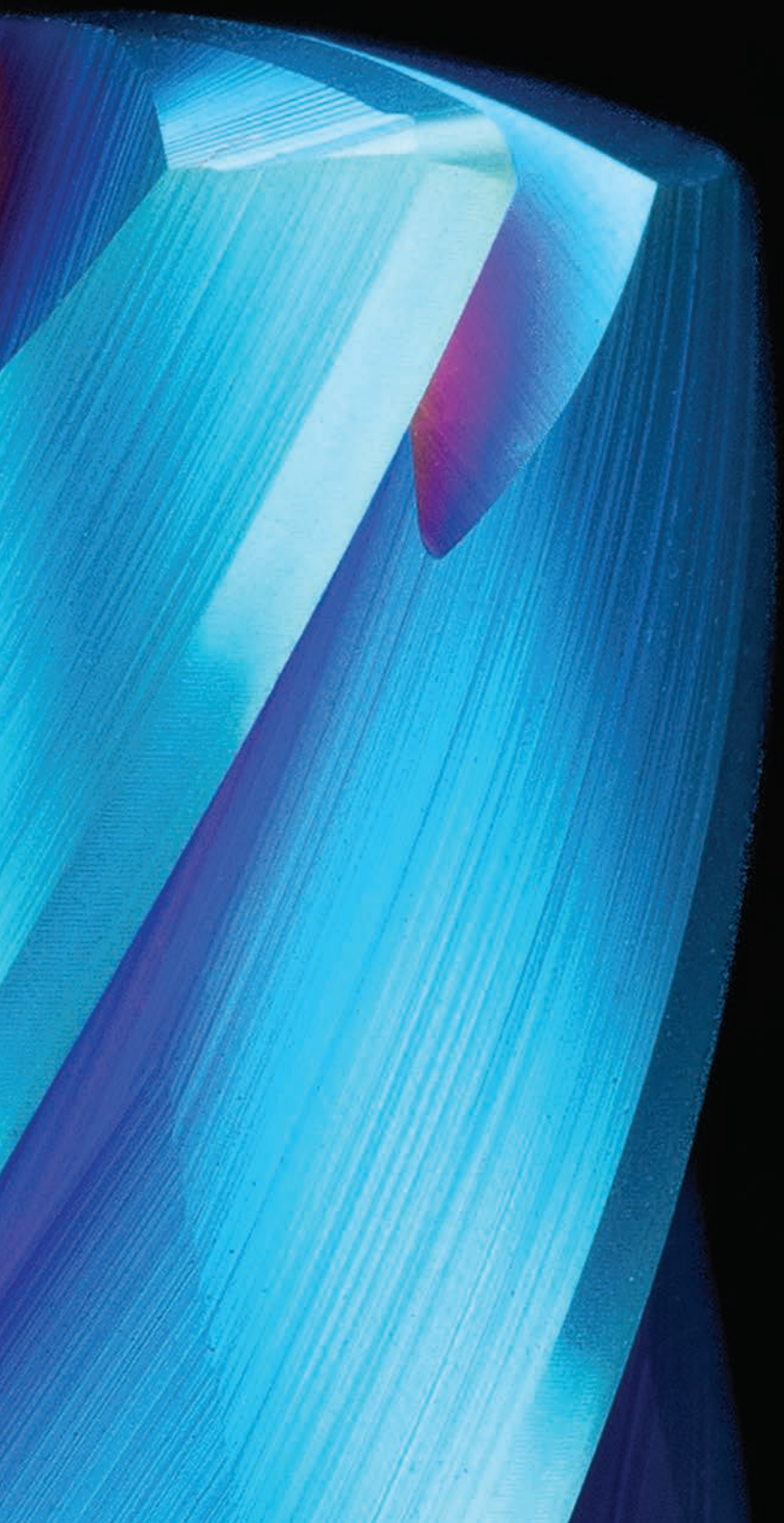


ENIT 77MM



MILL LINE INDEX

Code Código	90.6221	90.6225	90.6226	90.7220	91.6424	92.6220	92.6224	92.6823
								
Page Página	50	51	52	53	80	96	97	98
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	0,5 - 12	3 - 16	2 - 16	6 - 12	2 - 16	0,5 - 12	1 - 12	0,1 - 5
Helix Angle Ángulo de Hélice	35°	30°	35°	35°	42°	30°	30°	30°
Coating Recubrimiento	Volcano	Racer Plus	Volcano	Racer Gold	Volcano	Deep Blue	Deep Blue	Deep Blue
Type Shape Tipo de Forma	Ball	Ball Extra Long	Ball Extra Long	Ball Long	Ball	Ball	Ball Long	Ball Long Neck
No. of Flutes Nº de Canales	Z2	Z2	Z2	Z2	Z4	Z2	Z2	Z2
Full-Slot Ranurado								
Copy Copiado	●	●	●	●	●	●	●	●
Side Milling Fresado Lateral								
Ramping Rampa								
Interpolation Interpolación								
Trochoidal Trocoidal								
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	○	○	○	○				
G Graphite								
G GFK/CFK								
S Titanium Alloy					●			
S NiAlloys					●			

92.6228	82.6227	82.6228	82.6229	93.1824	94.3223	96.8822	80.7421F	89.0221	89.0223
									
100	101	102	103	116	122	136	172	184	185
SC	SC	SC	SC	CBN	SC	SC	SC	HSS	HSS
1 - 12	1 - 4	1,5 - 12	2 - 4	1 - 6	1 - 12	0,2 - 12	1/16 - 5/8	2 - 20	3 - 20
30°	30°	30°	30°	30°	45°	30°	35°	30°	30°
Deep Blue	Racer Plus	Racer Plus	Racer Plus	CBN Solid	Speed ZR	Diamond	Racer Plus	Bright	Bright
Ball Taper Neck	Ball Taper Neck	Ball Taper Neck	Ball Taper Neck	Ball	Ball	Ball	Ball	Ball	Ball Long
Z2	Z2	Z2	Z2	Z2	Z2	Z2	Z2	Z2	Z2
●	●	●	●	●	●	●	●	●	●
●	●	●	●				●	●	●
●	●	●	●				●	●	●
●	●	●	●	●			●		
●	★	★	★	●			○		
★				●					
				★					
							○	○	○
							○	○	○
○	○	○	○				●	●	●
○	○	○	○				●	●	●
					★		○	●	●
					●		○	●	●
					○		○	○	○
						★			
						●			
							○		

★ Best Choice

● First Choice

○ Suitable

MILL LINE INDEX

Code Código	91.7232	92.7534	94.0100	90.6702	90.6202	90.6204	90.6205	94.0201
								
Page Página	81	104	123	54	55	57	58	124
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	2 - 8	4 - 8	3 - 12	1 - 12	0,1 - 20	3 - 16	3 - 12	3 - 20
Helix Angle Ángulo de Hélice	-	30°	30°	30°	35°	35°	30°	45°
Coating Recubrimiento	Racer Gold	TaC	Bright	Racer Gold	Volcano	Volcano	Racer	Bright
Type Shape Tipo de Forma	Ball	Barrel	Square	Square	Square	Square	Square Extra Long	Square
No. of Flutes Nº de Canales	Z2	Z6	Z1	Z2	Z2	Z2	Z2	Z2
Full-Slot Ranurado			●	●	●	○	○	●
Copy Copiado	●	●						
Side Milling Fresado Lateral			●	●	●	●	●	●
Ramping Rampa			●	●	●			●
Interpolation Interpolación			●	●	●	○	○	●
Trochoidal Trocoidal								
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			★	○	○	○	○	★
G Graphite								
G GFK/CFK								
S Titanium Alloy		○						
S NiAlloys		○						

94.3203	80.7202F	84.3202F	89.0202	89.0204	90.6309	91.6302	94.0302	84.0303F	89.0302
									
125	173	174	186	187	59	82	126	175	188
SC	SC	SC	HSS	HSS	SC	SC	SC	SC	HSS
3 - 20	1/16 - 5/8	1/4 - 5/8	3 - 20	3 - 20	1,5 - 9,7	1 - 20	3 - 20	1/8 - 5/8	2,8 - 20
45°	35°	55°	30°	30°	30°	42°	45°	50°	30°
TaC	Racer Plus	Speed ZR	Bright	Bright	Racer Plus	Volcano	Bright	Bright	Bright
Square	Square	Square	Square	Square Long	Square	Square	Square	Square	Square
Z2	Z2	Z2	Z2	Z2	Z3	Z3	Z3	Z3	Z3
●	●	●	●	○	●	●	●	●	●
●	●	●	●	●	●	●	●	●	○
●	●	●			●	○	●	●	○
●	●	●			●	●	●	●	
	●		●	●	●	●			●
	●		●	●	●	●			●
	●				●	●			
	○		○	○	●	●			○
	○		○	○	○	●			○
	●		●	●	●	●			●
	●		●	●	●	○			●
★	○	★	●	●	○	○	★	●	●
●	○	●	●	●	○	○	●	●	●
○	○	●	○	○	○		○	●	○
	○					●			
						●			

★ Best Choice

● First Choice

○ Suitable

MILL LINE INDEX

Code Código	90.6704	90.6402	90.6404	92.6403	80.7402F	91.7404F	89.0402	89.0404
								
Page Página	60	61	62	105	176	177	189	190
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	HSS	HSS
Ø Range Diámetro (mm)	1 - 12	1 - 20	4 - 20	1 - 16	1/16 - 5/8	1/4 - 5/8	2 - 32	3 - 40
Helix Angle Ángulo de Hélice	30°	35°	35°	45°	35°	43° - 45°	30°	30°
Coating Recubrimiento	Racer Gold	Volcano	Volcano	Deep Blue	Racer Plus	Racer Plus	Bright	Bright
Type Shape Tipo de Forma	Square	Square	Square Long	Square	Square	Square	Square	Square Long
No. of Flutes Nº de Canales	Z4	Z4	Z4	Z4	Z4	Z4	Z4 - Z6	Z4 - Z6
Full-Slot Ranurado	●	●	○	●	●	●	●	○
Copy Copiado								
Side Milling Fresado Lateral	●	●	●	●	●	●	●	●
Ramping Rampa	●	●	○	○	●	●		
Interpolation Interpolación	●	●	●	●	○	●		
Trochoidal Trocoidal	○	○	○	○	○	○		
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	○	○	○				○	○
G Graphite								
G GFK/CFK								
S Titanium Alloy						●		
S NiAlloys						○		

90.6412	90.6413	90.6218	90.6811	90.6815	91.6410	92.6415	82.6217	92.6813	92.6783
									
63	65	66	67	69	89	107	108	109	111
SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
2 - 16	6 - 16	6 - 20	0,5 - 6	1 - 6	4 - 12	3 - 12	1 - 12	0,2 - 6	3 - 16
30°	30°	30°	30°	30°	42°	30°	30°	30°	30°
Racer Plus	Racer Plus	Racer Plus	Volcano	Volcano	Volcano	Deep Blue	Racer Plus	Deep Blue	Deep Blue
Corner Radius	Corner Radius Long	Corner Radius Extra Long	Corner Radius Long Neck	Corner Radius Long Neck	Corner Radius	Corner Radius	Corner Radius Taper Neck	Corner Radius Long Neck	High Feed
Z4	Z4	Z2	Z2	Z4	Z4	Z4	Z2	Z2	Z4 - Z6
○	○	○	○	○	●	●	○	○	●
●	●	●	●	●	●		●	●	
○	○	○	○	○	●	●		○	
●	●		○	○	○	●			
○	○	○	○	○	●	●			
					○				
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●		●	●		●	★	●	●
						★		★	★
●	●	●	●	●	●				
○	○	○	○	○	●				
●	●	●	●	●	●	○	○	○	○
●	●	●	●	●	○	○	○	○	○
○	○	○	○	○	○				
○	○	○	○	○	○				
○	○	○	○	○					
					●				
					●				

★ Best Choice

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MILL LINE INDEX

Code Código	93.1810	94.3213	96.8814	96.8415	91.7414F	90.4771	91.1479	91.1480
								
Page Página	117	128	140	145	178	70	83	84
Tool Material M. herramienta	CBN	SC	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	1 - 6	1 - 12	0,2 - 6	2 - 12	1/4 - 5/8	6 - 16	3 - 20	3 - 20
Helix Angle Ángulo de Hélice	30°	30°	30°	30°	43° - 45°	43° - 45°	35° - 38°	43°-45°-47°
Coating Recubrimiento	CBN Solid	Speed ZR	Diamond	Diamond	Racer Plus	Racer	Volcano	Racer Plus
Type Shape Tipo de Forma	Corner Radius	Corner Radius	Corner Radius	Corner Radius	Corner Radius	Chamfer	Chamfer	Chamfer
No. of Flutes Nº de Canales	Z2	Z2	Z2	Z4	Z4	Z4	Z4	Z4
Full-Slot Ranurado		●	○	●	●	●	★	●
Copy Copiado	●		●					
Side Milling Fresado Lateral		●	○	○	●	●	★	●
Ramping Rampa		●	○	○	●	●	★	●
Interpolation Interpolación		○	○	○	●	●	★	●
Trochoidal Trocoidal					●	○	○	○
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		○				○		
G Graphite			★	★				
G GFK/CFK			●	●				
S Titanium Alloy					●		●	●
S NiAlloys					○		●	●

91.5479	91.4472	91.4482	94.3302	94.3409	90.5572	90.5770	91.6505	90.6572	90.6705
									
85	86	87	129	130	71	72	88	73	74
SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
3 - 20	6 - 20	6 - 16	3 - 25	3 - 20	6 - 20	6 - 16	3 - 32	3 - 20	6 - 16
40°	45°	35° - 38°	43° - 47°	43° - 47°	40°	40°	45°	40° - 42°	42° - 44°
Racer Plus	Volcano Gold	Volcano Gold	Speed ZR	Speed ZR	Racer Plus	Racer	Racer Plus	Racer Plus	Racer
Chamfer	Chamfer	Chamfer	Chamfer	Chamfer	Trochoidal	Trochoidal	Square Extra Long	Chamfer	Square
Z4	Z4	Z4	Z3	Z4	Z5	Z5	Z4 - Z6	Z5 - Z6	Z6
●	●	●	●	●					
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●					
●	●	●	○	○	●	●		●	●
○	○	○			★	★	●	○	○
●	●	●			●	●	●	●	●
●	●	●			●	●	●	●	●
●	●	●			●	●	●	●	●
							○		
●	●	●			●	●	●	●	●
●	★	★			○	○	●	○	○
●	●	●			●	●	●	●	●
○	○	○			●	●	○	●	●
○	○	○	★	★	○	○		○	○
○	○	○	●	●	○	○		○	○
			○	○	○	○		○	○
●	●	●					●		
●	●	●					●		

★ Best Choice

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MILL LINE INDEX

Code Código	92.6505	94.3535	90.6601	91.6614	91.7612	89.0602	89.0604	70.6160
								
Page Página	106	127	75	90	91	191	192	152
Tool Material M. herramienta	SC	SC	SC	SC	SC	HSS	HSS	SC
Ø Range Diámetro (mm)	3 - 25	6 - 20	3 - 25	5 - 20	4 - 12	6 - 30	10 - 20	3 - 6
Helix Angle Ángulo de Hélice	45°	45°	25°	42°	-	30°	30°	30°
Coating Recubrimiento	Deep Blue	Speed ZR	Racer Plus	Volcano	Racer Gold	Bright	Bright	Racer Plus
Type Shape Tipo de Forma	Square	Square	Roughing	Roughing	Roughing	Roughing	Roughing Long	Engraver
No. of Flutes N° de Canales	Z6 - Z8	Z6	Z4	Z4 - Z5	Z4	Z4	Z4	Z1
Full-Slot Ranurado			●	●	●	●	●	●
Copy Copiado								
Side Milling Fresado Lateral	●	●	●	●	●	●	●	
Ramping Rampa			○	○				
Interpolation Interpolación			○	●				
Trochoidal Trocoidal	●	●	○	●	●			
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		○	○			○	○	○
G Graphite								
G GFK/CFK								
S Titanium Alloy		○		●				○
S NiAlloys		○		●				○

90.6460	90.6490	70.6480	71.7045	70.6045	85.0050	85.0051			
									
153	154	155	156	157	158	162			
SC	SC	SC	SC	SC	SC	SC			
4 - 20	1 - 20	R 0,2 - 10	4 - 10	2 - 16	15 - 200	15 - 200			
60°	90°	-	-	-	-	-			
Racer Plus	Racer Plus	Racer Plus	Racer Gold	Racer Plus	Bright	Bright			
Deburring	Deburring	Corner Round	Twin Deburring	Twin Deburring	Slitting Saw Fine	Slitting Saw Coarse			
Z4/5/6	Z3/4/5/6	Z4	Z4	Z4	-	-			
					●	●			
●	●	●	●	●					
●	●		●	●					
●	●	●	●	●	●	●			
●	●	●	●	●	●	●			
○	○	●	●	●					
		○		●					
●	●	●	○	●	○	○			
○	○	○		○	○	○			
●	●	●	●	●	●	●			
●	●	●	○	●					
●	●	●		○	●	●			
●	●	●	●	●	●	●			
○	○	○		○	●	●			
			○						
			○						

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90.5572 - TROCHOIDAL SC END MILL Z5



90 SERIES

Universal solid carbide end mills for machining a wide range of materials.

- Suitable for steels up to 55 HRC and a broad range of applications.
- Designed for high feeds and cutting speeds to increase productivity.
- Stable performance, long tool life and precise finishes in CNC machining.

Fresas de metal duro para aplicación universal en el mecanizado de múltiples materiales.

- Adecuadas para aceros de hasta 55 HRC y una amplia variedad de aplicaciones.
- Permiten trabajar a altos avances y velocidades para aumentar la productividad.
- Rendimiento estable, larga vida útil y acabados precisos en mecanizado CNC.

90 SERIES INDEX

Code Código	90.6221	90.6225	90.6226	90.7220	90.6702	90.6202
						
Page Página	50	51	52	53	54	55
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	0,5 - 12	3 - 16	2 - 16	6 - 12	1 - 12	0,1 - 20
Helix Angle Ángulo de Hélice	35°	30°	35°	35°	30°	35°
P Carbon Steel	●	●	●	●	●	●
H HRC 55 - 62	●	●	●	●	●	●
H HRC 70 - 75						
M Stainless	●	●	●	●	●	●
K Cast Iron	●	●	●	●	●	●
N Non Ferrous	○	○	○	○	○	○
G Graphite						
S Super Alloys						
Full-Slot Ranurado					●	●
Copy Copiado		●	●	●		
Side Milling Fresado Lateral					●	●
Ramping Rampa					●	●
Interpolation Interpolación					●	●
Trochoidal Trocooidal						
Eshop Tienda online						

90.6204	90.6205	90.6309	90.6704	90.6402	90.6404	90.6412	90.6413
							
57	58	59	60	61	62	63	65
SC	SC	SC	SC	SC	SC	SC	SC
3 - 16	3 - 12	1,5 - 9,7	1 - 12	1 - 20	4 - 20	2 - 16	6 - 16
35°	30°	30°	30°	35°	35°	30°	30°
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●
○	○	○	○	○	○	○	○
○	○	●	●	●	○	○	○
						●	●
●	●	●	●	●	●	○	○
		●	●	●	○	●	●
○	○	●	●	●	●	○	○
			○	○	○		
							

★ Best Choice ● First Choice ○ Suitable

90 SERIES INDEX

Code Código		90.6218	90.6811	90.6815	90.4771	90.5572	90.5770
							
Page Página		66	67	69	70	71	72
Tool Material M. herramienta		SC	SC	SC	SC	SC	SC
ø Range Diámetro (mm)		6 - 20	0,5 - 6	1 - 6	6 - 16	6 - 20	6 - 16
Helix Angle Ángulo de Hélice		30°	30°	30°	43° - 45°	40°	40°
P Carbon Steel		●	●	●	●	●	●
H HRC 55 - 62		●	●	●	●	●	●
H HRC 70 - 75							
M Stainless		●	●	●	●	●	●
K Cast Iron		●	●	●	●	●	●
N Non Ferrous		○	○	○	○	○	○
G Graphite							
S Super Alloys							
Full-Slot Ranurado		○	○	○	●		
Copy Copiado		●	●	●			
Side Milling Fresado Lateral		○	○	○	●	●	●
Ramping Rampa			○	○	●		
Interpolation Interpolación		○	○	○	●	●	●
Trochoidal Trocooidal					○	★	★
Eshop Tienda online							

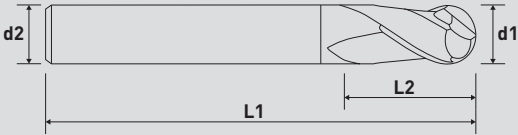
90.6572	90.6705	90.6601					
							
73	74	75					
SC	SC	SC					
3 - 20	6 - 16	3 - 25					
40° - 42°	42° - 44°	25°					
●	●	●					
●	●	●					
●	●	●					
●	●	●					
○	○	○					
		●					
●	●	●					
		○					
●	●	○					
○	○	○					
							

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90.6221

BALL NOSE
SC END MILL
Z2 · 35°

FRESA ESFÉRICA
SC Z2 · 35°



P

M

K

N

S

H

G

SC

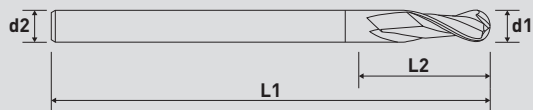
VOLCANO

55 HRC

HELIX 35°

Cod.	d1	d2	R	L1	L2	Z	Stock
9062210050	0,5	4	0,25	45	1	2	●
9062210100	1	4	0,5	50	2,5	2	●
9062210150	1,5	4	0,75	50	4	2	●
9062210200	2	4	1	50	5	2	●
9062210250	2,5	4	1,25	50	6	2	●
9062210303	3	3	1,5	60	8	2	●
9062210304	3	4	1,5	50	8	2	●
9062210400	4	4	2	60	8	2	●
9062210505	5	5	2,5	80	8	2	●
9062210600	6	6	3	60	10	2	●
9062210800	8	8	4	60	12	2	●
9062211000	10	10	5	70	15	2	●
9062211200	12	12	6	70	18	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



90.6225

**BALL NOSE SC
END MILL EXTRA
LONG Z2 · 30°**

FRESA ESFÉRICA SC
EXTRA LARGA Z2 · 30°



Cutting
Conditions



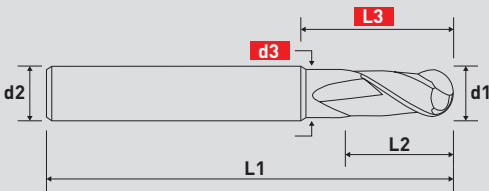
Cod.	d1	d2	L1	L2	Z	Stock
9062250300	3	3	75	6	2	○
9062250301	3	3	100	6	2	○
9062250400	4	4	100	6	2	○
9062250500	5	5	100	6	2	○
9062250601	6	6	100	15	2	○
9062250602	6	6	150	15	2	○
9062250603	6	6	200	30	2	○
9062250801	8	8	150	25	2	○
9062250802	8	8	200	50	2	○
9062251001	10	10	150	25	2	○
9062251002	10	10	200	50	2	○
9062251201	12	12	150	25	2	○
9062251202	12	12	200	25	2	○
9062251400	14	14	200	50	2	○
9062251600	16	16	200	50	2	○

● Stock | Disponible ○ Under Request | Bajo Pedido

90.6226

BALL NOSE SC
END MILL EXTRA
LONG Z2 · 35°

FRESA ESFÉRICA SC
EXTRA LARGA Z2 · 35°



P

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SC

VOLCANO

62 HRC

HELIX 35°

Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9062260200	2	6	1,9	1	80	2,4	40	2	●
9062260301	3	6	-	1,5	100	8	-	2	●
9062260401	4	6	3,9	2	100	4,8	60	2	●
9062260402	4	4	-	2	80	8	-	2	●
9062260403	4	6	-	2	120	8	-	2	●
9062260601	6	6	-	3	80	12	-	2	●
9062260602	6	6	-	3	120	12	-	2	●
9062260801	8	8	-	4	90	14	-	2	●
9062260802	8	8	-	4	150	14	-	2	●
9062261001	10	10	-	5	120	18	-	2	●
9062261002	10	10	-	5	180	18	-	2	●
9062261201	12	12	-	6	150	22	-	2	●
9062261202	12	12	-	6	200	22	-	2	●
9062261602	16	16	-	8	200	30	-	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



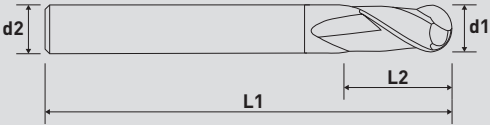
90.7220

BALL NOSE
SC END MILL
LONG Z2 · 35°

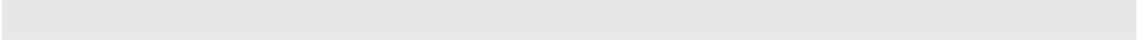
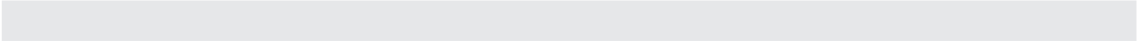
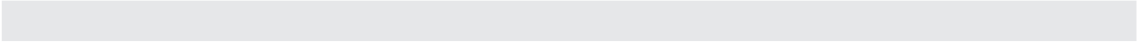
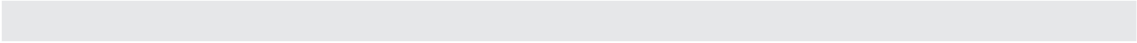
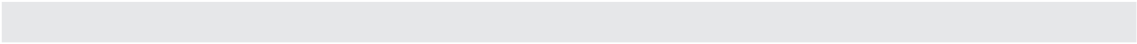
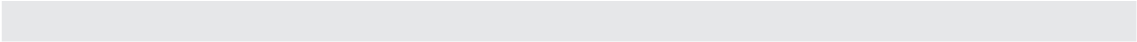
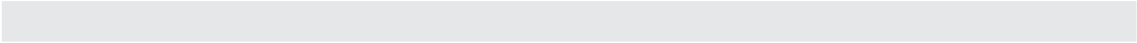
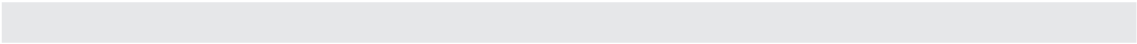
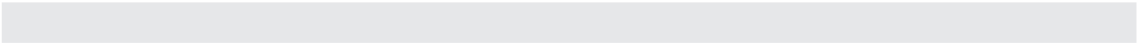
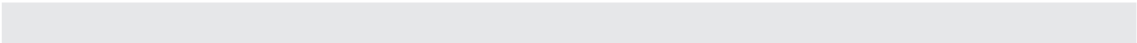
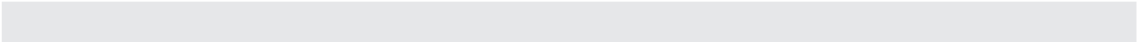
FRESA ESFÉRICA
SC LARGA Z2 · 35°



Cutting
Conditions



Cod.	d1	d2	R	L1	L2	Z	Stock
9072200600	6	6	3	100	12	2	●
9072200800	8	8	4	100	16	2	●
9072201000	10	10	5	100	20	2	●
9072201200	12	12	6	100	24	2	●

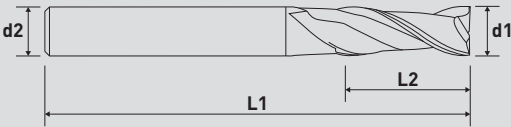


● Stock | Disponible ○ Under Request | Bajo Pedido

90.6702

SQUARE SC
END MILL
Z2 · 30°

FRESA PLANA
SC Z2 · 30°



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SC

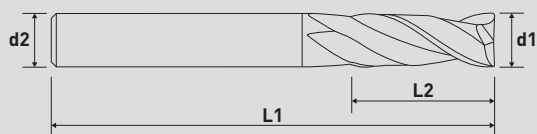
RACER
GOLD

55
HRC

HELIX
30°

Cod.	d1	d2	L1	L2	Z	Stock
9067020100	1	3	50	3	2	●
9067020200	2	3	50	6	2	●
9067020300	3	3	50	8	2	●
9067020400	4	4	50	11	2	●
9067020500	5	6	50	13	2	●
9067020600	6	6	50	16	2	●
9067020800	8	8	60	20	2	●
9067021000	10	10	75	25	2	●
9067021200	12	12	75	32	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



90.6202

**SQUARE SC
END MILL
LONG Z2 · 35°**

FRESA PLANA SC
LARGA Z2 · 35°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
9062020010	0,1	4	38	0,2	2	●
9062020020	0,2	4	38	0,4	2	●
9062020030	0,3	4	38	0,6	2	●
9062020040	0,4	4	38	0,8	2	●
9062020050	0,5	4	38	1	2	●
9062020060	0,6	4	38	1,2	2	●
9062020070	0,7	4	38	1,4	2	●
9062020080	0,8	4	38	1,6	2	●
9062020090	0,9	4	38	2	2	●
9062020100	1	4	40	2,5	2	●
9062020150	1,5	4	40	4	2	●
9062020200	2	4	40	6	2	●
9062020250	2,5	4	45	8	2	●
9062020300	3	4	45	8	2	●
9062020350	3,5	6	45	10	2	●
9062020400	4	4	45	10	2	●
9062020450	4,5	6	45	11	2	●
9062020500	5	6	50	13	2	●
9062020550	5,5	6	50	13	2	●
9062020600	6	6	60	15	2	●
9062020650	6,5	8	60	16	2	●
9062020700	7	8	60	16	2	●
9062020750	7,5	8	60	16	2	●
9062020800	8	8	70	20	2	●
9062020850	8,5	10	70	19	2	●
9062020900	9	10	70	19	2	●

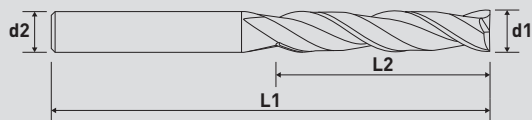


90.6202 | SQUARE SC END MILL LONG Z2 · 35°

FRESA PLANA SC LARGA Z2 · 35°

Cod.	d1	d2	L1	L2	Z	Stock
9062020950	9,5	10	70	19	2	●
9062021000	10	10	75	25	2	●
9062021100	11	12	75	22	2	●
9062021200	12	12	75	26	2	●
9062021400	14	14	80	26	2	●
9062021600	16	16	100	40	2	●
9062022000	20	20	100	40	2	●

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



90.6204

**SQUARE SC
END MILL
LONG Z2 · 35°**

FRESA PLANA SC
LARGA Z2 · 35°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
9062040300	3	6	70	20	2	●
9062040400	4	6	70	20	2	●
9062040500	5	6	75	25	2	●
9062040600	6	6	80	30	2	●
9062040800	8	8	100	40	2	●
9062041000	10	10	100	50	2	●
9062041200	12	12	100	50	2	●
9062041600	16	16	150	80	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

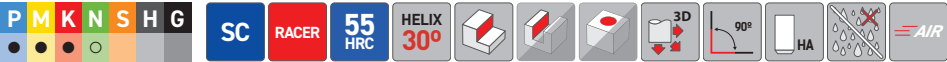
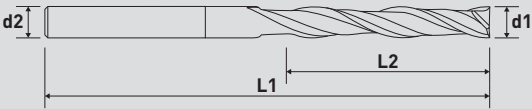
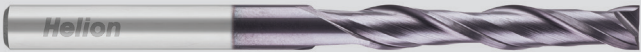
90.6205

SQUARE SC
END MILL EXTRA
LONG Z2 · 30°

FRESA PLANA SC
EXTRA LARGA Z2 · 30°

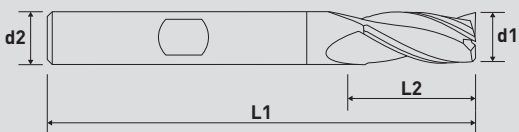


Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
9062050300	3	3	75	25	2	○
9062050400	4	4	100	25	2	○
9062050500	5	5	100	25	2	○
9062050601	6	6	100	25	2	○
9062050602	6	6	100	40	2	○
9062050603	6	6	150	25	2	○
9062050604	6	6	150	40	2	○
9062050801	8	8	100	46	2	○
9062050802	8	8	150	25	2	○
9062050803	8	8	150	45	2	○
9062051001	10	10	150	38	2	○
9062051002	10	10	150	50	2	○
9062051003	10	10	150	65	2	○
9062051201	12	12	150	38	2	○
9062051202	12	12	150	50	2	○
9062051203	12	12	150	75	2	○
9062051204	12	12	200	38	2	○

● Stock | Disponible ○ Under Request | Bajo Pedido



90.6309

**SQUARE SC
END MILL
Z3 · 30°**

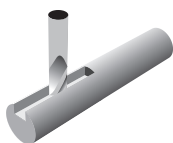
FRESA PLANA
SC Z3 · 30°



Cutting
Conditions



Cod.	d1 (h9)	d2	L1	L2	Z	Stock
9063090150	1,5	3	38	5	3	○
9063090180	1,8	6	50	3	3	○
9063090280	2,8	6	50	4	3	○
9063090380	3,8	6	50	5	3	○
9063090480	4,8	6	50	6	3	○
9063090580	5,8	6	50	7	3	○
9063090775	7,75	8	63	16	3	○
9063090970	9,7	10	72	19	3	○



Special for Keyways
Especial para Chaveteros

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

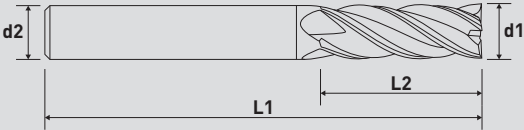
90.6704

SQUARE SC
END MILL
Z4 · 30°

FRESA PLANA
SC Z4 · 30°



Cutting
Conditions



P

M

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SC

RACER
GOLD

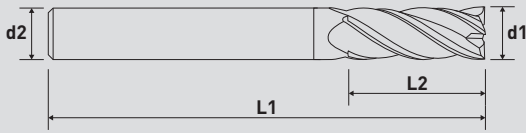
55
HRC

HELIX
30°

HA

Cod.	d1	d2	L1	L2	Z	Stock
9067040100	1	4	50	3	4	●
9067040200	2	4	50	6	4	●
9067040300	3	4	50	8	4	●
9067040400	4	4	50	11	4	●
9067040500	5	6	50	13	4	●
9067040600	6	6	50	16	4	●
9067040800	8	8	60	20	4	●
9067041000	10	10	75	30	4	●
9067041200	12	12	75	32	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido



90.6402

**SQUARE SC
END MILL
Z4 · 35°**

FRESA PLANA
SC Z4 · 35°



Cutting
Conditions



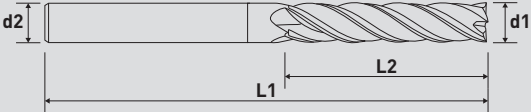
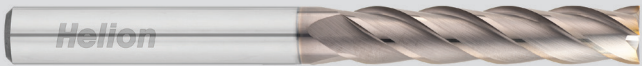
Cod.	d1	d2	L1	L2	Z	Stock
9064020100	1	4	40	2,5	4	●
9064020150	1,5	4	40	4	4	●
9064020200	2	4	40	6	4	●
9064020303	3	3	45	8	4	●
9064020304	3	4	45	8	4	●
9064020404	4	4	45	11	4	●
9064020406	4	6	45	11	4	●
9064020500	5	6	50	13	4	●
9064020600	6	6	60	15	4	●
9064020700	7	8	60	16	4	●
9064020800	8	8	70	20	4	●
9064020900	9	10	70	19	4	●
9064021000	10	10	75	25	4	●
9064021100	11	12	75	22	4	●
9064021200	12	12	80	30	4	●
9064021400	14	14	80	26	4	●
9064021600	16	16	100	40	4	●
9064021800	18	18	100	35	4	●
9064022000	20	20	100	40	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

90.6404

SQUARE SC
END MILL
LONG Z4 · 35°

FRESA PLANA SC
LARGA Z4 · 35°



P

M

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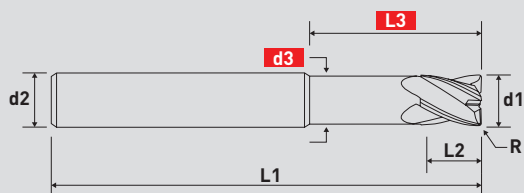
SC

VOLCANO

55 HRC

HELIX 35°

<



90.6412

**CORNER
RADIUS SC END
MILL Z4 · 30°**

FRESA TÓRICA
SC Z4 · 30°



Cutting
Conditions



Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9064120201	2	6	1,8	0,1	57	4	21	4	○
9064120202	2	6	1,8	0,2	57	4	21	4	●
9064120203	2	6	1,8	0,3	57	4	21	4	○
9064120205	2	6	1,8	0,5	57	4	21	4	○
9064120205	2	6	1,8	0,5	57	4	21	4	●
9064120301	3	6	2,8	0,1	57	6	21	4	○
9064120302	3	6	2,8	0,2	57	6	21	4	○
9064120303	3	6	2,8	0,3	57	6	21	4	●
9064120305	3	6	2,8	0,5	57	6	21	4	○
9064120310	3	6	2,8	1	57	6	21	4	○
9064120401	4	6	3,6	0,1	57	6	21	4	○
9064120402	4	6	3,6	0,2	57	6	21	4	○
9064120403	4	6	3,6	0,3	57	6	21	4	○
9064120405	4	6	3,6	0,5	57	6	21	4	●
9064120407	4	6	3,6	0,7	57	6	21	4	○
9064120408	4	6	3,6	0,8	57	6	21	4	○
9064120410	4	6	3,6	1	57	6	21	4	●
9064120415	4	6	3,6	1,5	57	6	21	4	○
9064120501	5	6	4,6	0,1	57	6	21	4	○
9064120502	5	6	4,6	0,2	57	6	21	4	○
9064120503	5	6	4,6	0,3	57	6	21	4	○
9064120504	5	6	4,6	0,4	57	6	21	4	○
9064120505	5	6	4,6	0,5	57	6	21	4	●
9064120510	5	6	4,6	1	57	6	21	4	●
9064120515	5	6	4,6	1,5	57	6	21	4	○
9064120520	5	6	4,6	2	57	6	21	4	○



90.6412 | CORNER RADIUS SC END MILL Z4 · 30°
FRESA TÓRICA SC Z4 · 30°

Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9064120601	6	6	5,5	0,1	57	7	21	4	○
9064120602	6	6	5,5	0,2	57	7	21	4	○
9064120603	6	6	5,5	0,3	57	7	21	4	○
9064120604	6	6	5,5	0,4	57	7	21	4	○
9064120605	6	6	5,5	0,5	57	7	21	4	●
9064120606	6	6	5,5	0,6	57	7	21	4	○
9064120608	6	6	5,5	0,8	57	7	21	4	○
9064120610	6	6	5,5	1	57	7	21	4	●
9064120612	6	6	5,5	1,2	57	7	21	4	○
9064120615	6	6	5,5	1,5	57	7	21	4	●
9064120620	6	6	5,5	2	57	7	21	4	●
9064120625	6	6	5,5	2,5	57	7	21	4	○
9064120801	8	8	7,4	0,1	63	9	27	4	○
9064120803	8	8	7,4	0,3	63	9	27	4	○
9064120805	8	8	7,4	0,5	63	9	27	4	●
9064120810	8	8	7,4	1	63	9	27	4	●
9064120815	8	8	7,4	1,5	63	9	27	4	●
9064120820	8	8	7,4	2	63	9	27	4	●
9064121005	10	10	9,2	0,5	72	11	32	4	●
9064121010	10	10	9,2	1	72	11	32	4	●
9064121015	10	10	9,2	1,5	72	11	32	4	●
9064121020	10	10	9,2	2	72	11	32	4	●
9064121205	12	12	11	0,5	83	12	38	4	●
9064121210	12	12	11	1	83	12	38	4	●
9064121215	12	12	11	1,5	83	12	38	4	●
9064121220	12	12	11	2	83	12	38	4	●
9064121605	16	16	15	0,5	92	16	44	4	●
9064121610	16	16	15	1	92	16	44	4	●
9064121620	16	16	15	2	92	16	44	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

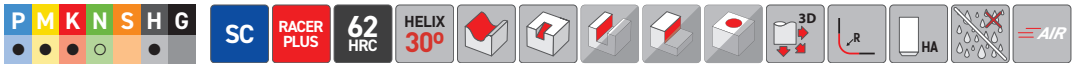
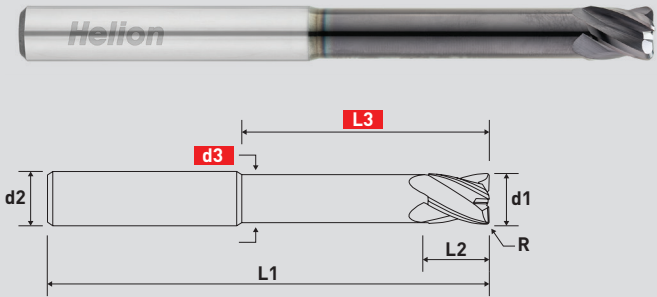
90.6413

CORNER RADIUS
SC END MILL
LONG Z4 · 30°

FRESA TÓRICA SC
LARGA Z4 · 30°



Cutting
Conditions



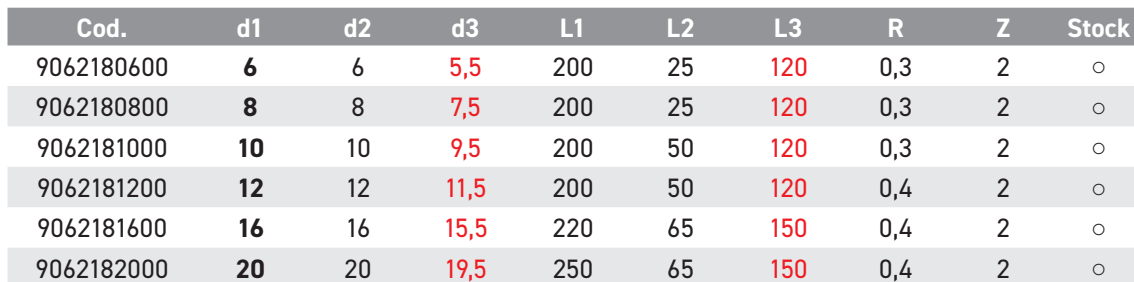
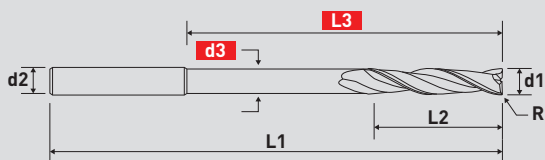
Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9064130602	6	6	5,5	0,2	80	7	44	4	●
9064130605	6	6	5,5	0,5	80	7	44	4	●
9064130610	6	6	5,5	1	80	7	44	4	●
9064130615	6	6	5,5	1,5	80	7	44	4	●
9064130620	6	6	5,5	2	80	7	44	4	●
9064130805	8	8	7,4	0,5	100	9	54	4	●
9064130810	8	8	7,4	1	100	9	54	4	●
9064130815	8	8	7,4	1,5	100	9	54	4	●
9064130820	8	8	7,4	2	100	9	54	4	●
9064131010	10	10	9,2	1	100	11	60	4	●
9064131015	10	10	9,2	1,5	100	11	60	4	●
9064131020	10	10	9,2	2	100	11	60	4	●
9064131205	12	12	11	0,5	120	12	75	4	●
9064131210	12	12	11	1	120	12	75	4	●
9064131215	12	12	11	1,5	120	12	75	4	●
9064131220	12	12	11	2	120	12	75	4	●
9064131620	16	16	15	2	150	16	92	4	●



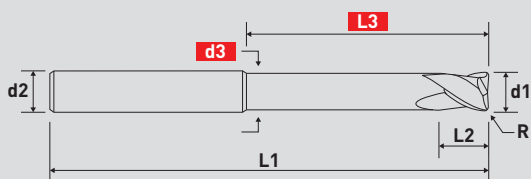
● Stock | Disponible ○ Under Request | Bajo Pedido

**CORNER RADIUS SC
END MILL EXTRA
LONG Z2 · 30°**

Cutting Conditions



66 MILL LINE



90.6811

CORNER RADIUS SC END MILL LONG NECK Z2 · 30°

FRESA TÓRICA SC DE
CUELLO LARGO Z2 · 30°



Cutting
Conditions



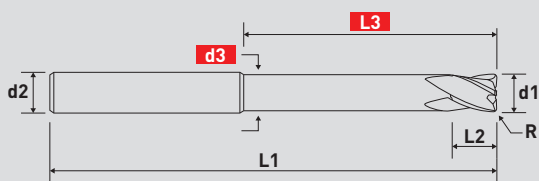
Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9068110051	0,5	4	0,45	0,05	45	0,6	1,5	2	●
9068110052	0,5	4	0,45	0,05	45	0,6	2	2	●
9068110061	0,6	4	0,55	0,05	45	0,7	3	2	●
9068110062	0,6	4	0,55	0,05	45	0,7	6	2	●
9068110081	0,8	4	0,75	0,1	45	0,9	4	2	●
9068110082	0,8	4	0,75	0,1	45	0,9	8	2	●
9068110101	1	4	0,95	0,1	45	1,2	4	2	●
9068110102	1	4	0,95	0,1	45	1,2	8	2	●
9068110103	1	4	0,95	0,1	50	1,2	10	2	●
9068110104	1	4	0,95	0,1	50	1,2	12	2	●
9068110105	1	4	0,95	0,1	50	1,2	16	2	●
9068110106	1	4	0,95	0,1	50	1,2	20	2	●
9068110121	1,2	4	1,15	0,1	45	1,4	6	2	●
9068110122	1,2	4	1,15	0,1	50	1,4	10	2	●
9068110123	1,2	4	1,15	0,1	50	1,4	16	2	●
9068110151	1,5	4	1,45	0,1	45	1,8	8	2	●
9068110152	1,5	4	1,45	0,1	50	1,8	12	2	●
9068110153	1,5	4	1,45	0,1	50	1,8	20	2	●
9068110201	2	4	1,9	0,2	45	2,4	6	2	●
9068110202	2	4	1,9	0,2	50	2,4	10	2	●
9068110203	2	4	1,9	0,2	50	2,4	16	2	●
9068110204	2	4	1,9	0,2	60	2,4	25	2	●
9068110301	3	6	2,9	0,3	50	3,6	10	2	●
9068110302	3	6	2,9	0,3	55	3,6	16	2	●
9068110303	3	6	2,9	0,3	65	3,6	25	2	●
9068110304	3	6	2,9	0,3	75	3,6	35	2	●



90.6811 | CORNER RADIUS SC END MILL LONG NECK Z2 · 30°
FRESA TÓRICA SC DE CUELLO LARGO Z2 · 30°

Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9068110305	3	6	2,9	0,3	80	3,6	40	2	●
9068110401	4	6	3,9	0,5	50	4,8	12	2	●
9068110402	4	6	3,9	0,5	60	4,8	20	2	●
9068110403	4	6	3,9	0,5	70	4,8	30	2	●
9068110404	4	6	3,9	0,5	80	4,8	40	2	●
9068110501	5	6	4,9	0,5	70	6	25	2	●
9068110502	5	6	4,9	0,5	80	6	40	2	●
9068110601	6	6	5,9	0,5	60	7	20	2	●
9068110602	6	6	5,9	0,5	90	7	40	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



90.6815

**CORNER RADIUS
SC END MILL LONG
NECK Z4 · 30°**

FRESA TÓRICA SC DE
CUELLO LARGO Z4 · 30°



Cutting
Conditions



Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9068150101	1	4	0,95	0,1	45	1,2	4	4	●
9068150102	1	4	0,95	0,1	45	1,2	8	4	●
9068150103	1	4	0,95	0,1	50	1,2	10	4	●
9068150104	1	4	0,95	0,1	50	1,2	12	4	●
9068150105	1	4	0,95	0,1	50	1,2	16	4	●
9068150106	1	4	0,95	0,1	50	1,2	20	4	●
9068150121	1,2	4	1,15	0,1	45	1,4	6	4	●
9068150122	1,2	4	1,15	0,1	50	1,4	10	4	●
9068150123	1,2	4	1,15	0,1	50	1,4	16	4	●
9068150151	1,5	4	1,45	0,1	45	1,8	8	4	●
9068150152	1,5	4	1,45	0,1	50	1,8	12	4	●
9068150153	1,5	4	1,45	0,1	50	1,8	20	4	●
9068150201	2	4	1,9	0,2	50	2,4	10	4	●
9068150202	2	4	1,9	0,2	50	2,4	16	4	●
9068150203	2	4	1,9	0,2	60	2,4	25	4	●
9068150301	3	6	2,9	0,3	50	3,6	10	4	●
9068150302	3	6	2,9	0,3	55	3,6	16	4	●
9068150303	3	6	2,9	0,3	65	3,6	25	4	●
9068150304	3	6	2,9	0,3	75	3,6	35	4	●
9068150401	4	6	3,9	0,5	50	4,8	12	4	●
9068150402	4	6	3,9	0,5	60	4,8	20	4	●
9068150403	4	6	3,9	0,5	70	4,8	30	4	●
9068150404	4	6	3,9	0,5	80	4,8	40	4	●
9068150501	5	6	4,9	0,5	70	6	30	4	●
9068150502	5	6	4,9	0,5	100	6	50	4	●
9068150601	6	6	5,9	0,5	60	7	20	4	●
9068150602	6	6	5,9	0,5	80	7	40	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

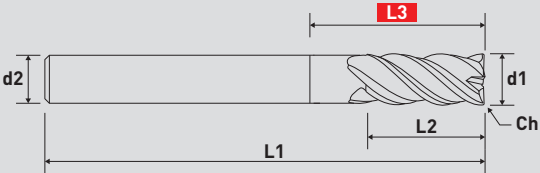
90.4771

SQUARE SC
END MILL
Z4 · 43°/45°

FRESA PLANA
SC Z4 · 43°/45°



Cutting
Conditions



P

M

K

N

S

H

G

SC

RACER

55 HRC

HELIX 43/45°

AIR

Cod.	d1	d2	L1	L2	L3	Ch	Z	Stock
9047710600	6	6	57	13	21	0,2	4	●
9047710800	8	8	60	19	27	0,2	4	●
9047711000	10	10	72	22	32	0,2	4	●
9047711200	12	12	83	26	38	0,3	4	●
9047711600	16	16	92	32	44	0,4	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

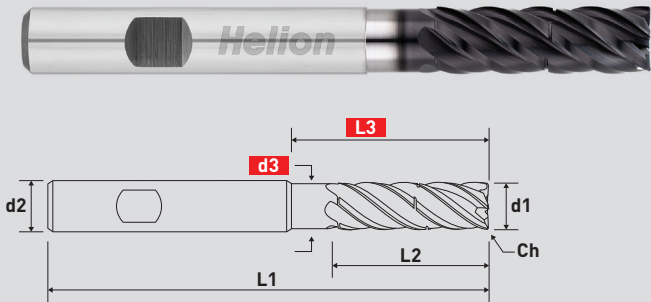
90.5572

TROCHOIDAL
SC END MILL
Z5 · 40°

FRESA SC PARA
TROCHOIDAL Z5 · 40°



Cutting
Conditions



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z	Stock
9055720600	6	6	5,80	62	18	25	0,10	5	●
9055720800	8	8	7,80	68	24	30	0,15	5	●
9055721000	10	10	9,80	80	30	35	0,20	5	●
9055721200	12	12	11,80	93	36	45	0,20	5	●
9055721600	16	16	15,80	108	48	55	0,30	5	●
9055722000	20	20	19,80	126	60	70	0,40	5	●

● Stock | Disponible ○ Under Request | Bajo Pedido

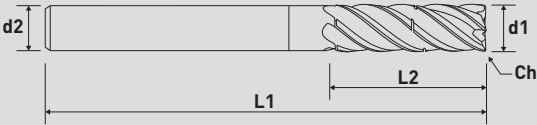
90.5770

TROCHOIDAL
SC END MILL
Z5 · 40°

FRESA SC PARA
TROCHOIDAL Z5 · 40°



Cutting
Conditions



P

M

K

N

S

H

G

SC

RACER

55
HRC

HELIX
40°

45°

HA

Cod.	d1	d2	L1	L2	Ch	Z	Stock
9057700600	6	6	62	18	0,2	5	●
9057700800	8	8	72	24	0,2	5	●
9057701000	10	10	80	30	0,2	5	●
9057701200	12	12	93	36	0,3	5	●
9057701600	16	16	108	48	0,4	5	●

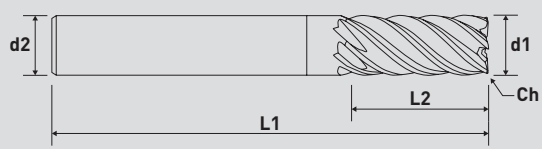
● Stock | Disponible ○ Under Request | Bajo Pedido



90.6572

FINISHING
SC END MILL
Z5 - Z6 · 40°/42°

FRESA SC PARA ACABADO
Z5 - Z6 · 40°/42°



P M K N S H G

SC

RACER PLUS

55 HRC

HELIX 40/42°

45°

HA

AIR

Cod.	d1	d2	L1	L2	Ch	Z	Stock
9065720300	3	6	57	8	0,05	5	●
9065720400	4	6	57	8	0,10	6	●
9065720500	5	6	57	10	0,10	6	●
9065720600	6	6	57	13	0,10	6	●
9065720800	8	8	63	19	0,10	6	●
9065721000	10	10	72	22	0,10	6	●
9065721200	12	12	83	26	0,10	6	●
9065721600	16	16	92	32	0,20	6	●
9065722000	20	20	104	42	0,20	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido

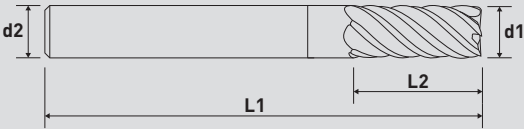
90.6705

FINISHING
SC END MILL
Z6 · 42°/44°

FRESA SC PARA
ACABADO Z6 · 42°/44°



Cutting
Conditions



P M K N S H G

SC

RACER

55 HRC

HELIX 42°/44°

HA

AIR

Cod.	d1	d2	L1	L2	Z	Stock
9067050600	6	6	57	13	6	●
9067050800	8	8	60	19	6	●
9067051000	10	10	72	22	6	●
9067051200	12	12	83	26	6	●
9067051600	16	16	92	32	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido

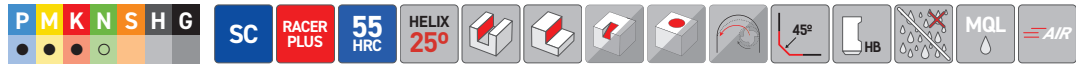
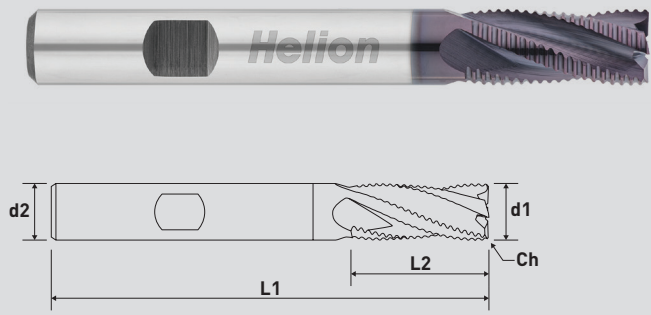
90.6601

ROUGHING
SC END MILL
Z4 · 25°

FRESA SC PARA
DESBASTE Z4 · 25°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Ch	Z	Stock
9066010300	3	6	6	57	0,1	4	○
9066010400	4	6	8	57	0,13	4	○
9066010500	5	6	10	57	0,18	4	○
9066010600	6	6	13	57	0,2	4	○
9066010800	8	8	16	63	0,2	4	○
9066011000	10	10	22	72	0,3	4	○
9066011200	12	12	26	83	0,3	4	○
9066011400	14	14	26	83	0,4	4	○
9066011600	16	16	32	92	0,4	4	○
9066011800	18	18	32	92	0,5	4	○
9066012000	20	20	38	104	0,5	4	○
9066012500	25	25	45	121	0,6	4	○

● Stock | Disponible ○ Under Request | Bajo Pedido



91.4482 - SQUARE SC END MILL YELLOW BLADE Z4



91 SERIES INDEX

Code Código		91.6424	91.7232	91.6302	91.1479	91.1480	91.5479
							
Page Página		80	81	82	83	84	85
Tool Material M. herramienta		SC	SC	SC	SC	SC	SC
ø Range Diámetro (mm)		2 - 16	2 - 8	1 - 20	3 - 20	3 - 20	3 - 20
Helix Angle Ángulo de Hélice		42°	-	42°	35° - 38°	43° - 45° - 47°	40°
P Carbon Steel		●	●	●	●	●	●
H HRC 55 - 62		●	●	●	★	●	●
H HRC 70 - 75							
M Stainless		●	○	●	★	●	●
K Cast Iron		●	●	●	●	●	●
N Non Ferrous		○	●	○	○	○	○
G Graphite							
S Super Alloys		●		●	●	●	●
Full-Slot Ranurado				●	★	●	●
Copy Copiado		●	●				
Side Milling Fresado Lateral				●	★	●	●
Ramping Rampa				○	★	●	●
Interpolation Interpolación				●	★	●	●
Trochoidal Trocooidal					○	○	○
Eshop Tienda online							

91.4472	91.4482	91.6505	91.6410	91.6614	91.7612		
							
86	87	88	89	90	91		
SC	SC	SC	SC	SC	SC		
6 - 20	6 - 16	3 - 32	4 - 12	5 - 20	4 - 12		
45°	35° - 38°	45°	42°	42°	30°		
●	●	●	●	●	●		
●	●	●	●	●	●		
★	★	●	●	●	○		
●	●	●	●	●	●		
○	○		○	○	●		
●	●	●	●	●			
●	●		●	●	●		
			●				
●	●	●	●	●	●		
●	●		○	○			
●	●		●	●			
○	○	●	○	●	●		
							

★ Best Choice ● First Choice ○ Suitable

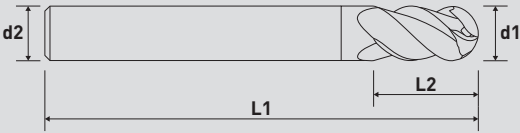
91.6424

BALL NOSE
SC END MILL
Z4 · 42°

FRESA ESFÉRICA
SC Z4 · 42°



Cutting
Conditions



P

M

K

N

S

H

G

SC

VOLCANO

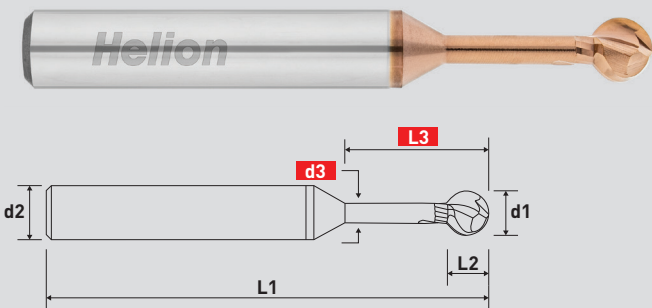
55
HRC

HELIX
42°

MQL

Cod.	d1	d2	R	L1	L2	Z	Stock
9164240200	2	6	1	50	6	4	●
9164240300	3	6	1,5	60	8	4	●
9164240400	4	6	2	70	8	4	●
9164240500	5	6	2,5	80	10	4	●
9164240600	6	6	3	90	12	4	●
9164240800	8	8	4	100	14	4	●
9164241000	10	10	5	100	18	4	●
9164241200	12	12	6	110	22	4	●
9164241600	16	16	8	130	30	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido



91.7232

LOLLIPOP SC END MILL Z2

FRESA SC
LOLLIPOP Z2



Cutting
Conditions

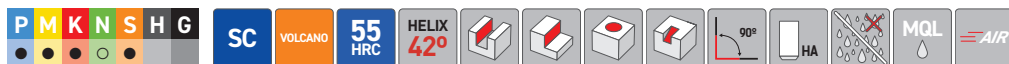
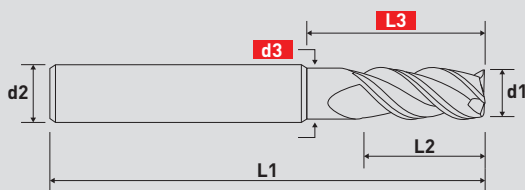
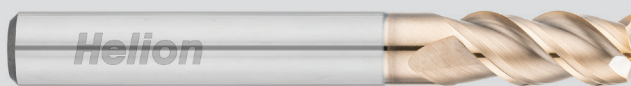


Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9172320200	2	4	1	1	50	2	6,5	2	●
9172320300	3	4	2	1,5	50	3	9,5	2	●
9172320400	4	4	2	2	50	4	11,5	2	●
9172320500	5	6	2,5	2,5	50	5	14,5	2	●
9172320600	6	6	3	3	50	6	16,5	2	●
9172320800	8	8	4	4	60	8	19,5	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

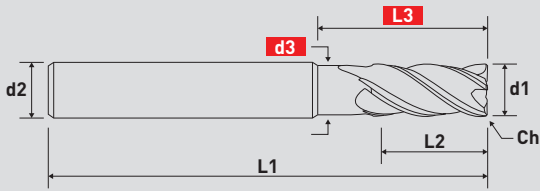
**SQUARE SC
END MILL
Z3 · 42°**

FRESA PLANA
SC Z3 · 42°



Cod.	d1	d2	d3	L1	L2	L3	Z	Stock
9163020100	1	6	0,95	45	2,5	4	3	●
9163020120	1,2	6	-	45	3	-	3	●
9163020150	1,5	6	1,45	45	4	6	3	●
9163020200	2	6	1,9	45	5	8	3	●
9163020300	3	6	2,9	45	8	15	3	●
9163020400	4	6	3,9	50	10	15	3	●
9163020500	5	6	-	50	12	-	3	●
9163020600	6	6	5,85	60	12	20	3	●
9163020800	8	8	7,88	60	19	26	3	●
9163021000	10	10	9,8	70	22	32	3	●
9163021200	12	12	11,8	80	26	38	3	●
9163021600	16	16	15	100	36	45	3	●
9163022000	20	20	19	110	38	55	3	●

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



91.1479

**SQUARE SC
END MILL
Z4 · 35°/38°**

FRESA PLANA
SC Z4 · 35°/38°



Cutting
Conditions



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z	Stock
9114790300	3	6	2,8	60	8	18	0,13	4	●
9114790400	4	6	3,6	60	11	21	0,18	4	●
9114790500	5	6	4,6	60	13	21	0,2	4	●
9114790600	6	6	5,5	60	13	21	0,2	4	●
9114790800	8	8	7,5	60	19	27	0,2	4	●
9114791000	10	10	9,5	70	22	32	0,2	4	●
9114791200	12	12	11,5	80	26	38	0,3	4	●
9114791600	16	16	15,5	90	32	44	0,4	4	●
9114792000	20	20	19,5	105	38	54	0,5	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

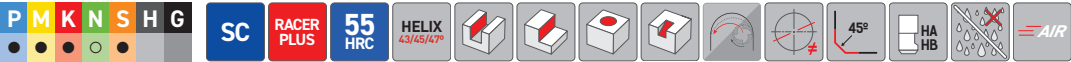
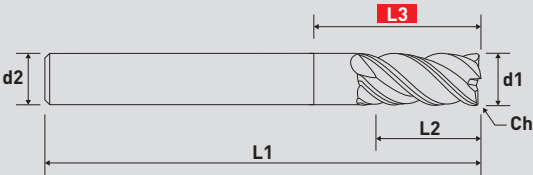
91.1480

SQUARE SC END
MILL GLADIATOR
Z4 · 43°/45°/47°

FRESA PLANA SC
GLADIATOR Z4 · 43°/45°/47°



Cutting
Conditions



Cod.	d1	d2	L1	L2	L3	Ch	Z	Stock
9114800300	3	6	57	8	20	0,07	4	●
9114800400	4	6	57	11	20	0,09	4	●
9114800500	5	6	57	13	20	0,12	4	●
9114800600	6	6	57	13	21	0,2	4	●
9114800602*	6	6	57	13	21	0,2	4	●
9114800800	8	8	63	19	27	0,25	4	●
9114800802*	8	8	63	19	27	0,25	4	●
9114801000	10	10	73	22	32	0,35	4	●
9114801002*	10	10	73	22	32	0,35	4	●
9114801200	12	12	83	26	38	0,35	4	●
9114801202*	12	12	83	26	38	0,35	4	●
9114801600	16	16	92	32	44	0,4	4	●
9114801602*	16	16	92	32	44	0,4	4	●
9114802000	20	20	104	38	55	0,4	4	●
9114802002*	20	20	104	38	55	0,4	4	●

* Available with Weldo
* Disponible con Weldon

● Stock | Disponible ○ Under Request | Bajo Pedido



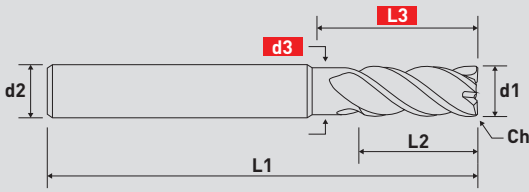
91.5479

**SQUARE SC
END MILL
Z4 · 40°**

FRESA PLANA
SC Z4 · 40°



Cutting
Conditions



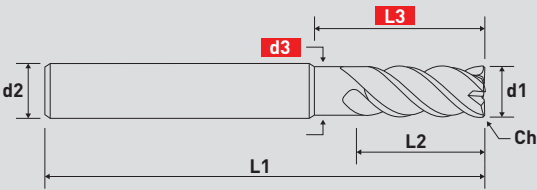
Cod.	d1	d2	d3	L1	L2	L3	Ch	Z	Stock
9154790300	3	6	2,8	57	8	18	0,13	4	●
9154790400	4	6	3,6	57	11	21	0,18	4	●
9154790500	5	6	4,6	57	13	21	0,2	4	●
9154790600	6	6	5,5	57	13	21	0,2	4	●
9154790700	7	8	6,5	63	19	27	0,2	4	●
9154790800	8	8	7,5	63	19	28	0,2	4	●
9154790900	9	10	8,5	72	22	32	0,3	4	●
9154791000	10	10	9,5	72	22	32	0,3	4	●
9154791200	12	12	11,5	83	26	38	0,3	4	●
9154791400	14	14	13,5	83	26	42	0,3	4	●
9154791600	16	16	15,5	92	32	44	0,4	4	●
9154792000	20	20	19,5	104	38	54	0,5	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

91.4472

SQUARE SC
END MILL
Z4 · 45°

FRESA PLANA
SC Z4 · 45°



P M K N S H G

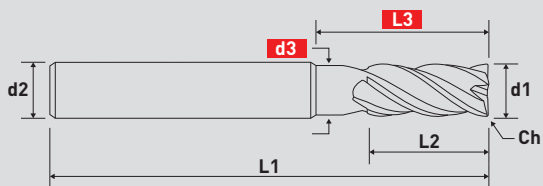
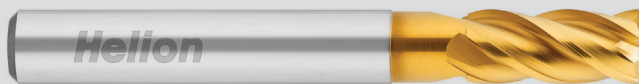
● ★ ● ○ ● ●

SC

VOLCANO GOLD

55 HRC

HELIX 45°



91.4482

**SQUARE SC END
MILL YELLOW
BLADE Z4 · 35°/38°**

FRESA PLANA SC YELLOW
BLADE Z4 · 35°/38°



Cutting
Conditions



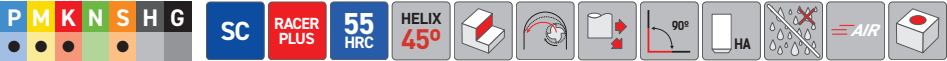
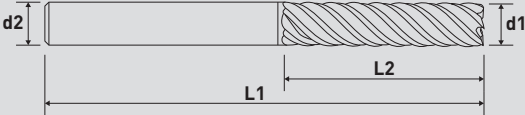
Cod.	d1	d2	d3	L1	L2	L3	Ch	Z	Stock
9144820600	6	6	5,5	60	13	21	0,2	4	●
9144820800	8	8	7,5	60	19	27	0,2	4	●
9144821000	10	10	9,5	70	22	32	0,2	4	●
9144821200	12	12	11,5	80	26	38	0,3	4	●
9144821600	16	16	15,5	90	32	44	0,4	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

91.6505

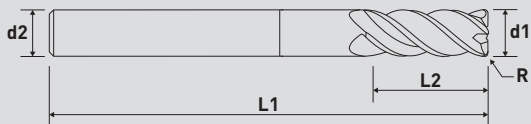
MULTIFLUTES SC
END MILL EXTRA
LONG Z4 - Z6 · 45°

FRESA SC MULTILABIO
EXTRALARGA Z4 - Z6 · 45°



Cod.	d1	d2	L1	L2	Z	Stock
9165050300	3	3	60	15	4	●
9165050400	4	4	80	20	4	●
9165050500	5	5	80	25	4	●
9165050600	6	6	80	25	6	●
9165050800	8	8	100	40	6	●
9165051000	10	10	100	45	6	●
9165051201	12	12	100	50	6	●
9165051202	12	12	125	70	6	●
9165051601	16	16	150	65	6	●
9165051602	16	16	165	100	6	●
9165052002	20	20	165	100	6	●
9165052003	20	20	200	135	6	●
9165052502	25	25	165	100	6	●
9165052503	25	25	200	140	6	●
9165053201	32	32	165	100	6	●
9165053202	32	32	210	150	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido



91.6410

**CORNER RADIUS
SC END MILL
Z4 · 42°**

FRESA TÓRICA
SC Z4 · 42°



Cutting
Conditions



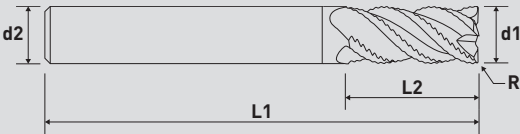
Cod.	d1	d2	R	L1	L2	Z	Stock
9164100405	4	6	0,5	60	12	4	●
9164100505	5	6	0,5	60	15	4	●
9164100605	6	6	0,5	60	15	4	●
9164100610	6	6	1	60	15	4	●
9164100805	8	8	0,5	80	20	4	●
9164100810	8	8	1	80	20	4	●
9164100820	8	8	2	80	17	4	●
9164101005	10	10	0,5	80	25	4	●
9164101010	10	10	1	80	25	4	●
9164101205	12	12	0,5	80	24	4	●
9164101210	12	12	1	80	24	4	●
9164101220	12	12	2	80	24	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

91.6614

ROUGHING
SC END MILL
Z4 - Z5 · 42°

FRESA SC PARA
DESBASTE Z4 - Z5 · 42°



P

M

K

N

S

H

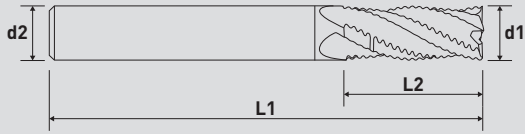
G

SC

VOLCANO

55 HRC

HELIX 42°



Cutting Conditions







92 SERIES

Micro-grain solid carbide end mills for machining hardened steels up to 70 HRC.

- Designed for hardened and high-alloyed steels.
- High precision, stability and chip control in high-speed operations.
- Long tool life and excellent surface finishes in demanding machining applications.

Fresas de metal duro de micrograno para el mecanizado de aceros endurecidos hasta 70 HRC.

- Diseñadas para aceros templados y de alta aleación.
- Alta precisión, estabilidad y control de viruta en operaciones a alta velocidad.
- Larga vida útil y acabados de excelente calidad en mecanizados exigentes.

92 SERIES INDEX

Code Código	92.6220	92.6224	92.6823	92.6228	82.6227	82.6228
						
Page Página	96	97	98	100	101	102
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	0,5 - 12	1 - 12	0,1 - 5	1 - 12	1 - 4	1,5 - 12
Helix Angle Ángulo de Hélice	30°	30°	30°	30°	30°	30°
P Carbon Steel	●	●	●	●	●	●
H HRC 55 - 62	●	●	●	●	★	★
H HRC 70 - 75	★	★	★	★		
M Stainless						
K Cast Iron	○	○	○	○	○	○
N Non Ferrous						
G Graphite						
S Super Alloys						
Full-Slot Ranurado						
Copy Copiado		●	●	●	●	●
Side Milling Fresado Lateral						
Ramping Rampa						
Interpolation Interpolación						
Trochoidal Trocoidal						
Eshop Tienda online						

82.6229	92.7534	92.6403	92.6505	92.6415	82.6217	92.6813	92.6783
							
103	104	105	106	107	108	109	111
SC	SC	SC	SC	SC	SC	SC	SC
2 - 4	4 - 8	1 - 16	3 - 25	3 - 12	1 - 12	0,2 - 6	3 - 16
30°	30°	45°	45°	30°	30°	30°	30°
●	●	●	●	●	●	●	●
★	●	●	●	●	●	●	●
	●	★	★	★	○	★	★
	○						
○	○	○	○	○	○	○	○
	○					○	○
		●		●	○	○	●
●	●				●	●	
		●	●	●		○	
		○		●			
		●	○	●			
		○					
							

★ Best Choice

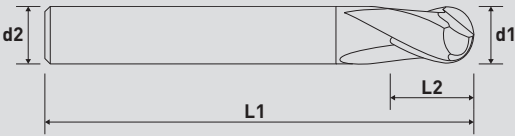
● First Choice

○ Suitable

92.6220

BALL NOSE
SC END MILL
Z2 · 30°

FRESA ESFÉRICA
SC Z2 · 30°



P

M

K

N

S

H

G

SC

DEEP BLUE

70 HRC

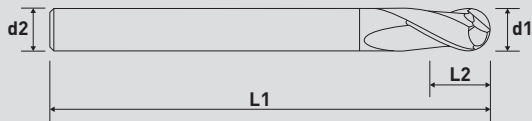
HELIX 30°

MQL

AIR

Cod.	d1	d2	R	L1	L2	Z	Stock
9262200051	0,5	4	0,25	40	0,5	2	●
9262200052	0,5	4	0,25	40	0,75	2	●
9262200100	1	6	0,5	40	1,5	2	●
9262200101	1	6	0,5	40	1	2	●
9262200102	1	4	0,5	40	1,5	2	●
9262200150	1,5	4	0,75	40	2,3	2	●
9262200151	1,5	6	0,75	40	1,5	2	●
9262200152	1,5	6	0,75	40	2,3	2	●
9262200200	2	4	1	45	3	2	●
9262200201	2	6	1	45	2	2	●
9262200202	2	6	1	45	3	2	●
9262200300	3	4	1,5	45	4,5	2	●
9262200301	3	6	1,5	45	3	2	●
9262200302	3	6	1,5	45	4,5	2	●
9262200400	4	4	2	45	6	2	●
9262200401	4	6	2	45	4	2	●
9262200501	5	6	2,5	50	5	2	●
9262200601	6	6	3	50	6	2	●
9262200602	6	6	3	55	8	2	●
9262200801	8	8	4	50	8	2	●
9262200802	8	8	4	60	11	2	●
9262201000	10	10	5	70	13	2	●
9262201200	12	12	6	70	15	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



92.6224

**BALL NOSE
SC END MILL
LONG Z2 · 30°**

FRESA ESFÉRICA SC
LARGA Z2 · 30°



Cutting
Conditions



Cod.	d1	d2	R	L1	L2	Z	Stock
9262240100	1	6	0,5	70	2,5	2	●
9262240200	2	6	1	75	5	2	●
9262240300	3	6	1,5	80	8	2	●
9262240400	4	4	2	80	8	2	●
9262240600	6	6	3	90	12	2	●
9262240800	8	8	4	100	14	2	●
9262241000	10	10	5	100	18	2	●
9262241200	12	12	6	110	22	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

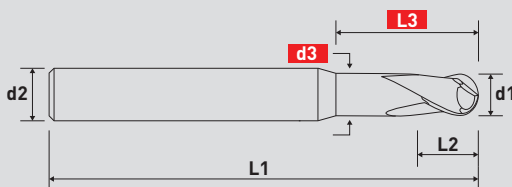
92.6823

BALL NOSE SC END MILL LONG NECK Z2 · 30°

FRESA ESFÉRICA SC DE
CUELLO LARGO Z2 · 30°



Cutting
Conditions



Cod.	d1	d2	d3	L1	L2	L3	R	Z	Stock
9268230010	0,1	4	0,05	40	0,3	-	0,05	2	●
9268230205	0,2	4	0,15	40	0,2	0,5	0,1	2	●
9268230215	0,2	4	0,15	40	0,2	1,5	0,1	2	●
9268230301	0,3	4	0,25	40	0,3	1	0,15	2	●
9268230303	0,3	4	0,25	40	0,3	3	0,15	2	●
9268230402	0,4	4	0,35	40	0,4	2	0,2	2	●
9268230404	0,4	4	0,35	40	0,4	4	0,2	2	●
9268230501	0,5	4	0,45	45	0,5	1	0,25	2	●
9268230502	0,5	4	0,45	45	0,5	2	0,25	2	●
9268230503	0,5	4	0,45	45	0,5	3	0,25	2	●
9268230505	0,5	4	0,45	45	0,5	5	0,25	2	●
9268230508	0,5	4	0,45	45	0,5	8	0,25	2	●
9268230602	0,6	4	0,55	45	0,6	2	0,3	2	●
9268230604	0,6	4	0,55	45	0,6	4	0,3	2	●
9268230608	0,6	4	0,55	45	0,6	8	0,3	2	●
9268230804	0,8	4	0,75	45	0,8	4	0,4	2	●
9268230806	0,8	4	0,75	45	0,8	6	0,4	2	●
9268230810	0,8	4	0,75	45	0,8	10	0,4	2	●
9268231004	1	4	0,95	45	1	4	0,5	2	●
9268231006	1	4	0,95	45	1	6	0,5	2	●
9268231008	1	4	0,95	45	1	8	0,5	2	●
9268231010	1	4	0,95	50	1	10	0,5	2	●
9268231012	1	4	0,95	50	1	12	0,5	2	●
9268231016	1	4	0,95	50	1	16	0,5	2	●
9268231025	1	4	0,95	60	1	25	0,5	2	●
9268231204	1,2	4	1,15	45	1,2	4	0,6	2	●



92.6823 | BALL NOSE SC END MILL LONG NECK Z2 · 30°
FRESA ESFÉRICA SC DE CUELLO LARGO Z2 · 30°

Cod.	d1	d2	d3	L1	L2	L3	R	Z	Stock
9268231206	1,2	4	1,15	45	1,2	6	0,6	2	●
9268231208	1,2	4	1,15	45	1,2	8	0,6	2	●
9268231212	1,2	4	1,15	50	1.2	12	0,6	2	●
9268231220	1,2	4	1,15	50	1.2	20	0,6	2	●
9268231508	1,5	4	1,45	45	1.5	8	0,75	2	●
9268231510	1,5	4	1,45	50	1.5	10	0,75	2	●
9268231512	1,5	4	1,45	50	1.5	12	0,75	2	●
9268231516	1,5	4	1,45	50	1.5	16	0,75	2	●
9268231520	1,5	4	1,45	50	1.5	20	0,75	2	●
9268232004	2	4	1,9	45	2	4	1	2	●
9268232006	2	4	1,9	45	2	6	1	2	●
9268232008	2	4	1,9	45	2	8	1	2	●
9268232010	2	4	1,9	50	2	10	1	2	●
9268232012	2	4	1,9	50	2	12	1	2	●
9268232014	2	4	1,9	50	2	14	1	2	●
9268232016	2	4	1,9	50	2	16	1	2	●
9268232020	2	4	1,9	50	2	20	1	2	●
9268232508	2,5	4	2,4	45	2,5	8	1,25	2	●
9268232516	2,5	4	2,4	50	2,5	16	1,25	2	●
9268233008	3	6	2,9	50	3	8	1,5	2	●
9268233012	3	6	2,9	50	3	12	1,5	2	●
9268233020	3	6	2,9	60	3	20	1,5	2	●
9268233025	3	6	2,9	65	3	25	1,5	2	●
9268233030	3	6	2,9	70	3	30	1,5	2	●
9268234010	4	6	3,9	50	4	10	2	2	●
9268234020	4	6	3,9	60	4	20	2	2	●
9268234025	4	6	3,9	65	4	25	2	2	●
9268234030	4	6	3,9	70	4	30	2	2	●
9268235016	5	6	4,9	60	6	16	2,5	2	●
9268235030	5	6	4,9	75	6	30	2,5	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

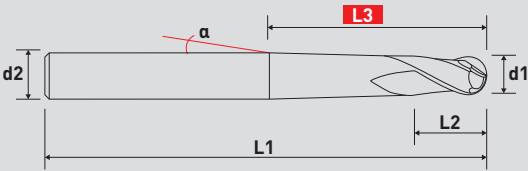
92.6228

BALL NOSE SC
END MILL TAPER
NECK Z2 · 30°

FRESA ESFÉRICA SC
CUELLO CÓNICO Z2 · 30°



Cutting
Conditions



P

M

K

N

S

H

G

SC

DEEP
BLUE

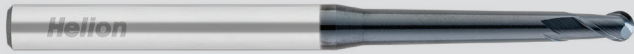
70
HRC

HELIX
30°

MQL

Cod.	d1	d2	R	L1	L2	L3	α	Z	Stock
9262280110	1	4	0,5	70	1	30	1°	2	●
9262280210	2	4	1	70	2	30	1°	2	●
9262280310	3	6	1,5	70	3	30	1°	2	●
9262280410	4	6	2	100	4	60	1°	2	●
9262280513	5	8	2,5	110	5	60	1°,30'	2	●
9262280613	6	8	3	110	9	49	1°,30'	2	●
9262280813	8	10	4	110	12	52	1°,30'	2	●
9262281013	10	12	5	130	18	54	1°,30'	2	●
9262281213	12	16	6	160	22	85	1°,30'	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



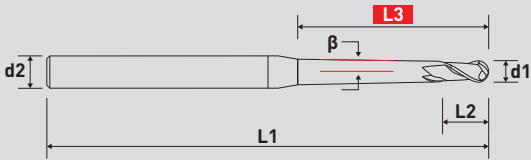
82.6227

**BALL NOSE SC
END MILL TAPER
NECK Z2 · 30°**

FRESA ESFÉRICA SC
CUELLO CÓNICO Z2 · 30°



Cutting
Conditions



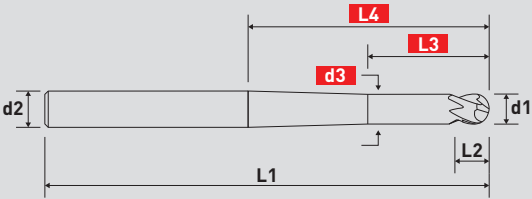
Cod.	d1	d2	L1	L2	L3	R	β	Z	Stock
8262270100	1	6	75	2	20	0,50	1,5°	2	●
8262270150	1,5	6	75	3	20	0,75	1,5°	2	●
8262270200	2	6	75	4	25	1	1°	2	●
8262270250	2,5	6	75	5	25	1,25	1°	2	●
8262270300	3	6	75	6	30	1,5	1°	2	●
8262270400	4	6	75	7	35	2	1°	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

82.6228

BALL NOSE SC
END MILL TAPER
NECK Z2 · 30°

FRESA ESFÉRICA SC
CUELLO CÓNICO Z2 · 30°



P

M

K

N

S

H

G

SC

RACER PLUS

62 HRC

HELIX 30°

Cod.	d1	d2	d3	R	L1	L2	L3	L4	Z	Stock
8262280150	1,5	6	1,45	0,75	120	2,3	5	75	2	●
8262280201	2	6	1,85	1	100	3	8	40	2	●
8262280202	2	6	1,85	1	120	3	8	60	2	●
8262280301	3	6	2,9	1,5	100	4	12	40	2	●
8262280302	3	6	2,9	1,5	120	4	12	60	2	●
8262280401	4	6	3,85	2	100	5	16	40	2	●
8262280402	4	6	3,85	2	120	5	16	60	2	●
8262280601	6	8	5,85	3	100	6	25	45	2	●
8262280602	6	8	5,85	3	120	6	25	45	2	●
8262280603	6	10	-	3	150	8	-	60	2	●
8262280801	8	10	7,85	4	120	10	30	60	2	●
8262280802	8	10	7,85	4	150	10	30	60	2	●
8262281001	10	12	9,8	5	160	12	40	80	2	●
8262281201	12	16	11,8	6	160	14	50	100	2	●
8262281202	12	16	11,8	6	200	14	50	100	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

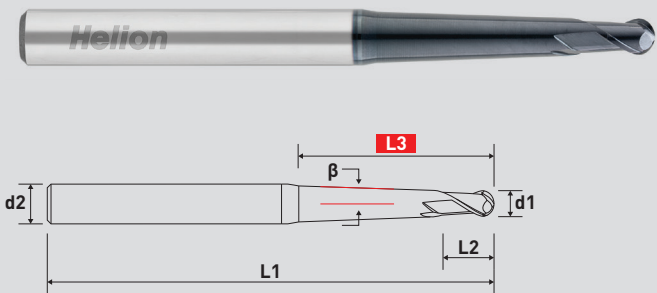
82.6229

**BALL NOSE SC
END MILL TAPER
NECK Z2 · 30°**

FRESA ESFÉRICA SC
CUELLO CÓNICO Z2 · 30°



Cutting
Conditions



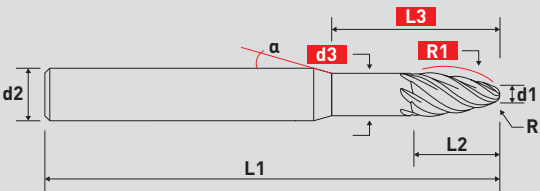
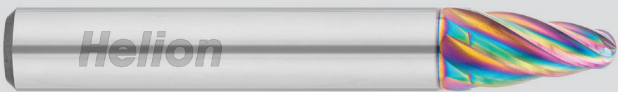
Cod.	d1	d2	L1	L2	L3	R	β	Z	Stock
8262290200	2	6	100	3	60	1	0,5°	2	●
8262290201	2	6	100	3	60	1	1°	2	●
8262290202	2	6	100	3	60	1	1,5°	2	●
8262290203	2	6	100	3	57	1	2°	2	●
8262290300	3	6	100	4	60	1,5	0,5°	2	●
8262290301	3	6	100	4	60	1,5	1°	2	●
8262290302	3	6	100	4	57	1,5	1,5°	2	●
8262290303	3	6	100	4	43	1,5	2°	2	●
8262290400	4	6	100	5	60	2	0,5°	2	●
8262290401	4	6	100	5	57	2	1°	2	●
8262290402	4	6	100	5	38	2	1,5°	2	●
8262290403	4	6	100	5	29	2	2°	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

92.7534

BARREL SC
END MILL
Z6 · 30°

FRESA DE BARRIL
SC Z6 · 30°



P

M

K

N

S

H

G

SC

TaC

62 HRC

HELIX 30°

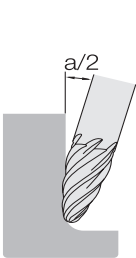
MULTI TASKI

HA

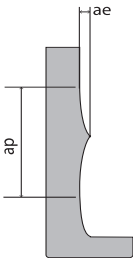
MQL

AIR

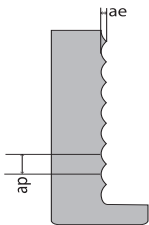
Cod.	d1	d2	d3	R	R1	L1	L2	L3	α	Z	Stock
9275340401	4	12	9,5	2	50	100	18,7	40	10°	6	●
9275340402	4	16	-	2	750	110	12,4	-	30°	6	●
9275340601	6	12	-	3	75	100	20	-	10°	6	●
9275340602	6	16	-	3	1000	110	16,7	-	20°	6	●
9275340802	8	12	-	4	135	110	26,8	-	5°	6	●
9275340801	8	16	-	4	1000	110	26,7	-	10°	6	●



Ap: Axial Depth (mm) | Profundidad Axial
Ae: Radial Depth (mm) | Profundidad Radial

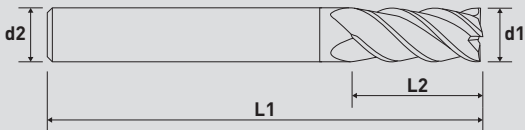


Conical Type | Tipo Cónica



Ball Type | Tipo Bola

● Stock | Disponible ○ Under Request | Bajo Pedido



92.6403

**SQUARE SC
END MILL
Z4 · 45°**

FRESA PLANA
SC Z4 · 45°



Cutting
Conditions



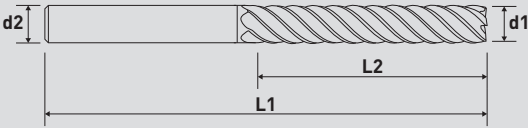
Cod.	d1	d2	L1	L2	Z	Stock
9264030100	1	6	40	1,5	4	●
9264030200	2	6	40	5	4	●
9264030300	3	6	45	8	4	●
9264030400	4	6	45	11	4	●
9264030500	5	6	50	13	4	●
9264030600	6	6	55	15	4	●
9264030800	8	8	60	20	4	●
9264031000	10	10	70	22	4	●
9264031200	12	12	75	26	4	●
9264031600	16	16	90	35	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

92.6505

FINISHING
SC END MILL
Z6 - Z8 · 45°

FRESA SC PARA
ACABADO Z6 - Z8 · 45°



P

M

K

N

S

H

G

SC

DEEP
BLUE

70
HRC

HELIX
45°





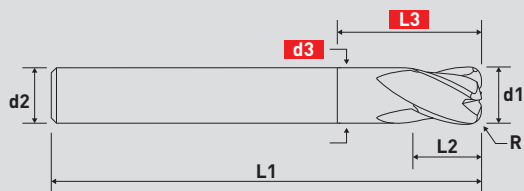






Cod.	d1	d2	L1	L2	Z	Stock
9265050300	3	6	50	10	6	●
9265050400	4	6	50	12	6	●
9265050500	5	6	60	20	6	●
9265050600	6	6	50	15	6	●
9265050601	6	6	65	25	6	●
9265050602	6	6	75	35	6	●
9265050800	8	8	60	20	6	●
9265050801	8	8	75	30	6	●
9265050802	8	8	100	50	6	●
9265051000	10	10	70	25	6	●
9265051001	10	10	100	45	6	●
9265051002	10	10	110	60	6	●
9265051200	12	12	80	30	6	●
9265051201	12	12	100	50	6	●
9265051202	12	12	120	70	6	●
9265051600	16	16	110	50	6	●
9265051601	16	16	150	80	6	●
9265051602	16	16	160	100	6	●
9265052000	20	20	100	45	6	●
9265052001	20	20	150	80	6	●
9265052002	20	20	160	100	6	●
9265052500	25	25	160	100	8	●
9265052501	25	25	200	130	8	●

● Stock | Disponible ○ Under Request | Bajo Pedido



92.6415

**CORNER
RADIUS SC END
MILL Z4 · 30°**

FRESA TÓRICA
SC Z4 · 30°



Cutting
Conditions



Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9264150303	3	6	2,9	0,3	60	3	20	4	●
9264150305	3	6	2,9	0,5	60	3	20	4	●
9264150310	3	6	2,9	0,5	50	3	10	4	●
9264150403	4	6	3,9	0,3	60	4	20	4	●
9264150405	4	6	3,9	0,5	60	4	20	4	●
9264150410	4	6	3,9	1	60	4	20	4	●
9264150550	5	6	4,95	0,5	60	5	16	4	●
9264150650	6	6	5,9	0,5	60	7	20	4	●
9264150651	6	6	5,9	0,5	80	7	40	4	●
9264150610	6	6	5,9	1	60	7	20	4	●
9264150611	6	6	5,9	1	80	7	40	4	●
9264150850	8	8	7,8	0,5	65	9	22	4	●
9264150851	8	8	7,8	0,5	100	9	40	4	●
9264150810	8	8	7,8	1	65	9	22	4	●
9264150811	8	8	7,8	1	100	9	40	4	●
9264151050	10	10	9,85	0,5	70	11	24	4	●
9264151051	10	10	9,85	0,5	100	11	40	4	●
9264151010	10	10	9,85	1	70	11	24	4	●
9264151011	10	10	9,85	1	100	11	40	4	●
9264151015	10	10	9,85	1,5	100	11	40	4	●
9264151020	10	10	9,85	2	70	11	24	4	●
9264151025	10	10	9,85	2,5	70	11	24	4	●
9264151250	12	12	11,8	0,5	80	13	26	4	●
9264151251	12	12	11,8	0,5	110	13	40	4	●
9264151210	12	12	11,8	1	80	13	26	4	●
9264151211	12	12	11,8	1	110	13	40	4	●
9264151220	12	12	11,8	2	80	13	26	4	●
9264151230	12	12	11,8	3	80	13	26	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

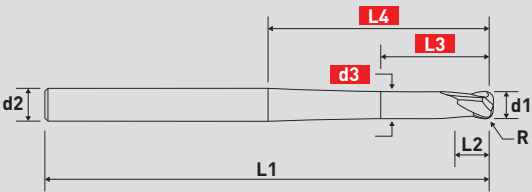
82.6217

CORNER RADIUS
SC END MILL TAPER
NECK Z2 · 30°

FRESA TÓRICA SC
CUELLO CÓNICO Z2 · 30°

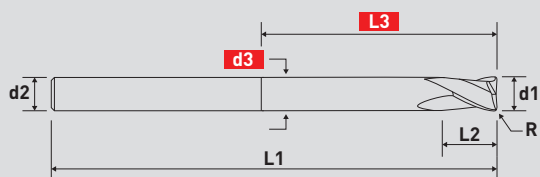


Cutting
Conditions



Cod.	d1	d2	d3	R	L1	L2	L3	L4	Z	Stock
8262170101	1	6	0,8	0,25	100	2	6	40	2	●
8262170201	2	6	1,8	0,5	100	2	8	40	2	●
8262170301	3	6	2,8	0,5	100	2	12	40	2	●
8262170401	4	6	3,8	0,5	100	3	16	40	2	●
8262170402	4	6	3,8	1	100	3	16	40	2	●
8262170501	5	6	4,8	0,5	100	4	20	40	2	●
8262170601	6	8	5,8	1	100	4	25	50	2	●
8262170602	6	8	5,8	2	100	4	25	50	2	●
8262170801	8	10	7,8	1	120	4	32	60	2	●
8262170802	8	10	7,8	2	120	4	32	60	2	●
8262171001	10	12	9,8	1,5	160	6	40	80	2	●
8262171002	10	12	9,8	3	160	6	40	80	2	●
8262171201	12	16	11,8	1,5	200	8	50	100	2	●
8262171202	12	16	11,8	4	200	8	50	100	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



92.6813

CORNER RADIUS SC END MILL LONG NECK Z2 · 30°

FRESA TÓRICA SC
CUELLO LARGO Z2 · 30°



Cutting
Conditions



Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9268130205	0,2	4	0,15	0,05	40	0,2	0,5	2	●
9268130215	0,2	4	0,15	0,05	40	0,2	1,5	2	●
9268130301	0,3	4	0,25	0,05	40	0,3	1	2	●
9268130303	0,3	4	0,25	0,05	40	0,3	3	2	●
9268130402	0,4	4	0,35	0,05	40	0,4	2	2	●
9268130404	0,4	4	0,35	0,05	40	0,4	4	2	●
9268130502	0,5	4	0,45	0,05	45	0,5	2	2	●
9268130504	0,5	4	0,45	0,05	45	0,5	4	2	●
9268130506	0,5	4	0,45	0,05	45	0,5	6	2	●
9268130603	0,6	4	0,55	0,05	45	0,6	3	2	●
9268130606	0,6	4	0,55	0,05	45	0,6	6	2	●
9268130804	0,8	4	0,75	0,05	45	0,8	4	2	●
9268130808	0,8	4	0,75	0,05	45	0,8	8	2	●
9268131004	1	4	0,95	0,1	45	1	4	2	●
9268131008	1	4	0,95	0,1	45	1	8	2	●
9268131010	1	4	0,95	0,1	50	1	10	2	●
9268131012	1	4	0,95	0,1	50	1	12	2	●
9268131016	1	4	0,95	0,1	50	1	16	2	●
9268131020	1	4	0,95	0,1	50	1	20	2	●
9268131206	1,2	4	1,15	0,1	45	1,2	6	2	●
9268131210	1,2	4	1,15	0,1	50	1,2	10	2	●
9268131216	1,2	4	1,15	0,1	50	1,2	16	2	●
9268131508	1,5	4	1,45	0,1	45	1,5	8	2	●
9268131512	1,5	4	1,45	0,1	50	1,5	12	2	●
9268131520	1,5	4	1,45	0,1	50	1,5	20	2	●
9268132006	2	4	1,9	0,2	45	2	6	2	●



FRESA TÓRICA SC CUELLO LARGO Z2 · 30°

Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9268132010	2	4	1,9	0,2	50	2	10	2	●
9268132016	2	4	1,9	0,2	50	2	16	2	●
9268132025	2	4	1,9	0,2	60	2	25	2	●
9268132503	2,5	4	-	0,3	50	2,5	10	2	●
9268133010	3	6	2,9	0,3	50	3	10	2	●
9268133016	3	6	2,9	0,3	55	3	16	2	●
9268133025	3	6	2,9	0,3	65	3	25	2	●
9268133035	3	6	2,9	0,3	75	3	35	2	●
9268134012	4	6	3,9	0,5	50	4	12	2	●
9268134020	4	6	3,9	0,5	60	4	20	2	●
9268134030	4	6	3,9	0,5	70	4	30	2	●
9268134040	4	6	3,9	0,5	80	4	40	2	●
9268135025	5	6	4,9	0,5	70	6	25	2	●
9268135040	5	6	4,9	0,5	80	6	40	2	●
9268136020	6	6	5,9	0,5	60	7	20	2	●
9268136040	6	6	5,9	0,5	80	7	40	2	●

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



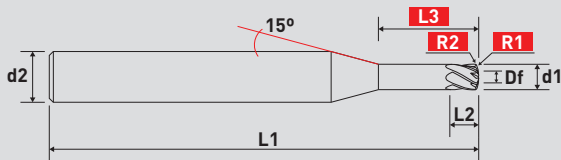
92.6783

**HIGH FEED
SC END MILL
Z4 - Z6 · 30°**

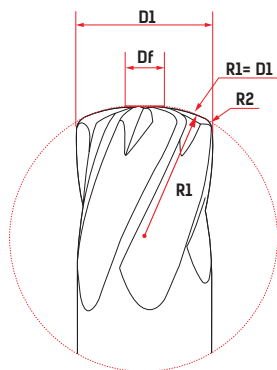
FRESA SC ALTO
AVANCE Z4 - Z6 · 30°



Cutting
Conditions



Cod.	d1	d2	R1	R2	Df	L1	L2	L3	Z	Stock
9267830300	3	6	3	0,2	0,68	60	3	9	4	●
9267830400	4	6	4	0,2	0,8	60	4	12	4	●
9267830500	5	6	5	0,3	1,08	60	5	15	4	●
9267830600	6	6	6	0,3	1,22	60	6	18	6	●
9267830800	8	8	8	0,5	1,76	75	8	24	6	●
9267831000	10	10	10	0,5	2,02	80	10	30	6	●
9267831200	12	12	12	0,5	2,28	100	12	36	6	●
9267831600	16	16	16	0,8	2,8	110	16	45	6	●



● Stock | Disponible ○ Under Request | Bajo Pedido



93.1810 - CORNER RADIUS CBN END MILL Z2

A close-up, diagonal view of a CBN tool bit. The tool has a polished, cylindrical body with a darker, textured section at the tip. The background is a soft, out-of-focus light blue.

93 SERIES

CBN tools for machining hardened materials up to 75 HRC.

- Designed for high-speed cutting in hardened materials.
- Maximum dimensional precision and excellent surface finish.
- High stability and wear resistance in demanding operations.

Herramientas de CBN para el mecanizado de materiales endurecidos hasta 75 HRC.

- Diseñadas para corte a alta velocidad en materiales endurecidos.
- Máxima precisión dimensional y excelente acabado superficial.
- Alta estabilidad y resistencia al desgaste en operaciones exigentes.

93 SERIES INDEX

Code Código	93.1824	93.1810				
						
Page Página	116	117				
Tool Material M. herramienta	CBN	CBN				
ø Range Diámetro (mm)	1 - 6	1 - 6				
Helix Angle Ángulo de Hélice	30°	30°				
P Carbon Steel						
H HRC 55 - 62	●	●				
H HRC 70 - 75	★	★				
M Stainless						
K Cast Iron						
N Non Ferrous						
G Graphite						
S Super Alloys						
Full-Slot Ranurado						
Copy Copiado		●	●			
Side Milling Fresado Lateral						
Ramping Rampa						
Interpolation Interpolación						
Trochoidal Trochoidal						
Eshop Tienda online						

★ Best Choice

- First Choice

- Suitable

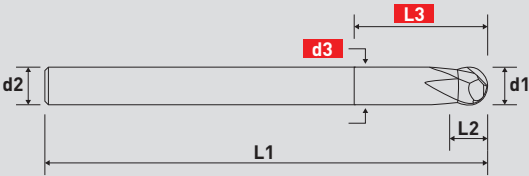
93.1824

BALL NOSE
CBN END MILL
Z2 · 30°

FRESA ESFÉRICA
CBN Z2 · 30°



Cutting
Conditions



P M K N S H G

CBN SOLID

75 HRC

HELIX 30°

MQL

Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9318240108	1	4	0,9	0,5	48	0,7	8	2	●
9318240212	2	4	1,9	1	50	1,2	12	2	●
9318241510	3	6	2,9	1,5	66	1,8	10	2	●
9318240220	4	6	3,9	2	66	2,4	20	2	●
9318240320	6	6	5,9	3	83	3,5	20	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

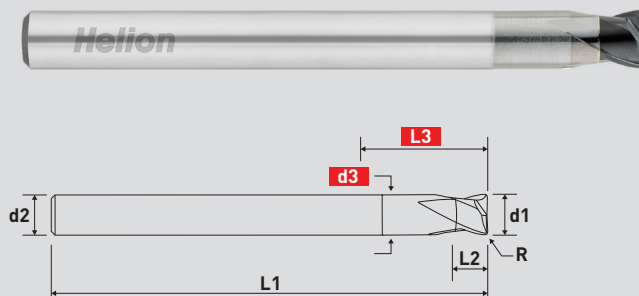
93.1810

CORNER RADIUS CBN END MILL Z2 · 30°

FRESA TÓRICA
CBN Z2 · 30°



Cutting
Conditions



Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9318100106	1	4	0,9	0,1	48	0,7	6	2	●
9318100208	2	4	1,9	0,2	50	0,9	8	2	●
9318100310	3	6	2,9	0,3	66	1,2	10	2	●
9318100416	4	6	3,9	0,5	66	1,5	16	2	●
9318100615	6	6	5,9	0,5	83	3	15	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido





94 SERIES

Solid carbide end mill designed for efficient machining of aluminum and non-ferrous materials.

- Optimized geometry for fast, clean and precise cutting.
- High chip evacuation capacity with reduced material adhesion.
- Increased productivity with excellent surface finish quality.

Fresas de metal duro diseñadas para el mecanizado eficiente de aluminio y materiales no férricos.

- Geometría optimizada para cortes rápidos, limpios y precisos.
- Alta capacidad de evacuación de viruta y menor adherencia de material.
- Mayor productividad con una excelente calidad de acabado superficial.

94 SERIES INDEX

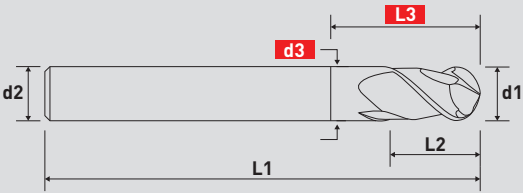
Code Código		94.3223	94.0100	94.0201	94.3203	94.0302	94.3535
							
Page Página		122	123	124	125	126	127
Tool Material M. herramienta		SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)		1 - 12	3 - 12	3 - 20	3 - 20	3 - 20	6 - 20
Helix Angle Ángulo de Hélice		45°	30°	45°	45°	45°	45°
P Carbon Steel							
H HRC 55 - 62							
H HRC 70 - 75							
M Stainless							
K Cast Iron							
N Non Ferrous		★	★	★	★	★	★
G Graphite							
S Super Alloys							○
Full-Slot Ranurado			●	●	●	●	
Copy Copiado		●					
Side Milling Fresado Lateral			●	●	●	●	●
Ramping Rampa			●	●	●	●	
Interpolation Interpolación			●	●	●	●	
Trochoidal Trocooidal							●
Eshop Tienda online							

94.3213	94.3302	94.3409					
							
128	129	130					
SC	SC	SC					
1 - 12	3 - 25	3 - 20					
30°	43° - 47°	43° - 47°					
★	★	★					
●	●	●					
●	●	●					
●	●	●					
○	○	○					
							

94.3223

BALL NOSE
SC END MILL
Z2 · 45°

FRESA ESFÉRICA
SC Z2 · 45°



P

M

K

N

S

H

G

SC

SPEED

ZR

HELIX

45°

Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9432230105	1	4	0,95	0,5	50	1,5	5	2	●
9432230110	1	4	0,95	0,5	50	1,5	10	2	●
9432230210	2	6	1,9	1	50	3	10	2	●
9432230220	2	6	1,9	1	60	3	20	2	●
9432230312	3	6	2,9	1,5	60	4,5	12	2	●
9432230325	3	6	2,9	1,5	70	4,5	25	2	●
9432230416	4	6	3,9	2	60	6	16	2	●
9432230430	4	6	3,9	2	70	6	30	2	●
9432230516	5	6	4,9	2,5	80	8	16	2	●
9432230525	5	6	4,9	2,5	80	8	25	2	●
9432230615	6	6	5,8	3	90	9	15	2	●
9432230640	6	6	5,8	3	90	9	40	2	●
9432230820	8	8	7,8	4	100	12	20	2	●
9432231025	10	10	9,8	5	100	15	25	2	●
9432231230	12	12	11,8	6	110	18	30	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

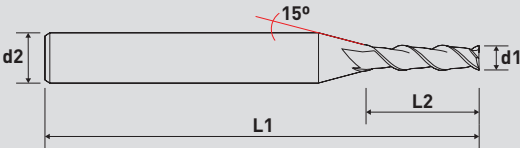
94.0201

SQUARE SC
END MILL
Z2 · 45°

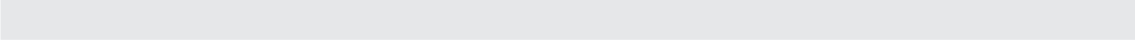
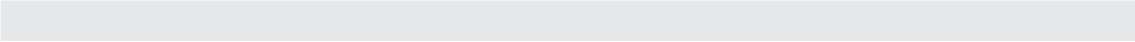
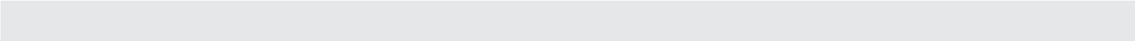
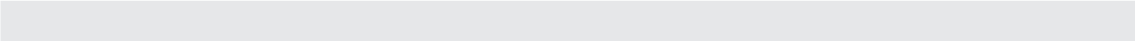
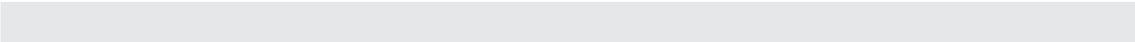
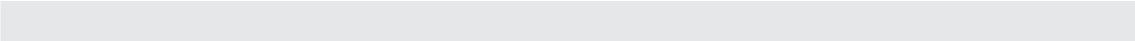
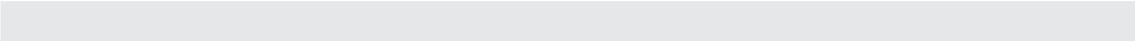
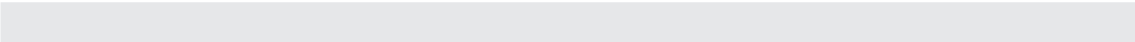
FRESA PLANA
SC Z2 · 45°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
9402010300	3	6	45	10	2	●
9402010400	4	6	50	12	2	●
9402010500	5	6	50	15	2	●
9402010600	6	6	60	20	2	●
9402010800	8	8	65	25	2	●
9402011000	10	10	75	30	2	●
9402011200	12	12	80	35	2	●
9402011400	14	14	90	50	2	●
9402011600	16	16	110	55	2	●
9402012000	20	20	120	65	2	●



● Stock | Disponible ○ Under Request | Bajo Pedido

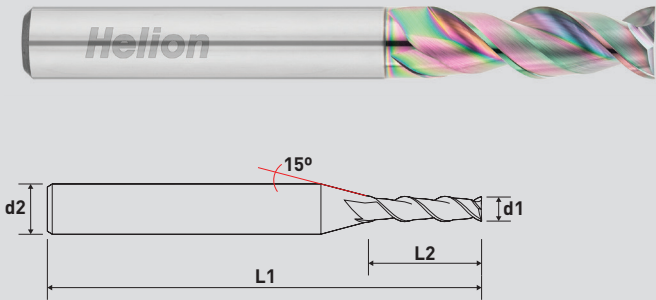
94.3203

SQUARE SC
END MILL
Z2 · 45°

FRESA PLANA
SC Z2 · 45°



Cutting
Conditions



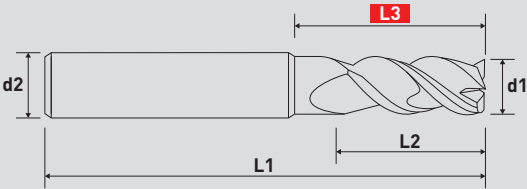
Cod.	d1	d2	L1	L2	Z	Stock
9432030300	3	6	45	10	2	●
9432030400	4	6	50	12	2	●
9432030500	5	6	50	15	2	●
9432030600	6	6	60	20	2	●
9432030800	8	8	65	25	2	●
9432031000	10	10	75	30	2	●
9432031200	12	12	80	35	2	●
9432031600	16	16	110	55	2	●
9432032000	20	20	120	65	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

94.0302

SQUARE SC END
MILL ALUTECH
Z3 · 45°

FRESA PLANA SC
ALUTECH Z3 · 45°



P

M

K

N

S

H

G

SC

BRIGHT

HELIX
45°









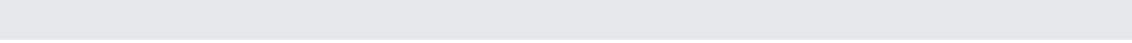
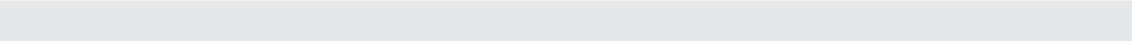
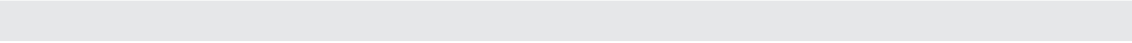
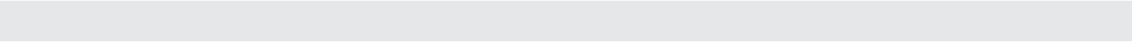
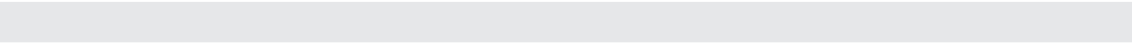
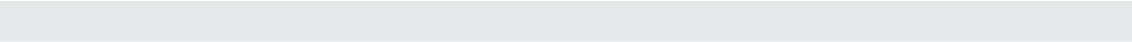
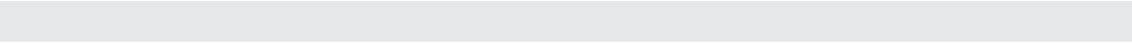
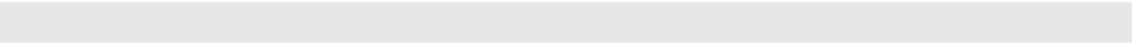








Cod.	d1	d2	L1	L2	L3	Z	Stock
9403020300	3	6	50	11	15	3	●
9403020400	4	6	50	12	16	3	●
9403020500	5	6	50	12	16	3	●
9403020600	6	6	55	13	-	3	●
9403020800	8	8	65	19	-	3	●
9403021000	10	10	75	22	-	3	●
9403021200	12	12	75	26	-	3	●
9403021400	14	14	84	32	-	3	●
9403021600	16	16	92	32	-	3	●
9403022000	20	20	100	45	-	3	●



● Stock | Disponible ○ Under Request | Bajo Pedido

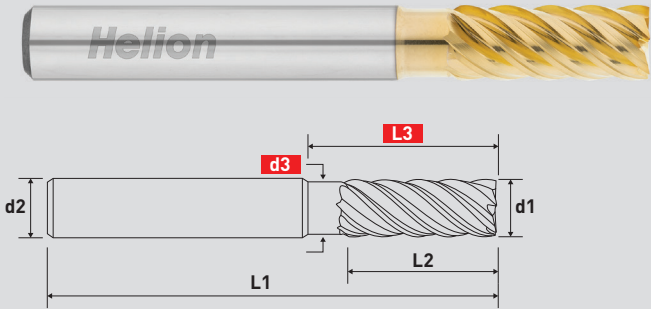
94.3535

FINISHING
SC END MILL
Z6 · 45°

FRESA SC PARA
ACABADO Z6 · 45°



Cutting
Conditions



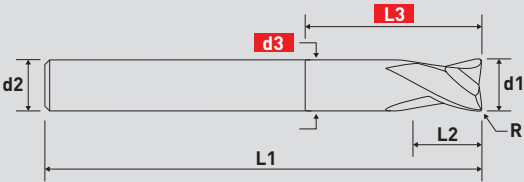
Cod.	d1	d2	d3	L1	L2	L3	Z	Stock
9435350600	6	6	5,7	57	15	20	6	●
9435350601	6	6	5,7	80	15	43	6	●
9435350800	8	8	7,4	63	20	26	6	●
9435350801	8	8	7,4	100	20	62	6	●
9435351000	10	10	9,2	73	25	32	6	●
9435351001	10	10	9,2	100	25	58	6	●
9435351200	12	12	11	83	30	37	6	●
9435351201	12	12	11	120	30	73	6	●
9435351600	16	16	15	93	40	45	6	●
9435351601	16	16	15	150	40	100	6	●
9435352000	20	20	19	104	50	53	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido

94.3213

CORNER RADIUS
SC END MILL
Z2 · 30°

FRESA TÓRICA
SC Z2 · 30°



P

M

K

N

S

H

G

SC

SPEED

ZR

HELIX

30°









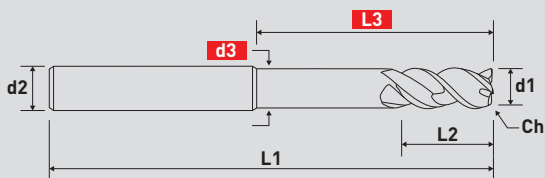






Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9432130101	1	4	0,95	0,1	50	1,5	8	2	●
9432130111	1	4	0,95	0,1	50	1,5	16	2	●
9432130202	2	4	1,9	0,2	50	3	10	2	●
9432130222	2	4	1,9	0,2	50	3	20	2	●
9432130303	3	6	2,9	0,3	55	4	16	2	●
9432130333	3	6	2,9	0,3	70	4	30	2	●
9432130405	4	6	3,9	0,5	60	5	20	2	●
9432130455	4	6	3,9	0,5	80	5	40	2	●
9432130603	6	6	5,85	0,3	60	7	20	2	●
9432130610	6	6	5,85	1	60	7	20	2	●
9432130805	8	8	7,88	0,5	65	9	25	2	●
9432130810	8	8	7,88	1	65	9	25	2	●
9432131005	10	10	9,8	0,5	70	11	32	2	●
9432131015	10	10	9,8	1,5	70	11	32	2	●
9432131205	12	12	11,8	0,5	80	12	38	2	●
9432131215	12	12	11,8	1,5	80	12	38	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido



94.3302

**SQUARE SC END
MILL LONG NECK
Z3 · 43°/47°**

FRESA PLANA SC CUELLO
LARGO Z3 · 43°/47°



Cutting
Conditions



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z	Stock
9433020300	3	6	2,8	57	8	12	0,1	3	●
9433020400	4	6	3,8	57	11	18	0,1	3	●
9433020500	5	6	4,8	57	13	18	0,1	3	●
9433020600	6	6	5,8	57	13	18	0,2	3	●
9433020601	6	6	5,8	80	13	42	0,2	3	●
9433020800	8	8	7,8	63	21	25	0,2	3	●
9433020801	8	8	7,8	100	21	62	0,2	3	●
9433021000	10	10	9,7	72	22	30	0,2	3	●
9433021001	10	10	9,7	100	22	58	0,2	3	●
9433021200	12	12	11,7	83	26	36	0,2	3	●
9433021201	12	12	11,7	120	26	73	0,2	3	●
9433021600	16	16	15,7	92	36	42	0,2	3	●
9433021601	16	16	15,7	150	36	100	0,2	3	●
9433021800	18	18	17,6	92	36	42	0,2	3	●
9433022000	20	20	19,5	104	41	52	0,2	3	●
9433022001	20	20	19,5	150	41	98	0,2	3	●
9433022500	25	25	24,5	121	50	65	0,3	3	●

● Stock | Disponible ○ Under Request | Bajo Pedido

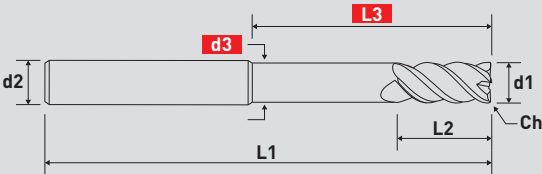
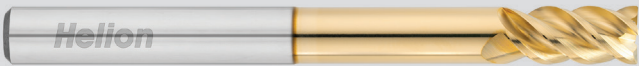
94.3409

SQUARE SC END
MILL LONG NECK
Z4 · 43°/47°

FRESA PLANA SC CUELLO
LARGO Z4 · 43°/47°



Cutting
Conditions



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z	Stock
9434090300	3	6	2,8	57	8	12	0,1	4	●
9434090400	4	6	3,8	57	11	18	0,1	4	●
9434090500	5	6	4,8	57	13	18	0,1	4	●
9434090600	6	6	5,8	57	13	18	0,2	4	●
9434090601	6	6	5,8	80	13	42	0,2	4	●
9434090800	8	8	7,8	63	21	25	0,2	4	●
9434090801	8	8	7,8	100	21	62	0,2	4	●
9434091000	10	10	9,7	72	22	30	0,2	4	●
9434091001	10	10	9,7	100	22	58	0,2	4	●
9434091200	12	12	11,7	83	26	36	0,2	4	●
9434091201	12	12	11,7	120	26	73	0,2	4	●
9434091600	16	16	15,7	92	36	42	0,2	4	●
9434091601	16	16	15,7	150	36	100	0,2	4	●
9434092000	20	20	19,5	104	41	52	0,2	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

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We design and manufacture special solid carbide tools for specific machining applications. Whether you need to optimize an existing tool or develop a completely new solution, our engineering team works with you from concept to production.

Application analysis · Custom tool design · Solid carbide manufacturing
Optimized geometry & coating · Technical support & implementation



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96 SERIES

Diamond-coated solid carbide end mills developed for machining graphite and highly abrasive materials.

- Ball nose and corner radius geometries with 2 and 4 cutting edges.
- CVD diamond coating for maximum abrasive wear resistance and extended tool life.
- Designed to maintain cutting accuracy and surface quality in demanding abrasive applications.

Fresas de metal duro con recubrimiento de diamante desarrolladas para el mecanizado de grafito y materiales altamente abrasivos.

- Geometrías esféricas y tóricas con 2 y 4 labios de corte.
- Recubrimiento de diamante CVD para una máxima resistencia al desgaste abrasivo y una vida útil prolongada.
- Diseñadas para mantener la precisión de corte y la calidad superficial en aplicaciones abrasivas exigentes.

96 SERIES INDEX

Code Código	96.8822	96.8814	96.8415			
						
Page Página	136	140	145			
Tool Material M. herramienta	SC	SC	SC			
Ø Range Diámetro (mm)	0,2 - 12	0,2 - 6	2 - 12			
Helix Angle Ángulo de Hélice	30°	30°	30°			
P Carbon Steel						
H HRC 55 - 62						
H HRC 70 - 75						
M Stainless						
K Cast Iron						
N Non Ferrous						
G Graphite	★	★	★			
S Super Alloys						
Full-Slot Ranurado		○	●			
Copy Copiado		●	●			
Side Milling Fresado Lateral		○	○			
Ramping Rampa		○	○			
Interpolation Interpolación		○	○			
Trochoidal Trocoidal						
Eshop Tienda online						

★ Best Choice

- First Choice

- Suitable

96.8822

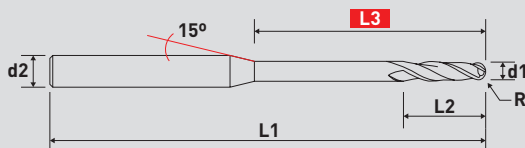
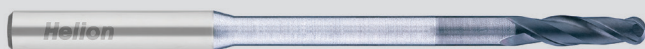
BALL NOSE DIAMOND END MILL Z2 · 30°

FRESA ESFÉRICA SC
DIAMOND Z2 · 30°



Cutting
Conditions

Coating thickness
10 +2µm



Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688220020	0,2	4	0,1	45	1	-	2	○
9688220030	0,3	4	0,15	45	1,2	-	2	○
9688220031	0,3	4	0,15	45	1,2	2	2	○
9688220040	0,4	4	0,2	45	1,5	-	2	○
9688220041	0,4	4	0,2	45	1,5	2	2	○
9688220042	0,4	4	0,2	45	1,5	3	2	○
9688220043	0,4	4	0,2	45	1,5	4	2	○
9688220044	0,4	4	0,2	45	1,5	5	2	○
9688220045	0,4	4	0,2	45	1,5	8	2	○
9688220046	0,4	4	0,2	45	1,5	10	2	○
9688220050	0,5	4	0,25	45	2	-	2	○
9688220051	0,5	4	0,25	45	2	3	2	○
9688220052	0,5	4	0,25	45	2	4	2	○
9688220053	0,5	4	0,25	45	2	5	2	○
9688220054	0,5	4	0,25	45	2	6	2	○
9688220055	0,5	4	0,25	45	2	8	2	○
9688220056	0,5	4	0,25	45	2	10	2	○
9688220057	0,5	4	0,25	45	2	12	2	○
9688226001	0,6	4	0,3	45	2	-	2	○
9688226003	0,6	4	0,3	45	2	3	2	○
9688226005	0,6	4	0,3	45	2	4	2	○
9688226007	0,6	4	0,3	45	2	5	2	○
9688226009	0,6	4	0,3	45	2	6	2	○
9688226011	0,6	4	0,3	45	2	8	2	○
9688226013	0,6	4	0,3	45	2	10	2	○
9688226015	0,6	4	0,3	45	2	12	2	○



Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688226017	0,6	4	0,3	45	2	15	2	○
9688226019	0,6	4	0,3	45	2	20	2	○
9688228001	0,8	4	0,4	45	3	-	2	○
9688228003	0,8	4	0,4	45	3	4	2	○
9688228005	0,8	4	0,4	45	3	5	2	○
9688228007	0,8	4	0,4	45	3	6	2	○
9688228009	0,8	4	0,4	45	3	8	2	○
9688228011	0,8	4	0,4	45	3	10	2	○
9688228013	0,8	4	0,4	45	3	15	2	○
9688228015	0,8	4	0,4	45	3	20	2	○
9688220100	1	4	0,5	60	3	-	2	○
9688220101	1	4	0,5	60	3	4	2	○
9688220102	1	4	0,5	60	3	5	2	○
9688220103	1	4	0,5	60	3	6	2	○
9688220104	1	4	0,5	60	3	8	2	○
9688220115	1	4	0,5	60	3	10	2	○
9688220116	1	4	0,5	60	3	12	2	○
9688220117	1	4	0,5	60	3	15	2	○
9688220118	1	4	0,5	60	3	20	2	○
9688220119	1	4	0,5	80	3	25	2	○
9688220120	1	4	0,5	80	3	30	2	○
9688220121	1	4	0,5	80	3	35	2	○
9688220122	1	4	0,5	80	3	40	2	○
9688220123	1	4	0,5	80	3	45	2	○
9688220124	1	4	0,5	80	3	50	2	○
9688220150	1,5	4	0,75	60	4,5	-	2	○
9688220151	1,5	4	0,75	60	4,5	2	2	○
9688220152	1,5	4	0,75	80	4,5	8	2	○
9688220153	1,5	4	0,75	80	4,5	10	2	○
9688220154	1,5	4	0,75	80	4,5	12	2	○
9688220155	1,5	4	0,75	80	4,5	15	2	○
9688220156	1,5	4	0,75	80	4,5	18	2	○
9688220157	1,5	4	0,75	80	4,5	20	2	○
9688220158	1,5	4	0,75	80	4,5	25	2	○
9688220159	1,5	4	0,75	80	4,5	30	2	○



96.8822 | BALL NOSE DIAMOND END MILL Z2 · 30°
FRESA ESFÉRICA SC DIAMOND Z2 · 30°

Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688220160	1,5	4	0,75	80	4,5	35	2	○
9688220161	1,5	4	0,75	80	4,5	40	2	○
9688220200	2	4	1	60	6	-	2	○
9688220201	2	4	1	80	6	10	2	○
9688220202	2	4	1	80	6	15	2	○
9688220203	2	4	1	80	6	20	2	○
9688220204	2	4	1	80	6	25	2	○
9688220205	2	4	1	80	6	30	2	○
9688220206	2	4	1	80	6	35	2	○
9688220207	2	4	1	100	6	40	2	○
9688220208	2	4	1	100	6	45	2	○
9688220209	2	4	1	100	6	50	2	○
9688220210	2	4	1	100	6	60	2	○
9688220211	2	4	1	100	6	70	2	○
9688220300	3	4	1,5	60	8	-	2	○
9688220301	3	6	1,5	60	3	8	2	○
9688220302	3	3	1,5	100	8	15	2	○
9688220303	3	4	1,5	100	8	15	2	○
9688220304	3	4	1,5	100	8	20	2	○
9688220305	3	4	1,5	100	8	25	2	○
9688220306	3	4	1,5	100	8	30	2	○
9688220307	3	4	1,5	100	8	35	2	○
9688220308	3	4	1,5	100	8	40	2	○
9688220309	3	4	1,5	100	8	50	2	○
9688220310	3	4	1,5	100	8	60	2	○
9688220311	3	4	1,5	100	8	70	2	○
9688220400	4	4	2	60	4	-	2	○
9688220401	4	4	2	60	16	-	2	○
9688220402	4	4	2	80	16	-	2	○
9688220403	4	4	2	100	16	-	2	○
9688220404	4	4	2	130	16	-	2	○
9688220405	4	4	2	150	16	-	2	○
9688220406	4	4	2	80	16	30	2	○
9688220407	4	4	2	100	16	40	2	○
9688220408	4	4	2	130	16	40	2	○



96.8822 | BALL NOSE DIAMOND END MILL Z2 · 30°
FRESA ESFÉRICA SC DIAMOND Z2 · 30°

Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688220409	4	4	2	150	16	50	2	○
9688220500	5	5	2,5	110	16	-	2	○
9688220501	5	6	2,5	110	16	20	2	○
9688220502	5	5	2,5	110	16	40	2	○
9688220503	5	6	2,5	110	16	40	2	○
9688220504	5	6	2,5	110	16	60	2	○
9688220600	6	6	3	80	16	25	2	○
9688220601	6	6	3	110	16	25	2	○
9688220602	6	6	3	150	16	30	2	○
9688220603	6	6	3	110	16	40	2	○
9688220604	6	6	3	150	16	50	2	○
9688220800	8	8	4	80	20	30	2	○
9688220801	8	8	4	110	20	30	2	○
9688220802	8	8	4	110	20	40	2	○
9688220803	8	8	4	200	20	40	2	○
9688220804	8	8	4	150	20	50	2	○
9688221000	10	10	5	80	22	40	2	○
9688221001	10	10	5	110	22	40	2	○
9688221002	10	10	5	110	22	50	2	○
9688221003	10	10	5	200	22	50	2	○
9688221004	10	10	5	160	22	60	2	○
9688221200	12	12	6	110	25	50	2	○
9688221201	12	12	6	160	25	50	2	○
9688221202	12	12	6	200	25	60	2	○

● Stock | Disponible ○ Under Request | Bajo Pedido

96.8814

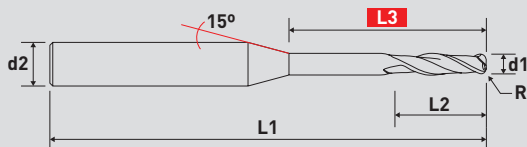
CORNER RADIUS DIAMOND END MILL Z2 · 30°

FRESA TÓRICA SC
DIAMOND Z2 · 30°



Cutting
Conditions

Coating thickness
10 +2µm



Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688140021	0,2	4	0,02	60	0,5	1,5	2	○
9688140031	0,3	4	0,02	60	0,6	1,5	2	○
9688140033	0,3	4	0,02	60	0,6	4,5	2	○
9688140034	0,3	4	0,02	60	0,6	6	2	○
9688140041	0,4	4	0,02	60	0,8	2	2	○
9688140042	0,4	4	0,02	60	0,8	4	2	○
9688140043	0,4	4	0,02	60	0,8	6	2	○
9688140044	0,4	4	0,02	60	0,8	8	2	○
9688140050	0,5	4	0,05	60	1	-	2	○
9688140051	0,5	4	0,05	60	1	2,5	2	○
9688140052	0,5	4	0,05	60	1	3,5	2	○
9688140053	0,5	4	0,05	60	1	5	2	○
9688140054	0,5	4	0,05	60	1	7,5	2	○
9688140055	0,5	4	0,05	60	1	10	2	○
9688140061	0,6	4	0,05	60	1,2	-	2	○
9688140062	0,6	4	0,05	60	1,2	3	2	○
9688140063	0,6	4	0,05	60	1,2	6	2	○
9688140064	0,6	4	0,05	60	1,2	9	2	○
9688140065	0,6	4	0,05	60	1,2	12	2	○
9688140081	0,8	4	0,05	60	1,6	-	2	○
9688140082	0,8	4	0,05	60	1,6	4	2	○
9688140083	0,8	4	0,05	60	1,6	8	2	○
9688140084	0,8	4	0,05	60	1,6	10	2	○
9688140085	0,8	4	0,05	60	1,6	16	2	○
9688140101	1	4	0,05	60	2	-	2	○
9688140102	1	4	0,05	60	2	5	2	○



Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688140103	1	4	0,05	60	2	10	2	○
9688140104	1	4	0,05	60	2	15	2	○
9688140105	1	4	0,05	60	2	20	2	○
9688140106	1	4	0,1	60	2	-	2	○
9688140107	1	4	0,1	60	2	5	2	○
9688140108	1	4	0,1	60	2	10	2	○
9688140109	1	4	0,1	60	2	15	2	○
9688140110	1	4	0,1	60	2	20	2	○
9688140111	1	4	0,2	60	2	-	2	○
9688140112	1	4	0,2	60	2	5	2	○
9688140113	1	4	0,2	60	2	10	2	○
9688140114	1	4	0,2	60	2	15	2	○
9688140115	1	4	0,2	60	2	20	2	○
9688140151	1,5	4	0,05	60	3	-	2	○
9688140152	1,5	4	0,05	60	3	5	2	○
9688140153	1,5	4	0,05	60	3	10	2	○
9688140154	1,5	4	0,05	60	3	15	2	○
9688140155	1,5	4	0,05	60	3	20	2	○
9688140156	1,5	4	0,1	60	3	-	2	○
9688140157	1,5	4	0,1	60	3	5	2	○
9688140158	1,5	4	0,1	60	3	10	2	○
9688140159	1,5	4	0,1	60	3	15	2	○
9688140160	1,5	4	0,1	60	3	20	2	○
9688140161	1,5	4	0,15	60	3	-	2	○
9688140162	1,5	4	0,15	60	3	5	2	○
9688140163	1,5	4	0,15	60	3	10	2	○
9688140164	1,5	4	0,15	60	3	15	2	○
9688140165	1,5	4	0,15	60	3	20	2	○
9688140166	1,5	4	0,2	60	3	-	2	○
9688140167	1,5	4	0,2	60	3	5	2	○
9688140168	1,5	4	0,2	60	3	10	2	○
9688140169	1,5	4	0,2	60	3	15	2	○
9688140170	1,5	4	0,2	60	3	20	2	○
9688140171	1,5	4	0,3	60	3	-	2	○
9688140172	1,5	4	0,3	60	3	5	2	○



96.8814 | CORNER RADIUS DIAMOND END MILL Z2 · 30°
FRESA TÓRICA SC DIAMOND Z2 · 30°

Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688140173	1,5	4	0,3	60	3	10	2	○
9688140174	1,5	4	0,3	60	3	15	2	○
9688140175	1,5	4	0,3	60	3	20	2	○
9688140201	2	4	0,05	60	3,5	-	2	○
9688140202	2	4	0,05	60	3,5	6	2	○
9688140203	2	4	0,05	60	3,5	12	2	○
9688140204	2	4	0,05	60	3,5	18	2	○
9688140205	2	4	0,05	60	3,5	25	2	○
9688140206	2	4	0,05	60	3,5	30	2	○
9688140207	2	4	0,2	60	3,5	-	2	○
9688140208	2	4	0,2	60	3,5	6	2	○
9688140209	2	4	0,2	60	3,5	12	2	○
9688140210	2	4	0,2	60	3,5	18	2	○
9688140211	2	4	0,2	60	3,5	25	2	○
9688140212	2	4	0,2	60	3,5	30	2	○
9688140213	2	4	0,3	60	3,5	-	2	○
9688140214	2	4	0,3	60	3,5	6	2	○
9688140215	2	4	0,3	60	3,5	12	2	○
9688140216	2	4	0,3	60	3,5	18	2	○
9688140217	2	4	0,3	60	3,5	25	2	○
9688140218	2	4	0,3	60	3,5	30	2	○
9688140219	2	4	0,5	60	3,5	-	2	○
9688140220	2	4	0,5	60	3,5	6	2	○
9688140221	2	4	0,5	60	3,5	12	2	○
9688140222	2	4	0,5	60	3,5	18	2	○
9688140223	2	4	0,5	60	3,5	25	2	○
9688140224	2	4	0,5	60	3,5	30	2	○
9688140301	3	4	0,05	80	4	-	2	○
9688140302	3	4	0,05	80	4	10	2	○
9688140303	3	4	0,05	80	4	20	2	○
9688140303	3	4	0,05	80	4	20	2	○
9688140304	3	4	0,05	80	4	30	2	○
9688140305	3	4	0,05	80	4	40	2	○
9688140306	3	4	0,2	80	4	-	2	○
9688140307	3	4	0,2	80	4	10	2	○



96.8814 | CORNER RADIUS DIAMOND END MILL Z2 · 30°
FRESA TÓRICA SC DIAMOND Z2 · 30°

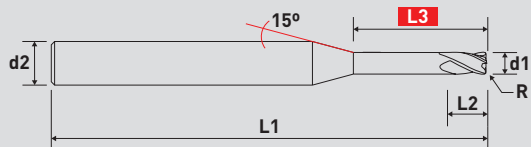
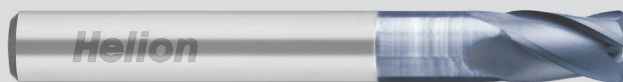
Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688140308	3	4	0,2	80	4	20	2	○
9688140309	3	4	0,2	80	4	30	2	○
9688140310	3	4	0,2	80	4	40	2	○
9688140311	3	4	0,3	80	4	-	2	○
9688140312	3	4	0,3	80	4	10	2	○
9688140313	3	4	0,3	80	4	20	2	○
9688140314	3	4	0,3	80	4	30	2	○
9688140315	3	4	0,3	80	4	40	2	○
9688140321	3	4	0,5	80	4	-	2	○
9688140322	3	4	0,5	80	4	10	2	○
9688140323	3	4	0,5	80	4	20	2	○
9688140324	3	4	0,5	80	4	30	2	○
9688140325	3	4	0,5	80	4	40	2	○
9688140331	3	4	1	80	4	-	2	○
9688140332	3	4	1	80	4	10	2	○
9688140333	3	4	1	80	4	20	2	○
9688140334	3	4	1	80	4	30	2	○
9688140335	3	4	1	80	4	40	2	○
9688140401	4	4	0,05	80	5	-	2	○
9688140402	4	4	0,05	80	5	15	2	○
9688140403	4	4	0,05	80	5	25	2	○
9688140404	4	4	0,05	80	5	40	2	○
9688140411	4	4	0,2	80	5	-	2	○
9688140412	4	4	0,2	80	5	15	2	○
9688140413	4	4	0,2	80	5	25	2	○
9688140414	4	4	0,2	80	5	40	2	○
9688140421	4	4	0,5	80	5	-	2	○
9688140422	4	4	0,5	80	5	15	2	○
9688140423	4	4	0,5	80	5	25	2	○
9688140424	4	4	0,5	80	5	40	2	○
9688140431	4	4	1	80	5	-	2	○
9688140432	4	4	1	80	5	15	2	○
9688140433	4	4	1	80	5	25	2	○
9688140434	4	4	1	80	5	40	2	○
9688140501	5	6	0,05	110	6	-	2	○



96.8814 | CORNER RADIUS DIAMOND END MILL Z2 · 30°
FRESA TÓRICA SC DIAMOND Z2 · 30°

Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9688140502	5	6	0,05	110	6	15	2	○
9688140503	5	6	0,05	110	6	30	2	○
9688140504	5	6	0,05	110	6	50	2	○
9688140511	5	6	0,2	110	6	-	2	○
9688140512	5	6	0,2	110	6	15	2	○
9688140513	5	6	0,2	110	6	30	2	○
9688140514	5	6	0,2	110	6	50	2	○
9688140521	5	6	0,5	110	6	-	2	○
9688140522	5	6	0,5	110	6	15	2	○
9688140523	5	6	0,5	110	6	30	2	○
9688140524	5	6	0,5	110	6	50	2	○
9688140601	6	6	0,05	110	7	-	2	○
9688140602	6	6	0,05	110	7	20	2	○
9688140603	6	6	0,05	110	7	30	2	○
9688140604	6	6	0,05	110	7	50	2	○
9688140611	6	6	0,2	110	7	-	2	○
9688140612	6	6	0,2	110	7	20	2	○
9688140613	6	6	0,2	110	7	30	2	○
9688140614	6	6	0,2	110	7	50	2	○
9688140621	6	6	0,5	110	7	-	2	○
9688140622	6	6	0,5	110	7	20	2	○
9688140623	6	6	0,5	110	7	30	2	○
9688140624	6	6	0,5	110	7	50	2	○
9688140631	6	6	1	110	7	-	2	○
9688140632	6	6	1	110	7	20	2	○
9688140633	6	6	1	110	7	30	2	○
9688140634	6	6	1	110	7	50	2	○

● Stock | Disponible ○ Under Request | Bajo Pedido



96.8415

CORNER RADIUS DIAMOND END MILL Z4 · 30°

FRESA TÓRICA SC
DIAMOND Z4 · 30°

Coating thickness
6 +2µm



Cutting
Conditions



Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9684150200	2	4	0,05	60	3,5	-	4	○
9684150202	2	4	0,05	60	3,5	6	4	○
9684150204	2	4	0,05	60	3,5	12	4	○
9684150206	2	4	0,05	60	3,5	18	4	○
9684150208	2	4	0,05	60	3,5	25	4	○
9684150210	2	4	0,05	60	3,5	30	4	○
9684150212	2	4	0,2	60	3,5	-	4	○
9684150214	2	4	0,2	60	3,5	6	4	○
9684150216	2	4	0,2	60	3,5	12	4	○
9684150218	2	4	0,2	60	3,5	18	4	○
9684150220	2	4	0,2	60	3,5	25	4	○
9684150222	2	4	0,2	60	3,5	30	4	○
9684150224	2	4	0,3	60	3,5	-	4	○
9684150226	2	4	0,3	60	3,5	6	4	○
9684150228	2	4	0,3	60	3,5	12	4	○
9684150230	2	4	0,3	60	3,5	18	4	○
9684150232	2	4	0,3	60	3,5	25	4	○
9684150234	2	4	0,3	60	3,5	30	4	○
9684150236	2	4	0,5	60	3,5	-	4	○
9684150238	2	4	0,5	60	3,5	6	4	○
9684150240	2	4	0,5	60	3,5	12	4	○
9684150242	2	4	0,5	60	3,5	18	4	○
9684150244	2	4	0,5	60	3,5	25	4	○
9684150246	2	4	0,5	60	3,5	30	4	○
9684150300	3	4	0,05	80	4	-	4	○
9684150302	3	4	0,05	80	4	10	4	○



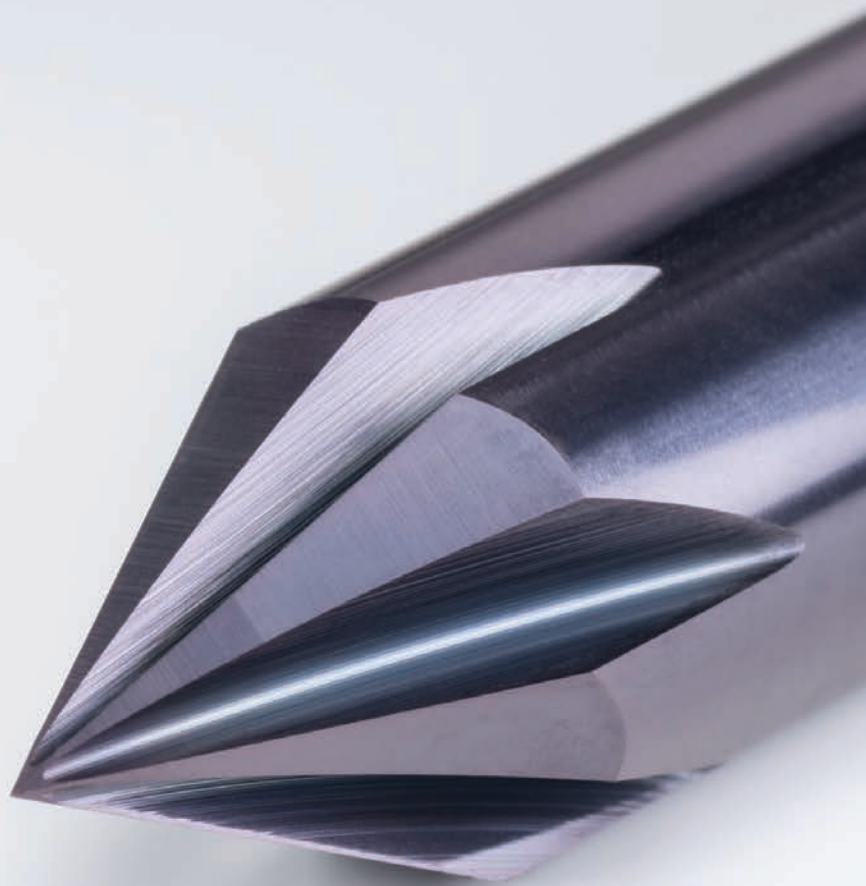
96.8415 | CORNER RADIUS DIAMOND END MILL Z4 · 30°
FRESA TÓRICA SC DIAMOND Z4 · 30°

Cod.	d1	d2	R	L1	L2	L3	Z	Stock
9684150304	3	4	0,05	80	4	20	4	○
9684150306	3	4	0,05	80	4	30	4	○
9684150308	3	4	0,05	80	4	40	4	○
9684150310	3	4	0,2	80	4	-	4	○
9684150312	3	4	0,2	80	4	10	4	○
9684150314	3	4	0,2	80	4	20	4	○
9684150316	3	4	0,2	80	4	30	4	○
9684150318	3	4	0,2	80	4	40	4	○
9684150320	3	4	0,3	80	4	-	4	○
9684150322	3	4	0,3	80	4	10	4	○
9684150324	3	4	0,3	80	4	20	4	○
9684150326	3	4	0,3	80	4	30	4	○
9684150328	3	4	0,3	80	4	40	4	○
9684150330	3	4	0,5	80	4	-	4	○
9684150332	3	4	0,5	80	4	10	4	○
9684150334	3	4	0,5	80	4	20	4	○
9684150336	3	4	0,5	80	4	30	4	○
9684150338	3	4	0,5	80	4	40	4	○
9684150340	3	4	1	80	4	-	4	○
9684150342	3	4	1	80	4	10	4	○
9684150344	3	4	1	80	4	20	4	○
9684150346	3	4	1	80	4	30	4	○
9684150348	3	4	1	80	4	40	4	○
9684150400	4	4	0,3	100	6	20	4	○
9684150402	4	4	0,5	100	6	20	4	○
9684150404	4	4	1	100	6	20	4	○
9684150600	6	6	0,3	110	9	25	4	○
9684150602	6	6	0,5	110	9	25	4	○
9684150604	6	6	0,5	150	9	30	4	○
9684150606	6	6	1	110	9	25	4	○
9684150608	6	6	1	150	9	30	4	○
9684150800	8	8	0,3	110	12	30	4	○
9684150802	8	8	0,5	110	12	30	4	○
9684150804	8	8	0,5	150	12	40	4	○
9684150806	8	8	1	110	12	30	4	○



FRESA TÓRICA SC DIAMOND Z4 · 30°

MILL LINE 147





MULTI LINE SERIES

Solid carbide end mills designed for precision operations and complementary machining tasks.

- End mills for contouring, chamfering, engraving, deburring and sawing.
- Carbide saws available in fine and coarse pitch.
- Greater versatility and reduced setup times in CNC applications.

Fresas de metal duro diseñadas para operaciones de precisión y mecanizados complementarios.

- Fresas para contorneado, chaflanado, desbarbado, serrado y grabado.
- Sierras de carburo disponibles en paso fino y grueso.
- Mayor versatilidad y reducción de tiempos de preparación en aplicaciones CNC.

MULTI LINE INDEX

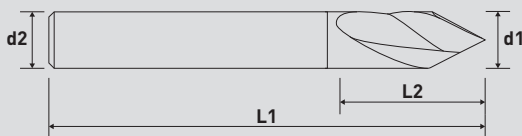
Code Código		70.6160	90.6460	90.6490	70.6480	71.7045	70.6045
							
Page Página		152	153	154	155	156	157
Tool Material M. herramienta		SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)		3 - 6	4 - 20	1 - 20	R 0,2 - 10	4 - 10	2 - 16
Helix Angle Ángulo de Hélice		30°	60°	90°	-	-	-
P Carbon Steel		●	●	●	●	●	●
H HRC 55 - 62		○	○	○	●	●	●
H HRC 70 - 75							
M Stainless		○	●	●	●	○	●
K Cast Iron		●	●	●	●	●	●
N Non Ferrous		●	●	●	●	●	●
G Graphite							
S Super Alloys		○				○	
Full-Slot Ranurado		●					
Copy Copiado					●		
Side Milling Fresado Lateral			●	●		●	●
Ramping Rampa							
Interpolation Interpolación			●	●		●	●
Trochoidal Trocooidal							
Eshop Tienda online							

85.0050	85.0051						
							
158	159						
SC	SC						
15 - 200	15 - 200						
-	-						
●	●						
○	○						
●	●						
●	●						
●	●						
							

SC END MILL GRAVER Z1 · 60°

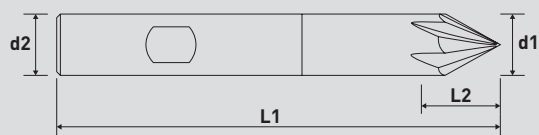


A close-up, high-contrast photograph of the tip of a Helion drill bit. The bit is dark and metallic, with a sharp, double-flute design. The word "Helion" is printed in a bold, sans-serif font on the side of the bit's shaft.



Cod.	d1	d2	L1	L2	Z	Stock
7061600300	3	3	40	2,6	1	●
7061600400	4	4	40	3,5	1	●
7061600600	6	6	50	5,2	1	●

152 MILL LINE



90.6460

**SC DEBURRING
TOOL Z4 - Z5 -
Z6 · 60°**

**FRESA SC PARA CHAFLANAR
Z4 - Z5 - Z6 · 60°**



Cutting
Conditions



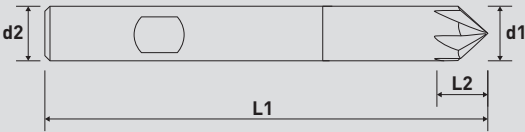
Cod	d1	d2	L1	L2	Z	Stock
9064600400	4	4	54	3,5	4	●
9064600600	6	6	57	5,2	4	●
9064600800	8	8	63	6,9	5	●
9064601000	10	10	72	8,7	6	●
9064601200	12	12	83	10,4	6	●
9064601600	16	16	92	13,9	6	●
9064602000	20	20	104	17,3	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido

90.6490

SC DEBURRING
TOOL Z3 - Z4 -
Z5 - Z6 · 90°

FRESA SC PARA CHAFLANAR
Z3 - Z4 - Z5 - Z6 · 90°



P

M

K

N

S

H

G

SC

RACER PLUS

55 HRC

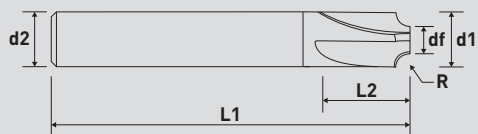
90°

HB

AIR

Cod	d1	d2	L1	L2	Z	Stock
9064900100	1	3	38	0,5	3	●
9064900200	2	3	38	1	3	●
9064900300	3	3	38	1,5	4	●
9064900400	4	4	54	2	4	●
9064900600	6	6	57	3	4	●
9064900800	8	8	63	4	5	●
9064901000	10	10	72	5	6	●
9064901200	12	12	83	6	6	●
9064901600	16	16	92	8	6	●
9064902000	20	20	104	10	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido



70.6480

QUADRANT SC ROUND MILL Z4

FRESA SC PARA
CONTORNEAR Z4



Cutting
Conditions



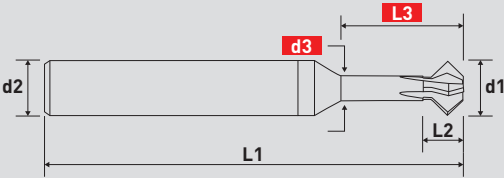
Cod.	R	df	d1	d2	L1	L2	Z	Stock
7064800020	0,2	5,6	6	6	57	0,2	4	●
7064800030	0,3	5,4	6	6	57	0,3	4	●
7064800050	0,5	7	8	8	70	0,5	4	●
7064800100	1	6	8	8	70	1	4	●
7064800150	1,5	7	10	10	75	1,5	4	●
7064800200	2	6	10	10	75	2	4	●
7064800250	2,5	7	12	12	75	2,5	4	●
7064800300	3	6	12	12	75	3	4	●
7064800350	3,5	9	16	16	80	3,5	4	●
7064800400	4	8	16	16	80	4	4	●
7064800450	4,5	7	16	16	80	4,5	4	●
7064800500	5	10	20	20	80	5	4	●
7064800600	6	8	20	20	80	6	4	●
7064800800	8	9	25	25	100	8	4	●
7064801000	10	5	25	25	100	10	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

71.7045

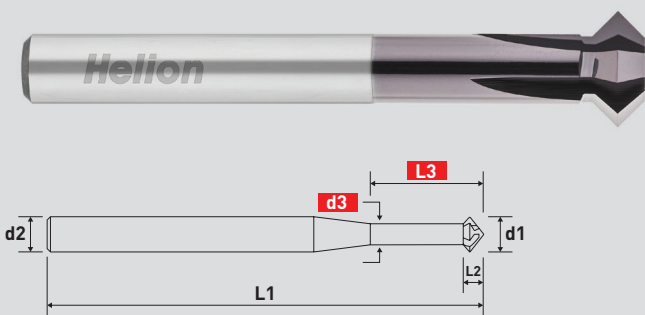
TWIN DEBURRING
SC END MILL Z4 · 90°

FRESA SC PARA
CHAFLANAR A LA ENTRADA
Y A LA SALIDA Z4 · 90°



Cod.	d1	d2	d3	L1	L2	L3	Z	Stock
7170450400	4	4	1,9	50	2,15	10,50	4	●
7170450500	5	5	2,3	50	2,70	13,00	4	●
7170450600	6	6	2,8	50	3,30	13,50	4	●
7170450800	8	8	3,6	60	4,40	17,50	4	●
7170451000	10	10	4,5	60	5,50	21,50	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido



70.6045

TWIN DEBURRING SC END MILL Z4 · 90°

FRESA SC PARA
CHAFLANAR A LA ENTRADA
Y A LA SALIDA Z4 · 90°



Cutting
Conditions



Cod.	d1	d2	d3	L1	L2	L3	Z	Stock
7060450200	2	6	1,2	100	1,4	10	4	●
7060450300	3	6	2	100	2	10	4	●
7060450400	4	6	2	100	3	13	4	●
7060450600	6	6	4	100	4	19	4	●
7060450800	8	6	-	100	3,2	-	4	●
7060451000	10	6	-	100	4,3	-	4	●
7060451200	12	6	-	100	4,6	-	4	●
7060451600	16	10	-	100	8	-	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

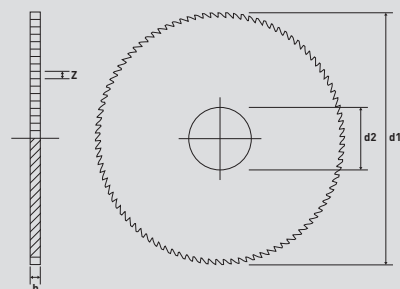
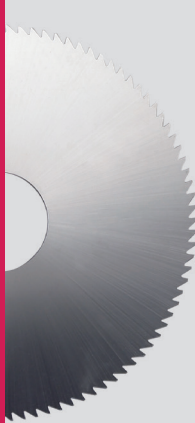
85.0050

SC SLITTING SAW FINE PITCH DIN 1837 A

SIERRA DE DISCO SC
PASO FINO DIN 1837 A



Cutting
Conditions



Cod.	d1	d2	b	Z	Stock
85005015060	15	5	0,60	48	○
85005015070	15	5	0,70	48	○
85005015080	15	5	0,80	40	○
85005015100	15	5	1,00	40	○
85005015110	15	5	1,10	40	○
85005015150	15	5	1,50	40	○
85005015160	15	5	1,60	40	○
85005015350	15	5	3,50	40	○
85005015400	15	5	4,00	40	○
85005015450	15	5	4,50	40	○
85005015500	15	5	5,00	40	○
85005015550	15	5	5,50	40	○
85005015600	15	5	6,00	40	○
85005020020	20	5	0,20	80	○
85005020025	20	5	0,25	80	○
85005020030	20	5	0,30	64	○
85005020035	20	5	0,35	64	○
85005020040	20	5	0,40	64	○
85005020050	20	5	0,50	48	○
85005020060	20	5	0,60	48	○
85005020070	20	5	0,70	48	○
85005020080	20	5	0,80	48	○
85005020090	20	5	0,90	40	○
85005020100	20	5	1,00	40	○
85005020110	20	5	1,10	40	○
85005020120	20	5	1,20	40	○
85005020130	20	5	1,30	40	○

Cod.	d1	d2	b	Z	Stock
85005020140	20	5	1,40	40	○
85005020150	20	5	1,50	40	○
85005020160	20	5	1,60	40	○
85005020170	20	5	1,70	40	○
85005020180	20	5	1,80	32	○
85005020190	20	5	1,90	32	○
85005020200	20	5	2,00	32	○
85005020250	20	5	2,50	32	○
85005020300	20	5	3,00	32	○
85005020350	20	5	3,50	24	○
85005020400	20	5	4,00	24	○
85005020450	20	5	4,50	24	○
85005020500	20	5	5,00	24	○
85005020550	20	5	5,50	24	○
85005020600	20	5	6,00	24	○
85005025020	25	8	0,20	80	○
85005025025	25	8	0,25	80	○
85005025030	25	8	0,30	80	○
85005025035	25	8	0,35	64	○
85005025040	25	8	0,40	64	○
85005025050	25	8	0,50	64	○
85005025060	25	8	0,60	64	○
85005025070	25	8	0,70	48	○
85005025080	25	8	0,80	48	○
85005025090	25	8	0,90	48	○
85005025100	25	8	1,00	48	○
85005025110	25	8	1,10	48	○



85.0050 | SC SLITTING SAW FINE PITCH DIN 1837 A
SIERRA DE DISCO SC PASO FINO DIN 1837 A

Cod.	d1	d2	b	Z	Stock	Cod.	d1	d2	b	Z	Stock
85005025120	25	8	1,20	48	○	85005030190	30	8	1,90	48	○
85005025130	25	8	1,30	40	○	85005030200	30	8	2,00	48	○
85005025140	25	8	1,40	40	○	85005030250	30	8	2,50	40	○
85005025150	25	8	1,50	40	○	85005030300	30	8	3,00	40	○
85005025160	25	8	1,60	40	○	85005030350	30	8	3,50	40	○
85005025170	25	8	1,70	40	○	85005030400	30	8	4,00	40	○
85005025180	25	8	1,80	40	○	85005030450	30	8	4,50	32	○
85005025190	25	8	1,90	40	○	85005030500	30	8	5,00	32	○
85005025200	25	8	2,00	40	○	85005030550	30	8	5,50	32	○
85005025250	25	8	2,50	40	○	85005030600	30	8	6,00	32	○
85005025300	25	8	3,00	32	○	85005040020	40	10	0,20	128	○
85005025350	25	8	3,50	32	○	85005040025	40	10	0,25	100	○
85005025400	25	8	4,00	32	○	85005040030	40	10	0,30	100	○
85005025450	25	8	4,50	32	○	85005040035	40	10	0,35	100	○
85005025500	25	8	5,00	32	○	85005040040	40	10	0,40	100	○
85005025550	25	8	5,50	24	○	85005040050	40	10	0,50	80	○
85005025600	25	8	6,00	24	○	85005040060	40	10	0,60	80	○
85005030020	30	8	0,20	100	○	85005040070	40	10	0,70	80	○
85005030025	30	8	0,25	100	○	85005040080	40	10	0,80	80	○
85005030030	30	8	0,30	80	○	85005040090	40	10	0,90	64	○
85005030035	30	8	0,35	80	○	85005040100	40	10	1,00	64	○
85005030040	30	8	0,40	80	○	85005040110	40	10	1,10	64	○
85005030050	30	8	0,50	80	○	85005040120	40	10	1,20	64	○
85005030060	30	8	0,60	64	○	85005040130	40	10	1,30	64	○
85005030070	30	8	0,70	64	○	85005040140	40	10	1,40	64	○
85005030080	30	8	0,80	64	○	85005040150	40	10	1,50	64	○
85005030090	30	8	0,90	64	○	85005040160	40	10	1,60	64	○
85005030100	30	8	1,00	64	○	85005040170	40	10	1,70	48	○
85005030110	30	8	1,10	64	○	85005040180	40	10	1,80	48	○
85005030120	30	8	1,20	48	○	85005040190	40	10	1,90	48	○
85005030130	30	8	1,30	48	○	85005040200	40	10	2,00	48	○
85005030140	30	8	1,40	48	○	85005040250	40	10	2,50	48	○
85005030150	30	8	1,50	48	○	85005040300	40	10	3,00	48	○
85005030160	30	8	1,60	48	○	85005040350	40	10	3,50	48	○
85005030170	30	8	1,70	48	○	85005040400	40	10	4,00	40	○
85005030180	30	8	1,80	48	○	85005040450	40	10	4,50	40	○



85.0050 | SC SLITTING SAW FINE PITCH DIN 1837 A

SIERRA DE DISCO SC PASO FINO DIN 1837 A

Cod.	d1	d2	b	Z	Stock	Cod.	d1	d2	b	Z	Stock
85005040500	40	10	5,00	40	○	85005063050	63	16	0,50	128	○
85005040550	40	10	5,50	40	○	85005063060	63	16	0,60	100	○
85005040600	40	10	6,00	40	○	85005063070	63	16	0,70	100	○
85005050020	50	13	0,20	128	○	85005063080	63	16	0,80	100	○
85005050025	50	13	0,25	128	○	85005063090	63	16	0,90	100	○
85005050030	50	13	0,30	128	○	85005063100	63	16	1,00	100	○
85005050035	50	13	0,35	100	○	85005063110	63	16	1,10	80	○
85005050040	50	13	0,40	100	○	85005063120	63	16	1,20	80	○
85005050050	50	13	0,50	100	○	85005063130	63	16	1,30	80	○
85005050060	50	13	0,60	100	○	85005063140	63	16	1,40	80	○
85005050070	50	13	0,70	80	○	85005063150	63	16	1,50	80	○
85005050080	50	13	0,80	80	○	85005063160	63	16	1,60	80	○
85005050090	50	13	0,90	80	○	85005063170	63	16	1,70	80	○
85005050100	50	13	1,00	80	○	85005063180	63	16	1,80	80	○
85005050110	50	13	1,10	80	○	85005063190	63	16	1,90	80	○
85005050120	50	13	1,20	80	○	85005063200	63	16	2,00	80	○
85005050130	50	13	1,30	64	○	85005063250	63	16	2,50	64	○
85005050140	50	13	1,40	64	○	85005063300	63	16	3,00	64	○
85005050150	50	13	1,50	64	○	85005063350	63	16	3,50	64	○
85005050160	50	13	1,60	64	○	85005063400	63	16	4,00	64	○
85005050170	50	13	1,70	64	○	85005063450	63	16	4,50	64	○
85005050180	50	13	1,80	64	○	85005063500	63	16	5,00	48	○
85005050190	50	13	1,90	64	○	85005063550	63	16	5,50	48	○
85005050200	50	13	2,00	64	○	85005063600	63	16	6,00	48	○
85005050250	50	13	2,50	64	○	85005080040	80	22	0,40	160	○
85005050300	50	13	3,00	48	○	85005080080	80	22	0,80	128	○
85005050350	50	13	3,50	48	○	85005080090	80	22	0,90	100	○
85005050400	50	13	4,00	48	○	85005080100	80	22	1,00	100	○
85005050450	50	13	4,50	48	○	85005080110	80	22	1,10	100	○
85005050500	50	13	5,00	48	○	85005080120	80	22	1,20	100	○
85005050550	50	13	5,50	40	○	85005080130	80	22	1,30	100	○
85005050600	50	13	6,00	40	○	85005080140	80	22	1,40	100	○
85005063020	63	16	0,20	160	○	85005080150	80	22	1,50	100	○
85005063025	63	16	0,25	160	○	85005080160	80	22	1,60	100	○
85005063030	63	16	0,30	128	○	85005080170	80	22	1,70	80	○
85005063035	63	16	0,35	128	○	85005080180	80	22	1,80	80	○
85005063040	63	16	0,40	128	○	85005080190	80	22	1,90	80	○



85.0050 | SC SLITTING SAW FINE PITCH DIN 1837 A
SIERRA DE DISCO SC PASO FINO DIN 1837 A

Cod.	d1	d2	b	Z	Stock	Cod.	d1	d2	b	Z	Stock
85005080200	80	22	2,00	80	○	850050125100	125	22	1,00	160	○
85005080250	80	22	2,50	80	○	850050125110	125	22	1,10	128	○
85005080300	80	22	3,00	80	○	850050125120	125	22	1,20	128	○
85005080350	80	22	3,50	64	○	850050125130	125	22	1,30	128	○
85005080400	80	22	4,00	64	○	850050125140	125	22	1,40	128	○
85005080450	80	22	4,50	64	○	850050125150	125	22	1,50	128	○
85005080500	80	22	5,00	64	○	850050125160	125	22	1,60	128	○
85005080550	80	22	5,50	64	○	850050125170	125	22	1,70	128	○
85005080600	80	22	6,00	64	○	850050125180	125	22	1,80	128	○
850050100050	100	22	0,50	160	○	850050125190	125	22	1,90	128	○
850050100060	100	22	0,60	160	○	850050125200	125	22	2,00	128	○
850050100070	100	22	0,70	128	○	850050125250	125	22	2,50	100	○
850050100080	100	22	0,80	128	○	850050125300	125	22	3,00	100	○
850050100090	100	22	0,90	128	○	850050125350	125	22	3,50	100	○
850050100100	100	22	1,00	128	○	850050125400	125	22	4,00	100	○
850050100110	100	22	1,10	128	○	850050125450	125	22	4,50	100	○
850050100120	100	22	1,20	128	○	850050125500	125	22	5,00	80	○
850050100130	100	22	1,30	100	○	850050125550	125	22	5,50	80	○
850050100140	100	22	1,40	100	○	850050125600	125	22	6,00	80	○
850050100150	100	22	1,50	100	○	850050160100	160	32	1,00	160	○
850050100160	100	22	1,60	100	○	850050160120	160	32	1,20	160	○
850050100170	100	22	1,70	100	○	850050160150	160	32	1,50	160	○
850050100180	100	22	1,80	100	○	850050160160	160	32	1,60	160	○
850050100190	100	22	1,90	100	○	850050160200	160	32	2,00	128	○
850050100200	100	22	2,00	100	○	850050160250	160	32	2,50	128	○
850050100250	100	22	2,50	100	○	850050160300	160	32	3,00	128	○
850050100300	100	22	3,00	80	○	850050160400	160	32	4,00	128	○
850050100350	100	22	3,50	80	○	850050200150	200	32	1,50	160	○
850050100400	100	22	4,00	80	○	850050200160	200	32	1,60	160	○
850050100450	100	22	4,50	80	○	850050200200	200	32	2,00	160	○
850050100500	100	22	5,00	80	○	850050200250	200	32	2,50	160	○
850050100550	100	22	5,50	64	○	850050200300	200	32	3,00	128	○
850050100600	100	22	6,00	64	○	850050200400	200	32	4,00	128	○
850050125060	125	22	0,60	160	○						
850050125070	125	22	0,70	160	○						
850050125080	125	22	0,80	160	○						
850050125090	125	22	0,90	160	○						

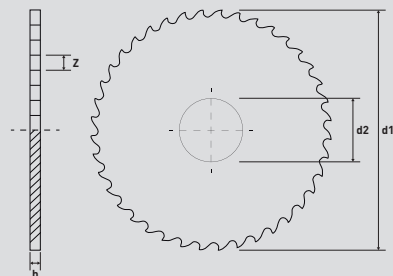
● Stock | Disponible ○ Under Request | Bajo Pedido

85.0051

SC SLITTING SAW COARSE PITCH DIN 1838 B

SIERRA DE DISCO SC PASO
GRUESO DIN 1838 B

Cutting
Conditions



Cod.	d1	d2	b	Z	Stock
85005115020	15	5	0,20	20	○
85005115025	15	5	0,25	20	○
85005115030	15	5	0,30	20	○
85005115035	15	5	0,35	20	○
85005115040	15	5	0,40	20	○
85005115050	15	5	0,50	20	○
85005115060	15	5	0,60	20	○
85005115070	15	5	0,70	20	○
85005115080	15	5	0,80	20	○
85005115090	15	5	0,90	20	○
85005115100	15	5	1,00	20	○
85005115110	15	5	1,10	20	○
85005115120	15	5	1,20	20	○
85005115130	15	5	1,30	20	○
85005115140	15	5	1,40	20	○
85005115150	15	5	1,50	20	○
85005115160	15	5	1,60	20	○
85005115170	15	5	1,70	20	○
85005115180	15	5	1,80	20	○
85005115190	15	5	1,90	20	○
85005115200	15	5	2,00	20	○
85005115250	15	5	2,50	20	○
85005115300	15	5	3,00	20	○
85005115350	15	5	3,50	20	○
85005115400	15	5	4,00	20	○
85005115450	15	5	4,50	20	○
85005115500	15	5	5,00	20	○

Cod.	d1	d2	b	Z	Stock
85005115550	15	5	5,50	20	○
85005115600	15	5	6,00	20	○
85005120020	20	5	0,20	20	○
85005120025	20	5	0,25	20	○
85005120030	20	5	0,30	20	○
85005120035	20	5	0,35	20	○
85005120040	20	5	0,40	20	○
85005120050	20	5	0,50	20	○
85005120060	20	5	0,60	20	○
85005120070	20	5	0,70	20	○
85005120080	20	5	0,80	20	○
85005120090	20	5	0,90	20	○
85005120100	20	5	1,00	20	○
85005120110	20	5	1,10	20	○
85005120120	20	5	1,20	20	○
85005120130	20	5	1,30	20	○
85005120140	20	5	1,40	20	○
85005120150	20	5	1,50	20	○
85005120160	20	5	1,60	20	○
85005120170	20	5	1,70	20	○
85005120180	20	5	1,80	20	○
85005120190	20	5	1,90	20	○
85005120200	20	5	2,00	20	○
85005120250	20	5	2,50	20	○
85005120300	20	5	3,00	20	○
85005120350	20	5	3,50	20	○
85005120400	20	5	4,00	20	○



85.0051 | SC SLITTING SAW COARSE PITCH DIN 1838 B
SIERRA DE DISCO SC PASO GRUESO DIN 1838 B

Cod.	d1	d2	b	Z	Stock	Cod.	d1	d2	b	Z	Stock
85005120450	20	5	4,50	20	○	85005130035	30	8	0,35	30	○
85005120500	20	5	5,00	20	○	85005130040	30	8	0,40	30	○
85005120550	20	5	5,50	20	○	85005130050	30	8	0,50	30	○
85005120600	20	5	6,00	20	○	85005130060	30	8	0,60	30	○
85005125020	25	8	0,20	20	○	85005130070	30	8	0,70	30	○
85005125025	25	8	0,25	20	○	85005130080	30	8	0,80	24	○
85005125030	25	8	0,30	20	○	85005130090	30	8	0,90	24	○
85005125035	25	8	0,35	20	○	85005130100	30	8	1,00	24	○
85005125040	25	8	0,40	20	○	85005130110	30	8	1,10	24	○
85005125050	25	8	0,50	20	○	85005130120	30	8	1,20	24	○
85005125060	25	8	0,60	20	○	85005130130	30	8	1,30	24	○
85005125070	25	8	0,70	20	○	85005130140	30	8	1,40	24	○
85005125080	25	8	0,80	20	○	85005130150	30	8	1,50	24	○
85005125090	25	8	0,90	20	○	85005130160	30	8	1,60	24	○
85005125100	25	8	1,00	20	○	85005130170	30	8	1,70	24	○
85005125110	25	8	1,10	20	○	85005130180	30	8	1,80	24	○
85005125120	25	8	1,20	20	○	85005130190	30	8	1,90	24	○
85005125130	25	8	1,30	20	○	85005130200	30	8	2,00	24	○
85005125140	25	8	1,40	20	○	85005130250	30	8	2,50	24	○
85005125150	25	8	1,50	20	○	85005130300	30	8	3,00	24	○
85005125160	25	8	1,60	20	○	85005130350	30	8	3,50	24	○
85005125170	25	8	1,70	20	○	85005130400	30	8	4,00	24	○
85005125180	25	8	1,80	20	○	85005130450	30	8	4,50	24	○
85005125190	25	8	1,90	20	○	85005130500	30	8	5,00	24	○
85005125200	25	8	2,00	20	○	85005130550	30	8	5,50	24	○
85005125250	25	8	2,50	20	○	85005130600	30	8	6,00	24	○
85005125300	25	8	3,00	20	○	85005140020	40	10	0,20	40	○
85005125350	25	8	3,50	20	○	85005140025	40	10	0,25	40	○
85005125400	25	8	4,00	20	○	85005140030	40	10	0,30	40	○
85005125450	25	8	4,50	20	○	85005140035	40	10	0,35	40	○
85005125500	25	8	5,00	20	○	85005140040	40	10	0,40	40	○
85005125550	25	8	5,50	20	○	85005140050	40	10	0,50	40	○
85005125600	25	8	6,00	20	○	85005140060	40	10	0,60	40	○
85005130020	30	8	0,20	30	○	85005140070	40	10	0,70	40	○
85005130025	30	8	0,25	30	○	85005140080	40	10	0,80	32	○
85005130030	30	8	0,30	30	○	85005140090	40	10	0,90	32	○



85.0051 | SC SLITTING SAW COARSE PITCH DIN 1838 B
SIERRA DE DISCO SC PASO GRUESO DIN 1838 B

Cod.	d1	d2	b	Z	Stock	Cod.	d1	d2	b	Z	Stock
85005140100	40	10	1,00	32	○	85005150170	50	13	1,70	32	○
85005140110	40	10	1,10	32	○	85005150180	50	13	1,80	32	○
85005140120	40	10	1,20	32	○	85005150190	50	13	1,90	32	○
85005140130	40	10	1,30	32	○	85005150200	50	13	2,00	32	○
85005140140	40	10	1,40	32	○	85005150250	50	13	2,50	32	○
85005140150	40	10	1,50	32	○	85005150300	50	13	3,00	24	○
85005140160	40	10	1,60	32	○	85005150350	50	13	3,50	24	○
85005140170	40	10	1,70	32	○	85005150400	50	13	4,00	24	○
85005140180	40	10	1,80	32	○	85005150450	50	13	4,50	24	○
85005140190	40	10	1,90	32	○	85005150500	50	13	5,00	24	○
85005140200	40	10	2,00	32	○	85005150550	50	13	5,50	20	○
85005140250	40	10	2,50	32	○	85005150600	50	13	6,00	20	○
85005140300	40	10	3,00	32	○	85005163030	63	16	0,30	64	○
85005140350	40	10	3,50	32	○	85005163035	63	16	0,35	64	○
85005140400	40	10	4,00	32	○	85005163040	63	16	0,40	64	○
85005140450	40	10	4,50	32	○	85005163050	63	16	0,50	64	○
85005140500	40	10	5,00	32	○	85005163060	63	16	0,60	48	○
85005140550	40	10	5,50	32	○	85005163070	63	16	0,70	48	○
85005140600	40	10	6,00	32	○	85005163080	63	16	0,80	48	○
85005150020	50	13	0,20	48	○	85005163090	63	16	0,90	48	○
85005150025	50	13	0,25	48	○	85005163100	63	16	1,00	48	○
85005150030	50	13	0,30	48	○	85005163110	63	16	1,10	40	○
85005150035	50	13	0,35	48	○	85005163120	63	16	1,20	40	○
85005150040	50	13	0,40	48	○	85005163130	63	16	1,30	40	○
85005150050	50	13	0,50	48	○	85005163140	63	16	1,40	40	○
85005150060	50	13	0,60	48	○	85005163150	63	16	1,50	40	○
85005150070	50	13	0,70	40	○	85005163160	63	16	1,60	40	○
85005150080	50	13	0,80	40	○	85005163170	63	16	1,70	40	○
85005150090	50	13	0,90	40	○	85005163180	63	16	1,80	40	○
85005150100	50	13	1,00	40	○	85005163190	63	16	1,90	40	○
85005150110	50	13	1,10	40	○	85005163200	63	16	2,00	40	○
85005150120	50	13	1,20	40	○	85005163250	63	16	2,50	32	○
85005150130	50	13	1,30	32	○	85005163300	63	16	3,00	32	○
85005150140	50	13	1,40	32	○	85005163350	63	16	3,50	32	○
85005150150	50	13	1,50	32	○	85005163400	63	16	4,00	32	○
85005150160	50	13	1,60	32	○	85005163450	63	16	4,50	32	○



85.0051 | SC SLITTING SAW COARSE PITCH DIN 1838 B
SIERRA DE DISCO SC PASO GRUESO DIN 1838 B

Cod.	d1	d2	b	Z	Stock	Cod.	d1	d2	b	Z	Stock
85005163500	63	16	5,00	24	○	850051100110	100	22	1,10	64	○
85005163550	63	16	5,50	24	○	850051100120	100	22	1,20	64	○
85005163600	63	16	6,00	24	○	850051100130	100	22	1,30	48	○
85005180030	80	22	0,30	64	○	850051100140	100	22	1,40	48	○
85005180035	80	22	0,35	64	○	850051100150	100	22	1,50	48	○
85005180040	80	22	0,40	64	○	850051100160	100	22	1,60	48	○
85005180050	80	22	0,50	64	○	850051100170	100	22	1,70	48	○
85005180060	80	22	0,60	64	○	850051100180	100	22	1,80	48	○
85005180070	80	22	0,70	64	○	850051100190	100	22	1,90	48	○
85005180080	80	22	0,80	64	○	850051100200	100	22	2,00	48	○
85005180090	80	22	0,90	48	○	850051100250	100	22	2,50	48	○
85005180100	80	22	1,00	48	○	850051100300	100	22	3,00	40	○
85005180110	80	22	1,10	48	○	850051100350	100	22	3,50	40	○
85005180120	80	22	1,20	48	○	850051100400	100	22	4,00	40	○
85005180130	80	22	1,30	48	○	850051100450	100	22	4,50	40	○
85005180140	80	22	1,40	48	○	850051100500	100	22	5,00	40	○
85005180150	80	22	1,50	48	○	850051100550	100	22	5,50	32	○
85005180160	80	22	1,60	48	○	850051100600	100	22	6,00	32	○
85005180170	80	22	1,70	40	○	850051125060	125	22	0,60	80	○
85005180180	80	22	1,80	40	○	850051125070	125	22	0,70	80	○
85005180190	80	22	1,90	40	○	850051125080	125	22	0,80	80	○
85005180200	80	22	2,00	40	○	850051125090	125	22	0,90	80	○
85005180250	80	22	2,50	40	○	850051125100	125	22	1,00	80	○
85005180300	80	22	3,00	40	○	850051125110	125	22	1,10	64	○
85005180350	80	22	3,50	32	○	850051125120	125	22	1,20	64	○
85005180400	80	22	4,00	32	○	850051125130	125	22	1,30	64	○
85005180450	80	22	4,50	32	○	850051125140	125	22	1,40	64	○
85005180500	80	22	5,00	32	○	850051125150	125	22	1,50	64	○
85005180550	80	22	5,50	32	○	850051125160	125	22	1,60	64	○
85005180600	80	22	6,00	32	○	850051125170	125	22	1,70	64	○
850051100050	100	22	0,50	80	○	850051125180	125	22	1,80	64	○
850051100060	100	22	0,60	80	○	850051125190	125	22	1,90	64	○
850051100070	100	22	0,70	80	○	850051125200	125	22	2,00	64	○
850051100080	100	22	0,80	64	○	850051125250	125	22	2,50	48	○
850051100090	100	22	0,90	64	○	850051125300	125	22	3,00	48	○
850051100100	100	22	1,00	64	○	850051125350	125	22	3,50	48	○



85.0051 | SC SLITTING SAW COARSE PITCH DIN 1838 B

SIERRA DE DISCO SC PASO GRUESO DIN 1838 B

Cod.	d1	d2	b	Z	Stock
850051125400	125	22	4,00	48	○
850051125450	125	22	4,50	40	○
850051125500	125	22	5,00	40	○
850051125550	125	22	5,50	40	○
850051125600	125	22	6,00	40	○
850051160100	160	32	1,00	80	○
850051160120	160	32	1,20	80	○
850051160150	160	32	1,50	80	○
850051160160	160	32	1,60	80	○
850051160200	160	32	2,00	64	○
850051160250	160	32	2,50	64	○
850051160300	160	32	3,00	64	○
850051160400	160	32	4,00	48	○
850051200150	200	32	1,50	80	○
850051200160	200	32	1,60	80	○
850051200200	200	32	2,00	80	○
850051200250	200	32	2,50	80	○
850051200300	200	32	3,00	64	○
850051200400	200	32	4,00	64	○

[illegible]

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

Helion / **CUT**.com

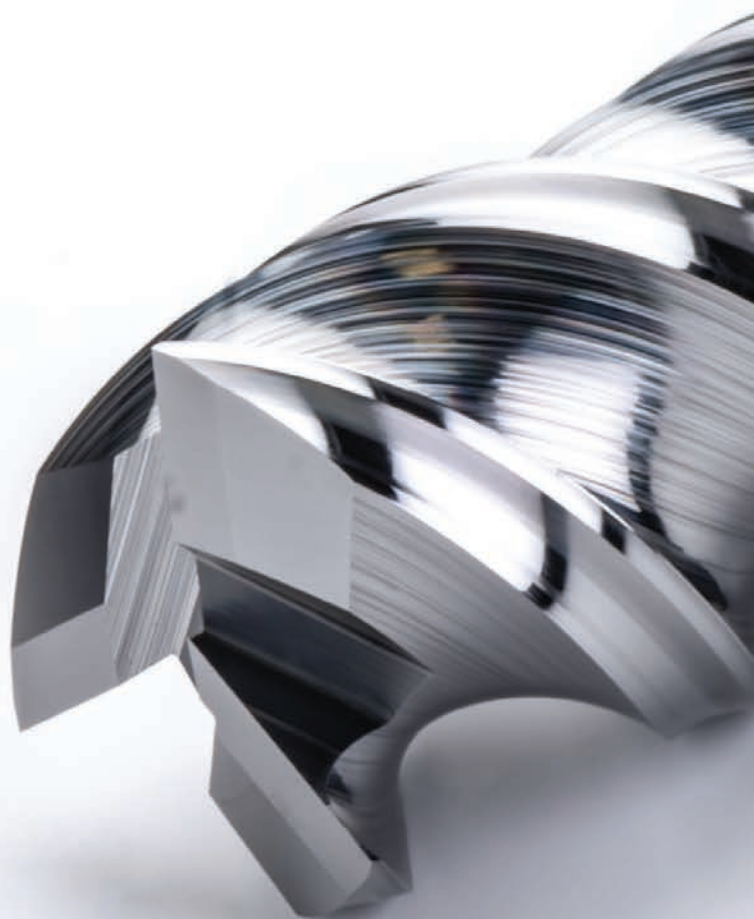


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for your machining processes online
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The stated cutting data are recommended values under optimal machine, cooling, tool and workholding conditions. The actual cutting data must be calculated and adjusted to the working capacity of each machine.





INCH LINE SERIES

Inch-size carbide end mills for imperial-standard machining applications.

- Designed for aluminum, steels up to 55 HRC and stainless steels.
- Available in 2 to 4 cutting-edge configurations depending on the application.
- High precision, stability and tool life in CNC machining.

Fresas de carburo en pulgadas para aplicaciones de mecanizado bajo estándar imperial.

- Diseñadas para aluminio, aceros de hasta 55 HRC y aceros inoxidable.
- Disponibles en configuraciones de 2 a 4 labios de corte según la aplicación.
- Alta precisión, estabilidad y vida útil en mecanizado CNC.

INCH LINE INDEX

Code Código		80.7421F	80.7202F	84.3202F	84.0303F	80.7402F	91.7404F
							
Page Página		172	173	174	175	176	177
Tool Material M. herramienta		SC	SC	SC	SC	SC	SC
ø Range Diámetro (mm)		1/16 - 5/8	1/16 - 5/8	1/4 - 5/8	1/8 - 5/8	1/16 - 5/8	1/4 - 5/8
Helix Angle Ángulo de Hélice		35°	35°	55°	50°	35°	43° - 45°
P Carbon Steel		●	●			●	●
H HRC 55 - 62		●	●			●	●
H HRC 70 - 75							
M Stainless		○	○			●	●
K Cast Iron		●	●			●	●
N Non Ferrous		○	○	★	●	○	○
G Graphite							
S Super Alloys		○	○				●
Full-Slot Ranurado			●	●	●	●	●
Copy Copiado		●					
Side Milling Fresado Lateral			●	●	●	●	●
Ramping Rampa			●	●	●	●	●
Interpolation Interpolación			●	●	●	○	●
Trochoidal Trocoidal						○	○
Eshop Tienda online							

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178							
SC							
1/4 - 5/8							
43° - 45°							
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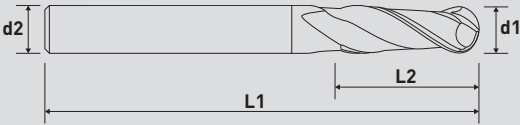
80.7421F

BALL NOSE
SC END MILL
Z2 · 35°

FRESA ESFÉRICA
SC Z2 · 35°



Cutting
Conditions



P

M

K

N

S

H

G

SC

RACER PLUS

55 HRC

HELIX 35°



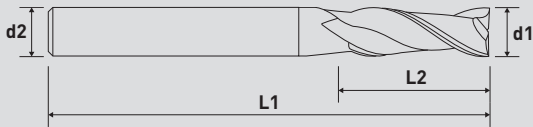








Cod.	d1	d2	L1	L2	Z	Stock
807421F116	1/16	1/8	1-1/2	3/16	2	○
807421F564	5/64	1/8	1-1/2	3/16	2	○
807421F332	3/32	1/8	1-1/2	9/32	2	○
807421F764	7/64	1/8	1-1/2	3/8	2	○
807421F18	1/8	1/8	1-1/2	3/8	2	○
807421F316	3/16	3/16	2	5/8	2	○
807421F14	1/4	1/4	2-1/2	3/4	2	○
807421F516	5/16	5/16	2-1/2	13/16	2	○
807421F38	3/8	3/8	2-1/2	1	2	○
807421F12	1/2	1/2	3	1	2	○
807421F58	5/8	5/8	3-1/2	1-1/4	2	○



80.7202F

SQUARE SC
END MILL
Z2 · 35°

FRESA PLANA
SC Z2 · 35°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
807202F116	1/16	1/8	1-1/2	3/16	2	○
807202F564	5/64	1/8	1-1/2	3/16	2	○
807202F332	3/32	1/8	1-1/2	9/32	2	○
807202F764	7/64	1/8	1-1/2	3/8	2	○
807202F18	1/8	1/8	1-1/2	3/8	2	○
807202F316	3/16	3/16	2	5/8	2	○
807202F14	1/4	1/4	2-1/2	3/4	2	○
807202F516	5/16	5/16	2-1/2	13/16	2	○
807202F38	3/8	3/8	2-1/2	1	2	○
807202F12	1/2	1/2	3	1	2	○
807202F58	5/8	5/8	3-1/2	1-1/4	2	○

Unit | Inch

Unidad | Pulgadas

● Stock | Disponible ○ Under Request | Bajo Pedido

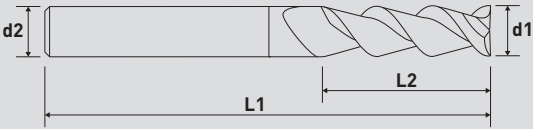
84.3202F

SQUARE SC
END MILL
Z2 · 55°

FRESA PLANA
SC Z2 · 55°



Cutting
Conditions



P

M

K

N

S

H

G

SC

SPEED

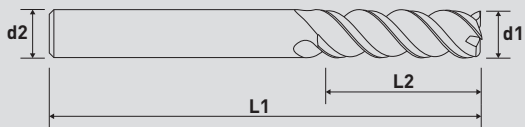
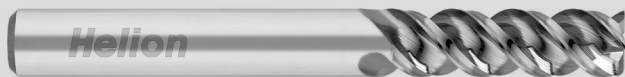
ZR

HELIX

55°

HA

Cod.	d1	d2	L1	L2	Z	Stock
843202F14	1/4	1/4	2	3/4	2	○
843202F516	5/16	5/16	2-1/2	5/8	2	○
843202F38	3/8	3/8	2-1/2	1-1/4	2	○
843202F12	1/2	1/2	3	1-1/4	2	○
843202F58	5/8	5/8	3-1/2	1-5/8	2	○



84.0303F

SQUARE SC
END MILL
Z3 · 50°

FRESA PLANA
SC Z3 · 50°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
840303F18	1/8	1/8	1-1/2	3/8	3	○
840303F316	3/16	3/16	2	9/16	3	○
840303F14	1/4	1/4	2	3/4	3	○
840303F516	5/16	5/16	2-1/2	5/8	3	○
840303F38	3/8	3/8	2-1/2	1-1/4	3	○
840303F12	1/2	1/2	3	1-1/4	3	○
840303F58	5/8	5/8	3-1/2	1-5/8	3	○

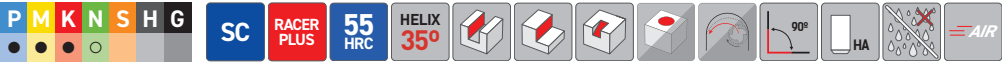
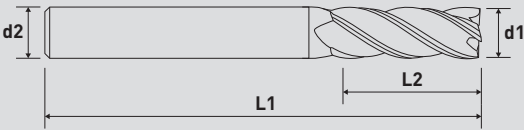
80.7402F

SQUARE SC END MILL Z4 · 35°

FRESA PLANA
SC Z4 · 35°



Cutting
Conditions



Cod.	d1	d2	L1	L2	Z	Stock
807402F116	1/16	1/8	1-1/2	3/16	4	○
807402F564	5/64	1/8	1-1/2	3/16	4	○
807402F332	3/32	1/8	1-1/2	9/32	4	○
807402F764	7/64	1/8	1-1/2	3/8	4	○
807402F18	1/8	1/8	1-1/2	3/8	4	○
807402F316	3/16	3/16	2	5/8	4	○
807402F14	1/4	1/4	2-1/2	3/4	4	○
807402F516	5/16	5/16	2-1/2	13/16	4	○
807402F38	3/8	3/8	2-1/2	1	4	○
807402F12	1/2	1/2	3	1	4	○
807402F58	5/8	5/8	3-1/2	1-1/4	4	○



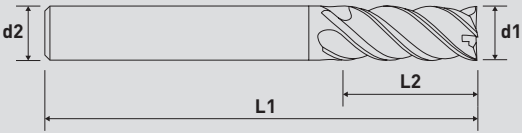
91.7404F

SQUARE SC END
MILL Z4 · 43°/45°

FRESA PLANA
SC Z4 · 43°/45°



Cutting
Conditions



P

M

K

N

S

H

G

SC

RACER PLUS

55 HRC

HELIX 43/45°

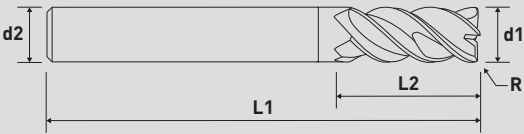
91.7414F

CORNER RADIUS
SC END MILL
Z4 · 43°/45°

FRESA TÓRICA
SC Z4 · 43°/45°



Cutting
Conditions



Cod.	d1	d2	R	L1	L2	Z	Stock
917414F141	1/4	1/4	0,015	2-1/2	9/16	4	○
917414F142	1/4	1/4	0,030	2-1/2	9/16	4	○
917414F143	1/4	1/4	0,060	2-1/2	9/16	4	○
917414F5161	5/16	5/16	0,015	2-1/2	11/16	4	○
917414F5162	5/16	5/16	0,030	2-1/2	11/16	4	○
917414F5163	5/16	5/16	0,060	2-1/2	11/16	4	○
917414F381	3/8	3/8	0,020	2-1/2	13/16	4	○
917414F382	3/8	3/8	0,030	2-1/2	13/16	4	○
917414F383	3/8	3/8	0,060	2-1/2	13/16	4	○
917414F384	3/8	3/8	0,090	2-1/2	13/16	4	○
917414F121	1/2	1/2	0,020	3	1	4	○
917414F122	1/2	1/2	0,030	3	1	4	○
917414F123	1/2	1/2	0,060	3	1	4	○
917414F124	1/2	1/2	0,090	3	1	4	○
917414F125	1/2	1/2	0,125	3	1	4	○
917414F581	5/8	5/8	0,030	3-1/2	1-1/4	4	○
917414F582	5/8	5/8	0,060	3-1/2	1-1/4	4	○
917414F583	5/8	5/8	0,090	3-1/2	1-1/4	4	○
917414F584	5/8	5/8	0,125	3-1/2	1-1/4	4	○

Necesitas una herramienta especial?

LA DISEÑAMOS Y **FABRICAMOS PARA TÍ**

Diseñamos y fabricamos herramientas especiales de metal duro integral desarrolladas específicamente para cada aplicación. Analizamos las condiciones reales de mecanizado para optimizar una herramienta existente o crear una solución completamente nueva cuando el proceso lo requiere.

Análisis de la aplicación · Diseño a medida · Fabricación de herramientas especiales · Geometría, sustrato y recubrimiento optimizados · Soporte técnico e implementación



¿Necesitas una herramienta especial para tu proyecto?
Contacta con nuestro equipo técnico



89.0404 - SQUARE END MILL HSS LONG Z6



89 SERIES

HSS M42 end mills for general machining and versatile milling operations.

- Suitable for machining a wide range of materials.
- Ideal for slotting, profiling and conventional milling operations.
- Stable cutting with an excellent balance of performance, durability and cost.

Fresas HSS M42 para mecanizado general y operaciones de fresado versátiles.

- Adecuadas para el mecanizado de distintos materiales
- Ideales para operaciones de ranurado, contorneado y fresado convencional.
- Corte estable con una excelente relación entre rendimiento, durabilidad y coste.

89 SERIES INDEX

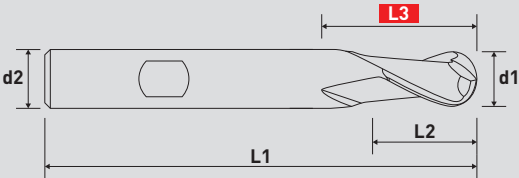
Code Código	89.0221	89.0223	89.0202	89.0204	89.0302	89.0402
						
Page Página	184	185	186	187	188	189
Tool Material M. herramienta	HSS	HSS	HSS	HSS	HSS	HSS
Ø Range Diámetro (mm)	2 - 20	3 - 20	3 - 20	3 - 20	2,8 - 20	2 - 32
Helix Angle Ángulo de Hélice	30°	30°	30°	30°	30°	30°
P Carbon Steel	●	●	●	●	●	●
H HRC 55 - 62			○	○		
H HRC 70 - 75						
M Stainless	○	○	○	○	○	○
K Cast Iron	●	●	●	●	●	●
N Non Ferrous	●	●	●	●	●	●
G Graphite						
S Super Alloys						
Full-Slot Ranurado			●	○	●	●
Copy Copiado		●	●			
Side Milling Fresado Lateral			●	●	○	●
Ramping Rampa					○	
Interpolation Interpolación						
Trochoidal Trocooidal						
Eshop Tienda online						

89.0404	89.0602	89.0604					
							
190	191	192					
HSS	HSS	HSS					
3 - 40	6 - 30	10 - 20					
30°	30°	30°					
●	●	●					
○	○	○					
●	●	●					
●	●	●					
○	●	●					
●	●	●					
							

89.0221

BALL NOSE
HSS END
MILL Z2 · 30°

FRESA ESFÉRICA
HSS Z2 · 30°



P M K N S H G

M42

BRIGHT

DIN 327

HELIX 30°

Cod.	d1	d2	R	L1	L2	L3	Z	Stock
8902210200	2	6	1	48	4	8,5	2	●
8902210300	3	6	1,5	49	5	9,5	2	●
8902210400	4	6	2	51	7	11,5	2	●
8902210500	5	6	2,5	52	8	12,5	2	●
8902210600	6	6	3	52	8	16	2	●
8902210700	7	10	3,5	60	10	15,9	2	●
8902210800	8	10	4	61	11	16,9	2	●
8902210900	9	10	4,5	61	11	16,9	2	●
8902211000	10	10	5	63	13	23	2	●
8902211200	12	12	6	73	16	28	2	●
8902211300	13	12	6,5	73	16	28	2	●
8902211400	14	12	7	73	16	28	2	●
8902211500	15	12	7,5	73	16	28	2	●
8902211600	16	16	8	79	19	31	2	●
8902211800	18	16	9	79	19	31	2	●
8902211900	19	16	9,5	79	19	31	2	●
8902212000	20	20	10	88	22	38	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

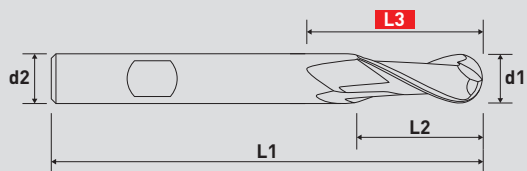
89.0223

**BALL NOSE
HSS END MILL
LONG Z2 · 30°**

FRESA ESFÉRICA
HSS LARGA Z2 · 30°



Cutting
Conditions



Cod.	d1	d2	R	L1	L2	L3	Z	Stock
8902230300	3	6	1,5	56	8	14,5	2	●
8902230400	4	6	2	63	11	19,5	2	●
8902230500	5	6	2,5	68	13	22,5	2	●
8902230600	6	6	3	68	13	32	2	●
8902230700	7	10	3,5	80	16	28,9	2	●
8902230800	8	10	4	88	19	33,9	2	●
8902231000	10	10	5	95	22	55	2	●
8902231200	12	12	6	110	26	65	2	●
8902231400	14	12	7	110	26	65	2	●
8902231500	15	12	7,5	110	26	65	2	●
8902231600	16	16	8	123	32	75	2	●
8902231800	18	16	9	123	32	75	2	●
8902232000	20	20	10	141	38	91	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

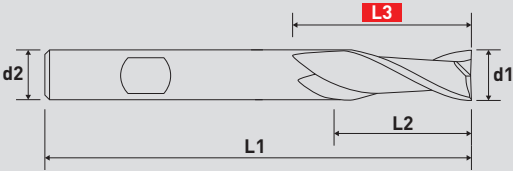
89.0202

SQUARE
HSS END
MILL Z2 · 30°

FRESA PLANA
HSS Z2 · 30°



Cutting
Conditions



Cod.	d1	d2	L1	L2	L3	Z	Stock
8902020300	3	6	52	8	12,5	2	●
8902020350	3,5	6	54	10	14,5	2	●
8902020400	4	6	55	11	15,5	2	●
8902020450	4,5	6	55	11	15,5	2	●
8902020500	5	6	57	13	17,5	2	●
8902020550	5,5	6	57	13	17,5	2	●
8902020600	6	6	57	13	21	2	●
8902020700	7	10	66	16	21	2	●
8902020800	8	10	69	19	24,9	2	●
8902021000	10	10	72	22	32	2	●
8902021100	11	12	79	22	28,9	2	●
8902021200	12	12	83	26	38	2	●
8902021300	13	12	83	26	38	2	●
8902021400	14	12	83	26	38	2	●
8902021500	15	12	83	26	38	2	●
8902021600	16	16	92	32	44	2	●
8902021800	18	16	92	32	44	2	●
8902022000	20	20	104	38	54	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

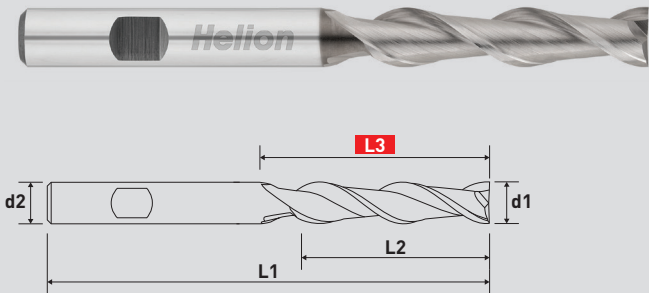
89.0204

SQUARE
HSS END MILL
LONG Z2 · 30°

FRESA PLANA HSS
LARGA Z2 · 30°



Cutting
Conditions



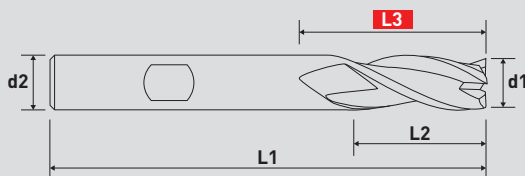
Cod.	d1	d2	L1	L2	L3	Z	Stock
8902040300	3	6	56	12	16,5	2	●
8902040400	4	6	63	19	23,5	2	●
8902040500	5	6	68	24	28,5	2	●
8902040600	6	6	68	24	32	2	●
8902040800	8	10	88	38	44,5	2	●
8902041000	10	10	95	45	55	2	●
8902041200	12	12	110	53	65	2	●
8902041400	14	12	110	53	65	2	●
8902041600	16	16	123	63	75	2	●
8902041800	18	16	123	63	75	2	●
8902042000	20	20	141	75	91	2	●

● Stock | Disponible ○ Under Request | Bajo Pedido

89.0302

**SQUARE
END MILL
HSS Z3 · 30°**

FRESA PLANA
HSS Z3 · 30°



Cod.	d1	Tol. d1	d2	L1	L2	L3	Z	Stock
8903020280	2,8	h10	6	52	8	12,5	3	●
8903020300	3	e8	6	52	8	12,5	3	●
8903020380	3,8	h10	6	55	11	15,5	3	●
8903020400	4	e8	6	55	11	15,5	3	●
8903020480	4,8	h10	6	57	13	17,5	3	●
8903020500	5	e8	6	57	13	17,5	3	●
8903020575	5,75	h10	6	57	13	17,5	3	●
8903020600	6	e8	6	57	13	21	3	●
8903020675	6,75	h10	10	66	16	21,9	3	●
8903020700	7	e8	10	66	16	21,9	3	●
8903020775	7,75	h10	10	69	19	24,9	3	●
8903020800	8	e8	10	69	19	24,9	3	●
8903020900	9	h10	10	69	19	24,9	3	●
8903020970	9,7	h10	10	72	22	27,9	3	●
8903021000	10	e8	10	72	22	32	3	●
8903021100	11	h10	12	79	22	28,9	3	●
8903021170	11,7	h10	12	79	22	28,9	3	●
8903021200	12	e8	12	83	26	38	3	●
8903021370	13,7	h10	12	83	26	38	3	●
8903021400	14	e8	12	83	26	38	3	●
8903021500	15	h10	12	83	26	38	3	●
8903021570	15,7	h10	16	92	32	39,5	3	●
8903021600	16	e8	16	92	32	44	3	●
8903021800	18	e8	16	92	32	44	3	●
8903022000	20	e8	20	104	38	54	3	●

● Stock | Disponible ○ Under Request | Bajo Pedido

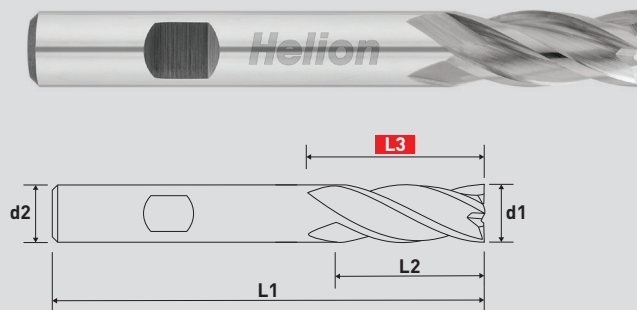
89.0402

**SQUARE HSS
END MILL
Z4 - Z6 · 30°**

FRESA PLANA
HSS Z4 - Z6 · 30°



Cutting
Conditions



Cod.	d1	d2	L1	L2	L3	Z	Stock
8904020200	2	6	51	7	11,5	4	●
8904020250	2,5	6	52	8	12,5	4	●
8904020300	3	6	52	8	12,5	4	●
8904020350	3,5	6	54	10	14,5	4	●
8904020400	4	6	55	11	15,5	4	●
8904020450	4,5	6	55	11	15,5	4	●
8904020500	5	6	57	13	17,5	4	●
8904020550	5,5	6	57	13	17,5	4	●
8904020600	6	6	57	13	21	4	●
8904020650	6,5	10	66	16	21,9	4	●
8904020700	7	10	66	16	21,9	4	●
8904020750	7,5	10	66	16	21,9	4	●
8904020800	8	10	69	19	24,9	4	●
8904020850	8,5	10	69	19	24,9	4	●
8904020900	9	10	69	19	24,9	4	●
8904020950	9,5	10	69	19	24,9	4	●
8904021000	10	10	72	22	32	4	●
8904021100	11	12	79	22	28,9	4	●
8904021200	12	12	83	26	38	4	●
8904021300	13	12	83	26	38	4	●
8904021400	14	12	83	26	38	4	●
8904021500	15	12	83	26	38	4	●
8904021600	16	16	92	32	44	4	●
8904021800	18	16	92	32	44	4	●
8904022000	20	20	104	38	54	4	●
8904022200	22	20	104	38	54	6	●

Cod.	d1	d2	L1	L2	L3	Z	Stock
8904022400	24	25	121	45	56,5	6	●
8904022500	25	25	121	45	65	6	●
8904022600	26	25	121	45	65	6	●
8904022800	28	25	121	45	65	6	●
8904023000	30	25	121	45	65	6	●
8904023200	32	32	133	53	73	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido

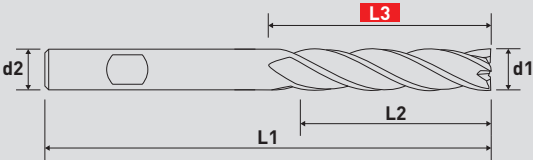
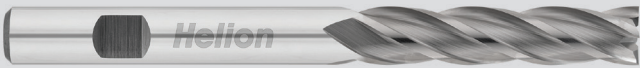
89.0404

SQUARE HSS
END MILL LONG
Z4 - Z6 · 30°

FRESA PLANA HSS
LARGA Z4 - Z6 · 30°



Cutting
Conditions



Cod.	d1	d2	L1	L2	L3	Z	Stock
8904040300	3	6	56	12	16,5	4	●
8904040400	4	6	63	19	23,5	4	●
8904040500	5	6	68	24	28,5	4	●
8904040600	6	6	68	24	32	4	●
8904040700	7	10	80	30	35,9	4	●
8904040800	8	10	88	38	44,5	4	●
8904040900	9	10	88	38	44,5	4	●
8904041000	10	10	95	45	55	4	●
8904041100	11	12	102	45	52,5	4	●
8904041200	12	12	110	53	65	4	●
8904041400	14	12	110	53	65	4	●
8904041500	15	12	110	53	65	4	●
8904041600	16	16	123	63	75	4	●
8904041800	18	16	123	63	75	4	●
8904042000	20	20	141	75	91	4	●
8904042500	25	25	166	90	110	6	●
8904042800	28	25	166	90	110	6	●
8904043000	30	25	166	90	110	6	●
8904043200	32	32	186	106	126	6	●
8904043600	36	32	186	106	126	6	●
8904044000	40	40	217	125	147	6	●

● Stock | Disponible ○ Under Request | Bajo Pedido

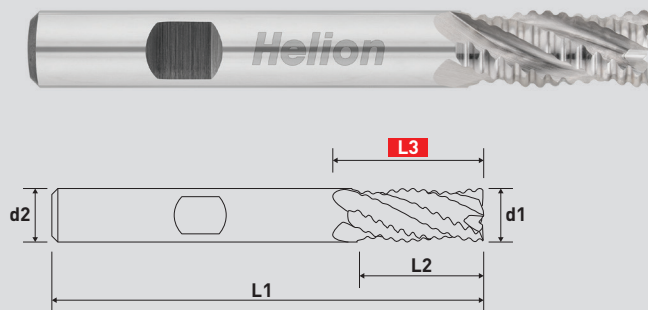
89.0602

ROUGHING HSS END MILL Z4 · 30°

FRESA HSS PARA
DESBASTE Z4 · 30°



Cutting
Conditions

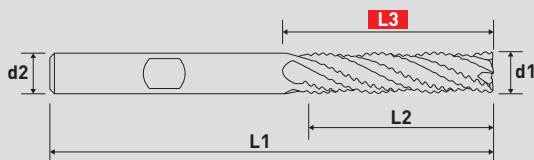


Cod.	d1	d2	L1	L2	L3	Z	Stock
8906020600	6	6	57	13	21	4	●
8906020700	7	10	66	16	21,9	4	●
8906020800	8	10	69	19	24,9	4	●
8906020900	9	10	69	19	24,9	4	●
8906021000	10	10	72	22	32	4	●
8906021100	11	12	79	22	28,9	4	●
8906021200	12	12	83	26	38	4	●
8906021400	14	12	83	26	38	4	●
8906021500	15	12	83	26	38	4	●
8906021600	16	16	92	32	44	4	●
8906021800	18	16	92	32	44	4	●
8906022000	20	20	104	38	54	4	●
8906022200	22	20	104	38	54	4	●
8906022400	24	25	121	45	56,5	4	●
8906022500	25	25	121	45	65	4	●
8906023000	30	25	121	45	65	4	●

● Stock | Disponible ○ Under Request | Bajo Pedido

ROUGHING HSS END MILL LONG Z4 · 30°

Cutting Conditions



Cod.	d1	d2	L1	L2	L3	Z	Stock
8906041000	10	10	95	45	55	4	●
8906041200	12	12	110	53	65	4	●
8906041400	14	12	110	53	65	4	●
8906041600	16	16	123	63	75	4	●
8906041800	18	18	123	63	75	4	●
8906042000	20	20	141	75	91	4	●

192 MILL LINE

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