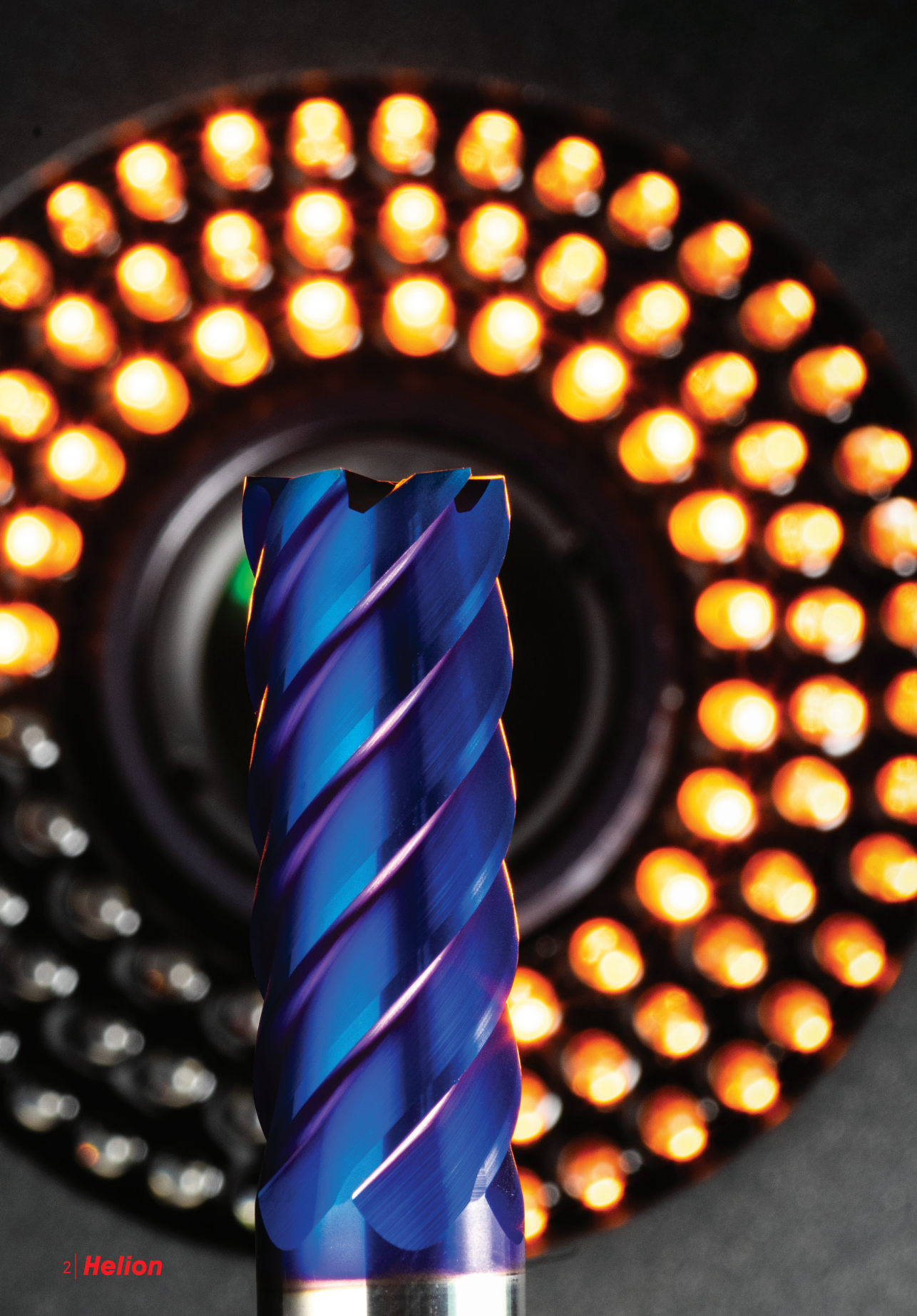




90 SERIES

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



Let's move forward together.

70 Years of engineering excellence

In the world of high-performance machining, trust isn't requested-it is manufactured, micron by micron. From our headquarters in Manresa (Barcelona), Helion Tools has evolved from a family-owned workshop into a global benchmark for the design and production of solid carbide cutting tools.

Our 70-year legacy is more than just history; it is the foundation of our technical expertise. We understand that in mission-critical sectors such as automotive, aerospace, and die & mold making, variability is the greatest threat to profitability.

Uncompromising stability

We don't just sell tools; we provide process security. Our production is governed by a strict total control discipline:

- **Source integrity:** We oversee every stage, from raw material selection to the final specialized coating.
- **Advanced metrology:** We invest in state-of-the-art optical and laser inspection to ensure tolerances that the eye cannot see, but the spindle certainly feels.
- **Batch-to-batch consistency:** We guarantee that the tool you use today will deliver the exact same performance as the one you order tomorrow.

70 Años de ingeniería y precisión

En el mecanizado de alto rendimiento, la confianza no se pide; se fabrica micra a micra. Desde nuestra sede central en Manresa (Barcelona), hemos evolucionado de ser un taller familiar a convertirnos en un referente industrial en el diseño y producción de herramientas de metal duro integral.

Nuestra trayectoria de más de siete décadas no es solo historia; es la base de nuestro know-how. Entendemos que en sectores críticos, como la automoción, la aeronáutica o la matricería, la variabilidad es el mayor enemigo de la rentabilidad.

Compromiso con la estabilidad

No vendemos herramientas genéricas; proveemos seguridad de proceso. Nuestra producción se rige por una disciplina de control total:

- **Siempre desde el origen:** Supervisamos desde la selección de la materia prima hasta el recubrimiento final.
- **Metrología avanzada:** Invertimos en inspección óptica y láser para asegurar tolerancias que el ojo no ve, pero que el husillo siente.
- **Garantía lote a lote:** Nos aseguramos de que la herramienta que usas hoy ofrezca el mismo rendimiento exacto que la que pedirás mañana.



Cutting-edge technology in the heart of Barcelona

Our Barcelona facility is the nerve center where engineering concepts become reality. It is more than just a factory; it is a high-precision ecosystem designed to ensure that every Helion tool meets the most stringent global standards.

Our facility features state-of-the-art technology where automation and human expertise work in perfect synergy to provide a flexible, high-volume production capacity.

Infrastructure designed for excellence

To lead the solid carbide industry, constant technological investment is mandatory.

Our facilities integrate:

Next-generation CNC machining: High-end grinding centers capable of producing complex geometries with superior surface finishes.

Advanced metrology lab: Climate-controlled environments equipped with ultra-precision optical and laser measurement systems, validating every micron before shipment.

Smart coating management: We utilize the most advanced treatment processes to ensure optimal hardness and thermal resistance for every specific application.

Sustainability and operational efficiency: Our plant operates under strict efficiency criteria to minimize environmental impact and maximize resource utilization. From carbide scrap recycling to energy optimization, our facilities reflect our commitment to a responsible and future-proof industry.

Helion Tools: Where European engineering meets absolute precision.



Tecnología de vanguardia en el corazón de Barcelona

Nuestra planta en Barcelona es el centro neurálgico donde la ingeniería se hace realidad. No es solo una fábrica; es un ecosistema de alta precisión diseñado para garantizar que cada herramienta cumpla con los estándares más exigentes del mercado global.

Contamos con instalaciones de última generación donde la automatización y el talento humano trabajan en sintonía para ofrecer una capacidad productiva flexible y de alto volumen.

Infraestructura diseñada para la excelencia

Para liderar la industria del metal duro, la inversión tecnológica constante es obligatoria.

Nuestras instalaciones integran:

Mecanizado CNC de vanguardia: Centros de rectificado de alta gama para geometrías complejas con acabados superficiales inmejorables.

Metrología avanzada: Espacios especialmente climatizados con sistemas de medición óptica y láser, validando cada micra desde el seteo de máquina hasta el envío.

Gestión de recubrimientos: Utilizamos procesos de tratamiento avanzados para asegurar la dureza y resistencia térmica óptima en cada aplicación específica.

Sostenibilidad y eficiencia operativa: Nuestra planta opera bajo criterios de eficiencia para minimizar el impacto ambiental y maximizar recursos. Desde el reciclaje de metal duro hasta la optimización energética, nuestras instalaciones reflejan el compromiso con una industria responsable y de futuro.

Helion Tools: Donde la tecnología europea encuentra la precisión absoluta.

90 SERIES INDEX

Code Código	90.6221	90.6225	90.6226	90.7220	90.6702	90.6202
						
Page Página	10	11	12	13	14	15
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
							
17	18	19	20	21	22	23	25
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

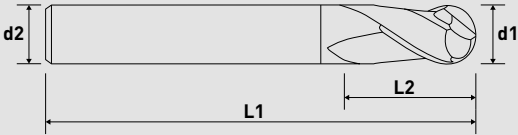
Code Código		90.6218	90.6811	90.6815	90.4771	90.5572	90.5770
							
Page Página		26	27	29	30	31	32
Tool Material M. herramienta		SC	SC	SC	SC	SC	SC
ø Range Diámetro (mm)		6 - 20	0,5 - 6	1 - 6	6 - 16	6 - 20	6 - 16
Helix Angle Ángulo de Hélice		30°	30°	30°	43° - 45°	40°	40°
P Carbon Steel		●	●	●	●	●	●
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 Trocoidal					○	★	★
Eshop Tienda online							

90.6572	90.6705	90.6601					
							
33	34	35					
SC	SC	SC					
3 - 20	6 - 16	3 - 25					
40° - 42°	42° - 44°	25°					
●	●	●					
●	●	●					
●	●	●					
●	●	●					
○	○	○					
		●					
●	●	●					
		○					
●	●	○					
○	○	○					
							

90.6221

BALL NOSE
SC END MILL
Z2 · 35°

FRESA ESFÉRICA
SC Z2 · 35°



P

M

K

N

S

H

G

SC

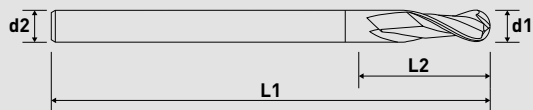
VOLCANO

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

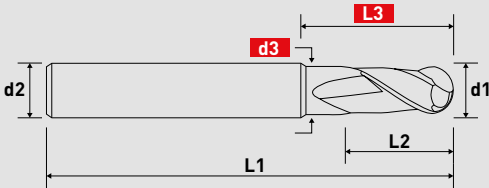
90.6226

BALL NOSE SC
END MILL EXTRA
LONG Z2 · 35°

FRESA ESFÉRICA SC
EXTRA LARGA Z2 · 35°



Cutting
Conditions



P

M

K

N

S

H

G

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



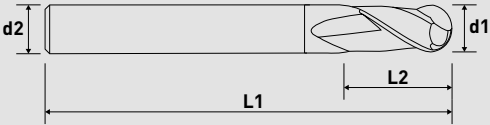
90.7220

BALL NOSE
SC END MILL
LONG Z2 · 35°

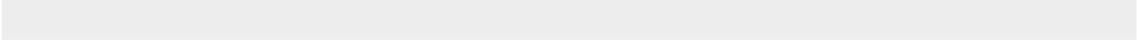
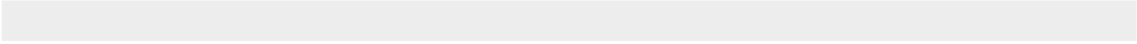
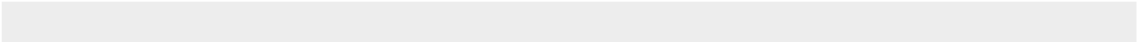
FRESA ESFÉRICA
SC LARGA Z2 · 35°



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	●

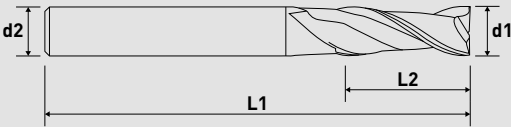


● Stock | Disponible ○ Under Request | Bajo Pedido

90.6702

SQUARE SC
END MILL
Z2 · 30°

FRESA PLANA
SC Z2 · 30°



P

M

K

N

S

H

G

SC

RACER GOLD

55 HRC

HELIX 30°

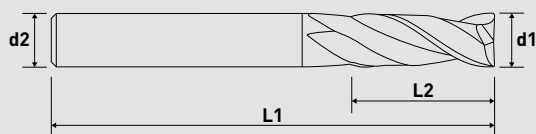
90°

HA

AIR

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



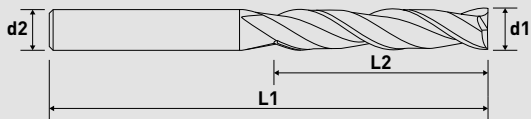
Cod.	d1	d2	L1	L2	Z	Stock
9062020010	0,1	4	38	0,2	2	●
9062020020	0,2	4	38	0,4	2	●
9062020030	0,3	4	38	0,6	2	●
9062020040	0,4	4	38	0,8	2	●
9062020050	0,5	4	38	1	2	●
9062020060	0,6	4	38	1,2	2	●
9062020070	0,7	4	38	1,4	2	●
9062020080	0,8	4	38	1,6	2	●
9062020090	0,9	4	38	2	2	●
9062020100	1	4	40	2,5	2	●
9062020150	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	●

● Stock | Disponible ○ Under Request | Bajo Pedido

90.6202 | SQUARE SC END MILL LONG Z2 · 35°
Fresa plana de Seto A20A 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

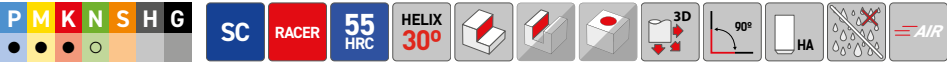
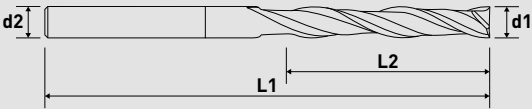
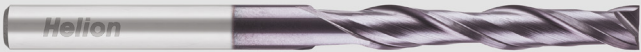
90.6205

SQUARE SC
END MILL EXTRA
LONG Z2 · 30°

FRESA PLANA SC
EXTRA LARGA Z2 · 30°

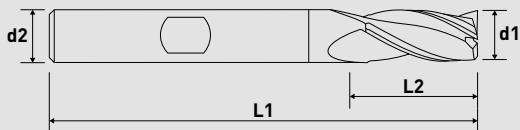


Cutting
Conditions



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°**

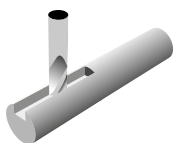
FRESA PLANA
SC Z3 · 30°



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	○



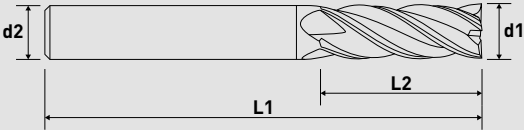
Special for Keyways
Especial para Chaveteros

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

90.6704

SQUARE SC
END MILL
Z4 · 30°

FRESA PLANA
SC Z4 · 30°



P

M

K

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SC

RACER GOLD

55 HRC

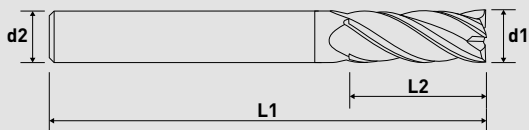
HELIX 30°

HA

AIR

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

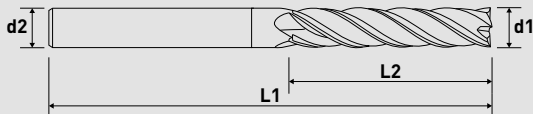


Cod.	d1	d2	L1	L2	Z	Stock
9064020100	1	4	40	2,5	4	●
9064020150	1,5	4	40	4	4	●
9064020200	2	4	40	6	4	●
9064020303	3	3	45	8	4	●
9064020304	3	4	45	8	4	●
9064020404	4	4	45	11	4	●
9064020406	4	6	45	11	4	●
9064020500	5	6	50	13	4	●
9064020600	6	6	60	15	4	●
9064020700	7	8	60	16	4	●
9064020800	8	8	70	20	4	●
9064020900	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

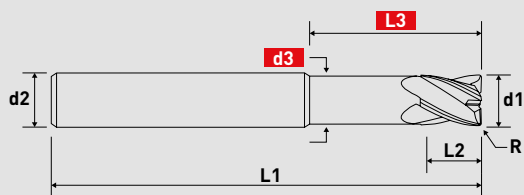
**SQUARE SC
END MILL
LONG Z4 · 35°**

Cutting Conditions



Cod.	d1	d2	L1	L2	Z	Stock
9064040400	4	4	70	20	4	●
9064040500	5	6	75	25	4	●
9064040600	6	6	80	30	4	●
9064040800	8	8	100	45	4	●
9064041000	10	10	100	50	4	●
9064041200	12	12	100	50	4	●
9064041600	16	16	130	70	4	●
9064042000	20	20	200	100	4	●

22 MILL LINE



90.6412

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

FRESA TÓRICA
SC Z4 · 30°



Cutting
Conditions



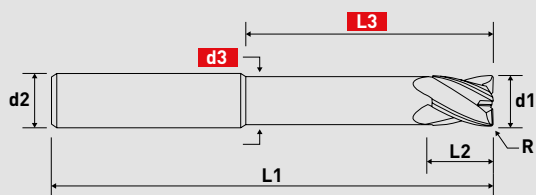
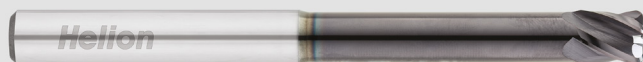
Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9064120201	2	6	1,8	0,1	57	4	21	4	○
9064120202	2	6	1,8	0,2	57	4	21	4	●
9064120203	2	6	1,8	0,3	57	4	21	4	○
9064120205	2	6	1,8	0,5	57	4	21	4	○
9064120205	2	6	1,8	0,5	57	4	21	4	●
9064120301	3	6	2,8	0,1	57	6	21	4	○
9064120302	3	6	2,8	0,2	57	6	21	4	○
9064120303	3	6	2,8	0,3	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	○

● Stock | Disponible ○ Under Request | Bajo Pedido

90.6202 | CORNER RADIUS SCEND MILL Z4 · 30°
Fresa plana de 4 filos 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

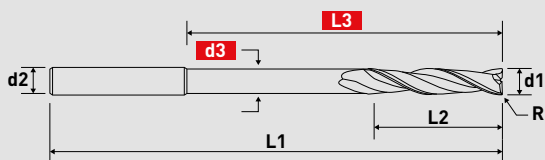


Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9064130602	6	6	5,5	0,2	80	7	44	4	●
9064130605	6	6	5,5	0,5	80	7	44	4	●
9064130610	6	6	5,5	1	80	7	44	4	●
9064130615	6	6	5,5	1,5	80	7	44	4	●
9064130620	6	6	5,5	2	80	7	44	4	●
9064130805	8	8	7,4	0,5	100	9	54	4	●
9064130810	8	8	7,4	1	100	9	54	4	●
9064130815	8	8	7,4	1,5	100	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	●

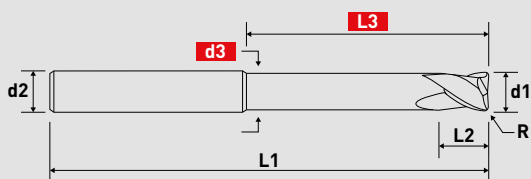
● Stock | Disponible ○ Under Request | Bajo Pedido

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

Cutting Conditions



26 MILL LINE



90.6811

CORNER RADIUS SC END MILL LONG NECK Z2 · 30°

FRESA TÓRICA SC DE
CUELLO LARGO Z2 · 30°



Cutting
Conditions

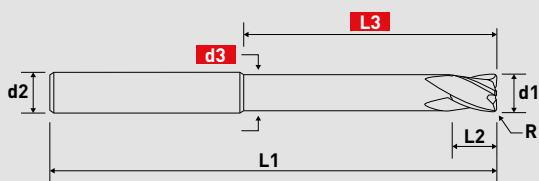


Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9068110051	0,5	4	0,45	0,05	45	0,6	1,5	2	●
9068110052	0,5	4	0,45	0,05	45	0,6	2	2	●
9068110061	0,6	4	0,55	0,05	45	0,7	3	2	●
9068110062	0,6	4	0,55	0,05	45	0,7	6	2	●
9068110081	0,8	4	0,75	0,1	45	0,9	4	2	●
9068110082	0,8	4	0,75	0,1	45	0,9	8	2	●
9068110101	1	4	0,95	0,1	45	1,2	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	●

● Stock | Disponible ○ Under Request | Bajo Pedido

FRESA TORNADA SÉDE CUEZCO BARGO Z2 · 30°

28 MILL LINE



90.6815

CORNER RADIUS SC END MILL LONG NECK Z4 · 30°

FRESA TÓRICA SC DE
CUELLO LARGO Z4 · 30°



Cutting
Conditions



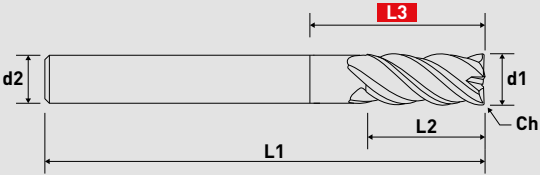
Cod.	d1	d2	d3	R	L1	L2	L3	Z	Stock
9068150101	1	4	0,95	0,1	45	1,2	4	4	●
9068150102	1	4	0,95	0,1	45	1,2	8	4	●
9068150103	1	4	0,95	0,1	50	1,2	10	4	●
9068150104	1	4	0,95	0,1	50	1,2	12	4	●
9068150105	1	4	0,95	0,1	50	1,2	16	4	●
9068150106	1	4	0,95	0,1	50	1,2	20	4	●
9068150121	1,2	4	1,15	0,1	45	1,4	6	4	●
9068150122	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
● Stock | Disponible ○ Under Request | Bajo Pedido

90.4771

SQUARE SC
END MILL
Z4 · 43°/45°

FRESA PLANA
SC Z4 · 43°/45°



P M K N S H G

SC

RACER

55 HRC

HELIX 43/45°

45°

3D

HA

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

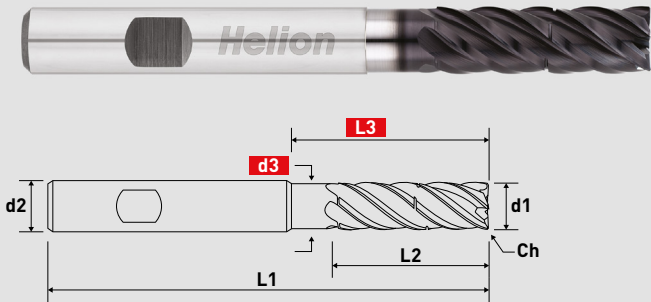
90.5572

TROCHOIDAL
SC END MILL
Z5 · 40°

FRESA SC PARA
TROCOIDAL 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

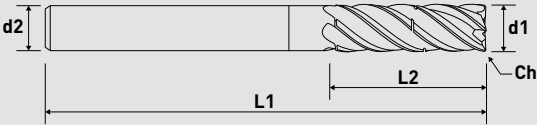
90.5770

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

AIR

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	●

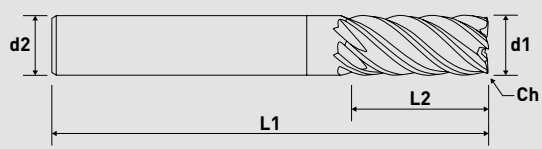
● Stock | Disponible ○ Under Request | Bajo Pedido



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

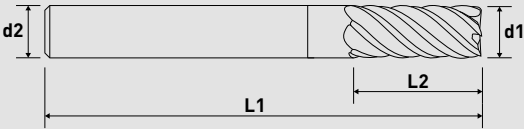
90.6705

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

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

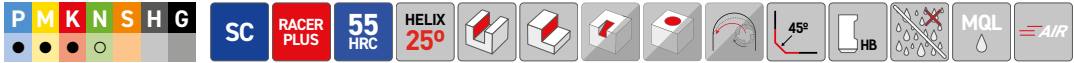
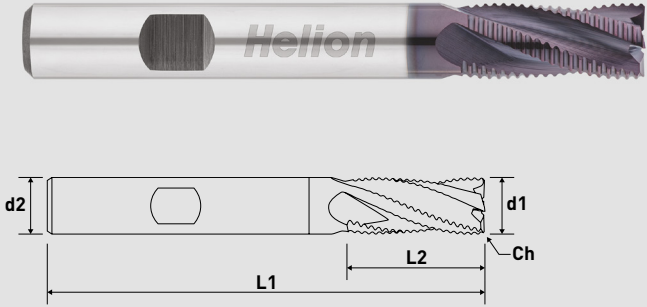
90.6601

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



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