

The Helion logo consists of a red rounded rectangle containing the word "Helion" in a white, bold, sans-serif font. The text is flanked by two white, wavy, horizontal lines that resemble stylized waves or a signal waveform.

**Helion**



## Exotic materials high alloyed steels

- Latest coating technology
- Improved geometry
- Heat resistance configuration

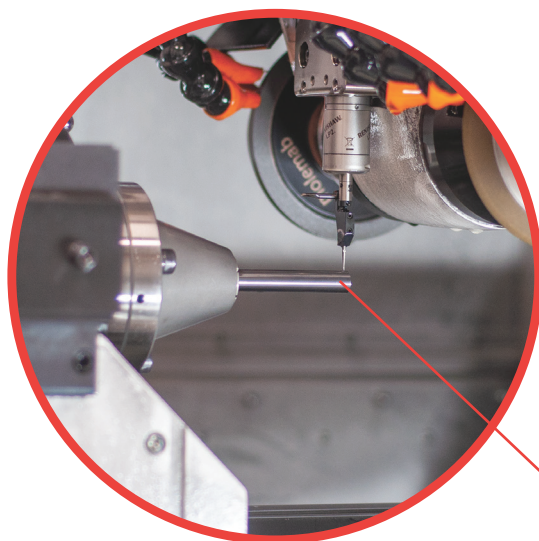
**91** SERIES



# High Quality Tools, high performance and reliability

*Herramientas de alta calidad, alto rendimiento y confiabilidad.*

**Development and production of precision tools** for different industry sectors and active participation in the global market with the main segment of EndMills, Drills and Taps. *Desarrollo y producción de herramientas de precisión para los diferentes sectores de la industria y participación en el mercado global con el segmento principal de fresas, brocas y machos de roscar.*



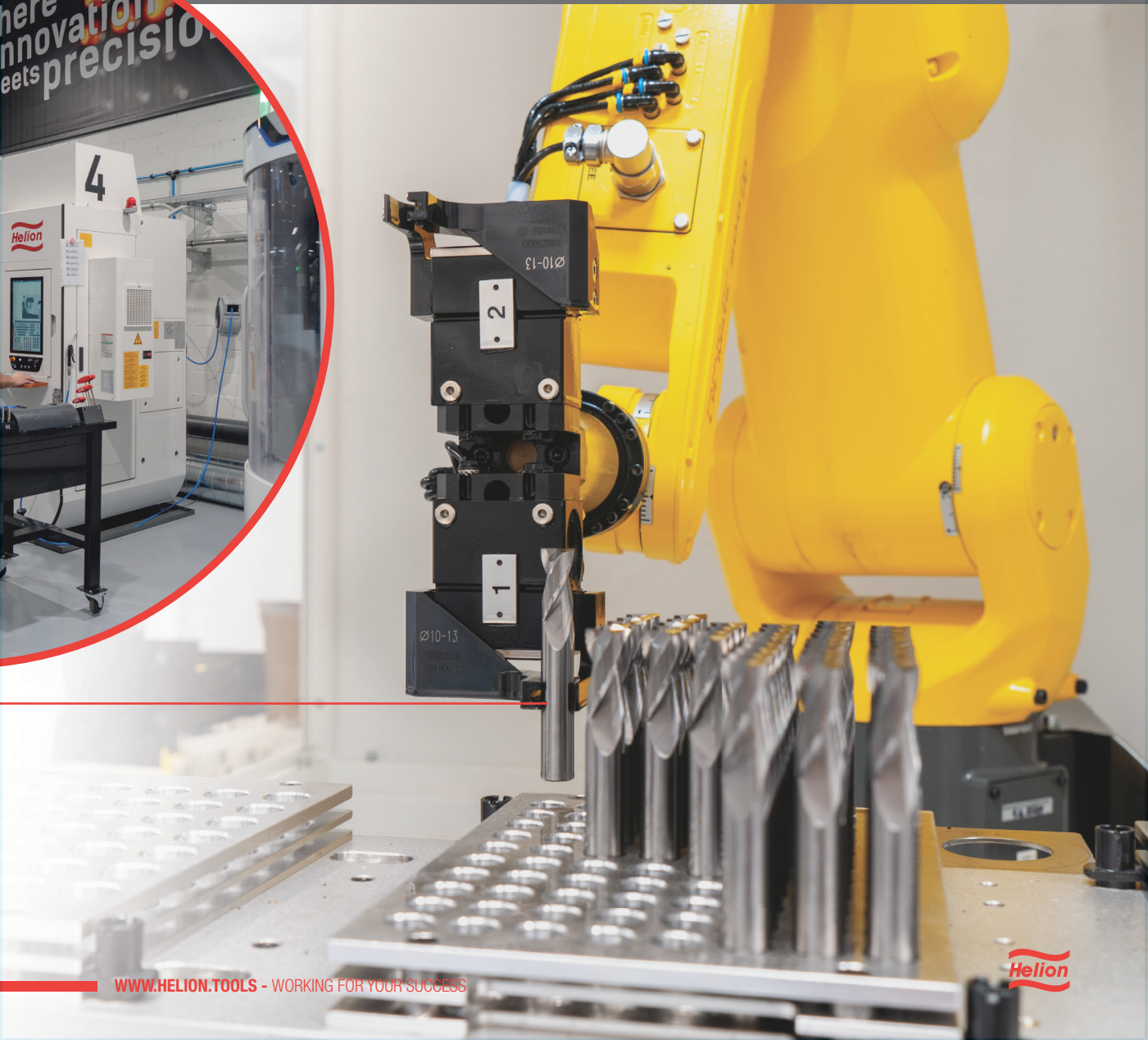
**High standards of quality and dimensional tolerance** allow them to obtain the best results in the machining processes in the automotive, aeronautical, construction, structural engineering, mold and die sectors. *Altos estándares de calidad y tolerancia dimensional les permiten obtener los mejores resultados en los procesos de mecanizado en sectores de la industria automotriz, aeronáutica, construcción, ingeniería estructural, molde y matriz.*



# Quality, Innovation and Service for a Higher Performance Production

*Calidad, Innovación y servicio para una producción con mayor rendimiento*

- ✓ High quality raw material  
Materia prima de alta calidad
- ✓ Latest technology applied to our coatings  
Última tecnología en recubrimientos.
- ✓ Maximum performance with optimized geometries  
Rendimiento máximo con geometrías optimizadas.
- ✓ High-precision manufacturing and quality control with state-of-the-art machines  
Fabricación de alta precisión y control de calidad con máquinas de última tecnología.
- ✓ Research and development in all our product categories  
Investigación y desarrollo en todas las categorías de producto
- ✓ Environmentally-friendly production, recycling as a commitment to the planet  
Producción verde, el reciclaje como compromiso con el planeta.



## 91.6424

### BALL NOSE END MILL Z4 · 42°

Fresa esférica en metal duro Z4 · 42°

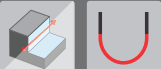
SC

HELIX  
42° VOLCANO

600  
1200  
N/mm<sup>2</sup> 45  
HRC

INOX GG(G)

TITAN  
INCONEL



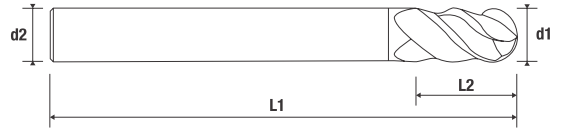
HA HSC

HPC

MQL AIR



Helion



Cod.	d1	d2	L1	L2	Z
9164240600	6	6	90	12	4
9164240800	8	8	100	14	4
9164241000	10	10	100	18	4
9164241200	12	12	110	22	4

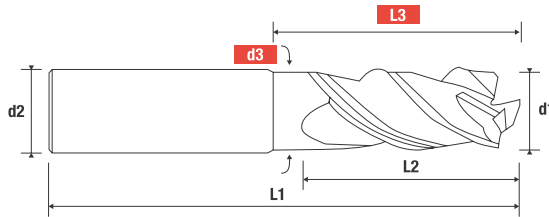


C. CONDITIONS

## SQUARE END MILL Z3 · 42°

Fresa plana en metal duro Z3 · 42°

# 91.6302



Cod.	d1	d2	d3	L1	L2	L3	Z
9163020100	1	6	0,95	45	2,5	4	3
9163020150	1,5	6	1,45	45	4	6	3
9163020200	2	6	1,9	45	5	8	3
9163020300	3	6	2,90	45	8	15	3
9163020400	4	6	3,90	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	9,80	70	22	32	3
9163021200	12	12	11,80	80	26	38	3
9163021600	16	16	15	100	36	45	3
9163022000	20	20	19	110	38	55	3



C. CONDITIONS



## SC

HELIX  
**42°**

VOLCANO

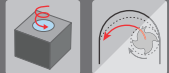
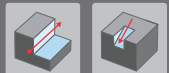
600  
1200  
N/mm<sup>2</sup>

**45**  
HRC

INOX

GG(G)

TITAN  
INCONEL



HA

HSC

HPC



MQL

AIR



## 91.1479

### SQUARE END MILL Z4 · 35°/38°

Fresa plana en metal duro Z4 · 35°/38°

**SC**

HELIX  
35/38°

VOLCANO



600  
1200  
N/mm<sup>2</sup>

55  
HRC

INOX

GG(G)

NI  
ALLOYS

TITAN  
INCONELL

UNI



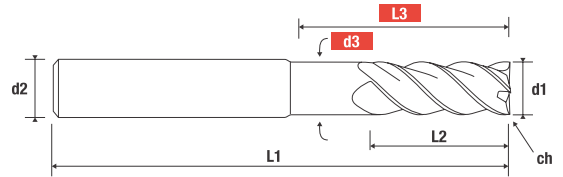
HPC

HSC

MULTI  
TASK  
Cutter



AIR



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z
9114790300	3	6	2,80	60	8	18	0,13	4
9114790400	4	6	3,60	60	11	21	0,18	4
9114790500	5	6	4,60	60	13	21	0,20	4
9114790600	6	6	5,50	60	13	21	0,20	4
9114790800	8	8	7,50	60	19	27	0,20	4
9114791000	10	10	9,50	70	22	32	0,20	4
9114791200	12	12	11,50	80	26	38	0,30	4
9114791600	16	16	15,50	90	32	44	0,40	4
9114792000	20	20	19,50	105	38	54	0,50	4



C. CONDITIONS

Helion

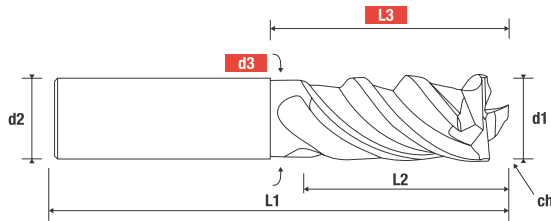
Ø6-Ø20

Ø3-Ø5

## SQUARE END MILL Z4 · 40°

Fresa plana en metal duro Z4 · 40°

# 91.5479



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z
9154790300	3	6	2,80	57	8	18	0,13	4
9154790400	4	6	3,60	57	11	21	0,18	4
9154790500	5	6	4,60	57	13	21	0,20	4
9154790600	6	6	5,50	57	13	21	0,20	4
9154790700	7	8	6,50	63	19	27	0,20	4
9154790800	8	8	7,50	63	19	28	0,20	4
9154790900	9	10	8,50	72	22	32	0,30	4
9154791000	10	10	9,50	72	22	32	0,30	4
9154791200	12	12	11,50	83	26	38	0,30	4
9154791400	14	14	13,50	83	26	42	0,30	4
9154791600	16	16	15,50	92	32	44	0,40	4
9154792000	20	20	19,50	104	38	54	0,50	4



### SC

**HELIX 40°** VOLCANO PLUS

600 1200 N/mm<sup>2</sup> 55 HRC

GG(G) INOX

TITAN INCONEL NI ALLOYS

UNI

3D HA

HSC HPC



C. CONDITIONS

APPLICATION

## 91.4472

### SQUARE END MILL Z4 · 45°

Fresa plana en metal duro Z4 · 45°

SC

HELIX  
45°

VOLCANO  
GOLD

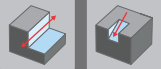
600  
1200  
N/mm²

55  
HRC

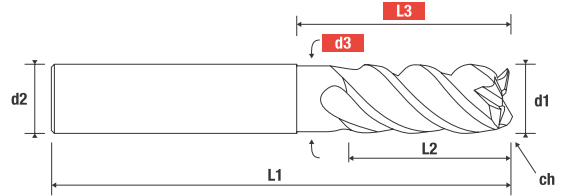
INOX GG(G)

TITAN  
INCONEL NI  
ALLOYS

UNI



HSC HPC



Cod.	d1	d2	d3	L1	L2	L3	Ch	Z
9144720600	6	6	5,5	57	13	21	0,2	4
9144720800	8	8	7,5	63	19	27	0,2	4
9144721000	10	10	9,5	72	22	32	0,3	4
9144721200	12	12	11,5	83	26	38	0,3	4
9144721600	16	16	15	92	32	44	0,4	4
9144722000	20	20	19	104	38	52	0,4	4

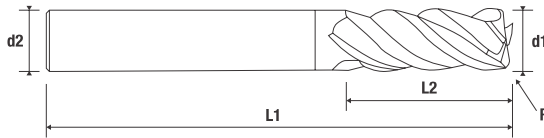


C. CONDITIONS

## CORNER RADIUS END MILL Z4 · 42°

Fresa tórica en metal duro Z4 · 42°

# 91.6410



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



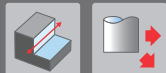
**SC**

**HELIX 42°** VOLCANO

600 1200 N/mm<sup>2</sup> 45 HRC

INOX GG(G)

TITAN INCONEL



HA HPC

HSC MULTI TASK Cutter

MQL

AIR



## 91.6614

### ROUGHING END MILL Z4-Z5 · 42°

Fresa en metal duro para desbaste Z4-Z5 · 42°

SC

HELIX  
42° VOLCANO

600  
1200  
N/mm<sup>2</sup> 45  
HRC

INOX TITAN  
INCONEL

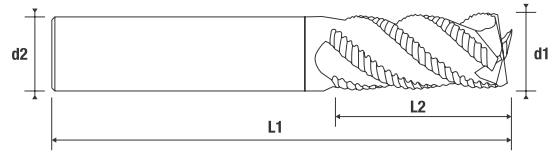
GG(G) ALU  
NE



HA HPC

MULTI  
TASK  
Cutter

MQL AIR



Cod.	d1	R	d2	L1	L2	Z
9166140500	5	0,2	6	50	13	4
9166140600	6	0,2	6	60	13	4
9166140800	8	0,2	8	70	19	4
9166141000	10	0,3	10	75	22	4
9166141200	12	0,3	12	80	26	4
9166141600	16	0,5	16	100	32	5
9166142000	20	0,5	20	100	38	5



Helion



C. CONDITIONS



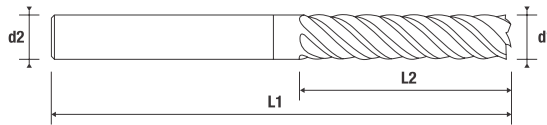
APPLICATION



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

Fresa en metal duro multilabio extralarga Z4-Z6 · 45°

# 91.6505



**SC**

**HELIX  
45°**

**VOLCANO  
PLUS**

**600  
1200  
N/mm²**

**65  
HRC**

**INOX**

**GG(G)**



**HSC**

**HHC**

**HPC**



**AIR**

Cod.	d1	d2	L1	L2	Z
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	90	35	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



C. CONDITIONS





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HELION TOOLS S.L.U  
Calle Miquel Servet 37 Nave 13  
Polígono industrial Bufalvent  
08243 Manresa · Barcelona · España  
+34 93 877 08 69 · [info@helion-tools.com](mailto:info@helion-tools.com)