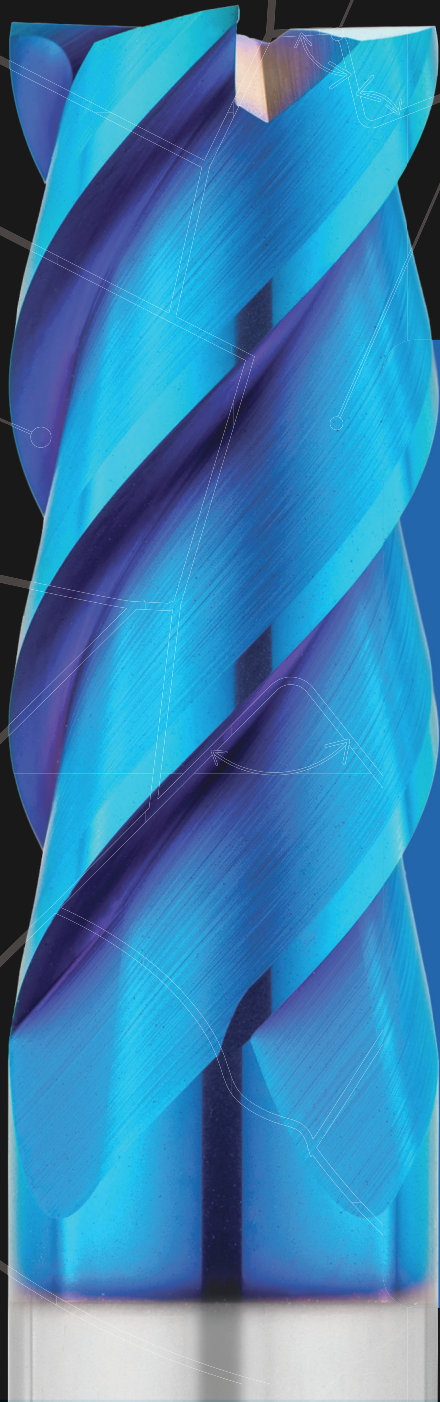


The Helion logo consists of a red rounded rectangle containing the word "Helion" in white, bold, sans-serif font. The text is flanked by two white, wavy, horizontal lines that resemble stylized waves or a ribbon.

**Helion**



## **Exotic materials high alloyed steels**

- High alloyed steels and hardened materials
- High speed cutting
- Super micro substrate
- Higher accurate dimensional tolerance

# **92**

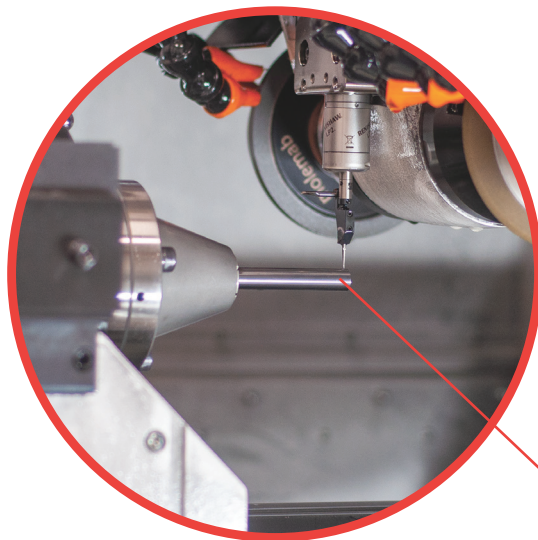
**SERIES**



# 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.*



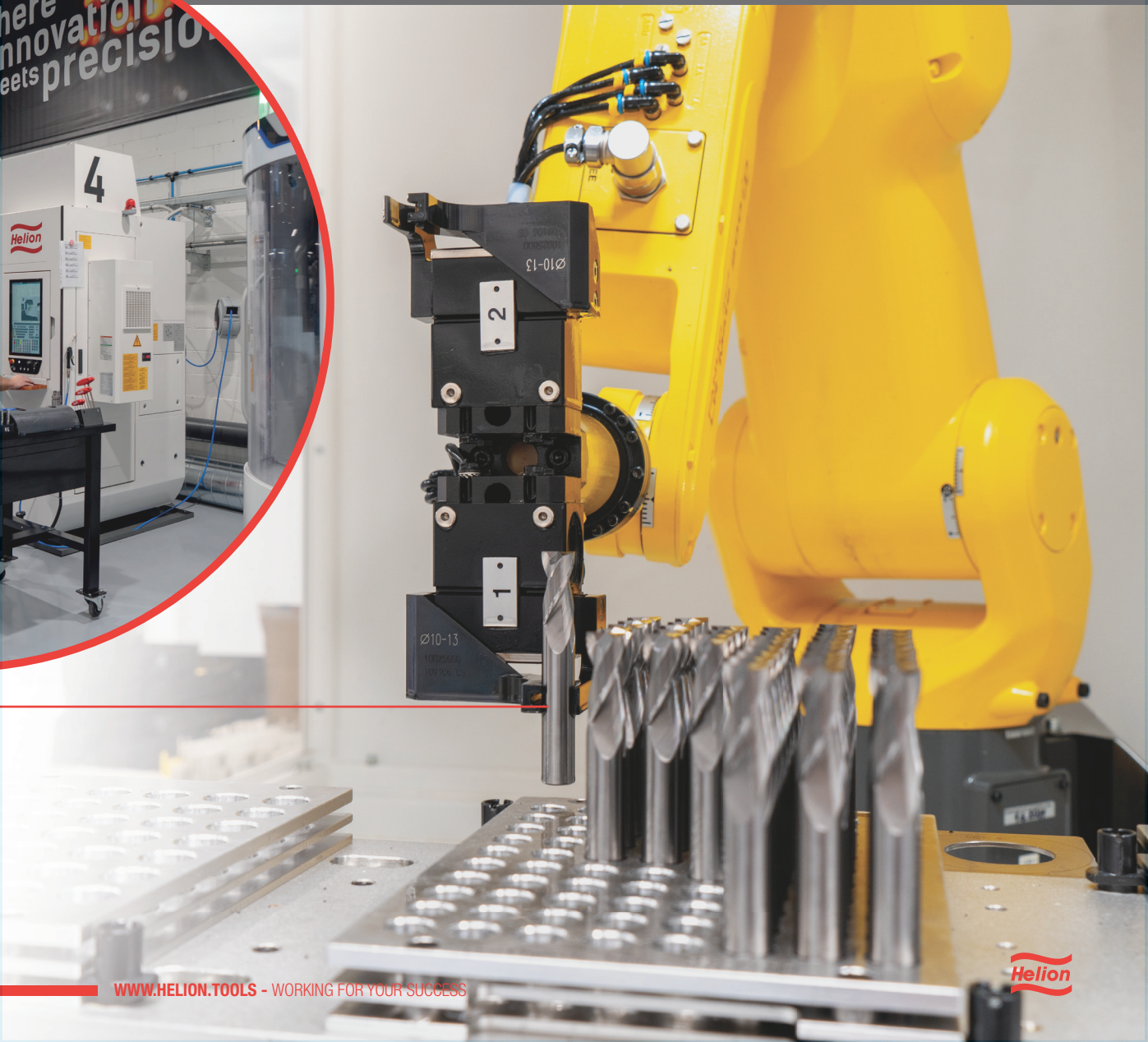
**High standards of quality and dimensional tolerance** allow them to obtain the best results in the machining processes in the automotive, aeronautical, construction, structural engineering, mold and die sectors. *Altos estándares de calidad y tolerancia dimensional les permiten obtener los mejores 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.



## 92.6228

### BALL NOSE END MILL TAPER NECK Z2 · 30°

Fresa esférica en metal duro cónica Z2 · 30°

**SC**

HELIX  
**30°**

DEEP  
BLUE

**45**  
HRC

**62**  
HRC

**70**  
HRC

GG(G)

INOX



HA

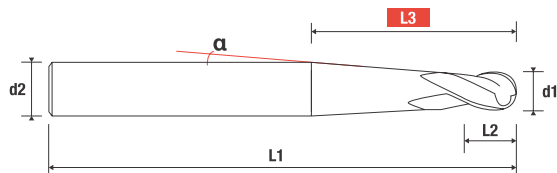
HSC

HHC

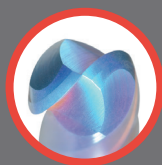
HPC



MQL



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



Helion

Ø3-Ø12

Ø1-Ø2

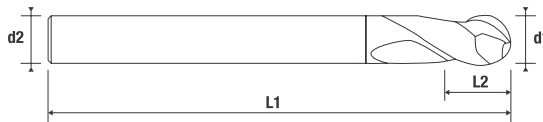


C. CONDITIONS

## BALL NOSE END MILL Z2 · 30°

Fresa esférica en metal duro Z2 · 30°

# 92.6220



Cod.	d1	d2	R	L1	L2	Z
9262200051	0,5	4	0,25	40	0,5	2
9262200052	0,5	4	0,25	40	0,75	2
9262200101	1	6	0,5	40	1	2
9262200102	1	4	0,5	40	1,5	2
9262200151	1,5	6	0,75	40	1,5	2
9262200152	1,5	6	0,75	40	2,3	2
9262200201	2	6	1	45	2	2
9262200202	2	6	1	45	3	2
9262200301	3	6	1,5	45	3	2
9262200302	3	6	1,5	45	4,5	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



**SC**

**HELIX 30°** **DEEP BLUE**

**45 HRC** **62 HRC**

**70 HRC** **GG(G)**

**INOX**

**HA**

**HSC** **HHC**

**HPC**

**MQL**



## 92.6224

### BALL NOSE END MILL LONG Z2 · 30°

Fresa esférica en metal duro larga Z2 · 30°

SC

HELIX  
30°

DEEP  
BLUE

45  
HRC

62  
HRC

70  
HRC

GG(G)

INOX



HA

HSC

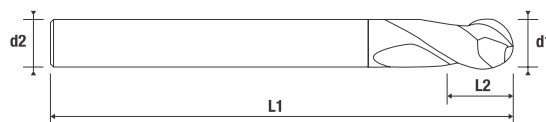
HHC

HPC

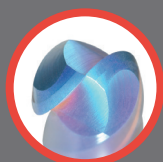


MQL

AIR



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



Helion

Ø4-Ø12

Ø1-Ø3



C. CONDITIONS



## 82.6227

### BALL NOSE END MILL TAPER NECK Z2 · 30°

Fresa esférica en metal duro cónica Z2 · 30°

SC

HELIX  
30°

RACER  
PLUS

45  
HRC

62  
HRC

GG(G)



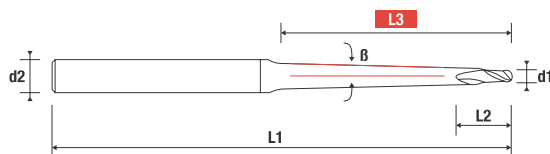
HSC

HHC

HPC



MQL



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



Helion

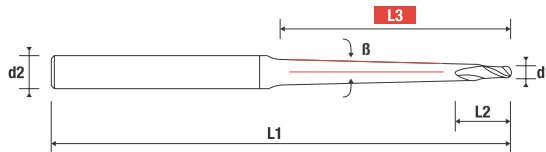


C. CONDITIONS

## BALL NOSE END MILL TAPER NECK Z2 · 30°

Fresa esférica en metal duro cónica Z2 · 30°

# 82.6229



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



### SC

HELIX  
30°

RACER  
PLUS

45  
HRC

62  
HRC

GG(G)



HSC

HHC

HPC



MQL

AIR



C. CONDITIONS

## 92.6823

### BALL NOSE END MILL LONG NECK Z2 · 30°

Fresa esférica en metal duro cuello largo Z2 · 30°

SC

HELIX  
30°

DEEP  
BLUE

45  
HRC

62  
HRC

70  
HRC

GG(G)



HHC

HPC

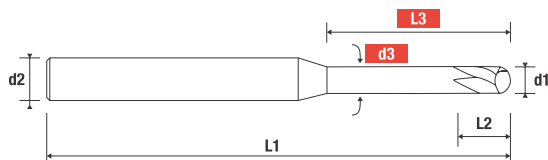
HSC



MQL



μ  
MICROTOOLS



Cod.	d1	d2	d3	L1	L2	L3	Z
9268230010	0,1	4	0,05	40	0,3	-	2
9268230205	0,2	4	0,15	40	0,2	0,5	2
9268230215	0,2	4	0,15	40	0,2	1,5	2
9268230301	0,3	4	0,25	40	0,3	1	2
9268230303	0,3	4	0,25	40	0,3	3	2
9268230402	0,4	4	0,35	40	0,4	2	2
9268230404	0,4	4	0,35	40	0,4	4	2
9268230501	0,5	4	0,45	45	0,5	1	2
9268230502	0,5	4	0,45	45	0,5	2	2
9268230503	0,5	4	0,45	45	0,5	3	2
9268230505	0,5	4	0,45	45	0,5	5	2
9268230508	0,5	4	0,45	45	0,5	8	2
9268230602	0,6	4	0,55	45	0,6	2	2
9268230604	0,6	4	0,55	45	0,6	4	2
9268230608	0,6	4	0,55	45	0,6	8	2
9268230804	0,8	4	0,75	45	0,8	4	2
9268230806	0,8	4	0,75	45	0,8	6	2
9268230810	0,8	4	0,75	45	0,8	10	2
9268231004	1	4	0,95	45	1	4	2



Ø3-Ø5

Ø0,1-Ø2,5

Cod.	d1	d2	d3	L1	L2	L3	Z
9268231006	1	4	0,95	45	1	6	2
9268231008	1	4	0,95	45	1	8	2
9268231010	1	4	0,95	50	1	10	2
9268231012	1	4	0,95	50	1	12	2
9268231016	1	4	0,95	50	1	16	2
9268231025	1	4	0,95	60	1	25	2
9268231204	1,2	4	1,15	45	1,2	4	2
9268231206	1,2	4	1,15	45	1,2	6	2
9268231208	1,2	4	1,15	45	1,2	8	2
9268231212	1,2	4	1,15	50	1,2	12	2
9268231220	1,2	4	1,15	50	1,2	20	2
9268231508	1,5	4	1,45	45	1,5	8	2
9268231510	1,5	4	1,45	50	1,5	10	2
9268231512	1,5	4	1,45	50	1,5	12	2
9268231516	1,5	4	1,45	50	1,5	16	2
9268231520	1,5	4	1,45	50	1,5	20	2
9268232004	2	4	1,90	45	2	4	2
9268232006	2	4	1,90	45	2	6	2
9268232008	2	4	1,90	45	2	8	2
9268232010	2	4	1,90	50	2	10	2
9268232012	2	4	1,90	50	2	12	2
9268232014	2	4	1,90	50	2	14	2
9268232016	2	4	1,90	50	2	16	2
9268232020	2	4	1,90	50	2	20	2
9268232508	2,5	4	2,40	45	2,5	8	2
9268232516	2,5	4	2,40	50	2,5	16	2
9268233008	3	6	2,90	50	3	8	2
9268233012	3	6	2,90	50	3	12	2
9268233020	3	6	2,90	60	3	20	2
9268233025	3	6	2,90	65	3	25	2

Cod.	d1	d2	d3	L1	L2	L3	Z
9268233030	3	6	2,90	70	3	30	2
9268234010	4	6	3,90	50	4	10	2
9268234020	4	6	3,90	60	4	20	2
9268234025	4	6	3,90	65	4	25	2
9268234030	4	6	3,90	70	4	30	2
9268235016	5	6	4,90	60	6	16	2



C. CONDITIONS



# 92.7534 ROUGHING AND FINISHING WITH ONE TOOL

DeepBlue coating

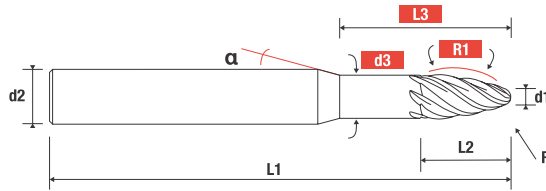
Suitable for 3 and 5 axes like operations

Turbine impellers blades and tires profiles

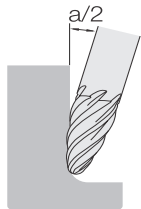
## BARREL CONICAL MILL Z6 · 30°

Fresa cónica de barril en metal duro Z6 · 30°

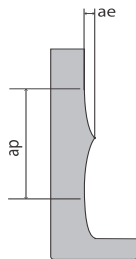
# 92.7534



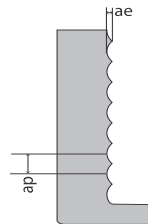
Cod.	d1	d2	d3	R	R1	L1	L2	L3	α	Z
9275340401	4	12	9,5	2	50	100	18,7	40	10°	6
9275340402	4	16	-	2	750	110	12,4	-	30°	6
9275340601	6	12	-	3	75	100	20	-	10°	6
9275340602	6	16	-	3	1000	110	16,7	-	20°	6
9275340801	8	16	-	4	1000	110	26,7	-	10°	6
9275340802	8	12	-	4	100	110	26,8	-	5°	6



Ap: Axial Depth (mm) - Profundidad axial  
Ae: Radial Depth (mm) - Profundidad radial



Conical Type - Tipo cónica



Ball type - Tipo bola

## SC

HELIX 30° DEEP BLUE

600 1200 N/mm² 45 HRC

62 HRC GG(G)

INOX TITAN INCONEL

GRAPHITE

HA

HSC HPC

HHC MULTI TASK Cutter

MQL

AIR



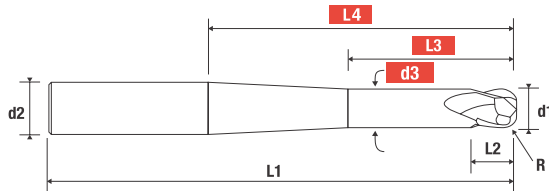
C. CONDITIONS



## CORNER RADIUS END MILL TAPER NECK Z2 · 30°

Fresa tórica en metal duro cónica Z2 · 30°

# 82.6217



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



C. CONDITIONS



## SC

HELIX  
30°

RACER  
PLUS

45  
HRC

62  
HRC

GG(G)



HA

HSC

HHC

HPC



MQL

AIR



## 92.6813

### CORNER RADIUS END MILL LONG NECK Z2 · 30°

Fresa tórica en metal duro cuello largo Z2 · 30°

**SC**

HELIX  
30°

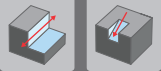
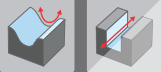
DEEP  
BLUE

45  
HRC

62  
HRC

70  
HRC

GG(G)

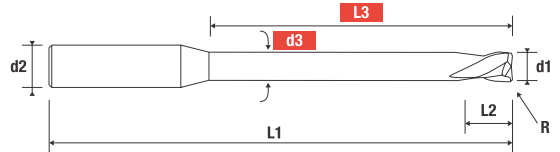
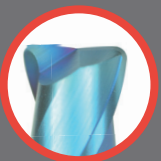


HSC HHC

HPC

MQL AIR

μ  
MICROTOOLS



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



Helion

Ø3-Ø6

Ø0,2-Ø2

Cod.	d1	R	d2	d3	L1	L2	L3	Z
9268131210	1,2	0,1	4	1,15	50	1,2	10	2
9268131216	1,2	0,1	4	1,15	50	1,2	16	2
9268131508	1,5	0,1	4	1,45	45	1,5	8	2
9268131512	1,5	0,1	4	1,45	50	1,5	12	2
9268131520	1,5	0,1	4	1,45	50	1,5	20	2
9268132006	2	0,2	4	1,90	45	2	6	2
9268132010	2	0,2	4	1,90	50	2	10	2
9268132016	2	0,2	4	1,90	50	2	16	2
9268132025	2	0,2	4	1,90	60	2	25	2
9268133010	3	0,3	6	2,90	50	3	10	2
9268133016	3	0,3	6	2,90	55	3	16	2
9268133025	3	0,3	6	2,90	65	3	25	2
9268133035	3	0,3	6	2,90	75	3	35	2
9268134012	4	0,5	6	3,90	50	4	12	2
9268134020	4	0,5	6	3,90	60	4	20	2
9268134030	4	0,5	6	3,90	70	4	30	2
9268134040	4	0,5	6	3,90	80	4	40	2
9268135025	5	0,5	6	4,90	70	6	25	2
9268135040	5	0,5	6	4,90	80	6	40	2
9268136020	6	0,5	6	5,90	60	7	20	2
9268136040	6	0,5	6	5,90	80	7	40	2



C. CONDITIONS



## 92.6415

### CORNER RADIUS END MILL Z4 · 30°

Fresa tórica en metal duro Z4 · 30°

SC

HELIX  
30°

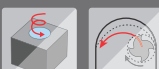
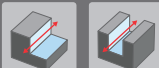
DEEP  
BLUE

45  
HRC

62  
HRC

70  
HRC

GG(G)



HSC HHC

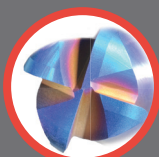
HPC



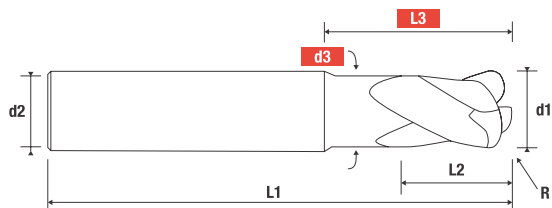
MULTI  
TASK  
Cutter



MQL



Helion



Cod.	d1	R	d2	d3	L1	L2	L3	Z
9264150303	3	0,3	6	2,90	60	3	20	4
9264150305	3	0,5	6	2,90	60	3	20	4
9264150310	3	0,5	6	2,90	50	3	10	4
9264150403	4	0,3	6	3,90	60	4	20	4
9264150405	4	0,5	6	3,90	60	4	20	4
9264150410	4	1,0	6	3,90	60	4	20	4
9264150550	5	0,5	6	4,95	60	5	16	4
9264150650	6	0,5	6	5,90	60	7	20	4
9264150651	6	0,5	6	5,90	80	7	40	4
9264150610	6	1,0	6	5,90	60	7	20	4
9264150611	6	1,0	6	5,90	80	7	40	4
9264150850	8	0,5	8	7,80	65	9	22	4
9264150851	8	0,5	8	7,80	100	9	40	4
9264150810	8	1,0	8	7,80	65	9	22	4
9264150811	8	1,0	8	7,80	100	9	40	4
9264151050	10	0,5	10	9,85	70	11	24	4
9264151051	10	0,5	10	9,85	100	11	40	4
9264151010	10	1,0	10	9,85	70	11	24	4



Helion

Cod.	d1	R	d2	d3	L1	L2	L3	Z
9264151011	10	1,0	10	9,85	100	11	40	4
9264151015	10	1,5	10	9,85	100	11	40	4
9264151020	10	2,0	10	9,85	70	11	24	4
9264151025	10	2,5	10	9,85	70	11	24	4
9264151250	12	0,5	12	11,80	80	13	26	4
9264151251	12	0,5	12	11,80	110	13	40	4
9264151210	12	1,0	12	11,80	80	13	26	4
9264151211	12	1,0	12	11,80	110	13	40	4
9264151220	12	2,0	12	11,80	80	13	26	4
9264151230	12	3	12	11,80	80	13	26	4

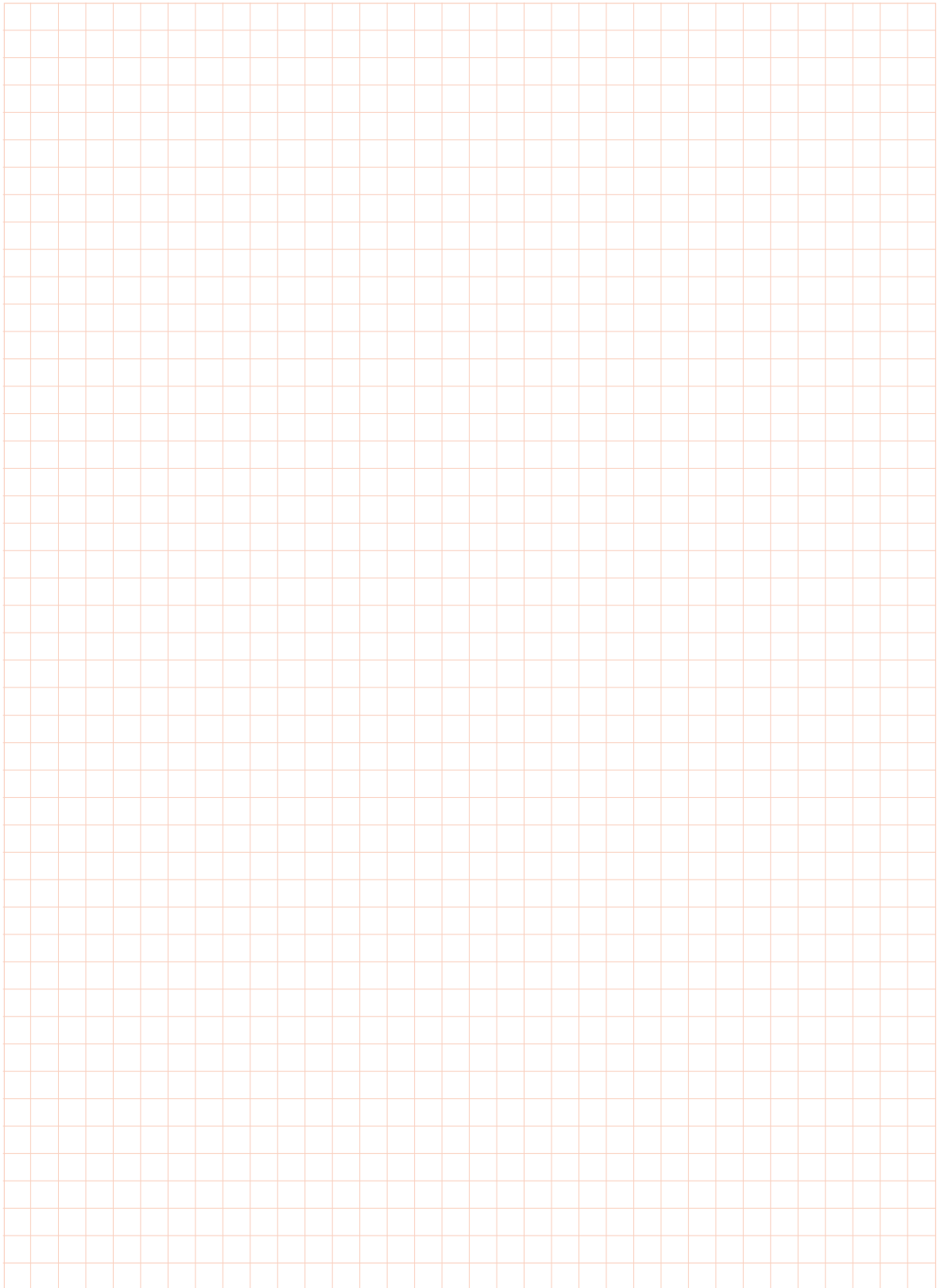


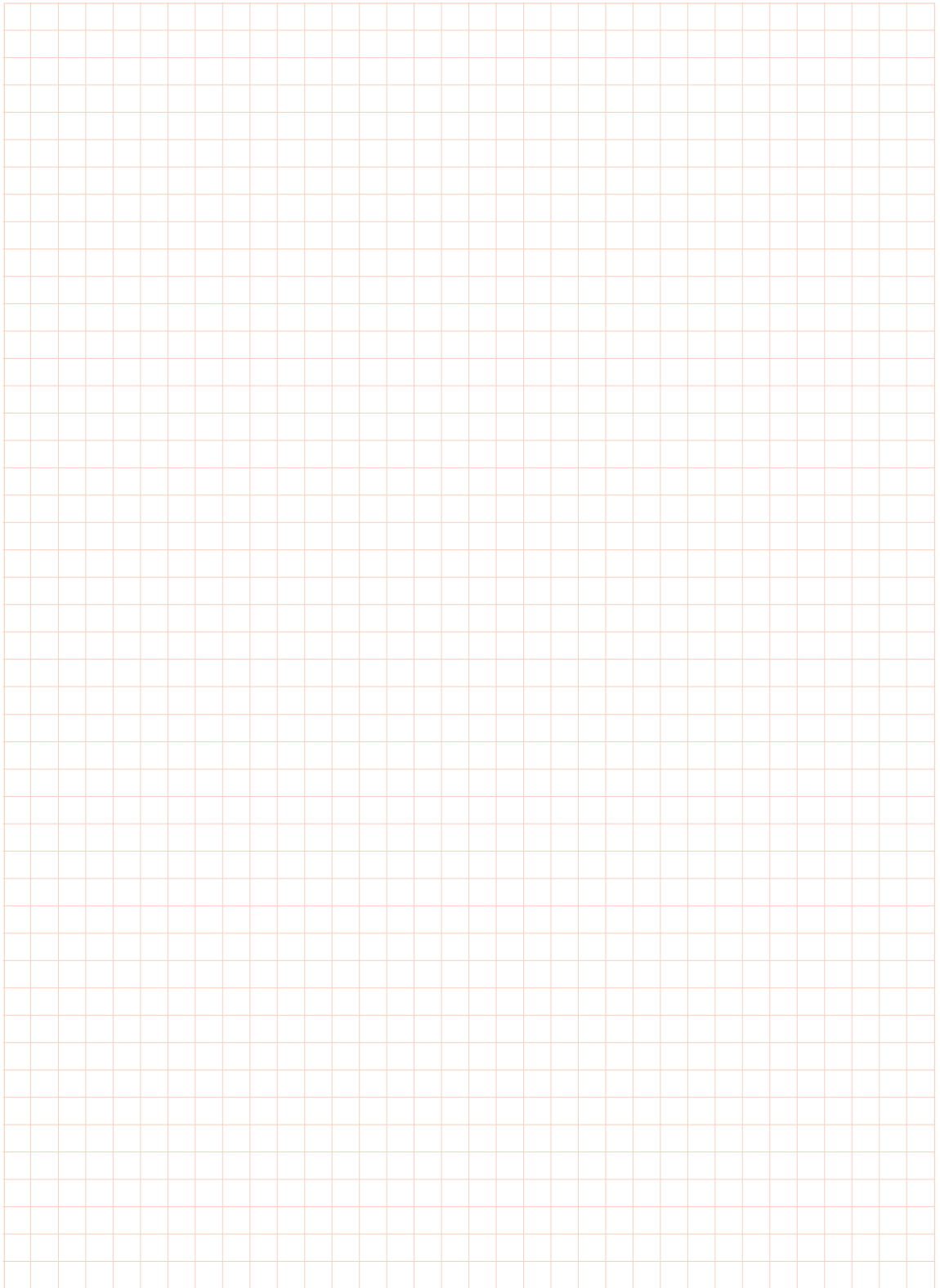
C. CONDITIONS













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