



Universal Applications

- Higher productivity
- Steels up to 62HRC
- TOP performance
- High Edge tolerance

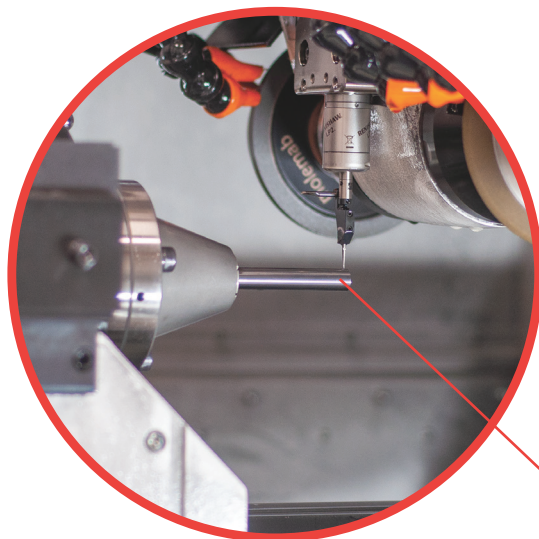
90 SERIES



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.*



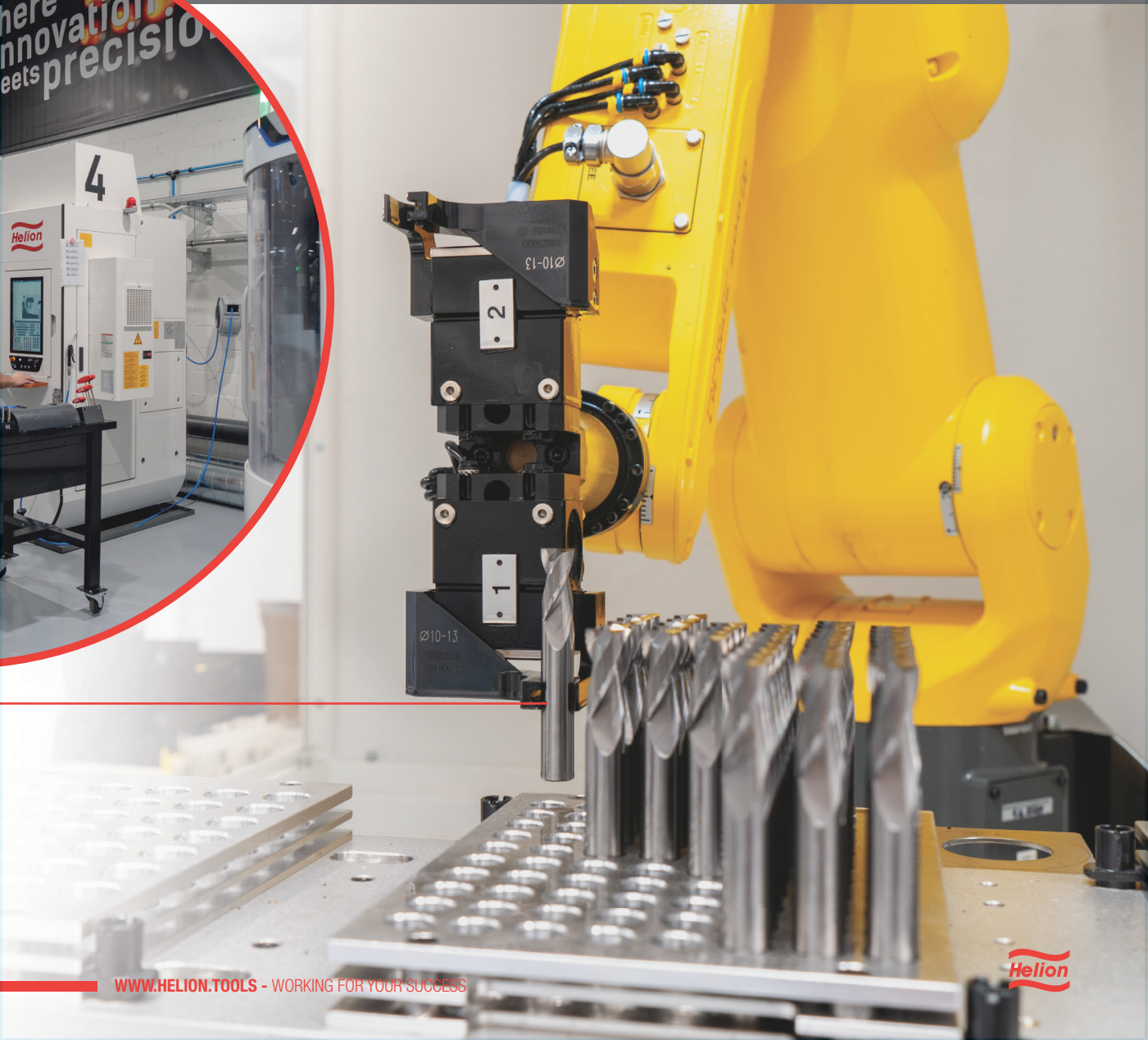
High standards of quality and dimensional tolerance allow them to obtain the best results in the machining processes in the automotive, aeronautical, construction, structural engineering, mold and die sectors. *Altos estándares de calidad y tolerancia dimensional les permiten obtener los mejores resultados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



90.6221

BALL NOSE END MILL Z2 · 35°

Fresa esférica en metal duro Z2 · 35°

SC

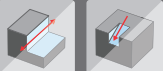
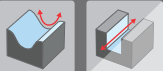
HELIX
35° RACER

600
1200
N/mm² 55
HRC

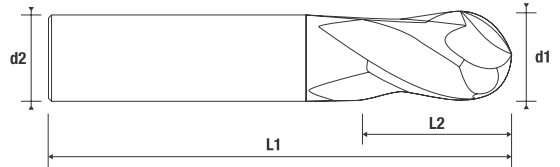
62
HRC INOX

GG(G) ALU
NE

TITAN
INCONEL UNI



HSC HHC



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



Ø3-Ø12

Ø0,5-Ø2

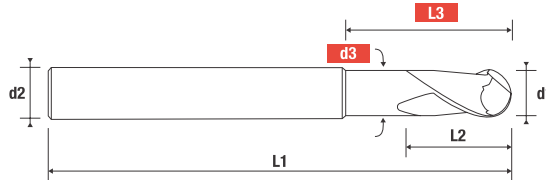


C. CONDITIONS

BALL NOSE END MILL EXTRA LONG Z2 · 30°

Fresa esférica en metal duro extra larga Z2 · 30°

90.6226
82.7220



Cod.	d1	d2	d3	R	L1	L2	L3	Z
9062260200	2	6	1,9	1	80	2,4	40	2
9062260301	3	6	2,9	1,5	100	3,6	50	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

Cod.	d1	d2	d3	R	L1	L2	L3	Z
8272200600	6	6	-	3	100	12	-	2
8272200800	8	8	-	4	100	14	-	2
8272201000	10	10	-	5	100	18	-	2
8272201200	12	12	-	6	100	22	-	2

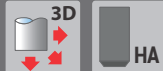
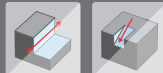
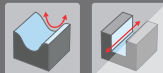
SC

HELIX 30° RACER

600 1200 N/mm² 62 HRC

INOX GG(G)

ALU NE UNI



HSC HHC

HPC

AIR



C. CONDITIONS

Helion



90.6702

SQUARE END MILL Z2 · 30°

Fresa plana en metal duro Z2 · 30°

SC

HELIX
30°

RACER

600
1200
N/mm²

55
HRC

GG(G)

INOX

ALU
NE

NI
ALLOYS

UNI

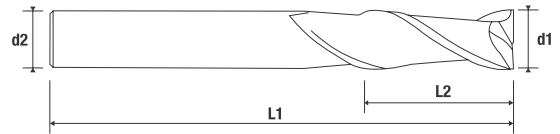


HSC

HHC



AIR



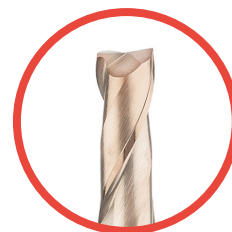
Cod.	d1	d2	L1	L2	Z
9067020100	1	3	50	3	2
9067020200	2	3	50	6	2
9067020300	3	3	50	8	2
9067020400	4	4	50	11	2
9067020500	5	6	50	13	2
9067020600	6	6	50	16	2
9067020800	8	8	60	20	2
9067021000	10	10	75	25	2
9067021200	12	12	75	32	2



C. CONDITIONS

MILL LINE HELI RUN

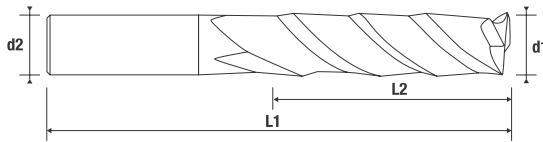
Cod.	d1	d2	L1	L2	Z
9062020650	6,5	8	60	16	2
9062020700	7	8	60	16	2
9062020750	7,5	8	60	16	2
9062020800	8	8	70	20	2
9062020850	8,5	10	70	19	2
9062020900	9	10	70	19	2
9062020950	9,5	10	70	19	2
9062021000	10	10	75	25	2
9062021100	11	12	75	22	2
9062021200	12	12	75	26	2
9062021400	14	14	80	26	2
9062021600	16	16	100	40	2
9062022000	20	20	100	40	2



SQUARE END MILL Z2 LONG · 35°

Fresa plana en metal duro larga Z2 · 35°

90.6204



Cod.	d1	d2	L1	L2	Z
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	90	40	2
9062041000	10	10	100	50	2
9062041200	12	12	100	50	2
9062041600	16	16	160	80	2



SC

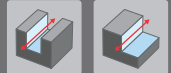
HELIX 35° **RACER**

600 1200 N/mm² **45 HRC**

62 HRC **GG(G)**

INOX **ALU NE**

NI ALLOYS **UNI**



HA **HSC**

HHC

AIR



C. CONDITIONS

90.6704

SQUARE END MILL Z4 · 30°

Fresa plana en metal duro Z4 · 30°

SC

HELIX
30° RACER

600
1200
N/mm² 55
HRC

INOX GG(G)

ALU
NE TITAN
INCONEL

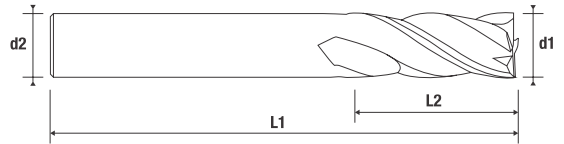
UNI

90°

3D HA

HSC HHC

AIR



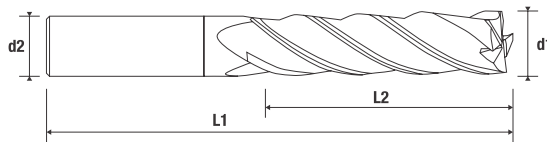
Cod.	d1	d2	L1	L2	Z
9067040300	3	4	50	8	4
9067040400	4	4	50	11	4
9067040500	5	6	50	13	4
9067040600	6	6	50	16	4
9067040800	8	8	60	20	4
9067041000	10	10	75	30	4
9067041200	12	12	75	32	4



SQUARE END MILL Z4 · 35°

Fresa plana en metal duro Z4 · 35°

90.6402



Cod.	d1	d2	L1	L2	Z
9064020100	1	4	40	2,5	4
9064020150	1,50	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



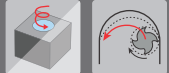
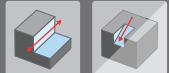
SC

HELIX 35° **RACER**

600 1200 N/mm² **62 HRC**

GG(G) **ALU NE**

NI ALLOYS **UNI**



HA **HSC**

HHC

AIR





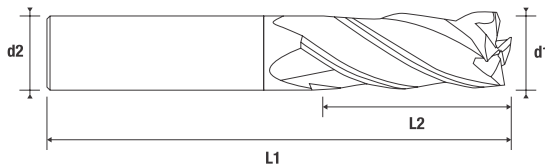
**Where innovation
meets precision**



SQUARE END MILL Z4 LONG · 35°

Fresa plana en metal duro larga Z4 · 35°

90.6404



Cod.	d1	d2	L1	L2	Z
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



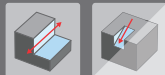
SC

HELIX 35° RACER

600 1200 N/mm² 62 HRC

GG(G) ALU NE

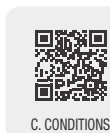
NI ALLOYS UNI



HA HSC

HHC

AIR



90.6811

CORNER RADIUS END MILL LONG NECK Z2 · 30°

Fresa tórica en metal duro de cuello largo Z2 · 30°

SC

HELIX
30° RACER

600
1200
N/mm² 62
HRC

GG(G) INOX

TITAN
INCONELL

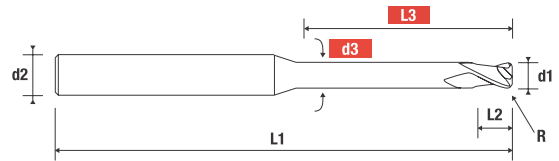


3D HA

HSC HHC

HPC

AIR



Helion

Cod.	d1	d2	d3	R	L1	L2	L3	Z
9068110051	0,5	4	0,45	0,05	45	0,06	1,5	2
9068110052	0,5	4	0,45	0,05	45	0,06	2	2
9068110061	0,6	4	0,55	0,05	45	0,07	3	2
9068110062	0,6	4	0,55	0,05	45	0,07	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



Cod.	d1	d2	d3	R	L1	L2	L3	Z
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
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



C. CONDITIONS



90.6815

CORNER RADIUS END MILL LONG NECK Z4 · 30°

Fresa tórica en metal duro de cuello largo Z4 · 30°

SC

HELIX
30° RACER

600
1200
N/mm² 62
HRC

GG(G) INOX

TITAN
INCONEL



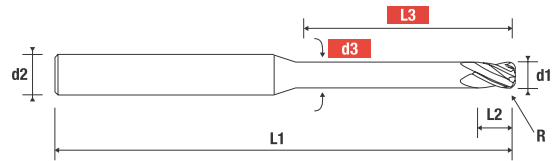
HSC HHC



AIR



Helion



Cod.	d1	d2	d3	R	L1	L2	L3	Z
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



Cod.	d1	d2	d3	R	L1	L2	L3	Z
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



90.6412

CORNER RADIUS END MILL Z4 · 30°

Fresa tórica en metal duro Z4 · 30°

SC

HELIX
30°

RACER
PLUS

600
1200
N/mm²

62
HRC

GG(G)

INOX

TITAN
INCONEL



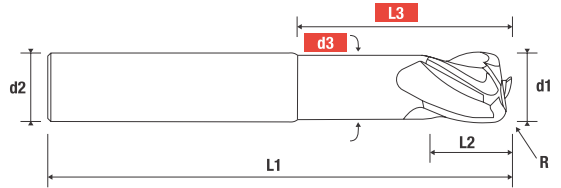
HSC

HHC

HPC



AIR



Cod.	d1	R	d2	d3	L1	L2	L3	Z
9064120202	2	0,20	6	1,80	57	4	21	4
9064120303	3	0,30	6	2,80	57	4	21	4
9064120405	4	0,50	6	3,60	57	6	21	4
9064120410	4	1,00	6	3,60	57	6	21	4
9064120605	6	0,50	6	5,50	57	7	21	4
9064120610	6	1,00	6	5,50	57	7	21	4
9064120615	6	1,50	6	5,50	57	7	21	4
9064120620	6	2,00	6	5,50	57	7	21	4
9064120805	8	0,50	8	7,40	63	9	27	4
9064120810	8	1,00	8	7,40	63	9	27	4
9064120815	8	1,50	8	7,40	63	9	27	4
9064120820	8	2,00	8	7,40	63	9	27	4
9064121005	10	0,50	10	9,20	72	11	32	4
9064121010	10	1,00	10	9,20	72	11	32	4
9064121015	10	1,50	10	9,20	72	11	32	4
9064121020	10	2,00	10	9,20	72	11	32	4
9064121205	12	0,50	12	11,00	83	12	38	4
9064121210	12	1,00	12	11,00	83	12	38	4
9064121215	12	1,50	12	11,00	83	12	38	4
9064121220	12	2,00	12	11,00	83	12	38	4
9064121605	16	0,50	16	15,00	92	16	44	4
9064121610	16	1,00	16	15,00	92	16	44	4
9064121620	16	2,00	16	15,00	92	16	44	4



C. CONDITIONS



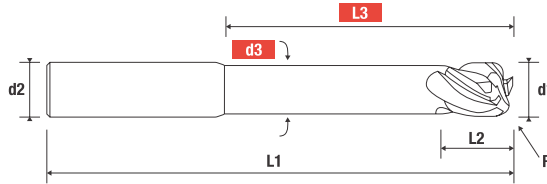
Ø6-Ø16

Ø2-Ø4

CORNER RADIUS END MILL LONG Z4 · 30°

Fresa tórica en metal duro larga Z4 · 30°

90.6413



SC

HELIX 30° **RACER PLUS**

600 1200 N/mm² **62 HRC**

GG(G) **INOX**

TITAN INCONEL



HSC **HHC**

HPC

AIR

Cod.	d1	R	d2	d3	L1	L2	L3	Z
9064130605	6	0,50	6	5,50	80	7	44	4
9064130610	6	1,00	6	5,50	80	7	44	4
9064130615	6	1,50	6	5,50	80	7	44	4
9064130620	6	2,00	6	5,50	80	7	44	4
9064130805	8	0,50	8	7,40	100	9	54	4
9064130810	8	1,00	8	7,40	100	9	54	4
9064130815	8	1,50	8	7,40	100	9	54	4
9064130820	8	2,00	8	7,40	100	9	54	4
9064131010	10	1,00	10	9,20	100	11	60	4
9064131015	10	1,50	10	9,20	100	11	60	4
9064131020	10	2,00	10	9,20	100	11	60	4
9064131205	12	0,50	12	11,00	120	12	75	4
9064131210	12	1,00	12	11,00	120	12	75	4
9064131215	12	1,50	12	11,00	120	12	75	4
9064131220	12	2,00	12	11,00	120	12	75	4
9064131620	16	2,00	16	15,00	150	16	92	4



C. CONDITIONS



90.5572

TROCHOIDAL END MILL Z5 · 40°

Fresa en metal duro para trocoidal Z5 · 40°

SC

HELIX
40°

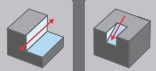
RACER
PLUS

55
HRC

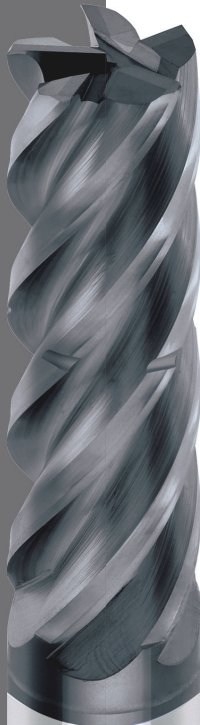
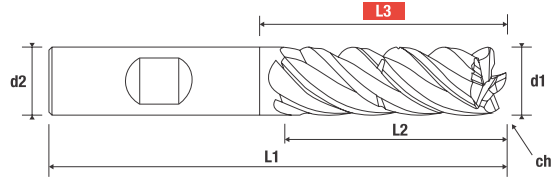
INOX

GG(G)

TITAN
INCONELL



HSC HPC



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

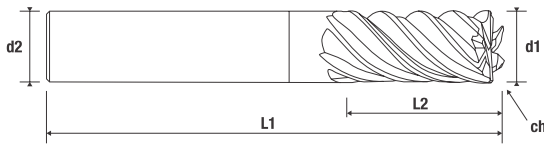


C. CONDITIONS

SUPERFINISHING ENDMILL Z5-Z6 · 40°/42°

Fresa en metal duro para super acabado Z5 - Z6 · 40°/42°

90.6572



Cod.	d1	d2	L1	L2	Ch	Z
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



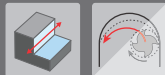
SC

HELIX 40/42° **RACER PLUS**

600 1200 N/mm² **55 HRC**

GG(G) **ALU NE**

TITAN INCONEL **UNI**



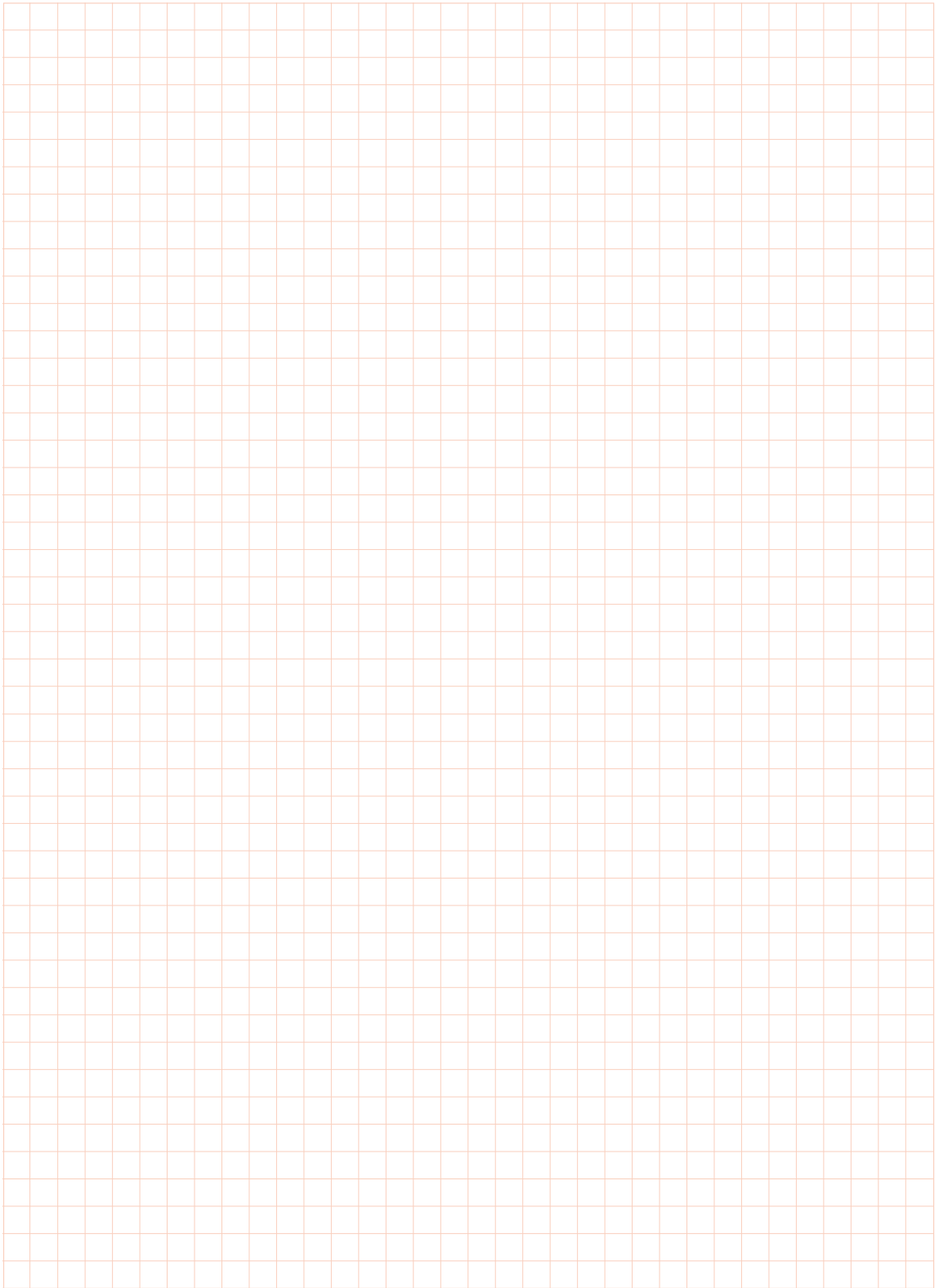
45° **HA**

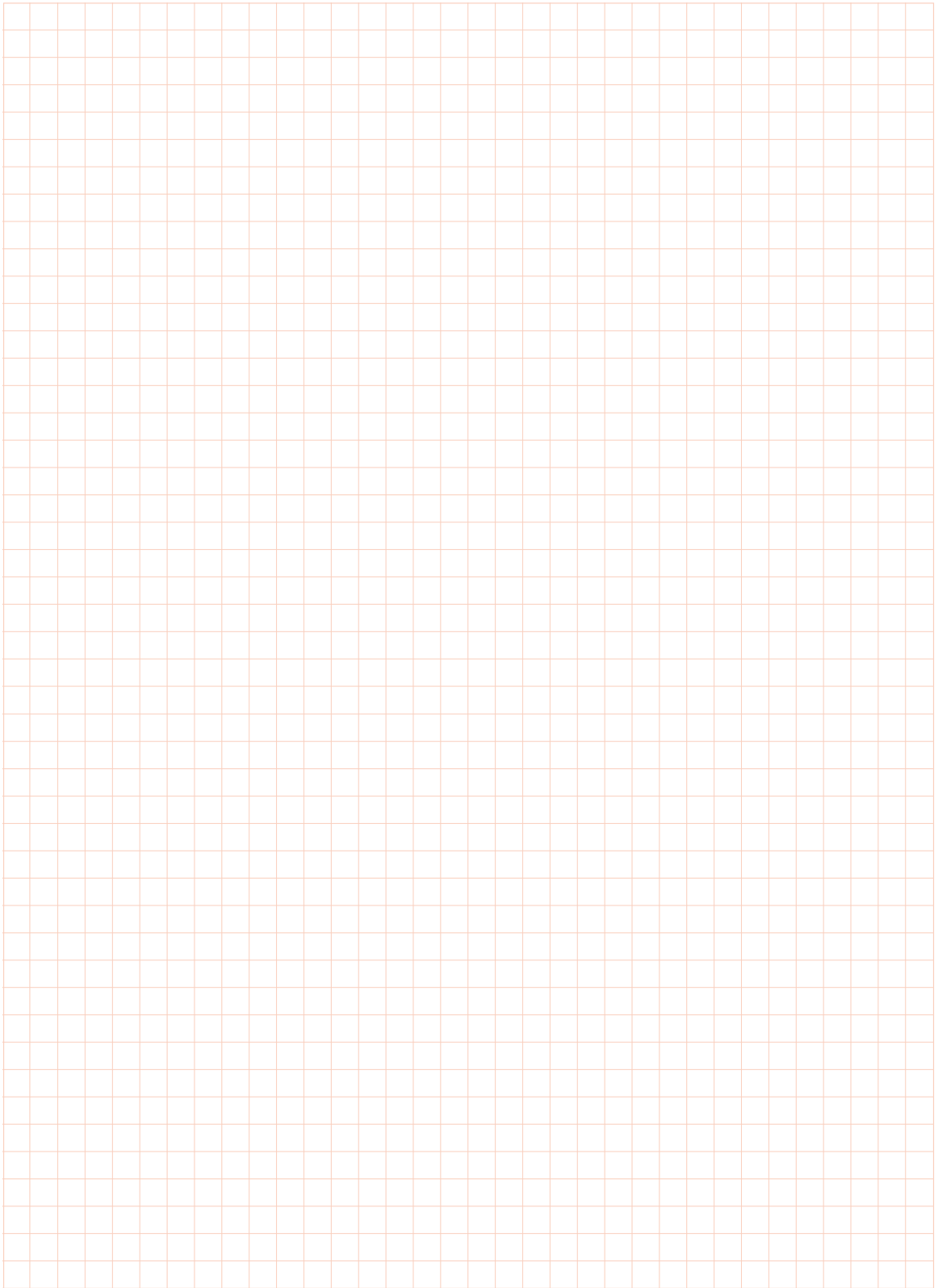
HSC **HPC**

HHC

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