



90 HELIRUN

UNIVERSAL APPLICATION

Higher productivity
Alta productividad

Steels up to 62 HRC
Aceros hasta 62 HRC

TOP performance
Rendimiento superior

High edge tolerance
Alta tolerancia en el filo de corte



WORKING FOR YOUR SUCCESS

Since 1952



HELION TOOLS S.L. is owned by Molins family with more than 70 years of experience in the machining industry. *HELION TOOLS S.L. es una empresa propiedad de la Familia Molins con más de 70 años de experiencia en el sector del mecanizado.*

They offer solutions and collaborate back-to-back with their partners.

Since its foundation in 1952, it has grown continuously with the attitude and business philosophy of: "We work for your success". The success of its customers is Helion's number one priority.

Specialist in the manufacturing of cutting tools

within its main market segment: endmills, drills and taps in the production facility in Manresa – Spain, a wholly-owned cutting tools production site at full capacity to serve both nationally and to another 23 countries.

Cutting tools in stock and its flexibility in producing

translates into immediate deliveries of purchase orders.

Thanks to its means of production, Helion Tools can ensure an optimal and agile service level to meet supply needs. Helion Tools brand guarantees products are developed, tested and commercialized with its factory.

Helion Tools is a relationship-driven company.

In its opinion, the most important resource is people. This is remarked and identifies its business culture while guaranteeing a solid foundation for its future.

Upright behavior is a deep-rooted value among Helion Tools. It is the commitment from both the company and its partners to carry out a fair competition within the market under the premise of respect, equity and forging their own future.

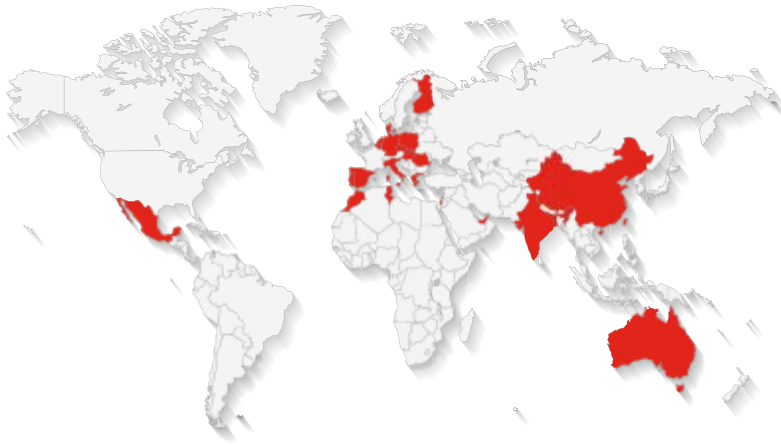
Nowadays, there must be a sense of great responsibility

towards society and the environment. They are convinced that the only way to be successful in the long term is to take always this factor into account. For this reason, Helion Tools uses natural resources in an efficient way, avoids contaminating and disposes of waste in an adequate manner.

"Each obstacle is a new challenge that encourages us to keep growing as we remain in the vanguard of state-of-the-art technologies, changing automation processes and the passion that keeps as all together for the mechanization sector...let's move forward together!" Josep Ma. Molins Pujol - President



AUSTRALIA / BELGIUM / CHINA / CZECH REPUBLIC / DENMARK / FINLAND / FRANCE / GREECE / HUNGARY
/ INDIA / ISRAEL / ITALY / MEXICO / MOROCCO / NETHERLANDS / POLAND / PORTUGAL / ROMANIA /
SLOVAKIA / SLOVENIA / SPAIN / TUNISIA / UNITED ARAB EMIRATES



Production facility located in Manresa – Spain, a wholly-owned cutting tools production site at full capacity to serve both nationally and to another 23 countries. *Planta de producción en Manresa – España, una producción propia de herramientas a pleno rendimiento en diferentes sectores industriales del país y una red de distribuidores con presencia en 23 países.*

Ofrece soluciones y acompaña a sus colaboradores en el proceso. Desde su fundación en el año 1952, ha crecido continuamente con la actitud de su filosofía de negocio: “Trabajamos para su éxito”. El triunfo de sus clientes es lo mejor que les puede pasar.

Especialistas en la fabricación de herramientas de corte en su segmento principal de fresas, brocas y herramientas de roscar en la planta de producción en Manresa – España, una producción propia de herramientas a pleno rendimiento en diferentes sectores industriales del país y una red de distribuidores con presencia en 23 países.

Herramientas en stock y flexibilidad en la producción que se traduce en la entrega inmediata de las órdenes de pedido. Disponen de medios de producción propios que aseguran un óptimo nivel de servicio y agilidad en el suministro. La marca Helion Tools, es 100% garante de productos desarrollados, probados y comercializados en su fábrica.

Helion Tools es una empresa cercana y convencida que el recurso más importante son las personas,

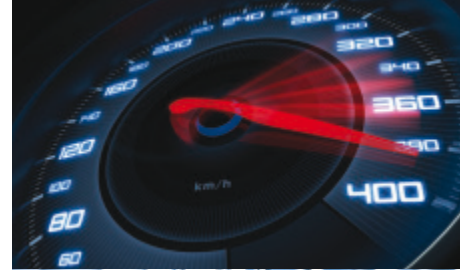
hecho que identifica a su cultura empresarial y les garantiza una sólida base de futuro.

La conducta íntegra tiene para Helion Tools un gran valor, es su compromiso y el de sus colaboradores llevar a cabo una competencia leal en el mercado bajo la premisa de respeto, equidad y proyección de futuro.

Conscientes que hoy más que nunca tienen una gran responsabilidad frente a la sociedad y el medio ambiente al estar convencidos de que el éxito a largo plazo dependerá de ello, de esta manera, disponen de los recursos naturales de forma eficiente, previniendo la contaminación y gestionando los residuos de forma adecuada.

“Cada dificultad es un nuevo reto que nos proyecta a continuar creciendo al mantenernos a la vanguardia de las nuevas tecnologías, crecientes procesos de automatización y la pasión que nos une por el sector del mecanizado... avancemos juntos!”

Josep Ma. Molins Pujol - Presidente



90.6221

BALL NOSE END MILL Z2 · 35°

Fresa esférica de metal duro Z2 · 35°

SC

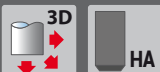
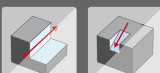
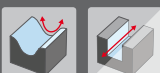
HELIX 35° **RACER**

600 1200 **55**
N/mm² HRC

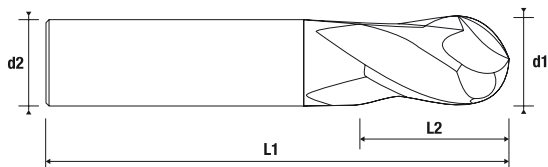
62 **INOX**
HRC

GG(G) **ALU NE**

TITAN INCONEL **UNI**



HSC **HFC**



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



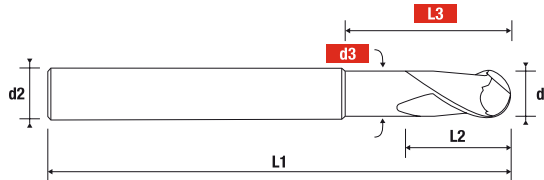
C. CONDITIONS

BALL NOSE END MILL EXTRA LONG Z2 · 30°

Fresa esférica de metal duro extra larga Z2 · 30°

90.6226
82.7220

NEW PRODUCT



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
9062260302	3	3	-	1,5	60	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
9062260500	5	5	-	2,5	80	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

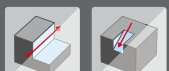
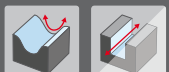
SC

HELIX 30° RACER

600 1200 N/mm² 62 HRC

INOX GG(G)

ALU NE UNI



HSC HHC

HPC

AIR



C. CONDITIONS

90.6702

SQUARE END MILL Z2 · 30°

Fresa plana de metal duro Z2 · 30°

SC

HELIX
30°

RACER

600
1200
N/mm²

55
HRC

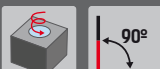
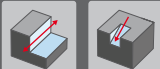
GG(G)

INOX

ALU
NE

NI
ALLOYS

UNI



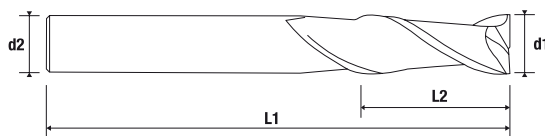
HA

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

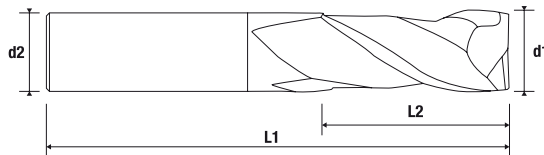


C. CONDITIONS

SQUARE END MILL Z2 · 35°

Fresa plana de metal duro Z2 · 35°

90.6202



Cod.	d1	d2	L1	L2	Z
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



SC

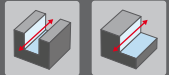
HELIX 35° **RACER**

600 1200 **45**
N/mm² HRC

65 **GG(G)**
HRC

INOX **ALU**
NE

NI **UNI**
ALLOYS

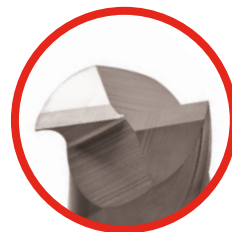


HA **HSC**

HHC

AIR **μ**
MICROTOOLS

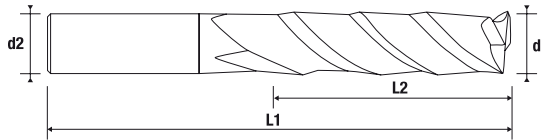
Cod.	d1	d2	L1	L2	Z
9062020650	6,5	8	60	16	2
9062020700	7	8	60	16	2
9062020750	7,5	8	60	16	2
9062020800	8	8	70	20	2
9062020850	8,5	10	70	19	2
9062020900	9	10	70	19	2
9062020950	9,5	10	70	19	2
9062021000	10	10	75	25	2
9062021100	11	12	75	22	2
9062021200	12	12	75	26	2
9062021400	14	14	80	26	2
9062021600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



SQUARE END MILL Z2 LONG · 35°

Fresa plana de 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 **45**
N/mm² HRC

62 **GG(G)**
HRC

INOX **ALU**
NE

NI **UNI**
ALLOYS



HA **HSC**

HHC

AIR



90.6704

SQUARE END MILL Z4 · 30°

Fresa plana de metal duro Z4 · 30°

SC

HELIX
30° RACER

600
1200
N/mm² 55
HRC

INOX GG(G)

ALU
NE TITAN
INCONEL

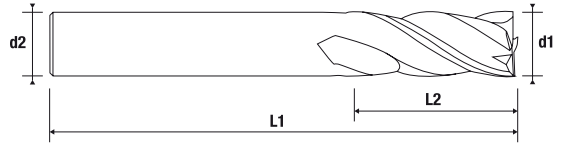
UNI

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

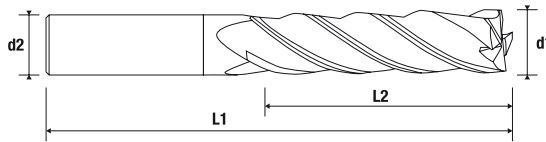


C. CONDITIONS

SQUARE END MILL Z4 · 35°

Fresa plana de 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



C. CONDITIONS

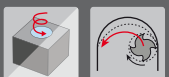
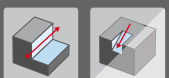
SC

HELIX 35° RACER

600 1200 N/mm² 62 HRC

GG(G) ALU NE

NI ALLOYS UNI



HA HSC

HFC

AIR



A close-up, high-speed photograph of a trochoidal milling operation. The central focus is a circular hole being milled into a metal workpiece. The cutting tool, a multi-fluted end mill, is positioned at the bottom of the hole, creating a series of overlapping, curved metal shavings that form a complex, star-like pattern. The background is a vibrant, multi-colored circular gradient, transitioning from blue and green on the left to yellow and orange on the right, suggesting motion and energy. The overall image has a high-tech, industrial feel.

Trochoidal Spin

The 5th Force

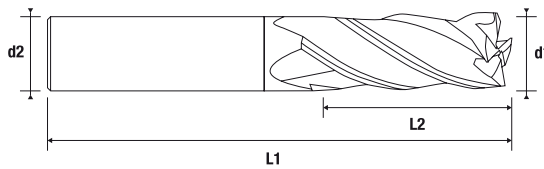
DISCOVER THE POWER OF TROCHOIDAL MILLING

Page 42

SQUARE END MILL Z4 LONG · 35°

Fresa plana de 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



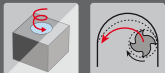
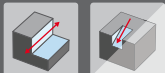
SC

HELIX
35° RACER

600
1200
N/mm² 62
HRC

GG(G) ALU
NE

NI
ALLOYS UNI



HA HSC

HFC

AIR



23
24
The BIG
JUMP
Helion 35



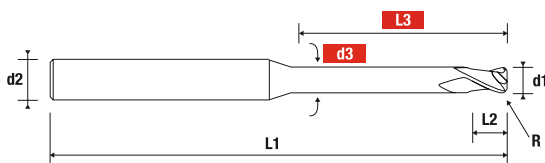
C. CONDITIONS

90.6811

CORNER RADIUS END MILL LONG NECK Z2 · 30°

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

NEW PRODUCT



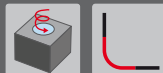
SC

HELIX 30° **RACER**

600 1200
N/mm² **62**
HRC

GG(G) **INOX**

TITAN INCONELL



3D
HA

HSC **HHC**

HPC

AIR



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

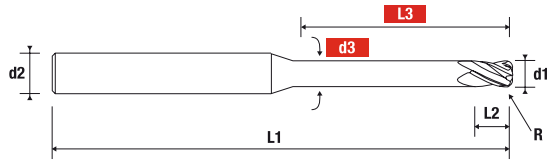


90.6815

CORNER RADIUS END MILL LONG NECK Z4 · 30°

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

NEW PRODUCT



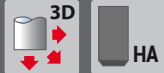
SC

HELIX 30° **RACER**

600 1200 N/mm² **62 HRC**

GG(G) **INOX**

TITAN INCONELL



HSC **HHC**

HPC

AIR



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 de metal duro Z4 · 30°

SC

HELIX
30°

RACER
PLUS

600
1200
N/mm²

62
HRC

GG(G)

INOX

TITAN
INCONELL



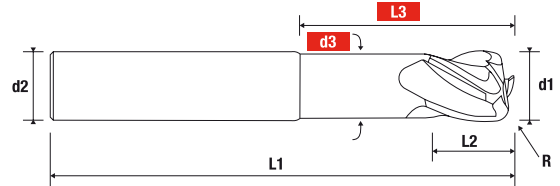
HSC

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



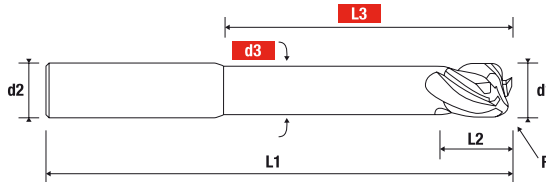
APPLICATION



CORNER RADIUS END MILL LONG Z4 · 30°

Fresa tórica de metal duro larga Z4 · 30°

90.6413



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



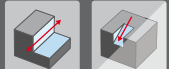
SC

HELIX 30° **RACER PLUS**

600 1200 N/mm² **62 HRC**

GG(G) **INOX**

TITAN INCONELL



HSC **HHC**

HPC

AIR



23 24 The BIG JUMP
Helion

90.5572

TROCHOIDAL END MILL Z5 · 40°

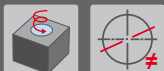
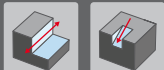
Fresa de metal duro para trocoidal Z5 · 40°

SC

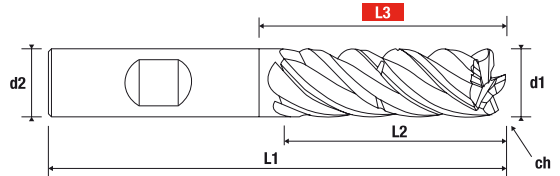
HELIX 40° **RACER PLUS**

55 HRC **INOX**

GG(G) **TITAN INCONELL**



HSC **HPC**



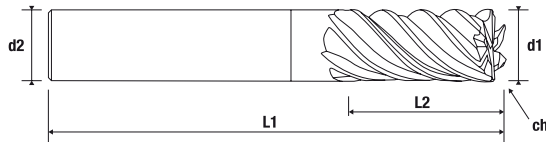
Cod.	d1	d2	L1	L2	L3	Ch	Z
9055720600	6	6	62	18	25	0,10	5
9055720800	8	8	68	24	30	0,15	5
9055721000	10	10	80	30	35	0,20	5
9055721200	12	12	93	36	45	0,20	5
9055721600	16	16	108	48	55	0,30	5
9055722000	20	20	126	60	70	0,40	5



SUPERFINISHING ENDMILL Z5-Z6 · 40°/42°

Fresa de 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



HSC

HPC

HHC



AIR



C. CONDITIONS



ICONOGRAPHY / ICONOGRAFÍA

SC **HSS** **HSS-E** **HSSCO** **M42** **HSS-E-PM** **CBN SOLID** **PM** **TOOL MATERIAL TIPO DE MATERIAL**

m7 **h6** **h7** **H7** **h8** **6HX** **6H** **6G** **2B** **TOLERANCE TOLERANCIA**

HA Without Sin Weldon **HB** With Con Weldon **SHANK DESIGN FORMA DEL MANGO** **1,5XD** **2XD** **3XD** **5XD** **8XD** **10XD** **12XD** **CUTTING DEPTH PROFUNDIDAD DE CORTE**

Full-stot Ranurado **Copy** Copiado **Side Milling** Fresado Lateral **Ramping** Rampa **Interpolation** Interpolación **Trochoidal** Trocoidal **APPLICATION OPERACIÓN**

HSC High Speed Cutting Corte de Gran Avance **HHC** High Hard Cutting Corte de Materiales Templados **HPC** High Performance Cutting Corte de Alto Rendimiento **MULTI TASK** Multi Task Cutter Corte Multi Área

3D 3D Side Trajectory, Ramp and Drilling Trayectoria lateral, rampa y taladrado **2D** 2D Side Trajectory and Ramping Trayectoria lateral y rampa **Axial** Axial Trajectory Trayectoria axial **Side Trajectory** Trayectoria lateral **TRAJECTORY TRAYECTORIA**

VARIABLE HELIX Frontal Unequal Angle Angulo Frontal Desigual **HELIX 30°** **HELIX 35°** **HELIX 40°** **HELIX 42°** **HELIX ANGLE** Ángulo de la Hélice ... **POINT ANGLE** Ángulo de la Punta

90° Cutting Edge Canto Vivo **Toric** Tórica **45°** Chamfer Chafán **Ball Nose** Esférica **Corner Radius** Radio de Canto **EDGE SHAPE FORMA DE LA ARISTA**

MQL Minimum Quantity of Lubricant Micro Lubricación **AIR** Air Cooling Refrigeración por Aire **Dry or With Coolant** Dry or With Coolant Machining Mecanizado en seco con Refrigeración **With Coolant** Con Refrigeración **Without Coolant** Sin Refrigeración **COOLANT REFRIGERACIÓN**

INTERNAL COOLANT REFRIGERACIÓN INTERNA **Blind Hole** Agujero Ciego **Through Hole** Agujero Pasante **HOLE TYPE** TIPO DE AGUJERO **FORM B** P_{x4} **FORM C** P_{x2,5} **FORM D** P_{x3} **FORM E** P_{x1,5} **HEAD SHAPE** FORMA DE PUNTA

HELION NORM NORMA HELION **DIN 13** **DIN 212E** **DIN 327** **DIN 333** **DIN 335** **DIN 338** **DIN 371** **DIN 374** **DIN 376** **DIN 371/376** **ISO NORM** NORMA ISO ...

RACER **RACER PLUS** **VOLCANO** **VOLCANO PLUS** **VOLCANO GOLD** **DEEP BLUE** **SPEED** **SPEED ZR** **DRILLANT** **DSC** **SHARK** **TIN UP** **DIAMOND** **BLACK HVA** **BRIGHT** **COATINGS** RECUBRIMIENTOS

NEW New Product Nuevo Producto **UNI** Universal Application Aplicación Universal **Micro Tools** Micro Herramientas **POLISHED** Pulido **OTHERS PICTOGRAMS** OTROS ICONOS

600 1200 N/mm² **45** HRC **55** HRC **60** HRC **70** HRC **INOX** **GG(G)** **ALU** NE **PLASTIC** **GFK** CFK **BRONZE** **SI ≥ 7%** **TITAN** INCONELL **NI** ALLOYS **GRAPHITE** **MATERIALS** MATERIALES ...

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