



89

HELIHSS

HIGHT PERFORMANCE HSS CUTTING TOOLS

Universal cutter for
efficient machining with HSS

*Cortador universal para
mecanizado eficiente con HSS*

Special geometry for longer tool life

*Geometría especial para
la larga vida de la herramienta*

High removal rate with soft cutting

Alta capacidad de arranque de viruta con corte suave



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.

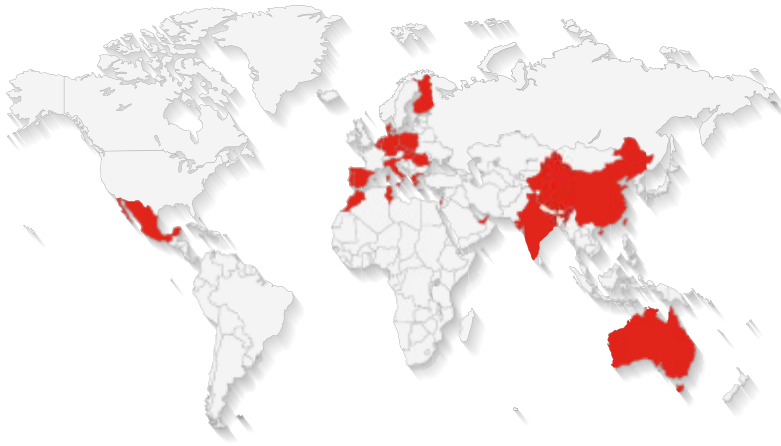
Nowadays, there must be a sense of great responsibility

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 rosca 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



89.0602 89.0604

M42

HELIX
30° BRIGHT

600
1200
N/mm² GG(G)

ALU
NE INOX

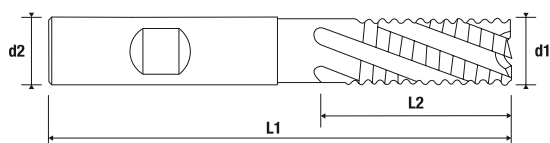
TITAN
INCONEL UNI



ROUGHING END MILL HSS NR · Z4

Fresa frontal de HSS para desbaste NR · Z4

DIN
844K



Cod.	d1	d2	L1	L2	Z
8906020600	6	6	57	13	4
8906020700	7	10	66	16	4
8906020800	8	10	69	19	4
8906020900	9	10	69	19	4
8906021000	10	10	72	22	4
8906021100	11	12	79	22	4
8906021200	12	12	83	26	4
8906021400	14	12	83	26	4
8906021500	15	12	83	26	4
8906021600	16	16	92	32	4
8906021800	18	16	92	32	4
8906022000	20	20	104	38	4
8906022200	22	20	104	38	4
8906022400	24	25	121	45	4

Cod.	d1	d2	L1	L2	Z
8906041000	10	10	95	45	4
8906041200	12	12	110	53	4
8906041400	14	12	110	53	4
8906041600	16	16	123	63	4
8906041800	18	18	123	63	4
8906042000	20	20	141	75	4



C. CONDITIONS
89.0602



C. CONDITIONS
89.0604

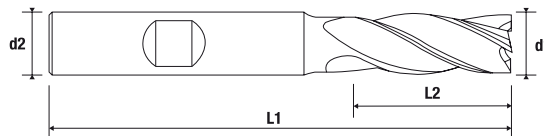


SQUARE END MILL HSS N · Z4 - Z6

Fresa frontal de HSS N · Z4-Z6

89.0402

DIN
844K



Cod.	d1	d2	L1	L2	Z
8904020200	2	6	51	7	4
8904020250	2,5	6	52	8	4
8904020300	3	6	52	8	4
8904020350	3,5	6	54	10	4
8904020400	4	6	55	11	4
8904020450	4,5	6	55	11	4
8904020500	5	6	57	13	4
8904020550	5,5	6	57	13	4
8904020600	6	6	57	13	4
8904020650	6,5	10	66	16	4
8904020700	7	10	66	16	4
8904020750	7,5	10	66	16	4
8904020800	8	10	69	19	4
8904020850	8,5	10	69	19	4
8904020900	9	10	69	19	4
8904020950	9,5	10	69	19	4



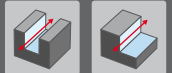
M42

HELIX
30° BRIGHT

600
1200
N/mm² GG(G)

INOX ALU
NE

TITAN
INCONEL UNI



23
24
The BIG
JUMP
Helion 127

Cod.	d1	d2	L1	L2	Z
8904021000	10	10	72	22	4
8904021100	11	12	79	22	4
8904021200	12	12	83	26	4
8904021300	13	12	83	26	4
8904021400	14	12	83	26	4
8904021500	15	12	83	26	4
8904021600	16	16	92	32	4
8904021800	18	16	92	32	4
8904022000	20	20	104	38	4
8904022200	22	20	104	38	4
8904022400	24	25	121	45	6
8904022500	25	25	121	45	6
8904022600	26	25	121	45	6
8904022800	28	25	121	45	6
8904023000	30	25	121	45	6
8904023200	32	32	133	53	6

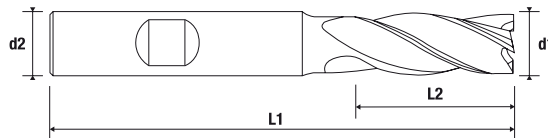


SQUARE END MILL HSS LONG N · Z4-Z6

Fresa frontal de HSS larga N · Z4-Z6

89.0404

DIN
844L



Cod.	d1	d2	L1	L2	Z
8904040300	3	6	56	12	4
8904040400	4	6	63	19	4
8904040500	5	6	68	24	4
8904040600	6	6	68	24	4
8904040700	7	10	80	30	4
8904040800	8	10	88	38	4
8904040900	9	10	88	38	4
8904041000	10	10	95	45	4
8904041100	11	12	102	45	4
8904041200	12	12	110	53	4
8904041400	14	12	110	53	4
8904041500	15	12	110	53	4
8904041600	16	16	123	63	4
8904041800	18	16	123	63	4
8904042000	20	20	141	75	4
8904042500	25	25	166	90	6
8904042800	28	25	166	90	6
8904043000	30	25	166	90	6
8904043200	32	32	186	106	6
8904043600	36	32	186	106	6
8904044000	40	40	217	125	6

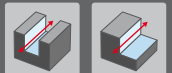
M42

HELIX
30° BRIGHT

600
1200
N/mm² GG(G)

INOX ALU
NE

TITAN
INCONEL UNI



C. CONDITIONS

89.0202

SQUARE END MILL HSS N · Z2

Fresa frontal de HSS N · Z2

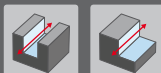
M42

HELIX
30° BRIGHT

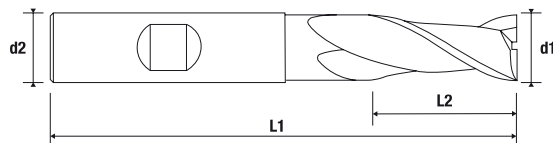
600
1200
N/mm² GG(G)

INOX ALU
NE

TITAN
INCONEL UNI



DIN
844K



Cod.	d1	d2	L1	L2	Z
8902020300	3	6	52	8	2
8902020350	3,5	6	54	10	2
8902020400	4	6	55	11	2
8902020450	4,5	6	55	11	2
8902020500	5	6	57	13	2
8902020550	5,5	6	57	13	2
8902020600	6	6	57	13	2
8902020700	7	10	66	16	2
8902020800	8	10	69	19	2
8902021000	10	10	72	22	2
8902021100	11	12	79	22	2
8902021200	12	12	83	26	2
8902021300	13	12	83	26	2
8902021400	14	12	83	26	2
8902021500	15	12	83	26	2
8902021600	16	16	92	32	2
8902021800	18	16	92	32	2
8902022000	20	20	104	38	2



C. CONDITIONS

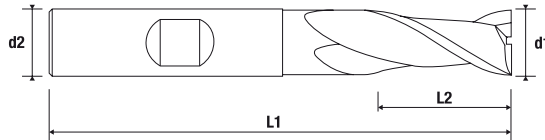


SQUARE END MILL HSS LONG N · Z2

Fresa frontal de HSS larga N · Z2

89.0204

**DIN
844L**



Cod.	d1	d2	L1	L2	Z
8902040300	3	6	56	12	2
8902040400	4	6	63	19	2
8902040500	5	6	68	24	2
8902040600	6	6	68	24	2
8902040800	8	10	88	38	2
8902041000	10	10	95	45	2
8902041200	12	12	110	53	2
8902041400	14	12	110	53	2
8902041600	16	16	123	63	2
8902041800	18	16	123	63	2
8902042000	20	20	141	75	2



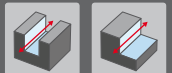
M42

**HELIX
30°** **BRIGHT**

**600
1200
N/mm²** **GG(G)**

INOX **ALU
NE**

**TITAN
INCONEL** **UNI**



C. CONDITIONS



89.0302

SQUARE END MILL HSS N · Z3

Fresa frontal de HSS N · Z3

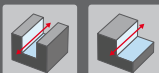
M42

HELIX
30° BRIGHT

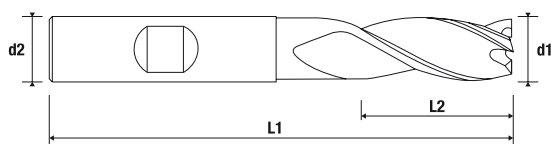
600
1200
N/mm² GG(G)

INOX ALU
NE

TITAN
INCONEL UNI



DIN
844K



Cod.	d1	Tol. d1	d2	L1	L2	Z
8903020280	2,80	h10	6	52	8	3
8903020300	3,00	e8	6	52	8	3
8903020380	3,80	h10	6	55	11	3
8903020400	4,00	e8	6	55	11	3
8903020480	4,80	h10	6	57	13	3
8903020500	5,00	e8	6	57	13	3
8903020575	5,75	h10	6	57	13	3
8903020600	6,00	e8	6	57	13	3
8903020675	6,75	h10	10	66	16	3
8903020700	7,00	e8	10	66	16	3
8903020775	7,75	h10	10	69	19	3
8903020800	8,00	e8	10	69	19	3
8903020900	9,00	h10	10	69	19	3
8903020970	9,70	h10	10	72	22	3
8903021000	10,00	e8	10	72	22	3
8903021100	11,00	h10	12	79	22	3
8903021170	11,70	h10	12	79	22	3
8903021200	12,00	e8	12	83	26	3
8903021370	13,70	h10	12	83	26	3
8903021400	14,00	e8	12	83	26	3
8903021500	15,00	h10	12	83	26	3
8903021570	15,70	h10	16	92	32	3
8903021600	16,00	e8	16	92	32	3
8903021800	18,00	e8	16	92	32	3
8903022000	20,00	e8	20	104	38	3



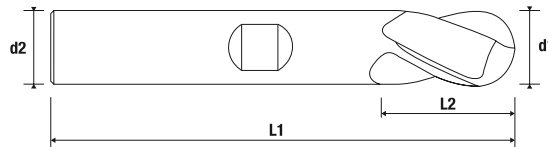
C. CONDITIONS



BALL NOSE END MILL HSS N Z2

Fresa esférica de HSS N · Z2

89.0221



Cod.	d1	d2	L1	L2	Z
8902210200	2	6	48	4	2
8902210300	3	6	49	5	2
8902210400	4	6	51	7	2
8902210500	5	6	52	8	2
8902210600	6	6	52	8	2
8902210700	7	10	60	10	2
8902210800	8	10	61	11	2
8902210900	9	10	61	11	2
8902211000	10	10	63	13	2
8902211200	12	12	73	16	2
8902211300	13	12	73	16	2
8902211400	14	12	73	16	2
8902211500	15	12	73	16	2
8902211600	16	16	79	19	2
8902211800	18	16	79	19	2
8902211900	19	16	79	19	2
8902212000	20	20	88	22	2

M42

HELIX 30°	BRIGHT
600 1200 N/mm²	GG(G)
INOX	ALU NE
TITAN INCONEL	UNI
HB	



G. CONDITIONS

89.0223

BALL NOSE END MILL HSS N · Z2 LONG

Fresa esférica de HSS larga N · Z2

M42

HELIX
30° BRIGHT

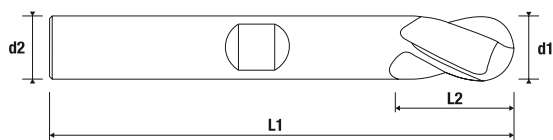
600
1200
N/mm² GG(G)

INOX ALU
NE

TITAN
INCONEL UNI



DIN
844K



Cod.	d1	d2	L1	L2	Z
8902230300	3	6	56	8	2
8902230400	4	6	63	11	2
8902230500	5	6	68	13	2
8902230600	6	6	68	13	2
8902230700	7	10	80	16	2
8902230800	8	10	88	19	2
8902231000	10	10	95	22	2
8902231200	12	12	110	26	2
8902231400	14	12	110	26	2
8902231500	15	12	110	26	2
8902231600	16	16	123	32	2
8902231800	18	16	123	32	2
8902232000	20	20	141	38	2



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**

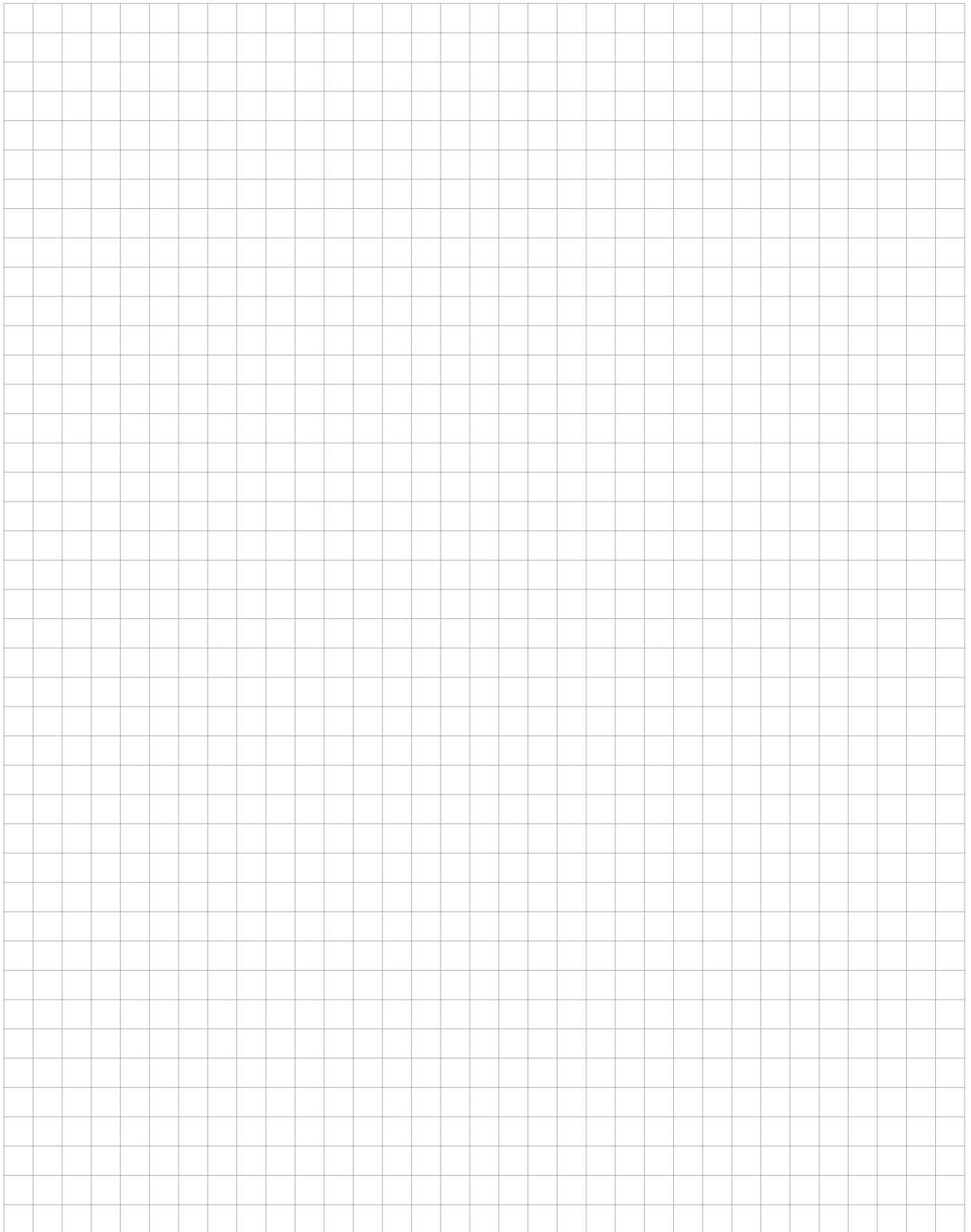
INTERNAL COOLANT REFRIGERACIÓN INTERNA **Blind Hole** Agujero Ciego **Through Hole** Agujero Pasante **HOLE TYPE TIPO DE AGUJERO** **FORM B** P_{x4} **FORM C** P_{x2,5} **FORM D** P_{x3} **FORM E** P_{x1,5} **HEAD SHAPE FORMA DE PUNTA**

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 RECURBIMIENTOS**

NEW New Product Nuevo Producto **UNI** Universal Application Aplicación Universal **Micro Tools** Micro Herramientas **POLISHED** 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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**WORKING
FOR YOUR
SUCCESS
SINCE 1952**

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