

PRODUCT LIST G8.0

WORKING FOR YOUR SUCCESS



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.

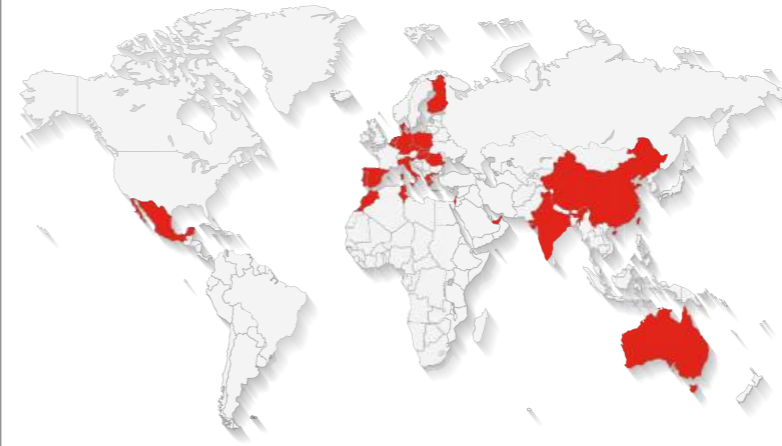
Helion Tools is a relationship-driven company. In its opinion, the most important resource is people. This is remarked and identifies its business culture while guaranteeing a solid foundation for its future.

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 mantenemos 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 - President



Quality, Innovation and Service for a Higher Performance Production

Calidad, Innovación y servicio para una producción con mayor rendimiento

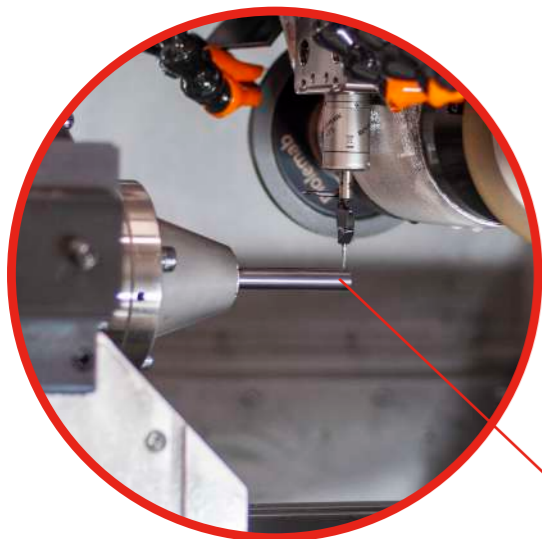
- ✓ High quality raw material
Materia prima de alta calidad
- ✓ Latest technology applied to our coatings
Última tecnología en recubrimientos.
- ✓ Maximum performance with optimized geometries
Rendimiento máximo con geometrías optimizadas.
- ✓ High-precision manufacturing and quality control with state-of-the-art 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.



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.*



MILL LINE

90 HELIRUN

UNIVERSAL APPLICATION
APLICACIÓN UNIVERSAL

- * 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



91 HELITOP

EXOTIC MATERIALS HIGH ALLOYED STEELS
MATERIALES EXÓTICOS Y ACEROS DE ALTA ALEACIÓN

- * Latest coating technology
Última tecnología en recubrimiento
- * Improved geometry
Geometría mejorada
- * Heat resistance configuration
Configuración de resistencia al calor



92 HELIMOTION

STEELS UP TO 70 HRC
ACEROS HASTA 70 HRC

- * High alloyed steels and hardened materials
Aceros aleados y materiales templados
- * High speed cutting
Alta velocidad de corte
- * Super micro substrate
Super micro sustrato
- * Higher accurate dimensional tolerance
Tolerancia dimensional de mayor precisión



93 HELIHARD

SUPER HARD WITH CBN
MATERIALES TEMPLADOS CON CBN

- * Materials up to 75 HRC
Materiales hasta 75 HRC
- * High speed cutting in HHC
Alta velocidad de corte en mat. templados (HHC)
- * Sharp dimensional tolerance
Tolerancia dimensional muy precisa
- * Very good surface quality
Óptima calidad superficial



94 HELIALU

ALLUMINIUM AND NON FERROUS IN HSC
ALUMINIO Y MAT. NO FÉRRICOS EN HSC

- * High speed cutting
Corte de alta velocidad
- * Improved capacity of chip removal rate
Mejora en la capacidad de arranque de viruta
- * Coating with lower friction coefficient
Recubrimiento con menor coeficiente de fricción
- * Aggressive cutting edge
Filo de corte agresivo



96 HELIDIAMOND

ABRASSIVE MATERIALS
MATERIALES ABRASIVOS

- * Diamond coating (CVD)
Recubrimiento con diamante (CVD)
- * High resistance and performance in front of abrasive materials
Alta resistencia y rendimiento frente a materiales abrasivos



MULTI LINE

SELECTION OF TOOLS FOR WIDE RANGE SOLUTIONS
SELECCIÓN DE HERRAMIENTAS PARA UNA AMPLIA GAMA DE SOLUCIONES



INCH LINE

SOLID CARBIDE END MILL INCH SIZES
FRESAS DE METAL DURO CON MEDIDAS EN PULGADAS



89 HELIHSS

HIGH PERFORMANCE HSS CUTTING TOOLS
HERRAMIENTAS DE CORTE HSS DE ALTO RENDIMIENTO

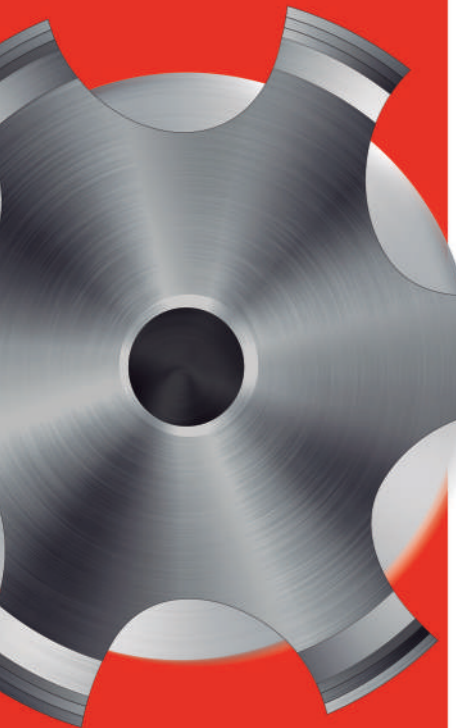
- * Universal cutter for efficient machining with HSS
Cortador universal para mecanizado eficiente con HSS
- * Special geometry for longer tool life
Geometría especial para la larga vida de la herramienta
- * High removal rate with soft cutting
Alta capacidad de arranque de viruta con corte suave



DRILL LINE



THREAD LINE



SCDRILLS

**SOLID CARBIDE TOP
PERFORMANCE DRILLS**
*BROCAS DE ALTO RENDIMIENTO
DE METAL DURO*



HSSDRILLS

**HSS DRILLS FOR
UNIVERSAL PORPOUSE**
*BROCAS DE HSS PARA USO
UNIVERSAL*



THREADINGMILL

**HIGH PRODUCTIVITY AND
SAFE OPERATION**
*ALTA PRODUCTIVIDAD Y
OPERACIÓN SEGURA*



FORMINGTAP

TOP SPEED THREADING
*ROSCADO DE MÁXIMA
VELOCIDAD*



HSS TAP

**HIGH PERFORMANCE
CUTTING TAPS**
*MACHOS DE CORTE DE ALTO
RENDIMIENTO*



SC TAPS

**MACHINE TAPS FOR
HARDENED STEELS**
*MACHOS DE MÁQUINA DE METAL
DURO PARA ACEROS TEMPLADOS*



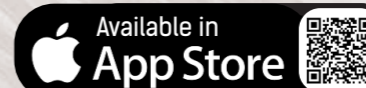
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MILL LINE INDEX

Índice de fresado

Code.	Picture	Description	Ø Range (mm)	Helix angle	Coat.	HRC			Stainless M	Cast Iron K	Non Ferrous N	Graphite	Super Alloy S	Pulvimetalurgic PM	HSC	HHC	HPC	Full Slot	Side Milling	Copy	Interpolation	Ramping	Trochoidal
						600 1200 N/mm²	HRC 45	62 70 75							High Speed Cutting	High Hard Cutting	High Performance Cutting						
90.6221		BALL NOSE Z2	0,5 - 12	35°	RACER	●	●	○	●	●	○	○	○	●	○	●	○	○	○	○	○	○	○
90.6226		BALL NOSE EXTRA LONG Z2	2 - 16	30°	RACER	●	●	●	●	●	○	○	○	●	●	●	○	○	●	○	○	○	○
82.7220		BALL NOSE EXTRA LONG Z2	6 - 12	30°	RACER	●	●	●	●	●	○	○	○	●	●	●	○	○	●	○	○	○	○
90.6702		SQUARE Z2	1 - 12	30°	RACER	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
90.6202		SQUARE Z2	0,1 - 20	35°	RACER	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
90.6204		SQUARE LONG Z2	3 - 16	35°	RACER	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
90.6704		SQUARE Z4	3 - 12	30°	RACER	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
90.6402		SQUARE Z4	1 - 20	35°	RACER	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	●
90.6404		SQUARE LONG Z4	4 - 20	35°	RACER	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
90.6811		CORNER RADIUS LONG NECK Z2	0,5 - 6	30°	RACER	●	●	●	●	●	○	○	○	●	●	●	○	●	○	○	○	○	○
90.6815		CORNER RADIUS LONG NECK Z4	1 - 6	30°	RACER	●	●	●	●	●	○	○	○	●	●	●	○	●	○	○	○	○	○
90.6412		CORNER RADIUS Z4	2 - 16	30°	RACER PLUS	●	●	●	●	●	○	○	○	●	●	●	●	●	○	○	○	○	●
90.6413		CORNER RADIUS LONG Z4	6 - 16	30°	RACER PLUS	●	●	●	●	●	○	○	○	●	●	●	●	●	○	○	○	○	○
90.5572		TROCHOIDAL Z5	6 - 20	40°	RACER PLUS	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	●
90.6572		SUPER FINISHING Z5 -Z6	3 - 20	40° - 42°	RACER PLUS	●	●	●	○	○	○	○	○	●	○	○	●	●	○	○	○	○	○
91.6424		BALL NOSE Z4	6 - 12	42°	VOLCANO	●	●	○	○	●	○	○	○	●	○	○	○	○	○	○	○	○	○
91.6302		SQUARE END MILL Z3	1 - 12	42°	VOLCANO	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
91.1479		SQUARE END MILL Z4	3 - 20	35° - 38°	VOLCANO	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○
91.5479		SQUARE END MILL Z4	3 - 20	40°	VOLCANO PLUS	●	●	○	○	●	○	○	○	●	○	○	●	●	○	○	○	○	○

HELI RUN

HELITOP

● First choice ○ Suitable

MILL LINE INDEX

Índice de fresado

Code.	Picture	Description	Ø Range (mm)	Helix angle	Coat.	HRC			Stainless M	Cast Iron K	Non Ferrous N	Graphite	Super Alloy S	Pulvimetalurgic PM	HSC	HHC	HPC	Full Slot	Side Milling	Copy	Interpolation	Ramping	Trochoidal
						600 1200 N/mm²	HRC 45	62 70 75							High Speed Cutting	High Hard Cutting	High Performance Cutting						
91.4472		SQUARE END MILL Z4	6 - 20	45°	VOLCANO GOLD	●	●		●	●				●		●	●						●
91.6410		CORNER RADIUS Z4	4 - 12	42°	VOLCANO	●	●		●	○				●		●	●						●
91.6614		ROUGHING END MILL Z4 - Z5	5 - 20	42°	VOLCANO	●	●		●	○	○			●		●	●			●		●	●
91.6505		MULTIFLUTES EXTRA LONG Z4 - Z6	3 - 32	45°	VOLCANO PLUS	●	●	●	●	○				●	●	●	●					●	○
92.6228		BALL NOSE TAPER NECK Z2	1 - 12	30°	DEEP BLUE	●	●	●	○	○				●	●	●						●	
92.6220		BALL NOSE Z2	0,5 - 12	30°	DEEP BLUE	○	●	●	○	○				●	●	●						●	
92.6224		BALL NOSE LONG Z2	1 - 12	30°	DEEP BLUE	○	●	●	○	○				●	●	●						●	
82.6228		BALL NOSE TAPER NECK Z2	1,5 - 12	30°	RACER PLUS	○	●	●		○				●	●	●						●	
82.6227		BALL NOSE TAPER NECK Z2	1 - 4	30°	RACER PLUS	○	●	●		○				●	●	●						●	
82.6229		BALL NOSE TAPER NECK Z2	2 - 4	30°	RACER PLUS	○	●	●		○				●	●	●						●	
92.6823		BALL NOSE LONG NECK Z2	0,1 - 5	30°	DEEP BLUE	○	●	●		○				●	●	●						●	
92.7534		BARREL CONICAL MILL Z6	4 - 8	30°	DEEP BLUE	●	●	●	●	●	●	●		●	●	●						●	
92.6403		SQUARE END MILL Z4	1 - 16	45°	DEEP BLUE	○	●	●		○				●	●	●	○	●			○	●	○
82.6217		CORNER RADIUS TAPER NECK Z2	1 - 12	30°	RACER PLUS	○	●	●		○				●	●	●	○	●			○	●	
92.6813		CORNER RADIUS LONG NECK Z2	0,2 - 6	30°	DEEP BLUE	○	●	●		○				●	●	●	○	●			○	●	
92.6415		CORNER RADIUS Z4	3 - 12	30°	DEEP BLUE	○	●	●		○				●	●	●	●	●			○	○	○
92.6783		HIGH FEED END MILL Z4 - Z6	3 - 16	30°	DEEP BLUE	●	●	●		○				●	●	●	●	●			●	●	○
92.6505		FINISHING END MILL Z6 - Z8	3 - 25	45°	DEEP BLUE	○	●	●		○				●	●	●							●
93.1824		CBN BALL NOSE Z2	1 - 6	30°	CBN SOLID			●						●	●	●						○	●
93.1810		CBN CORNER RADIUS Z2	1 - 6	30°	CBN SOLID			●						●	●	●	●	●					●

● First choice ○ Suitable

MILL LINE INDEX

Índice de fresado

Code.	Picture	Description	Ø Range (mm)	Helix angle	Coat.	600 1200 N/mm²	HRC 45	HRC			Stainless M	Cast Iron K	Non Ferrous N	Graphite	Super Alloy S	Pulvimetalurgic PM	HSC	HHC	HPC	Full Slot	Side Milling	Copy	Interpolation	Ramping	Trochoidal
								High Speed Cutting	High Hard Cutting	High Performance Cutting															
94.3223		BALL NOSE END MILL Z2	1 - 12	45°	SPEED																				
94.0100		SQUARE END MILL Z1	3 - 12	30°	BRIGHT																				
94.0201		SQUARE END MILL Z2	3 - 20	45°	BRIGHT																				
94.3203		SQUARE END MILL Z2	3 - 20	45°	SPEED ZR																				
94.3302		SQUARE END MILL Z3	3 - 25	43° - 47°	SPEED ZR																				
94.3409		SQUARE END MILL Z4	3 - 20	43° - 47°	SPEED ZR																				
94.3213		CORNER RADIUS Z2	1 - 12	45°	SPEED																				
94.3535		END MILL FINISHING Z6	6 - 20	45°	SPEED ZR																				
96.8822		BALL NOSE END MILL DIAMOND Z2	0,2 - 12	30°	DIAMOND																				
96.8814		CORNER RADIUS END MILL DIAMOND Z2	0,2 - 6	30°	DIAMOND																				
96.8415		CORNER RADIUS END MILL DIAMOND Z4	2 - 12	30°	DIAMOND																				
70.6480		SC QUADRANT ROUND MILL Z4	R 0,2 - 10	-	RACER																				
70.6045		TWIN DEBURRING TOOL 90° Z4	2 - 16	-	RACER																			Ch 45°	
70.6160		END MILL GRAVER 60° Z1	3 - 6	30°	RACER																				
90.6460		DEBURRING TOOL 60° Z4- Z6	4 - 20	-	RACER PLUS																			Ch 60°	
90.6490		DEBURRING TOOL 90° Z3-Z6	1- 20	-	RACER PLUS																			Ch 90°	
85.0050		SLITTING SAW FINE PITCH DIN 1837 A	15 - 200	-	BRIGHT																				
85.0051		SLITTING SAW COARSE PITCH DIN 1838 B	15 - 200	-	BRIGHT																				

● First choice ○ Suitable

MILL LINE INDEX

Índice de fresado

Code.	Picture	Description	Ø Range (mm)	Helix angle	Coat.	600 1200 N/mm ²	HRC 45	HRC			Stainless M	Cast Iron K	Non Ferrous N	Graphite G	Super Alloy S	Pulvmetalurgic PM	HSC	HHC	HPC	Full Slot	Side Milling	Copy	Interpolation	Ramping	Trochoidal
								High Speed Cutting	High Hard Cutting	High Performance Cutting															
80.7421F		NEW BALL NOSE END MILL Z2	1/16 - 5/8	35°	RACER PLUS	●	●	○		●	●	○	○	○		●	○	○	○	○	○	○	○	○	
80.7202F		NEW SQUARE END MILL Z2	1/16 - 5/8	35°	RACER PLUS	●	●	○		○	●	○	○	○		●	○	○	●	●	○	○	○	○	
84.0303F		NEW SQUARE END MILL ALU Z3	1/8 - 5/8	45°	BRIGHT							●				●			●	●		●	●		
84.3202F		NEW SQUARE END MILL HIGH FEED HELIX ALU Z2	1/4 - 5/8	45°	SPEED ZR							●				●			●	●		●	●		
91.7414F		NEW SQUARE CORNER RADIO Z4	1/4 - 5/8	30°	RACER PLUS	●	●			●	○			●		●			●	●				●	
80.7402F		NEW SQUARE END MILL Z4	1/16 - 5/8	35°	RACER PLUS	●	●	○			●	○		○		●	○	○	○	●		○	○	●	
91.7404F		NEW VARIABLE HELIX END MILL Z4	1/4 - 5/8	35° - 38°	RACER PLUS	●	●			●	●			○		●			●	●		○	○	●	
89.0602		ROUGHING END MILL HSS NR Z4	6 - 24	30°	BRIGHT	●				○	●	○		○					●	●					
89.0604		ROUGHING END MILL HSS NR Z4	10 - 20	30°	BRIGHT	●				○	●	○		○					●	●					
89.0402		SQUARE END MILL HSS N Z4 - Z6	2 - 32	30°	BRIGHT	●				○	●	○		○					●	●					
89.0404		SQUARE END MILL HSS N Z4 - Z6 LONG	3 - 40	30°	BRIGHT	●				○	●	○		○					●	●					
89.0202		SQUARE END MILL HSS N Z2	3 - 20	30°	BRIGHT	●				○	●	○		○					●	●					
89.0204		SQUARE END MILL HSS N Z2 LONG	3 - 20	30°	BRIGHT	●				○	●	○		○					●	●					
89.0302		SQUARE END MILL HSS N Z3	2,8 - 20	30°	BRIGHT	●				○	●	○		○					●	●					
89.0221		BALL NOSE END MILL HSS N Z2	2 - 20	30°	BRIGHT	●				○	●	○		○							●				
89.0223		BALL NOSE END MILL HSS N Z2 LONG	3 - 20	30°	BRIGHT	●				○	●	○		○							●				

● First choice ○ Suitable

DRILL LINE INDEX

Índice de brocas

Code.	Picture	Description	Ø Range (mm)	Front Angle	LxD	Norm	Shank Design	Coat.	Internal Coolant	Tolerance	600 1200 N/mm²	HRC	Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S	UNI	HSC	HHC	HPC
																	Universal	High Speed Cutting	High Hard Cutting	High Performance Cutting
60.6003		DRILL 3XD	3 - 20	140°	3xD	DIN 6537K	HA	DRILLANT		m7	●	55	●	●	○	○	●	●		●
60.6005		DRILL 5XD	3 - 20	140°	5xD	DIN 6537L	HA	DRILLANT		m7	●	55	●	●	○	○	●	●		●
60.6803		DRILL 3XD INTERNAL COOLANT	3 - 20	140°	3xD	DIN 6537L	HA	DRILLANT	●	m7	●	55	●	●	○	○	●	●		●
60.6805		DRILL 5XD INTERNAL COOLANT	3 - 20	140°	5xD	DIN 6537L	HA	DRILLANT	●	m7	●	55	●	●	○	○	●	●		●
60.6808		DRILL 8XD INTERNAL COOLANT	3 - 20	140°	8xD	HELION	HA	DRILLANT	●	m7	●	55	●	●	○	○	●	●		●
60.6812		DRILL 12XD INTERNAL COOLANT	3 - 20	135°	12xD	HELION	HA	DRILLANT	●	h7	●	55	●	●	○	○	●	●		●
62.0010		SOLID CARBIDE TAP DESTROYING TOOL	M3 - M20	-	-	HELION	HA	TIN Up		-		65					●			
62.6000		SOLID CARBIDE SPECIAL DRILL	2,6 - 14,10	-	3xD	DIN 6537K	HA	RACER		-		55 - 65							●	●
67.6885		SOLID CARBIDE DRILL REAMER 5XD	5,98 - 20	140°	5xD	HELION	HA	RACER	●	D1 (H7)	●	55	●	●		○	●		●	●
11.1360		HSSCO DRILL DIN 1897	1 - 14	118°	-	DIN 1897	HA	TIN Up		h8	●		●	●	○	○	●			●
11.2360		HSSCO DRILL DIN 338	1 - 14	118°	-	DIN 338	HA	TIN Up		h8	●		●	●	○	○	●			●
10.2000		HSS DRILL DIN 338	1 - 16	118°	-	DIN 338	HA	BLACK HVA		h8	●		○	●	○	○	●			●
12.2105		HSS DRILL DIN 338	1 - 13	118°	-	DIN 338	HA	TIN Up		h8	●		○	●	○	○	●			●
10.5690		HSSCO SPOTTING DRILL · NC 90°	3 - 20	90°	-	HELION	HB	RACER		h6	●		●	●	●	●	●		●	●
10.5612		HSSCO SPOTTING DRILL · NC 120°	3 - 20	120°	-	HELION	HB	RACER		h6	●		●	●	●	●	●		●	●
10.5510		HSS CENTER DRILL	0,5 - 12,5	118°	-	HELION	HA	BRIGHT		-	●		●	●	●	●	●		●	●
10.5514		HSS CENTER DRILL XTRA LONG	2 - 3,15	118°	-	HELION	HA	BRIGHT		-	●		●	●	●	●	●		●	●
BOX SC4200		NEW BOX SOLID CARBIDE TDS UNISSET	40.1060 M4-12 60.6005 Ø3,3 - 10,2 21.2300 Ø6,3 y 16,5				HA	SC HSS-E HSS									●			
BOX HS4100		NEW BOX HSS TDS UNISSET	40.1060 M3-10 12.2105 Ø2,5 - 8,5 21.0300 Ø6,3 y 12,4				HA	HSS HSS-E									●			

● First choice ○ Suitable

THREAD LINE INDEX

Índice de machos

Code.	Picture	Description	Form	Thread Style	Range	Coat.	Tolerance	Through Hole	Blind Hole	Norm	600 1200 N/mm ²	HRC		Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting
												42-54	48-63							
4990		SC MICRO THREAD MILL R10° 2XD	-	M	2 - 12	RACER	-	●	●	HELION	●	●	●	●	○	●	●	●	●	●
4991		SC THREAD MILL R9° - R10° 2XD	-	M MF	4 - 16 8 - 16	RACER	-	●	●	HELION	●	●	●	●	○	●	●	●	●	●
48.7010		FORMING TAP HSS-E	C	M	3 - 10	TIN Up	6HX	●	●	DIN 2174	●	●	●	●	○	●	●	●	●	●
48.7016		FORMING TAP HSS-E	C	M	12 - 20	TIN Up	6HX	●	●	DIN 2174	●	●	●	●	○	●	●	●	●	●
40.1040		UNIVERSAL MACHINE TAP HSS-E	B	M	3 - 10	BLACK HVA	6H	●	●	DIN 371	●	●	●	●	○	●	●	●	●	●
40.1046		UNIVERSAL MACHINE TAP HSS-E	B	M	12 - 20	BLACK HVA	6H	●	●	DIN 371	●	●	●	●	○	●	●	●	●	●
40.1640		UNIVERSAL MACHINE TAP HSS-E TOLERANCE 6G	B	M	3 - 10	BLACK HVA	6G	●	●	DIN 371	●	●	●	●	○	●	●	●	●	●
40.1140		UNIVERSAL MACHINE TAP HSS-E	B	MF	4 - 20	BLACK HVA	6H	●	●	DIN 376	●	●	●	●	○	●	●	●	●	●
40.1240		UNIVERSAL MACHINE TAP HSS-E	B	GAS BSP	1/8 - 1"	BLACK HVA	-	●	●	DIN 5156	●	●	●	●	○	●	●	●	●	●
40.1340		UNIVERSAL MACHINE TAP HSS-E	B	UNF SAE	4 - 5/8	BLACK HVA	2B	●	●	DIN 374	●	●	●	●	○	●	●	●	●	●
40.1440		UNIVERSAL MACHINE TAP HSS-E	B	UNC	4 - 3/8	BLACK HVA	2B	●	●	DIN 371/376	●	●	●	●	○	●	●	●	●	●
40.1446		UNIVERSAL MACHINE TAP HSS-E	B	UNC	7/16 - 3/4	BLACK HVA	2B	●	●	DIN 371/376	●	●	●	●	○	●	●	●	●	●
41.6040		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	B	M	2 - 10	TIN Up	6H	●	●	DIN 371	●	●	●	○	●	●	●	●	●	●
41.6046		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	B	M	12 - 20	TIN Up	6H	●	●	DIN 371	●	●	●	○	●	●	●	●	●	●
45.5040		HIGH PERFORMANCE MACHINE TAP HSS-E	B	M	2 - 10	DSC	6HX	●	●	DIN 371	●	●	●	○	●	●	●	●	●	●
45.5046		HIGH PERFORMANCE MACHINE TAP HSS-E	B	M	12 - 30	DSC	6HX	●	●	DIN 376	●	●	●	○	●	●	●	●	●	●
45.5144		HIGH PERFORMANCE MACHINE TAP HSS-E	B	MF	6 - 24	DSC	6HX	●	●	DIN 374	●	●	●	○	●	●	●	●	●	●
45.5245		HIGH PERFORMANCE MACHINE TAP HSS-E	B	GAS BSP	1/16 - 1"	DSC	-	●	●	DIN 5156	○	●	○	○	○	●	●	●	●	●
44.0040		MACHINE TAP FOR ALUMINIUM HSS-E	B	M	3 - 10	BRIGHT	6H	●	●	DIN 371	●	●	●	●	○	●	●	●	●	●

● First choice ○ Suitable

THREAD LINE INDEX












Índice de machos

Code.	Picture	Description	Form	Thread Style	Range	Coat.	Tolerance	Through Hole	Blind Hole	Norm	600 1200 N/mm ²	HRC		Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S	HSC	HHC	HPC
												42-54	48-63					High Speed Cutting	High Hard Cutting	High Performance Cutting
44.0046		MACHINE TAP FOR ALUMINIUM HSS-E	B	M	12 - 20	BRIGHT	6H	●		DIN 376						●				●
43.2810		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	C	M	5 - 10	SHARK	6HX	●	●	DIN 376	●				●	○				●
43.2816		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	C	M	10 - 14	SHARK	6HX	●	●	DIN 371	●				●	○				●
43.2117		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	C	MF	5 - 16	SHARK	6HX	●	●	DIN 374	●				●	○				●
46.4040		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	B	M	3 - 10	SHARK	6HX	●		DIN 371			○				●			●
46.4046		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	B	M	12 - 16	SHARK	6HX	●		DIN 376			○				●			●
43.2010		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	D	M	3 - 16	SHARK	6HX	●	●	DIN 371/376		●							●	●
47.9010		SC MACHINE TAP HARDENED STEELS	D	M	3 - 16	SHARK	6H	●	●	DIN 371		○	●						●	●
40.1060		UNIVERSAL MACHINE TAP HSS-E	C	M	3 - 10	BLACK HVA	6H	○	●	DIN 371	●			●	●	○				
40.1066		UNIVERSAL MACHINE TAP HSS-E	C	M	12 - 24	BLACK HVA	6H	○	●	DIN 376	●			●	●	○				
40.1050		UNIVERSAL MACHINE TAP HSS-E	E	M	3 - 10	BLACK HVA	6H	○	●	DIN 371	●			●	●	○				
40.1660		UNIVERSAL MACHINE TAP HSS-E TOLERANCE 6G	C	M	3 - 10	BLACK HVA	6G	○	●	DIN 371	●			●	●	○				
40.1160		UNIVERSAL MACHINE TAP HSS-E	C	MF	4 - 20	BLACK HVA	6H	○	●	DIN 374	●			●	●	○				
40.1260		UNIVERSAL MACHINE TAP HSS-E	C	GAS BSP	1/8 - 1"	BLACK HVA	-	○	●	DIN 5156	●			●	●	○				
40.1360		UNIVERSAL MACHINE TAP HSS-E	C	UNF SAE	4 - 5/8	BLACK HVA	2B	○	●	DIN 374	●			●	●	○				
40.1460		UNIVERSAL MACHINE TAP HSS-E	C	UNC	4 - 3/8	BLACK HVA	2B	○	●	DIN 371/376	●			●	●	○				
40.1466		UNIVERSAL MACHINE TAP HSS-E	C	UNC	7/16 - 3/4	BLACK HVA	2B	○	●	DIN 371/376	●			●	●	○				
40.7068		UNIVERSAL MACHINE TAP LONG HSS-E	C	M	3 - 20	TIN UP	6HX	○	●	HELION	●			●	●					
40.7060		UNIVERSAL MACHINE TAP HSS-E	C	M	2 - 10	TIN UP	6H	○	●	DIN 371	●			●	●					

● First choice ○ Suitable

THREAD LINE INDEX





Índice de machos

Code.	Picture	Description	Form	Thread Style	Range	Coat.	Tolerance	Through Hole	Blind Hole	Norm	600 1200 N/mm ²	HRC		Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting
												42-54	48-63							
40.7066		UNIVERSAL MACHINE TAP HSS-E	C	M	12 - 24	TIN Up	6HX	○	●	DIN 376	●		●	●						
41.6050		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	C	M	3 - 10	TIN Up	6H	○	●	DIN 371	●		●	●						
41.6056		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	C	M	12 - 20	TIN Up	6H	○	●	DIN 371	●		●	●						
45.4060		HIGH PERFORMANCE MACHINE TAP HSS-E	C	M	2 - 10	RACER	6HX	○	●	DIN 371	○		●	○	○	○		●		●
45.4066		HIGH PERFORMANCE MACHINE TAP HSS-E	C	M	12 - 30	RACER	6HX	○	●	DIN 376	○		●	○	○	○		●		●
45.4164		HIGH PERFORMANCE MACHINE TAP HSS-E	C	MF	6 - 24	RACER	6HX	○	●	DIN 374	○		●	○	○	○		●		●
45.3265		HIGH PERFORMANCE MACHINE TAP HSS-E	C	GAS BSP	1/16 - 1"	RACER	6HX	○	●	DIN 5156	○		●	○	○	○		●		●
44.0060		MACHINE TAP FOR ALUMINIUM HSS-E	C	M	3 - 10	BRIGHT	6H	○	●	DIN 371					●					
44.0066		MACHINE TAP FOR ALUMINIUM HSS-E	C	M	12 - 20	BRIGHT	6H	○	●	DIN 376					●					
46.4070		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	C	M	3 - 10	SHARK	6HX	○	●	DIN 371			○			●				●
46.4076		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	C	M	12 - 16	SHARK	6HX	○	●	DIN 376			○			●				●

● First choice ○ Suitable







REAM LINE INDEX

Índice de escariadores

	Code.	Picture	Description	Ø Range (mm)	Tol.	Tech.	Shape	Coat.	600 1200 N/mm ²	HRC 55	Stainless M	Cast Iron K	Non Ferrous N
SC	28.1202		SOLID CARBIDE CNC MACHINE REAMER	03 - 12	H7	UNI	45°	BRIGHT	●	●	○	●	○
	29.1502		SOLID CARBIDE CNC MACHINE REAMER	0,98 12,05	-	UNI	45°	BRIGHT	●	●	○	●	○
HSS	25.0200		HSS-E CNC MACHINE REAMER	3,80 - 20	H7	UNI	45°	BRIGHT	●	○	○	●	○
	25.1500		MACHINE REAMER GAMMON HSS	4 - 20	H7	UNI	45°	BRIGHT	●	○	○	●	●

COUNT LINE INDEX

Índice de avellanadores

	Code.	Picture	Description	Ø Range (mm)	Point angle	Coat.	600 1200 N/mm ²	Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S
SC	20.6390	 NEW	HIGH PERFORMANCE COUNTERSINK 90° SC	4,3 - 25	90°	RACER	●	●	●	○	○
HSS	21.0300		COUNTERSINKER 90° HSS	6,30 - 31	90°	BRIGHT	●	●	●	●	○
	21.2300		COUNTERSINKER 90° HSS	6,30 - 31	90°	RACER	●	●	●	○	●
	21.7100		COUNTERSINKER 180° FINE GUIDE TOL. HSS	M3 - M12	180°	TIN UP	●	●	●	○	●
	BOX 2100		SET BOX 6 PCS. COUNTERSINK 90° HSS	6,30 - 8,30 10,40 - 12,40 16,50 - 20,50	90°	BRIGHT	●	●	●	●	○
	BOX 2123		SET BOX 6 PCS. COUNTERSINK 90° HSS	6,30 - 8,30 10,40 - 12,40 16,50 - 20,50	90°	RACER	●	●	●	○	●

● First choice ○ Suitable

Implementing safety processes for perfect PRODUCTION series and QUALITY



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Helion Tools Coatings

Recubrimiento de herramientas Helion Tools

notes · notas



COATING <i>Recubrimiento</i>	HARDNESS <i>Dureza (HV)</i>	FRICTION COEFFICIENT <i>C. Fricción</i>	THICKNESS <i>Espesor (µm)</i>	OXIDATION RESISTANCE <i>T. Oxidación °C</i>	COATING MATERIAL BASIS <i>Base del material de recubrimiento</i>
Racer	3500	0,5	3+ - 1	900°C	TiAlN
Racer Plus	3500	0,4	3+ - 1	1000°C	AlTiN NANO
Volcano	3400	0,4	3+ - 1	1100°	AlCrTiN
Volcano Plus	3700	0,3	4,5+ - 1	1200°C	AlTiN
Volcano Gold	3700	0,3	4,5+ - 1	1200°C	AlTiN / TiN Gold
Deep Blue	3600	0,5	3+ - 1	900°	AlTiN / TiSiN
Speed	2500	0,5	3+ - 1	700°	ZrN
Speed Zr	2900	0,6	2+ - 0,7	950°	AlTiN / ZrN
Drillant	3100	0,5	3,5+ - 0,8	790°C	TiN - TiAlN
TiN UP	2400	0,3	3+ - 0,7	600°C	TiN
DSC	3300	0,3	3+ - 0,6	1100°C	AlTiN / CW2
Shark	3000	0,25	3+ - 0,7	750°C	TiCN
Diamond	10000	-	4+ - 0,5	900°C	Diamond
Bright	Without coating / Sin recubrimiento				
Black HVA	Coating technology: CVD Chemical Vapour Deposition				

SALES TERM

Condiciones de venta

Payment • Pago

Payment shall be made in accordance with terms and conditions notified to the buyer. In case of non-payment / outstanding payment on the agreed date, we will apply the legal delay interest. *El pago se efectuará de conformidad con los términos y condiciones notificadas al comprador. En caso de impago en la fecha acordada, se devengará el interés legal de demora.*

Transfer of property • Reserva de dominio

The property of the goods does not pass to the buyer until it has been fully paid. The Company reserves the right to repossess any goods in which payment is overdue and the buyer shall cooperate in the event of the Company notifying its intentions of repossess the goods. *La propiedad de los bienes no se transmitirá al comprador hasta que se haga efectivo por completo su pago. La Empresa se reserva el derecho de tomar posesión de los bienes respecto de los cuales exista mora en el pago.*

Transport • Transporte

Will be paid by the buyer. *Será a cargo del comprador.*

Return Policy • Política de devolución

The customer will get 5 days from the reception of the goods to inform to HELION TOOLS about any claim of the goods supplied. Passed that period the goods will be considered as accepted by the customer. *El cliente dispondrá de un plazo de 5 días a partir de la recepción del producto para enviar a HELION TOOLS cualquier reclamación en relación con el producto suministrado. Después de ese plazo los productos serán considerados como conformes por el cliente.*

The claim must be done through: - *La reclamación deberá realizarse a través de:*

Logistics Division • Departamento de logística

- logistics@helion-tools.com +34 93 877 08 69

Comercial Division • Departamento comercial

- ventas@helion-tools.com +34 93 877 08 69

Export Division • Departamento exportación

- export@helion-tools.com +34 93 877 08 69

HELION TOOLS is not responsible and reserves the rights to refuse returns if the goods are in bad conditions due to improper use or transport damages. *Helion Tools no se hace responsable y se reserva el derecho de rechazar posibles devoluciones en caso de mercancía en mal estado por uso indebido o daños de transporte.*

*** Material will only be accepted in the following case:** - *Solo se aceptará devolución de material en los siguientes casos:*

a) The return of non-defective goods, as a rule, will not be accepted. However, in special situations and as an exception, the return will be accepted with previous conformity of HELION TOOLS and always with prior check of the goods. In these cases, there will be a surcharge of 15% applied of the value of the goods as management and administration expenses.

The transportation costs will be at the customer's expense. *La devolución de mercancía no defectuosa como norma no se acepta. Aun así, en casos especiales y como excepción se acepta la devolución, pero siempre con la previa aprobación de HT, y la posterior confirmación una vez recibida la mercancía de que reúne los requisitos exigidos. En estos casos de devolución se aplicará un recargo por gastos de gestión y administración del 15% del valor de la mercancía. Los gastos de transporte irán a cargo del comprador.*

b) Defective material at the moment of reception of goods: If the material is defective from origin, it must be informed to Helion Tools and once a return number is assigned, it will be dispatched to HELION TOOLS with its original packaging. No returns will be accepted without the comply of these specifications: original packaging and unused material. *Material defectuoso al momento de la recepción de este: Si el material está defectuoso de origen, se deberá realizar la comunicación a HT, y una vez asignado el nº de devolución, el producto será enviado a HT con su embalaje original. No se aceptarán devoluciones que no cumplan estos requisitos: embalaje original y sin usar.*

*** All the returns must go together with the invoice or delivery note.** *Toda devolución debe ir acompañada de la factura o albarán de compra.*

Delivery • Entrega

Once the purchase order is received we proceed with the production process to supply the order in the shortest time possible. Then we will not accept cancellations or modifications in purchase orders of special tools manufactured according with the specifications of the customer. *Una vez recibido un pedido, procedemos a la ejecución de este en el plazo más breve posible y a partir de ese momento no se aceptarán cancelaciones ni modificaciones de un pedido que contenga herramientas especiales o fabricadas por petición del cliente.*

Warranty • Garantía

The warranty of all our products will be established by HELION TOOLS. There is no warranty for products manipulated or modified. The responsibility of HELION TOOLS is limited just to the cost amount of the product and is not liable of neither damages and their consequences, nor losses due to lost profit of the buyer. *La garantía de todos nuestros productos será la establecida por HT. No existe garantía de los productos que hayan sido manipulados o modificados. La responsabilidad de HT queda en todo caso limitada al importe del producto y no se hace responsable de daños y sus consecuencias, ni de pérdidas por lucro cesante del comprador.*

Jurisdiction • Jurisdicción

In case of dispute the Customer will be subject to the jurisdiction of the courts of Manresa – Barcelona – Spain. *En caso de litigio, el cliente estará sujeto a la jurisdicción de los tribunales de Manresa – Barcelona – España.*

YOUR CUSTOMER NUMBER | SU NÚMERO DE CLIENTE

ORDERS | PEDIDOS

EShop | *Tienda en línea*

www.helion.tools/shop

APP IOS / APP ANDROID

Phone | *Teléfono* +34 93 877 08 69

Email: ventas@helion-tools.com

export@helion-tools.com

DELIVERY CONDITIONS FOR PRODUCTS IN STOCK OUTSIDE SPAIN

For deliveries outside Spain, shipping costs will be charged taking into account the weight. Cost derived from customs and tariffs aren't included.

For European deliveries, these are shipped either within 24-48 hours by Express Shipment or 3-4 days by Standard Delivery. For the rest of the world, goods are delivered in 3 days by Express Shipment.

Helion Tools has established a Business Relationship with the transport company UPS for international shipments. However, there exists the possibility that customer organizes the shipment with the company of his/her choice when selecting the "To be agreed" option when purchasing through our e-shop.

DELIVERIES WITHIN SPAIN

Available products that are purchased through our e-shop within labor days and only before 17.30h, will be delivered the next labor day.

RETURN DELIVERIES – CLAIMS

At the end of this printed catalogue and in our webpage, you will be able to find the corresponding information. We appreciate that in cases of claims, use solely our models for a proper and correct incident handling. If the reason for returning all or part of an order is not due to an error on the part of Helion Tools, 15% of the total import will be charged. In case of special manufactured product, right of return will be excluded.

CUSTOMER SERVICES | SERVICIO AL CLIENTE

Phone | *Teléfono* +34 93 877 08 69

Email: info@helion-tools.com

TECHNICAL QUESTIONS | CONSULTA TÉCNICA

Phone | *Teléfono* +34 93 877 08 69

Email: technical@helion-tools.com

CONDICIONES DE ENTREGA PARA PRODUCTOS EN STOCK FUERA DE ESPAÑA

En el caso de envíos al extranjero los portes se facturarán teniendo en cuenta el peso y no se incluyen costos asociados al pago de aranceles.

En Europa las entregas se realizan en 24 – 48hr mediante envío exprés o 3 – 4 días envío estándar. Para el resto del mundo la entrega se realiza en 3 días mediante envío exprés.

Helion Tools dispone de un acuerdo con la empresa de transportes UPS para los envíos internacionales, no obstante, es posible que el cliente se haga cargo del envío con su empresa de confianza al seleccionar "To be agree" al finalizar la orden de compra en la tienda online.

ENVÍOS DENTRO DE ESPAÑA

Los productos disponibles que se solicitan a través de nuestra tienda online en días laborables y antes de las 17:30hr se entregarán al día siguiente laborable.

DEVOLUCIONES – RECLAMACIONES

Al final de este catálogo impreso y en nuestra página web podrá encontrar la información correspondiente. Agradecemos en caso de reclamaciones usar únicamente nuestros modelos para la gestión correcta de la incidencia. Si el motivo de devolución total o parcial de un pedido no es debido a un error por parte de Helion Tools, se cargará el 15% del valor. En caso de fabricación de productos especiales queda excluido el derecho a devolución.



IMPORTANT
INFORMATION FOR
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