

PRODUCT LIST G8.5

WORKING FOR YOUR SUCCESS



WORKING FOR YOUR SUCCESS

Since 1952



HELION TOOLS S.L.U is owned by Molins family with more than 70 years of experience in the machining industry. *HELION TOOLS S.L.U 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 40 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 40 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 40 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 40 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

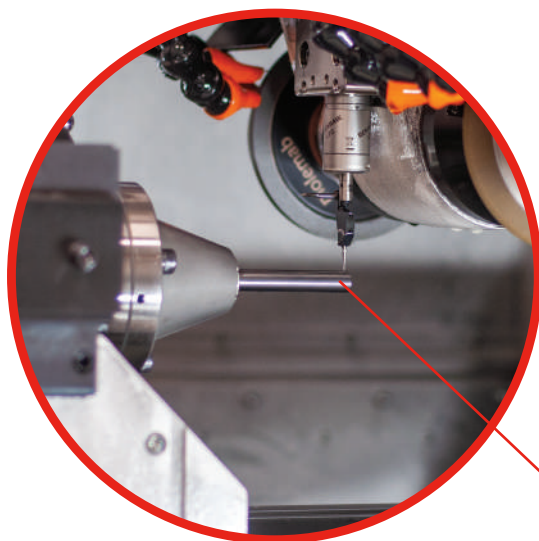




High Quality Tools, high performance and reliability

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.



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



MULTI LINE

SELECTION OF TOOLS FOR WIDE RANGE SOLUTIONS

*SELECCIÓN DE HERRAMIENTAS PARA UNA AMPLIA
GAMA DE SOLUCIONES*



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



INCH LINE

SOLID CARBIDE END MILL INCH SIZES

FRESAS EN METAL DURO CON MEDIDAS EN PULGADAS



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



89 HELIHSS

HIGH PERFORMANCE HSS CUTTING TOOLS

HERRAMIENTAS DE CORTE EN HSS DE ALTO RENDIMIENTO

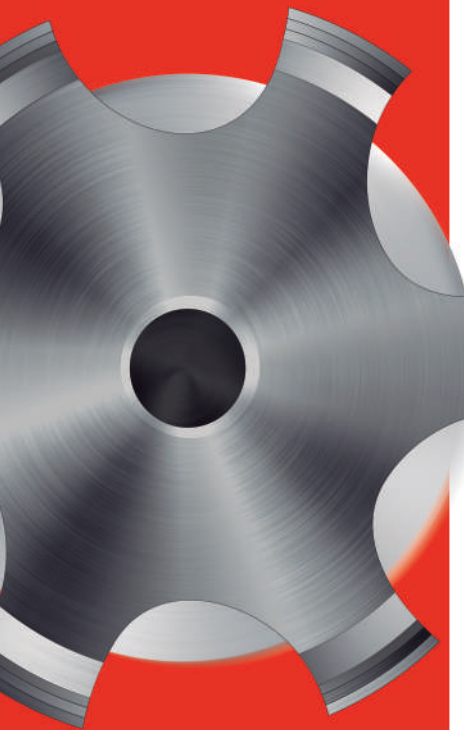
- * Universal cutter for efficient machining with HSS
Cortador universal para mecanizado eficiente con HSS
- * Special geometry for longer tool life
Geometría especial para la larga vida de la herramienta
- * High removal rate with soft cutting
Alta capacidad de arranque de viruta con corte suave



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*



HSTAP

**HIGH PERFORMANCE
CUTTING TAPS**

*MACHOS DE CORTE DE ALTO
RENDIMIENTO*



SCTAPS

**MACHINE TAPS FOR
HARDENED STEELS**

*MACHOS DE MÁQUINA DE METAL
DURO PARA ACEROS TEMPLADOS*



VISIT OUR ONLINE STORE



www.helion.tools/shop



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Available in
App Store



Available in
Google Play



MILL LINE INDEX

Índice de fresado

	Code.	Picture	Description	Page	Ø Range (mm)	Helix angle	Coat.	600	HRC	HRC		
								1200 N/mm²	45	62	70	75
HELI RUN	90.6221		BALL NOSE Z2	26	0,5 - 12	35°	RACER	●	●	○		
	90.6226		BALL NOSE EXTRA LONG Z2	27	2 - 16	30°	RACER	●	●	●		
	82.7220		BALL NOSE EXTRA LONG Z2	27	6 - 12	30°	RACER	●	●	●		
	90.6702		SQUARE Z2	28	1 - 12	30°	RACER	●	●			
	90.6202		SQUARE Z2	29	0,1 - 20	35°	RACER	●	●	○		
	90.6204		SQUARE LONG Z2	31	3 - 16	35°	RACER	●	●	○		
	90.6704		SQUARE Z4	32	3 - 12	30°	RACER	●	●	○		
	90.6402		SQUARE Z4	33	1 - 20	35°	RACER	●	●	○		
	90.6404		SQUARE LONG Z4	35	4 - 20	35°	RACER	●	●	○		
	90.6811		CORNER RADIUS LONG NECK Z2	36	0,5 - 6	30°	RACER	●	●	●		
	90.6815		CORNER RADIUS LONG NECK Z4	38	1 - 6	30°	RACER	●	●	●		
	90.6412		CORNER RADIUS Z4	40	2 - 16	30°	RACER PLUS	●	●	●		
	90.6413		CORNER RADIUS LONG Z4	41	6 - 16	30°	RACER PLUS	●	●	●		
HELITOP	90.5572		TROCHOIDAL Z5	42	6 - 20	40°	RACER PLUS	●	●			
	90.6572		SUPER FINISHING Z5 -Z6	43	3 - 20	40° - 42°	RACER PLUS	●	●	●		
	91.6424		BALL NOSE Z4	46	6 - 12	42°	VOLCANO	●	●			
	91.6302		SQUARE END MILL Z3	47	1 - 12	42°	VOLCANO	●	●			
	91.1479		SQUARE END MILL Z4	48	3 - 20	35° - 38°	VOLCANO	●	●			
	91.5479		SQUARE END MILL Z4	49	3 - 20	40°	VOLCANO PLUS	●	●			

● First choice ○ Suitable

	Stainless M	Cast Iron K	Non Ferrous N	Graphite	Super Alloy S	Pulvermetallurgic PM	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting	Full Slot 	Side Milling 	Copy 	Interpolation 	Ramping 	Trochoidal 
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MILL LINE INDEX

Índice de fresado

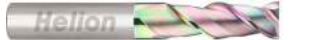
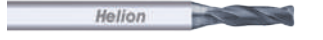
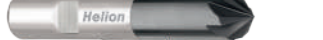
	Code.	Picture	Description	Page	Ø Range (mm)	Helix angle	Coat.	600	HRC	HRC		
								1200 N/mm²	45	62	70	75
HELITOP	91.4472		SQUARE END MILL Z4	50	6 - 20	45°	VOLCANO GOLD	●	●			
	91.6410		CORNER RADIUS Z4	51	4 - 12	42°	VOLCANO	●	●			
	91.6614		ROUGHING END MILL Z4 - Z5	52	5 - 20	42°	VOLCANO	●	●			
	91.6505		MULTIFLUTES EXTRA LONG Z4 - Z6	53	3 - 32	45°	VOLCANO PLUS	●	●	●		
HELIUMOTION	92.6228		BALL NOSE TAPER NECK Z2	56	1 - 12	30°	DEEP BLUE	●	●	●	●	
	92.6220		BALL NOSE Z2	57	0,5 - 12	30°	DEEP BLUE	○	●	●	●	
	92.6224		BALL NOSE LONG Z2	58	1 - 12	30°	DEEP BLUE	○	●	●	●	
	82.6228		BALL NOSE TAPER NECK Z2	59	1,5 - 12	30°	RACER PLUS	○	●	●		
	82.6227		BALL NOSE TAPER NECK Z2	60	1 - 4	30°	RACER PLUS	○	●	●		
	82.6229		BALL NOSE TAPER NECK Z2	61	2 - 4	30°	RACER PLUS	○	●	●		
	92.6823		BALL NOSE LONG NECK Z2	62	0,1 - 5	30°	DEEP BLUE	○	●	●	●	
	92.7534		BARREL CONICAL MILL Z6	65	4 - 8	30°	DEEP BLUE	●	●	●		
	92.6403		SQUARE END MILL Z4	66	1 - 16	45°	DEEP BLUE	○	●	●	●	
	82.6217		CORNER RADIUS TAPER NECK Z2	67	1 - 12	30°	RACER PLUS	○	●	●		
	92.6813		CORNER RADIUS LONG NECK Z2	68	0,2 - 6	30°	DEEP BLUE	○	●	●	●	
	92.6415		CORNER RADIUS Z4	70	3 - 12	30°	DEEP BLUE	○	●	●	●	
	92.6783		HIGH FEED END MILL Z4 - Z6	72	3 - 16	30°	DEEP BLUE	●	●	●	●	
	92.6505		FINISHING END MILL Z6 - Z8	73	3 - 25	45°	DEEP BLUE	○	●	●	●	
HELIHARD	93.1824		CBN BALL NOSE Z2	76	1 - 6	30°	CBN SOLID			●	●	●
	93.1810		CBN CORNER RADIUS Z2	77	1 - 6	30°	CBN SOLID			●	●	●

● First choice ○ Suitable

	Stainless M	Cast Iron K	Non Ferrous N	Graphite	Super Alloy S	Pulvermetallurgic PM	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting	Full Slot 	Side Milling 	Copy 	Interpolation 	Ramping 	Trochoidal 
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MILL LINE INDEX

Índice de fresado

	Code.	Picture	Description	Page	Ø Range (mm)	Helix angle	Coat.	600	HRC	HRC		
								1200 N/mm²	45	62	70	75
HELIALU	94.3223		BALL NOSE END MILL Z2	80	1 - 12	45°	SPEED					
	94.0100		SQUARE END MILL Z1	81	3 - 12	30°	BRIGHT					
	94.0201		SQUARE END MILL Z2	82	3 - 20	45°	BRIGHT					
	94.3203		SQUARE END MILL Z2	83	3 - 20	45°	TaC					
	94.3302		SQUARE END MILL Z3	84	3 - 25	43° - 47°	SPEED ZR					
	94.3409		SQUARE END MILL Z4	85	3 - 20	43° - 47°	SPEED ZR					
	94.3213		CORNER RADIUS Z2	86	1 - 12	45°	SPEED					
	94.3535		END MILL FINISHING Z6	87	6 - 20	45°	SPEED ZR					
HELIDIAMOND	96.8822		BALL NOSE END MILL DIAMOND Z2	90	0,2 - 12	30°	DIAMOND					
	96.8814		CORNER RADIUS END MILL DIAMOND Z2	92	0,2 - 6	30°	DIAMOND					
	96.8415		CORNER RADIUS END MILL DIAMOND Z4	96	2 - 12	30°	DIAMOND					
MULTILINE	70.6480		SC QUADRANT ROUND MILL Z4	100	R 0,2 - 10	-	RACER	●	●	○		
	70.6045		TWIN DEBURRING TOOL 90° Z4	101	2 - 16	-	RACER	●	●	○		
	70.6160		END MILL GRAVER 60° Z1	102	3 - 6	30°	RACER	●	●	○		
	90.6460		DEBURRING TOOL 60° Z4- Z6	103	4 - 20	-	RACER PLUS	●	●	○		
	90.6490		DEBURRING TOOL 90° Z3-Z6	104	1 - 20	-	RACER PLUS	●	●	○		
	85.0050		SLITTING SAW FINE PITCH DIN 1837 A	106	15 - 200	-	BRIGHT	●	●	○		
	85.0051		SLITTING SAW COARSE PITCH DIN 1838 B	110	15 - 200	-	BRIGHT	●	●	○		

● First choice ○ Suitable

	Stainless M	Cast Iron K	Non Ferrous N	Graphite	Super Alloy S	Pulvermetallurgic PM	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting	Full Slot 	Side Milling 	Copy 	Interpolation 	Ramping 	Trochoidal 
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MILL LINE INDEX

Índice de fresado

INCHLINE

Code.	Picture	Description	Page	Ø Range (mm)	Helix angle	Coat.	600	HRC	HRC		
							1200 N/mm²	45	62	70	75
80.7421F		BALL NOSE END MILL Z2	116	1/16 - 5/8	35°	RACER PLUS	●	●	○		
80.7202F		SQUARE END MILL Z2	117	1/16 - 5/8	35°	RACER PLUS	●	●	○		
84.0303F		SQUARE END MILL ALU Z3	118	1/8 - 5/8	45°	BRIGHT					
84.3202F		SQUARE END MILL HIGH FEED HELIX ALU Z2	119	1/4 - 5/8	45°	SPEED ZR					
91.7414F		SQUARE CORNER RADIO Z4	120	1/4 - 5/8	43°-45°	RACER PLUS	●	●			
80.7402F		SQUARE END MILL Z4	121	1/16 - 5/8	35°	RACER PLUS	●	●	○		
91.7404F		VARIABLE HELIX END MILL Z4	122	1/4 - 5/8	35°-38°	RACER PLUS	●	●			
89.0602		ROUGHING END MILL HSS NR Z4	126	6 - 24	30°	BRIGHT	●				
89.0604		ROUGHING END MILL HSS NR Z4	126	10 - 20	30°	BRIGHT	●				
89.0402		SQUARE END MILL HSS N Z4 - Z6	127	2 - 32	30°	BRIGHT	●				
89.0404		SQUARE END MILL HSS N Z4 - Z6 LONG	129	3 - 40	30°	BRIGHT	●				
89.0202		SQUARE END MILL HSS N Z2	130	3 - 20	30°	BRIGHT	●				
89.0204		SQUARE END MILL HSS N Z2 LONG	131	3 - 20	30°	BRIGHT	●				
89.0302		SQUARE END MILL HSS N Z3	132	2,8 - 20	30°	BRIGHT	●				
89.0221		BALL NOSE END MILL HSS N Z2	133	2 - 20	30°	BRIGHT	●				
89.0223		BALL NOSE END MILL HSS N Z2 LONG	134	3 - 20	30°	BRIGHT	●				

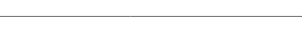
HELIHSS

● First choice ○ Suitable

	Stainless M	Cast Iron K	Non Ferrous N	Graphite G	Super Alloy S	Pulvimetalurgic PM	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting	Full Slot 	Side Milling 	Copy 	Interpolation 	Ramping 	Trochoidal 
	●	●	○		○		●	○		○	○	●	○	○	
	○	●	○		○		●	○		●	●		○	○	
			●				●		●	●			●	●	
			●				●		●	●			●	●	
	●	○			●		●		●	●					●
		●	○		○		●	○		○	●		○	○	●
	●	●			○		●		●	●			○	○	●
	○	●	○		○					●	●				
	○	●	○		○					●	●				
	○	●	○		○					●	●				
	○	●	○		○					●	●				
	○	●	○		○					●	●				
	○	●	○		○					●	●				
	○	●	○		○					●	●				
	○	●	○		○							●			
	○	●	○		○							●			

DRILL LINE INDEX

Índice de brocas

	Code.	Picture	Description	Page	Ø Range (mm)	Front Angle	LxD	Norm	Shank Design
SOLID CARBIDE	60.6003		DRILL 3XD	138	3 - 20	140°	3xD	DIN 6537K	HA
	60.6005		DRILL 5XD	140	3 - 20	140°	5xD	DIN 6537L	HA
	60.6803		DRILL 3XD INTERNAL COOLANT	144	3 - 20	140°	3xD	DIN 6537L	HA
	60.6805		DRILL 5XD INTERNAL COOLANT	146	3 - 20	140°	5xD	DIN 6537L	HA
	60.6808		DRILL 8XD INTERNAL COOLANT	148	3 - 20	140°	8xD	HELION	HA
	60.6812		DRILL 12XD INTERNAL COOLANT	150	3 - 20	135°	12xD	HELION	HA
	62.0010		SOLID CARBIDE TAP DESTROYING TOOL	152	M3 - M20	-	-	HELION	HA
	62.6000		SOLID CARBIDE SPECIAL DRILL	153	2,6 - 14,10	-	3xD	DIN 6537K	HA
	67.6885		SOLID CARBIDE DRILL REAMER 5XD	154	5,98 - 20	140°	5xD	HELION	HA
HSS	11.1360		HSSCO DRILL DIN 1897	155	1 - 14	118°	-	DIN 1897	HA
	11.2360		HSSCO DRILL DIN 338	158	1 - 14	118°	-	DIN 338	HA
	10.2000		HSS DRILL DIN 338	160	1 - 16	118°	-	DIN 338	HA
	12.2105		HSS DRILL DIN 338	162	1 - 13	118°	-	DIN 338	HA
	10.5690		HSSCO SPOTTING DRILL · NC 90°	165	3 - 20	90°	-	HELION	HB
	10.5612		HSSCO SPOTTING DRILL · NC 120°	166	3 - 20	120°	-	HELION	HB
	10.5510		HSS CENTER DRILL	167	0,5 - 12,5	118°	-	HELION	HA
	10.5514		HSS CENTER DRILL EXTRA LONG	168	2 - 3,15	118°	-	HELION	HA
BOX	BOX SC4200		BOX SOLID CARBIDE TDS UNISSET	143	40.1060 M4-12 60.6005 Ø3,3 - 10,2 21.2300 Ø6,3 y 16,5				HA
	BOX HS4100		BOX HSS TDS UNISSET	164	40.1060 M3-10 12.2105 Ø2,5 - 8,5 21.0300 Ø6,3 y 12,4				HA

● First choice ○ Suitable

	Coat.	Internal Coolant	Tolerance	600 1200 N/mm²	HRC	Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S	UNI Universal	HSC High Speed Cutting	HHC High Hard Cutting	HPC High Performance Cutting
	DRILLANT		m7	●	55	●	●	○	○	●	●		●
	DRILLANT		m7	●	55	●	●	○	○	●	●		●
	DRILLANT	●	m7	●	55	●	●	○	○	●	●		●
	DRILLANT	●	m7	●	55	●	●	○	○	●	●		●
	DRILLANT	●	m7	●	55	●	●	○	○	●	●		●
	DRILLANT	●	h7	●	55	●	●	○	○	●	●		●
	TIN Up		-		65					●			
	RACER		-		55 - 65							●	●
	RACER	●	D1 (H7)	●	55	●	●		○	●			●
	TIN Up		h8	●		●	●	○	○	●			●
	TIN Up		h8	●		●	●	○	○	●			
	BLACK HVA		h8	●		○	●	○	○	●			
	TIN Up		h8	●		○	●	○	○	●			
	RACER		h6	●		●	●	●	●	●			
	RACER		h6	●		●	●	●	●	●			
	BRIGHT		-	●		●	●	●	●	●			
	BRIGHT		-	●		●	●	●	●	●			
	SC	HSS-E	HSS							●			
	HSS	HSS-E								●			

THREAD LINE INDEX

Índice de machos

Code.	Picture	Description	Page	Form	Thread Style	Range	Coat.
4990		SC MICRO THREAD MILL R10° 2XD	176	-	M	2 - 12	RACER
4991		SC THREAD MILL R9° - R10° 2XD	177	-	M MF	4 - 16 8 - 16	RACER
48.7010		FORMING TAP HSS-E	180	C	M	3 - 10	TIN Up
48.7016		FORMING TAP HSS-E	181	C	M	12 - 20	TIN Up
40.1040		UNIVERSAL MACHINE TAP HSS-E	182	B	M	3 - 10	BLACK HVA
40.1046		UNIVERSAL MACHINE TAP HSS-E	182	B	M	12 - 20	BLACK HVA
40.1640		UNIVERSAL MACHINE TAP HSS-E TOLERANCE 6G	183	B	M	3 - 10	BLACK HVA
40.1140		UNIVERSAL MACHINE TAP HSS-E	184	B	MF	4 - 20	BLACK HVA
40.1240		UNIVERSAL MACHINE TAP HSS-E	185	B	GAS BSP	1/8 - 1"	BLACK HVA
40.1340		UNIVERSAL MACHINE TAP HSS-E	186	B	UNF SAE	4 - 5/8	BLACK HVA
40.1440		UNIVERSAL MACHINE TAP HSS-E	187	B	UNC	4 - 3/8	BLACK HVA
40.1446		UNIVERSAL MACHINE TAP HSS-E	187	B	UNC	7/16 - 3/4	BLACK HVA
41.6040		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	188	B	M	2 - 10	TIN Up
41.6046		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	189	B	M	12 - 20	TIN Up
45.5040		HIGH PERFORMANCE MACHINE TAP HSS-E	190	B	M	2 - 10	DSC
45.5046		HIGH PERFORMANCE MACHINE TAP HSS-E	191	B	M	12 - 30	DSC
45.5144		HIGH PERFORMANCE MACHINE TAP HSS-E	192	B	MF	6 - 24	DSC
45.5245		HIGH PERFORMANCE MACHINE TAP HSS-E	193	B	GAS BSP	1/16 - 1"	DSC
44.0040		MACHINE TAP FOR ALUMINIUM HSS-E	194	B	M	3 - 10	BRIGHT

● First choice ○ Suitable

Tolerance	Through Hole	Blind Hole	Norm	600 1200 N/mm²	HRC		Stainless	Cast Iron	Non Ferrous	Super Alloy	HSC	HHC	HPC
					42-54	48-63	M	K	N	S	High Speed Cutting	High Hard Cutting	High Performance Cutting
-	●	●	HELION	●	●		●	●	○	●	●	●	●
-	●	●	HELION	●	●		●	●	○	●	●	●	●
6HX	●	●	DIN 2174	●			●	●		○	●		●
6HX	●	●	DIN 2174	●			●	●		○	●		●
6H	●		DIN 371	●			●	●	○				
6H	●		DIN 371	●			●	●	○				
6G	●		DIN 371	●			●	●	○				
6H	●		DIN 376	●			●	●	○				
-	●		DIN 5156	●			●	●	○				
2B	●		DIN 374	●			●	●	○				
2B	●		DIN 371/376	●			●	●	○				
2B	●		DIN 371/376	●			●	●	○				
6H	●		DIN 371	●			●	○			●		●
6H	●		DIN 371	●			●	○			●		●
6HX	●		DIN 371	●			●	○		○	●		●
6HX	●		DIN 376	●			●	○		○	●		●
6HX	●		DIN 374	●			●	○		○	●		●
-	●		DIN 5156	○			●	○	○	○	●		●
6H	●		DIN 371						●		●		●

THREAD LINE INDEX

Índice de machos

Code.	Picture	Description	Page	Form	Thread Style	Range	Coat.
44.0046		MACHINE TAP FOR ALUMINIUM HSS-E	195	B	M	12 - 20	BRIGHT
43.2810		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	196	C	M	5 - 10	SHARK
43.2816		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	196	C	M	10 - 14	SHARK
43.2117		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	197	C	MF	5 - 16	SHARK
46.4040		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	198	B	M	3 - 10	SHARK
46.4046		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	199	B	M	12 - 16	SHARK
43.2010		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	200	D	M	3 - 16	SHARK
47.9010		SC MACHINE TAP HARDENED STEELS	201	D	M	3 - 16	SHARK
40.1060		UNIVERSAL MACHINE TAP HSS-E	202	C	M	3 - 10	BLACK HVA
40.1066		UNIVERSAL MACHINE TAP HSS-E	203	C	M	12 - 24	BLACK HVA
40.1050		UNIVERSAL MACHINE TAP HSS-E	204	E	M	3 - 10	BLACK HVA
40.1660		UNIVERSAL MACHINE TAP HSS-E TOLERANCE 6G	205	C	M	3 - 10	BLACK HVA
40.1160		UNIVERSAL MACHINE TAP HSS-E	206	C	MF	4 - 20	BLACK HVA
40.1260		UNIVERSAL MACHINE TAP HSS-E	207	C	GAS BSP	1/8 - 1"	BLACK HVA
40.1360		UNIVERSAL MACHINE TAP HSS-E	208	C	UNF SAE	4 - 5/8	BLACK HVA
40.1460		UNIVERSAL MACHINE TAP HSS-E	209	C	UNC	4 - 3/8	BLACK HVA
40.1466		UNIVERSAL MACHINE TAP HSS-E	209	C	UNC	7/16 - 3/4	BLACK HVA
40.7068		UNIVERSAL MACHINE TAP LONG HSS-E	210	C	M	3 - 20	TIN Up
40.7060		UNIVERSAL MACHINE TAP HSS-E	212	C	M	2 - 10	TIN Up

● First choice ○ Suitable

Tolerance	Through Hole	Blind Hole	Norm	600 1200 N/mm²	HRC		Stainless	Cast Iron	Non Ferrous	Super Alloy	HSC	HHC	HPC
				42-54	48-63	M	K	N	S	High Speed Cutting	High Hard Cutting	High Performance Cutting	
6H	●		DIN 376					●			●		●
6HX	●	●	DIN 376	●				●	○				●
6HX	●	●	DIN 371	●				●	○				●
6HX	●	●	DIN 374	●				●	○				●
6HX	●		DIN 371				○			●			●
6HX	●		DIN 376				○			●			●
6HX	●	●	DIN 371/376		●							●	●
6H	●	●	DIN 371		○	●						●	●
6H	○	●	DIN 371	●			●	●	○				
6H	○	●	DIN 376	●			●	●	○				
6H	○	●	DIN 371	●			●	●	○				
6G	○	●	DIN 371	●			●	●	○				
6H	○	●	DIN 374	●			●	●	○				
-	○	●	DIN 5156	●			●	●	○				
2B	○	●	DIN 374	●			●	●	○				
2B	○	●	DIN 371/376	●			●	●	○				
2B	○	●	DIN 371/376	●			●	●	○				
6HX	○	●	HELION	●			●	●					
6H	○	●	DIN 371	●			●	●					

THREAD LINE INDEX

Índice de machos

Code.	Picture	Description	Page	Form	Thread Style	Range	Coat.
40.7066		UNIVERSAL MACHINE TAP HSS-E	213	C	M	12 - 24	TIN Up
41.6050		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	214	C	M	3 - 10	TIN Up
41.6056		UNIVERSAL MACHINE TAP PERFORMANCE HSS-E-PM	214	C	M	12 - 20	TIN Up
45.4060		HIGH PERFORMANCE MACHINE TAP HSS-E	215	C	M	2 - 10	RACER
45.4066		HIGH PERFORMANCE MACHINE TAP HSS-E	215	C	M	12 - 30	RACER
45.4164		HIGH PERFORMANCE MACHINE TAP HSS-E	216	C	MF	6 - 24	RACER
45.3265		HIGH PERFORMANCE MACHINE TAP HSS-E	217	C	GAS BSP	1/16 - 1"	RACER
44.0060		MACHINE TAP FOR ALUMINIUM HSS-E	218	C	M	3 - 10	BRIGHT
44.0066		MACHINE TAP FOR ALUMINIUM HSS-E	219	C	M	12 - 20	BRIGHT
46.4070		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	220	C	M	3 - 10	SHARK
46.4076		HIGH PERFORMANCE MACHINE TAP HSS-E-PM	220	C	M	12 - 16	SHARK

● First choice ○ Suitable

Tolerance	Through Hole 	Blind Hole 	Norm	600 1200 N/mm²	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
6HX	○	●	DIN 376	●			●	●					
6H	○	●	DIN 371	●			●	●					
6H	○	●	DIN 371	●			●	●					
6HX	○	●	DIN 371	○			●	○	○	○	●		●
6HX	○	●	DIN 376	○			●	○	○	○	●		●
6HX	○	●	DIN 374	○			●	○	○	○	●		●
6HX	○	●	DIN 5156	○			●	○	○	○	●		●
6H	○	●	DIN 371						●				
6H	○	●	DIN 376						●				
6HX	○	●	DIN 371				○			●			●
6HX	○	●	DIN 376				○			●			●

REAM LINE INDEX

Índice de escariadores

	Code.	Picture	Description	Page	Ø Range (mm)	Tol.	Tech.	Shape	Coat.	600 1200 N/mm²	HRC 55	Stainless M	Cast Iron K	Non Ferrous N
SC	28.1202		SOLID CARBIDE CNC MACHINE REAMER	223	03 - 12	H7	UNI	45°	BRIGHT		●	○	●	○
	29.1502		SOLID CARBIDE CNC MACHINE REAMER	224	0,98 12,05	-	UNI	45°	BRIGHT	●	●	○	●	○
HSS	25.0200		HSS-E CNC MACHINE REAMER	226	3,80 - 20	H7	UNI	45°	BRIGHT	●		○	●	○
	25.1500		MACHINE REAMER GAMMON HSS	228	4 - 20	H7	UNI	45°	BRIGHT	●		○	●	●

COUNT LINE INDEX

Índice de avellanadores

	Code.	Picture	Description	Page	Ø Range (mm)	Point angle	Coat.	600 1200 N/mm²	Stainless M	Cast Iron K	Non Ferrous N	Super Alloy S
SC	20.6390		HIGH PERFORMANCE COUNTERSINK 90° SC	231	4,3 - 25	90°	RACER	●	●	●		
HSS	21.0300		COUNTERSINKER 90° HSS	232	6,30 - 31	90°	BRIGHT	●	●	●	●	
	21.2300		COUNTERSINKER 90° HSS	233	6,30 - 31	90°	RACER	●	●	●	○	●
	21.7100		COUNTERSINKER 180° FINE GUIDE TOL. HSS	234	M3 - M12	180°	TIN UP	●	●	●	○	●
	BOX 2100		SET BOX 6 PCS. COUNTERSINK 90° HSS	235	6,30 - 8,30 10,40 - 12,40 16,50 - 20,50	90°	BRIGHT	●	●	●	●	
	BOX 2123		SET BOX 6 PCS. COUNTERSINK 90° HSS	236	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**

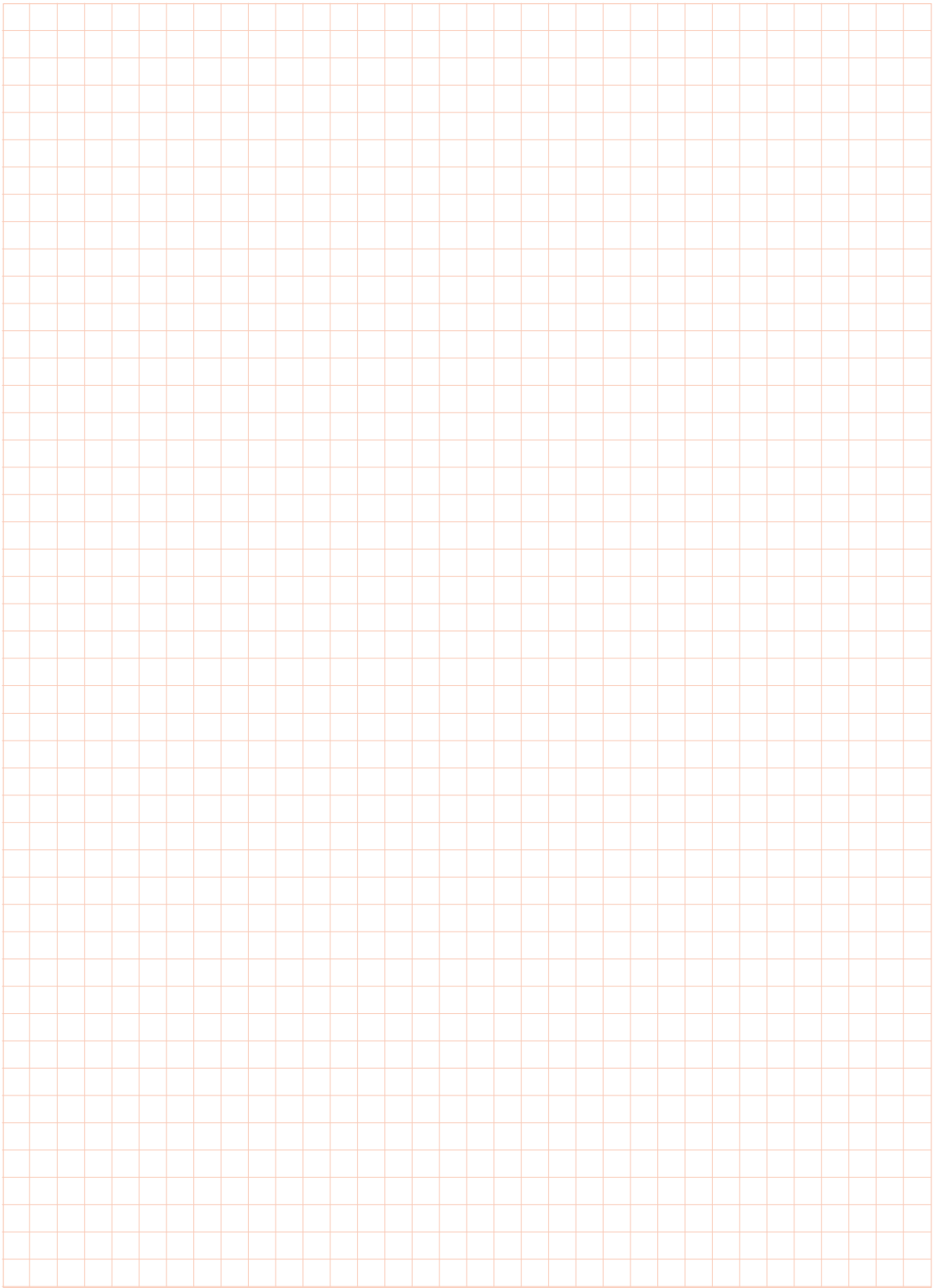


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Helion Tools Coatings

Recubrimiento de herramientas Helion Tools

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
TaC	5000~8000	0.01~0.1	0.3~10	600°C	ta-C
Diamond	10000	-	4+ - 0,5	900°C	Diamond
Bright	Without coating / Sin recubrimiento				
Black HVA	Coating technology: CVD Chemical Vapour Deposition				

A large rectangular area filled with a light red grid pattern, intended for taking notes or drawing.

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 30 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 30 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.*

ORDERS | PEDIDOS

EShop | *Tienda en línea*

www.helion.tools/shop

APP IOS / APP ANDROID

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Phone | *Teléfono* +34 93 877 08 69

Email: info@helion-tools.com

TECHNICAL QUESTIONS | CONSULTA TÉCNICA

Phone | *Teléfono* +34 93 877 08 69

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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.

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 THE MANAGEMENT OF YOUR PURCHASE ORDERS

Información importante para la gestión de sus órdenes de pedido



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