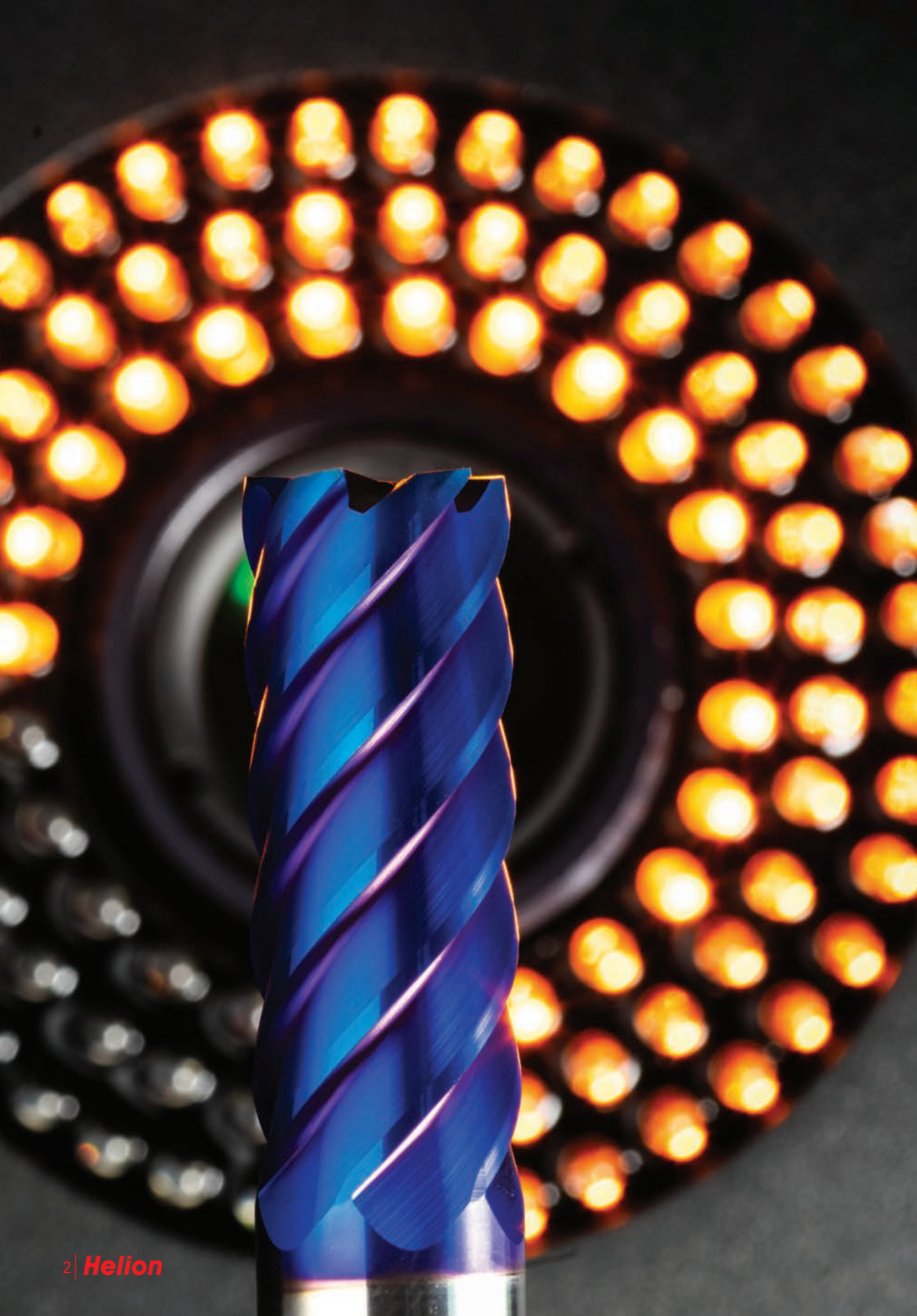


PRODUCT LIST G9





Let's move forward together.

70 Years of engineering excellence

In the world of high-performance machining, trust isn't requested-it is manufactured, micron by micron. From our headquarters in Manresa (Barcelona), Helion Tools has evolved from a family-owned workshop into a global benchmark for the design and production of solid carbide cutting tools.

Our 70-year legacy is more than just history; it is the foundation of our technical expertise. We understand that in mission-critical sectors such as automotive, aerospace, and die & mold making, variability is the greatest threat to profitability.

Uncompromising stability

We don't just sell tools; we provide process security. Our production is governed by a strict total control discipline:

- **Source integrity:** We oversee every stage, from raw material selection to the final specialized coating.
- **Advanced metrology:** We invest in state-of-the-art optical and laser inspection to ensure tolerances that the eye cannot see, but the spindle certainly feels.
- **Batch-to-batch consistency:** We guarantee that the tool you use today will deliver the exact same performance as the one you order tomorrow.

70 Años de ingeniería y precisión

En el mecanizado de alto rendimiento, la confianza no se pide; se fabrica micra a micra. Desde nuestra sede central en Manresa (Barcelona), hemos evolucionado de ser un taller familiar a convertirnos en un referente industrial en el diseño y producción de herramientas de metal duro integral.

Nuestra trayectoria de más de siete décadas no es solo historia; es la base de nuestro know-how. Entendemos que en sectores críticos, como la automoción, la aeronáutica o la matricería, la variabilidad es el mayor enemigo de la rentabilidad.

Compromiso con la estabilidad

No vendemos herramientas genéricas; proveemos seguridad de proceso. Nuestra producción se rige por una disciplina de control total:

- **Siempre desde el origen:** Supervisamos desde la selección de la materia prima hasta el recubrimiento final.
- **Metrología avanzada:** Invertimos en inspección óptica y láser para asegurar tolerancias que el ojo no ve, pero que el husillo siente.
- **Garantía lote a lote:** Nos aseguramos de que la herramienta que usas hoy ofrezca el mismo rendimiento exacto que la que pedirás mañana.



Cutting-edge technology in the heart of Barcelona

Our Barcelona facility is the nerve center where engineering concepts become reality. It is more than just a factory; it is a high-precision ecosystem designed to ensure that every Helion tool meets the most stringent global standards.

Our facility features state-of-the-art technology where automation and human expertise work in perfect synergy to provide a flexible, high-volume production capacity.

Infrastructure designed for excellence

To lead the solid carbide industry, constant technological investment is mandatory.

Our facilities integrate:

Next-generation CNC machining: High-end grinding centers capable of producing complex geometries with superior surface finishes.

Advanced metrology lab: Climate-controlled environments equipped with ultra-precision optical and laser measurement systems, validating every micron before shipment.

Smart coating management: We utilize the most advanced treatment processes to ensure optimal hardness and thermal resistance for every specific application.

Sustainability and operational efficiency: Our plant operates under strict efficiency criteria to minimize environmental impact and maximize resource utilization. From carbide scrap recycling to energy optimization, our facilities reflect our commitment to a responsible and future-proof industry.

Helion Tools: Where European engineering meets absolute precision.



Tecnología de vanguardia en el corazón de Barcelona

Nuestra planta en Barcelona es el centro neurálgico donde la ingeniería se hace realidad. No es solo una fábrica; es un ecosistema de alta precisión diseñado para garantizar que cada herramienta cumpla con los estándares más exigentes del mercado global.

Contamos con instalaciones de última generación donde la automatización y el talento humano trabajan en sintonía para ofrecer una capacidad productiva flexible y de alto volumen.

Infraestructura diseñada para la excelencia

Para liderar la industria del metal duro, la inversión tecnológica constante es obligatoria.

Nuestras instalaciones integran:

Mecanizado CNC de vanguardia: Centros de rectificado de alta gama para geometrías complejas con acabados superficiales inmejorables.

Metrología avanzada: Espacios especialmente climatizados con sistemas de medición óptica y láser, validando cada micra desde el seteo de máquina hasta el envío.

Gestión de recubrimientos: Utilizamos procesos de tratamiento avanzados para asegurar la dureza y resistencia térmica óptima en cada aplicación específica.

Sostenibilidad y eficiencia operativa: Nuestra planta opera bajo criterios de eficiencia para minimizar el impacto ambiental y maximizar recursos. Desde el reciclaje de metal duro hasta la optimización energética, nuestras instalaciones reflejan el compromiso con una industria responsable y de futuro.

Helion Tools: Donde la tecnología europea encuentra la precisión absoluta.

90 SERIES

Universal application

Steels up to 55 HRC

High productivity

*Aplicación universal
Aceros de hasta 55 HRC
Alta productividad*



91 SERIES

Exotic materials & high alloyed steels

Optimized geometry
High heat resistance

*Materiales exóticos y
aceros de alta aleación
Geometría optimizada
Alta resistencia térmica*



92 SERIES

Hardened steels

Steels up to 70 HRC

High speed cutting

*Aceros templados
Aceros de hasta 70 HRC
Alta velocidad de corte*



93 SERIES

Super hard materials

Steels up to 75 HRC

CBN cutting tools

*Materiales templados
Aceros de hasta 75 HRC
Herramientas de CBN*



The right tool for every challenge

La herramienta adecuada para cada reto

Every machining application has its own requirements. That is why we have developed specialized series capable of delivering maximum performance where it matters most.

Cada aplicación de mecanizado presenta requisitos específicos. Por eso hemos desarrollado series especializadas capaces de ofrecer el máximo rendimiento allí donde más importa.

94 SERIES

Aluminium & non Ferrous materials
High chip evacuation
Aggressive cutting edge

*Aluminio y materiales no férricos
Alta evacuación de viruta
Filo de corte agresivo*



96 SERIES

Abrasive materials
Diamond coating (CVD)
High resistance in front of abrasive materials

*Materiales abrasivos
Recubrimiento de diamante (CVD)
Alta resistencia al desgaste en materiales abrasivos*



89 SERIES

HSS M42 end mills for general machining
Ideal for slotting, profiling and conventional milling operations.

*Fresas HSS M42 para mecanizado general
Ideales para operaciones de ranurado, contorneado y fresado convencional.*



ML SERIES

Precision operations
Contouring, chamfering & engraving
Versatile solutions

*Operaciones de precisión
Contorneado, chaflanado y grabado
Soluciones versátiles*



MILL LINE INDEX

Code Código	91.7232	92.7534	94.0100	90.6702	90.6202	90.6204	90.6205	94.0201
								
Page Página	81	104	123	54	55	57	58	124
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	2 - 8	4 - 8	3 - 12	1 - 12	0,1 - 20	3 - 16	3 - 12	3 - 20
Helix Angle Ángulo de Hélice	-	30°	30°	30°	35°	35°	30°	45°
Coating Recubrimiento	Racer Gold	TaC	Bright	Racer Gold	Volcano	Volcano	Racer	Bright
Type Shape Tipo de Forma	Ball	Barrel	Square	Square	Square	Square	Square Extra Long	Square
No. of Flutes Nº de Canales	Z2	Z6	Z1	Z2	Z2	Z2	Z2	Z2
Full-Slot Ranurado			●	●	●	○	○	●
Copy Copiado	●	●						
Side Milling Fresado Lateral			●	●	●	●	●	●
Ramping Rampa			●	●	●			●
Interpolation Interpolación			●	●	●	○	○	●
Trochoidal Trocoidal								
P Carbon Steel	●	●		●	●	●	●	
P High Alloyed Steel	●	●		●	●	●	●	
H HRC 55	●	●		●	●	●	●	
H HRC 62		●						
H HRC 70		●						
H HRC 75								
M Stainless Steel <700N/mm2	○	○		●	●	●	●	
M Stainless Steel >700N/mm2		○		○	○	○	○	
K Cast Iron	●	○		●	●	●	●	
K Nodular Cast Iron		○		●	●	●	●	
N Aluminium			●	○	○	○	○	●
N Copper	●		●	○	○	○	○	●
N Plastics			★	○	○	○	○	★
G Graphite								
G GFK/CFK								
S Titanium Alloy		○						
S NiAlloys		○						

Code Código	90.6221	90.6225	90.6226	90.7220	91.6424	92.6220	92.6224	92.6823
								
Page Página	50	51	52	53	80	96	97	98
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	0,5 - 12	3 - 16	2 - 16	6 - 12	2 - 16	0,5 - 12	1 - 12	0,1 - 5
Helix Angle Ángulo de Hélice	35°	30°	35°	35°	42°	30°	30°	30°
Coating Recubrimiento	Volcano	Racer Plus	Volcano	Racer Gold	Volcano	Deep Blue	Deep Blue	Deep Blue
Type Shape Tipo de Forma	Ball	Ball Extra Long	Ball Extra Long	Ball Long	Ball	Ball	Ball Long	Ball Long Neck
No. of Flutes N° de Canales	Z2	Z2	Z2	Z2	Z4	Z2	Z2	Z2
Full-Slot Ranurado								
Copy Copiado	●	●	●	●	●	●	●	●
Side Milling Fresado Lateral								
Ramping Rampa								
Interpolation Interpolación								
Trochoidal Trocoidal								
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	●	●	●	●	●	●	●	●
H HRC 55	●	●	●	●	●	●	●	●
H HRC 62			●			●	●	●
H HRC 70						★	★	★
H HRC 75								
M Stainless Steel <700N/mm2	●	●	●	●	●			
M Stainless Steel >700N/mm2	○	○	○	○	●			
K Cast Iron	●	●	●	●	●	○	○	○
K Nodular Cast Iron	●	●	●	●	●	○	○	○
N Aluminium	○	○	○	○	○			
N Copper	○	○	○	○	○			
N Plastics	○	○	○	○				
G Graphite								
G GFK/CFK								
S Titanium Alloy					●			
S NiAlloys					●			

★ Best Choice ● First Choice ○ Suitable

MILL LINE INDEX

92.6228	82.6227	82.6228	82.6229	93.1824	94.3223	96.8822	80.7421F	89.0221	89.0223
									
100	101	102	103	116	122	136	172	184	185
SC	SC	SC	SC	CBN	SC	SC	SC	HSS	HSS
1 - 12	1 - 4	1,5 - 12	2 - 4	1 - 6	1 - 12	0,2 - 12	1/16 - 5/8	2 - 20	3 - 20
30°	30°	30°	30°	30°	45°	30°	35°	30°	30°
Deep Blue	Racer Plus	Racer Plus	Racer Plus	CBN Solid	Speed ZR	Diamond	Racer Plus	Bright	Bright
Ball Taper Neck	Ball Taper Neck	Ball Taper Neck	Ball Taper Neck	Ball	Ball	Ball	Ball	Ball	Ball Long
Z2	Z2	Z2	Z2	Z2	Z2	Z2	Z2	Z2	Z2
●	●	●	●	●	●	●	●	●	●
●	●	●	●				●	●	●
●	●	●	●				●	●	●
●	●	●	●	●			●		
●	★	★	★	●			○		
★				●					
				★					
							○	○	○
							○	○	○
○	○	○	○				●	●	●
○	○	○	○				●	●	●
					★		○	●	●
					●		○	●	●
					○		○	○	○
						★			
						●			
							○		

94.3203	80.7202F	84.3202F	89.0202	89.0204	90.6309	91.6302	94.0302	84.0303F	89.0302
									
125	173	174	186	187	59	82	126	175	188
SC	SC	SC	HSS	HSS	SC	SC	SC	SC	HSS
3 - 20	1/16 - 5/8	1/4 - 5/8	3 - 20	3 - 20	1,5 - 9,7	1 - 20	3 - 20	1/8 - 5/8	2,8 - 20
45°	35°	55°	30°	30°	30°	42°	45°	50°	30°
TaC	Racer Plus	Speed ZR	Bright	Bright	Racer Plus	Volcano	Bright	Bright	Bright
Square	Square	Square	Square	Square Long	Square	Square	Square	Square	Square
Z2	Z2	Z2	Z2	Z2	Z3	Z3	Z3	Z3	Z3
●	●	●	●	○	●	●	●	●	●
●	●	●	●	●	●	●	●	●	○
●	●	●			●	○	●	●	○
●	●	●			●	●	●	●	
	●		●	●	●	●			●
	●		●	●	●	●			●
	●				●	●			
	○		○	○	●	●			○
	○		○	○	○	●			○
	●		●	●	●	●			●
	●		●	●	●	○			●
★	○	★	●	●	○	○	★	●	●
●	○	●	●	●	○	○	●	●	●
○	○	●	○	○	○		○	●	○
	○					●			
						●			

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MILL LINE INDEX

Code Código	90.6704	90.6402	90.6404	92.6403	80.7402F	91.7404F	89.0402	89.0404
								
Page Página	60	61	62	105	176	177	189	190
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	HSS	HSS
Ø Range Diámetro (mm)	1 - 12	1 - 20	4 - 20	1 - 16	1/16 - 5/8	1/4 - 5/8	2 - 32	3 - 40
Helix Angle Ángulo de Hélice	30°	35°	35°	45°	35°	43° - 45°	30°	30°
Coating Recubrimiento	Racer Gold	Volcano	Volcano	Deep Blue	Racer Plus	Racer Plus	Bright	Bright
Type Shape Tipo de Forma	Square	Square	Square Long	Square	Square	Square	Square	Square Long
No. of Flutes Nº de Canales	Z4	Z4	Z4	Z4	Z4	Z4	Z4 - Z6	Z4 - Z6
Full-Slot Ranurado	●	●	○	●	●	●	●	○
Copy Copiado								
Side Milling Fresado Lateral	●	●	●	●	●	●	●	●
Ramping Rampa	●	●	○	○	●	●		
Interpolation Interpolación	●	●	●	●	○	●		
Trochoidal Trocoidal	○	○	○	○	○	○		
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	●	●	●	●	●	●	●	●
H HRC 55	●	●	●	●	●	●		
H HRC 62				●				
H HRC 70				★				
H HRC 75								
M Stainless Steel <700N/mm2	●	●	●		●	●	○	○
M Stainless Steel >700N/mm2	○	○	○		○	●	○	○
K Cast Iron	●	●	●	○	●	●	●	●
K Nodular Cast Iron	●	●	●	○	●		●	●
N Aluminium	○	○	○		○	○	●	●
N Copper	○	○	○		○	○	●	●
N Plastics	○	○	○				○	○
G Graphite								
G GFK/CFK								
S Titanium Alloy						●		
S NiAlloys						○		

90.6412	90.6413	90.6218	90.6811	90.6815	91.6410	92.6415	82.6217	92.6813	92.6783
									
63	65	66	67	69	89	107	108	109	111
SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
2 - 16	6 - 16	6 - 20	0,5 - 6	1 - 6	4 - 12	3 - 12	1 - 12	0,2 - 6	3 - 16
30°	30°	30°	30°	30°	42°	30°	30°	30°	30°
Racer Plus	Racer Plus	Racer Plus	Volcano	Volcano	Volcano	Deep Blue	Racer Plus	Deep Blue	Deep Blue
Corner Radius	Corner Radius Long	Corner Radius Extra Long	Corner Radius Long Neck	Corner Radius Long Neck	Corner Radius	Corner Radius	Corner Radius Taper Neck	Corner Radius Long Neck	High Feed
Z4	Z4	Z2	Z2	Z4	Z4	Z4	Z2	Z2	Z4 - Z6
○	○	○	○	○	●	●	○	○	●
●	●	●	●	●	●		●	●	
○	○	○	○	○	●	●		○	
●	●		○	○	○	●			
○	○	○	○	○	●	●			
					○				
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●
●	●		●	●		●	★	●	●
						★		★	★
●	●	●	●	●	●				
○	○	○	○	○	●				
●	●	●	●	●	●	○	○	○	○
●	●	●	●	●	○	○	○	○	○
○	○	○	○	○	○				
○	○	○	○	○	○				
○	○	○	○	○					
					●				
					●				

★ Best Choice

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MILL LINE INDEX

Code Código	93.1810	94.3213	96.8814	96.8415	91.7414F	90.4771	91.1479	91.1480
								
Page Página	117	128	140	145	178	70	83	84
Tool Material M. herramienta	CBN	SC	SC	SC	SC	SC	SC	SC
Ø Range Diámetro (mm)	1 - 6	1 - 12	0,2 - 6	2 - 12	1/4 - 5/8	6 - 16	3 - 20	3 - 20
Helix Angle Ángulo de Hélice	30°	30°	30°	30°	43° - 45°	43° - 45°	35° - 38°	43°-45°-47°
Coating Recubrimiento	CBN Solid	Speed ZR	Diamond	Diamond	Racer Plus	Racer	Volcano	Racer Plus
Type Shape Tipo de Forma	Corner Radius	Corner Radius	Corner Radius	Corner Radius	Corner Radius	Chamfer	Chamfer	Chamfer
No. of Flutes Nº de Canales	Z2	Z2	Z2	Z4	Z4	Z4	Z4	Z4
Full-Slot Ranurado		●	○	●	●	●	★	●
Copy Copiado	●		●					
Side Milling Fresado Lateral		●	○	○	●	●	★	●
Ramping Rampa		●	○	○	●	●	★	●
Interpolation Interpolación		○	○	○	●	●	★	●
Trochoidal Trocoidal					●	○	○	○
P Carbon Steel					●	●	●	●
P High Alloyed Steel					●	●	●	●
H HRC 55	●				●	●	★	●
H HRC 62	●							
H HRC 70	●							
H HRC 75	★							
M Stainless Steel <700N/mm2					●	●	●	●
M Stainless Steel >700N/mm2					●	○	★	●
K Cast Iron					●	●	●	●
K Nodular Cast Iron					●	●	○	○
N Aluminium		★			○	○	○	○
N Copper		●			○	○	○	○
N Plastics		○				○		
G Graphite			★	★				
G GFK/CFK			●	●				
S Titanium Alloy					●		●	●
S NiAlloys					○		●	●

91.5479	91.4472	91.4482	94.3302	94.3409	90.5572	90.5770	91.6505	90.6572	90.6705
									
85	86	87	129	130	71	72	88	73	74
SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
3 - 20	6 - 20	6 - 16	3 - 25	3 - 20	6 - 20	6 - 16	3 - 32	3 - 20	6 - 16
40°	45°	35° - 38°	43° - 47°	43° - 47°	40°	40°	45°	40° - 42°	42° - 44°
Racer Plus	Volcano Gold	Volcano Gold	Speed ZR	Speed ZR	Racer Plus	Racer	Racer Plus	Racer Plus	Racer
Chamfer	Chamfer	Chamfer	Chamfer	Chamfer	Trochoidal	Trochoidal	Square Extra Long	Chamfer	Square
Z4	Z4	Z4	Z3	Z4	Z5	Z5	Z4 - Z6	Z5 - Z6	Z6
●	●	●	●	●					
●	●	●	●	●	●	●	●	●	●
●	●	●	●	●					
●	●	●	○	○	●	●		●	●
○	○	○			★	★	●	○	○
●	●	●			●	●	●	●	●
●	●	●			●	●	●	●	●
●	●	●			●	●	●	●	●
							○		
●	●	●			●	●	●	●	●
●	★	★			○	○	●	○	○
●	●	●			●	●	●	●	●
○	○	○			●	●	○	●	●
○	○	○	★	★	○	○		○	○
○	○	○	●	●	○	○		○	○
			○	○	○	○		○	○
●	●	●					●		
●	●	●					●		

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MILL LINE INDEX

Code Código	92.6505	94.3535	90.6601	91.6614	91.7612	89.0602	89.0604	70.6160
								
Page Página	106	127	75	90	91	191	192	152
Tool Material M. herramienta	SC	SC	SC	SC	SC	HSS	HSS	SC
Ø Range Diámetro (mm)	3 - 25	6 - 20	3 - 25	5 - 20	4 - 12	6 - 30	10 - 20	3 - 6
Helix Angle Ángulo de Hélice	45°	45°	25°	42°	-	30°	30°	30°
Coating Recubrimiento	Deep Blue	Speed ZR	Racer Plus	Volcano	Racer Gold	Bright	Bright	Racer Plus
Type Shape Tipo de Forma	Square	Square	Roughing	Roughing	Roughing	Roughing	Roughing Long	Engraver
No. of Flutes Nº de Canales	Z6 - Z8	Z6	Z4	Z4 - Z5	Z4	Z4	Z4	Z1
Full-Slot Ranurado			●	●	●	●	●	●
Copy Copiado								
Side Milling Fresado Lateral	●	●	●	●	●	●	●	
Ramping Rampa			○	○				
Interpolation Interpolación			○	●				
Trochoidal Trocoidal	●	●	○	●	●			
P Carbon Steel	●		●	●	●	●	●	●
P High Alloyed Steel	●		●	●	●	●	●	●
H HRC 55	●		●	●	●			○
H HRC 62	●			○				
H HRC 70	★							
H HRC 75								
M Stainless Steel <700N/mm2			●	●	○	○	○	○
M Stainless Steel >700N/mm2			○	●		○	○	○
K Cast Iron	○		●	●	●	●	●	●
K Nodular Cast Iron	○		●	○		●	●	●
N Aluminium		★	○	○		●	●	●
N Copper		●	○	○	●	●	●	●
N Plastics		○	○			○	○	○
G Graphite								
G GFK/CFK								
S Titanium Alloy		○		●				○
S NiAlloys		○		●				○

90.6460	90.6490	70.6480	71.7045	70.6045	85.0050	85.0051			
									
153	154	155	156	157	158	162			
SC	SC	SC	SC	SC	SC	SC			
4 - 20	1 - 20	R 0,2 - 10	4 - 10	2 - 16	15 - 200	15 - 200			
60°	90°	-	-	-	-	-			
Racer Plus	Racer Plus	Racer Plus	Racer Gold	Racer Plus	Bright	Bright			
Deburring	Deburring	Corner Round	Twin Deburring	Twin Deburring	Slitting Saw Fine	Slitting Saw Coarse			
Z4/5/6	Z3/4/5/6	Z4	Z4	Z4	-	-			
					●	●			
●	●	●	●	●					
			●	●					
●	●	●	●	●	●	●			
●	●	●	●	●	●	●			
○	○	●	●	●					
		○		●					
●	●	●	○	●	○	○			
○	○	○		○	○	○			
●	●	●	●	●	●	●			
●	●	●	○	●					
●	●	●		○	●	●			
●	●	●	●	●	●	●			
○	○	○		○	●	●			
			○						
			○						

★ Best Choice

● First Choice

○ Suitable

DRILL LINE INDEX

Code Código	50.6003	50.6005	50.6805	60.6003	60.6005	60.6803	60.6805	60.6808
								
Page Página	206	207	208	209	212	214	217	220
Tool Material M. herramienta	SC	SC	SC	SC	SC	SC	SC	SC
ø Range Diámetro (mm)	1 - 2,9	0,5 - 2,9	1 - 2,9	3 - 20	3 - 20	3 - 20	3 - 20	3 - 20
Point Angle Ángulo Frontal	140°	140°	140°	140°	140°	140°	140°	140°
Coating Recubrimiento	Racer	Racer	Racer	Drillant	Drillant	Drillant	Drillant	Drillant
LxD LxD	3xD	5xD	5xD	3xD	5xD	3xD	5xD	8xD
Norm Norma	Helion	Helion	Helion	DIN 6537K	DIN 6537L	DIN 6537K	DIN 6537L	Helion
Shank Design Diseño del mango	HA	HA	HA	HA	HA	HA	HA	HA
Internal Coolant Refrigeración interior			●			●	●	●
Tolerance Tolerancia	m7	m7	m7	m7	m7	m7	m7	m7
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	●	●	●	●	●	●	●	●
H HRC 55	●	●	●	●	●	●	●	●
H HRC 62	○	○	○	○	○	○	○	○
H HRC 70								
H HRC 75								
M Stainless Steel <700N/m m2	○	○	○	○	○	○	○	○
M Stainless Steel >700N/mm2	○	○	○	○	○	○	○	○
K Cast Iron	●	●	●	●	●	●	●	●
K Nodular Cast Iron	●	●	●	●	●	●	●	●
N Aluminium	○	○	○	○	○	○	○	○
N Copper	○	○	○	○	○	○	○	○
N Plastics								
G Graphite								
G GFK/CFK								
S Titanium Alloy	○	○	○	○	○	○	○	○
S NiAlloys	○	○	○	○	○	○	○	○

60.6812	60.6815	60.6820	60.6825	60.6830	61.7805	64.2805	62.0010	62.6000	67.6885
									
222	224	226	227	228	229	231	234	235	236
SC	SC	SC	SC	SC	SC	SC	SC	SC	SC
3 - 20	1 - 12	2 - 12	3 - 12	2 - 10	3 - 20	3 - 20	M3 - M20	M3 - M16	5,98 - 20
135°	135°	135°	135°	135°	140°	140°	-	-	140°
Drillant	Drillant	Drillant	Drillant	Drillant	Racer Plus	Bright	TiN Up	Racer	Racer
12xD	15xD	20xD	25xD	30xD	5xD	5xD	-	3xD	5xD
Helion	Helion	Helion	Helion	Helion	DIN 6537L	DIN 6537L	Helion	DIN 6537K	Helion
HA	HA	HA	HA	HA	HA	HA	HA	HA	HA
●	●	●	●	●	●	●			●
h7	h7	h7	h7	h7	m7	m7		m7	D1 (H7)
●	●	●	●	●					●
●	●	●	●	●					●
●	●	●	●	●					●
○	○	○	○	○			●	●	
							●	●	
○	○	○	○	○	★				○
○	○	○	○	○	★				○
●	●	●	●	●				○	●
●	●	●	●	●				○	●
○	○	○	○	○		★			
○	○	○	○	○		★			
○	○	○	○	○		○			
○	○	○	○	○	●				
○	○	○	○	○	●				

★ Best Choice

● First Choice

○ Suitable

DRILL LINE INDEX

Code Código	11.1360	11.2360	10.2000	10.2400	12.2105	10.5690	10.5612	10.5510
								
Page Página	242	244	246	248	250	252	253	254
Tool Material M. herramienta	HSSCO	HSSCO	HSS	HSS	HSS	HSSCO	HSSCO	HSS
ø Range Diámetro (mm)	1 - 14	1 - 14	1 - 16	1 - 13	1 - 13	3 - 20	3 - 20	0,5 - 12,5
Point Angle Ángulo Frontal	118°	118°	118°	118°	118°	90°	120°	118°
Coating Recubrimiento	TiN Up	TiN Up	Black HVA	Black HVA	TiN Up	Racer	Racer	Bright
LxD LxD								
Norm Norma	DIN 1897	DIN 338	DIN 338	DIN 340	DIN 338	Helion	Helion	DIN 333A
Shank Design Diseño del mango	HA	HA	HA	HA	HA	HB	HB	HA
Internal Coolant Refrigeración interior								
Tolerance Tolerancia	h8	h8	h8	h8	h8	h6	h6	
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	●	●	●	●	●	●	●	●
H HRC 55						○	○	
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	●	●	○	○	○	●	●	●
M Stainless Steel >700N/mm2	○	○				○	○	○
K Cast Iron	●	●	●	●	●	●	●	●
K Nodular Cast Iron	●	●	○	○	○	●	●	●
N Aluminium	●	●	●	●	●	●	●	●
N Copper	●	●	●	●	●	●	●	●
N Plastics	○	○	○	○	○	○	○	○
G Graphite								
G GFK/CFK								
S Titanium Alloy								
S NiAlloys								

10.5514									
									
255									
HSS									
2 - 3,15									
118°									
Bright									
Helion									
HA									
●									
●									
●									
○									
●									
●									
●									
●									
○									

THREAD LINE INDEX

Code Código	40.1040	40.1046	40.1050	40.1060	40.1066	40.1140	40.1160	40.1240
								
Page Página	270	271	272	273	274	275	276	277
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
Ø Range Diámetro (mm)	3 - 10	12 - 20	3 - 10	3 - 10	12 - 36	4 - 20	4 - 20	1/8 - 1"
Thread Style Tipo de Rosca	M	M	M	M	M	MF	MF	GAS/ BSP
Coating Recubrimiento	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA	Black HVA
Form Forma	B	B	E	C	C	B	C	B
Tolerance Tolerancia	6H	6H	6H	6H	6H	6H	6H	-
Norm Norma	DIN 371	DIN 376	DIN 371	DIN 371	DIN 376	DIN 374	DIN 374	DIN 5156
Through Hole Agujero pasante	●	●	○	○	○	●	○	●
Blind Hole Agujero Ciego			●	●	●		●	
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	○	○	○	○	○	○	○	○
H HRC 55								
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	●	●	●	●	●	●	●	●
M Stainless Steel >700N/mm2								
K Cast Iron	●	●	●	●	●	●	●	●
K Nodular Cast Iron								
N Aluminium	○	○	○	○	○	○	○	○
N Copper								
N Plastics								
N SI ≥7%								
G Graphite								
G GFK/CFK								
S Titanium Alloy								
S NiAlloys								

[illegible]

★ Best Choice

- First Choice

- Suitable

THREAD LINE INDEX

Code Código	40.7046	40.7060	40.7066	40.7068	41.6040	41.6046	41.6050	41.6056
								
Page Página	288	289	290	291	296	297	298	299
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM
Ø Range Diámetro (mm)	12 - 36	2 - 10	12 - 36	3 - 20	2 - 10	12 - 20	3 - 10	12 - 20
Thread Style Tipo de Rosca	M	M	M	M	M	M	M	M
Coating Recubrimiento	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up	TiN Up
Form Forma	B	C	C	C	B	B	C	C
Tolerance Tolerancia	6H	6H	6HX	6HX	6H	6H	6H	6H
Norm Norma	DIN 376	DIN 371	DIN 376	HELION	DIN 371	DIN 371	DIN 371	DIN 376
Through Hole Agujero pasante	●	○	○	○	●	●	○	○
Blind Hole Agujero Ciego		●	●	●			●	●
P Carbon Steel	●	●	●	●	●	●	●	●
P High Alloyed Steel	●	●	●	●	★	★	★	★
H HRC 55								
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	●	●	●	●	●	●	●	●
M Stainless Steel >700N/mm2								
K Cast Iron	●	●	●	●	○	○	●	●
K Nodular Cast Iron	○	○	○	○	○	○	○	○
N Aluminium								
N Copper								
N Plastics								
N SI ≥7%								
G Graphite								
G GFK/CFK								
S Titanium Alloy								
S NiAlloys								

43.2010	43.2117	43.2810	43.2816	44.0040	44.0046	44.0060	44.0066	45.3265	45.4060
									
304	305	306	307	312	313	314	315	320	321
HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
3 - 16	5 - 16	5 - 10	10 - 14	2 - 10	12 - 20	3 - 10	12 - 20	1/16 - 1"	2 - 10
M	MF	M	M	M	M	M	M	GAS BSP	M
Shark	Shark	Shark	Shark	Bright	Bright	Bright	Bright	Racer	Racer
D	C	C	C	B	B	C	C	C	C
6HX	6HX	6HX	6HX	6H	6H	6H	6H	6HX	6HX
DIN 371/376	DIN 374	DIN 371	DIN 376	DIN 371	DIN 376	DIN 371	DIN 376	DIN 5156	DIN 371
●	●	●	●	●	●	○	○	○	○
●	●	●	●			●	●	●	●
●	●	●	●					●	●
★	★	★	★						
								★	★
●	●	●	●					○	○
●	●	●	●						
				★	★	★	★		
				●	●	●	●		
				●	●	●	●		
	○	○	○						
								○	○

★ Best Choice ● First Choice ○ Suitable

THREAD LINE INDEX

Code Código	45.4066	45.4164	45.5040	45.5046	45.5144	45.5245	46.4040	46.4046
								
Page Página	322	323	324	325	326	327	332	333
Tool Material M. herramienta	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E-PM	HSS-E-PM
Ø Range Diámetro (mm)	12 - 30	6 - 24	2 - 10	12 - 30	6 - 24	1/16 - 1"	3 - 10	12 - 16
Thread Style Tipo de Rosca	M	MF	M	M	MF	GAS / BSP	M	M
Coating Recubrimiento	Racer	Racer	DSC	DSC	DSC	DSC	Shark	Shark
Form Forma	C	C	B	B	B	B	B	B
Tolerance Tolerancia	6HX	6HX	6HX	6HX	6HX	-	6HX	6HX
Norm Norma	DIN 376	DIN 374	DIN 371	DIN 376	DIN 374	DIN 5156	DIN 371	DIN 376
Through Hole Agujero pasante	○	○	●	●	●	●	●	●
Blind Hole Agujero Ciego	●	●						
P Carbon Steel								
P High Alloyed Steel	●	●	●	●	●	●		
H HRC 55								
H HRC 62								
H HRC 70								
H HRC 75								
M Stainless Steel <700N/mm2	★	★	★	★	★	★		
M Stainless Steel >700N/mm2								
K Cast Iron	○	○	○	○	○	○	○	○
K Nodular Cast Iron								
N Aluminium								
N Copper								
N Plastics								
N SI ≥7%								
G Graphite								
G GFK/CFK								
S Titanium Alloy							●	●
S NiAlloys	○	○	○	○	○	○	★	★

46.4070	46.4076	47.9010	48.7010	48.7016	4990	4991			
									
334	335	346	340	341	347	348			
HSS-E-PM	HSS-E-PM	SC	HSS-E	HSS-E	SC	SC			
3 - 10	12 - 16	3 - 16	3 - 10	12 - 20	2 - 16	4 - 16/8 - 16			
M	M	M	M	M	M	M / MF			
Shark	Shark	Shark	TiN Up	TiN Up	Racer	Racer			
C	C	D	C	C	-	-			
6HX	6HX	6H	6HX	6HX	-	-			
DIN 371	DIN 376	DIN 371	DIN 2174	DIN 2174	HELION	HELION			
○	○	●	●	●	●	●			
●	●	●	●	●	●	●			
					●	●			
			●	●	●	●			
		●			●	●			
		★			○	○			
		○			○	○			
			○	●	●	●			
○	○		○		●	●			
					●	●			
					○	○			
					○	○			
●	●		○	○	●	●			
★	★		○	○					

★ Best Choice ● First Choice ○ Suitable

Code Código	28.1202	29.1502	25.0200	25.1500		
						
Page Página	354	355	358	362		
Tool Material M. herramienta	SC	SC	HSS-E	HSS-E		
Ø Range Diámetro (mm)	3 - 12	0,98 - 12,05	1 - 20	4 - 20		
Shape Forma	45°	45°	45°	45°		
Coating Recubrimiento	Bright	Bright	Bright	Bright		
Tolerance Tolerancia	H7	-	H7	H7		
Application Aplicación	UNI	UNI	UNI	UNI		
P Carbon Steel	●	●	●	●		
P High Alloyed Steel	●	●	●	●		
H HRC 55	●	●				
H HRC 62						
H HRC 70						
H HRC 75						
M Stainless Steel <700N/mm2	○	○	○	○		
M Stainless Steel >700N/mm2						
K Cast Iron	●	●	●	●		
K Nodular Cast Iron						
N Aluminium	●	●	●	●		
N Copper						
N Plastics	●	●	●	●		
G Graphite						
G GFK/CFK						
S Titanium Alloy						
S NiAlloys						

Code Código	20.6390	21.0300	21.2300	21.7100		
						
Page Página	368	369	370	371		
Tool Material M. herramienta	SC	HSS	HSS	HSS		
ø Range Diámetro (mm)	4,3 - 25	6,3 - 31	6,3 - 31	M3 - M12		
Point Angle Ángulo Frontal	90°	90°	90°	180°		
Coating Recubrimiento	Racer	Bright	Racer	TiN Up		
P Carbon Steel	●	●	●	●		
P High Alloyed Steel	●	○	●	●		
H HRC 55	●					
H HRC 62						
H HRC 70						
H HRC 75						
M Stainless Steel <700N/mm2	●	●	●	●		
M Stainless Steel >700N/mm2						
K Cast Iron	●	●	●	●		
K Nodular Cast Iron						
N Aluminium		●				
N Copper		○	○	○		
N Plastics		●				
G Graphite						
G GFK/CFK						
S Titanium Alloy			●	●		
S NiAlloys						

BOXES AND SETS INDEX

Code Código	BOX SC4200	BOX HS4100	BOX NC4300	BOX PM4100
				
Ø Range Diámetro (mm)	Ø3,30 - Ø10,20 M4 - M12 Ø6,3 - Ø16,50	Ø2,50 - Ø8,50 M3 - M10 Ø6,3 - Ø12,40	#29 - 27/64 8-32 - 1/2-13 1/4 - 5/8	M4 - M12
Reference Referencias	60.6005 40.1060 40.1066 21.2300	12.2105 40.1060 21.0300	60.6005 40.1460 40.1466 21.2300	41.6040 41.6046 41.6050 41.6056
Tool Material M. herramienta	SC - HSS-E - HSS	HSS - HSS-E	SC - HSS-E - HSS	HSS-E-PM
Coating Recubrimiento	Drillant Black HVA Racer Gold	TiN Up Black HVA Bright	Drillant Black HVA Racer Gold	TiN Up
Norm Norma	DIN 6537L DIN 371 DIN 376 DIN 335C	DIN 338 DIN 371 DIN 335C	DIN 6537L DIN 371 DIN 376 DIN 335C	DIN 371
P Carbon Steel	●	●	●	●
P High Alloyed Steel	●	●	●	●
H HRC 55	○		○	
H HRC 62				
H HRC 70				
H HRC 75				
M Stainless Steel <700N/mm2	○	○	○	●
M Stainless Steel >700N/mm2	○	○	○	○
K Cast Iron	●	●	●	●
K Nodular Cast Iron	●	●	●	●
N Aluminium	○	○	○	○
N Copper	○	○	○	○
N Plastics				
G Graphite				
G GFK/CFK				
S Titanium Alloy	○	○	○	○
S NiAlloys	○		○	○

SET 10200	SET 122105	BOX 2100	BOX 2123		
					
Ø1 - Ø10	Ø1 - Ø10	Ø6,3 - Ø20,5	Ø6,3 - Ø20,5		
10.2000	12.2105	21.0300	21.2300		
HSS	HSS	HSS	HSS		
Black HVA	TiN Up	Bright	Bright		
DIN 338	DIN 338	DIN 335C	DIN 335C		
●	●	●	●		
●	●	○	●		
○	○	●	●		
●	●	●	●		
○	○				
●	●	●			
●	●	○	○		
○	○	●			
			●		

Important information for the management of your purchase orders

Información importante para la gestión de sus órdenes de pedido

Your Customer Number · Su Número de Cliente

Orders · Pedidos

EShop · Tienda en Línea
www.helion-tools/shop

Phone · Teléfono
+34 93 877 08 69

Email · Correo electrónico
ventas@helion-tools.com
export@helion-tools.com

Customer Services · Servicio al Cliente

Phone · Teléfono
+34 93 877 08 69

Email · Correo electrónico
info@helion-tools.com

Technical Questions · Consulta Técnica

Phone · Teléfono
+34 93 877 08 69

Email · Correo electrónico
technical@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.

Condiciones de entrega para productos 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.

Sales Terms

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

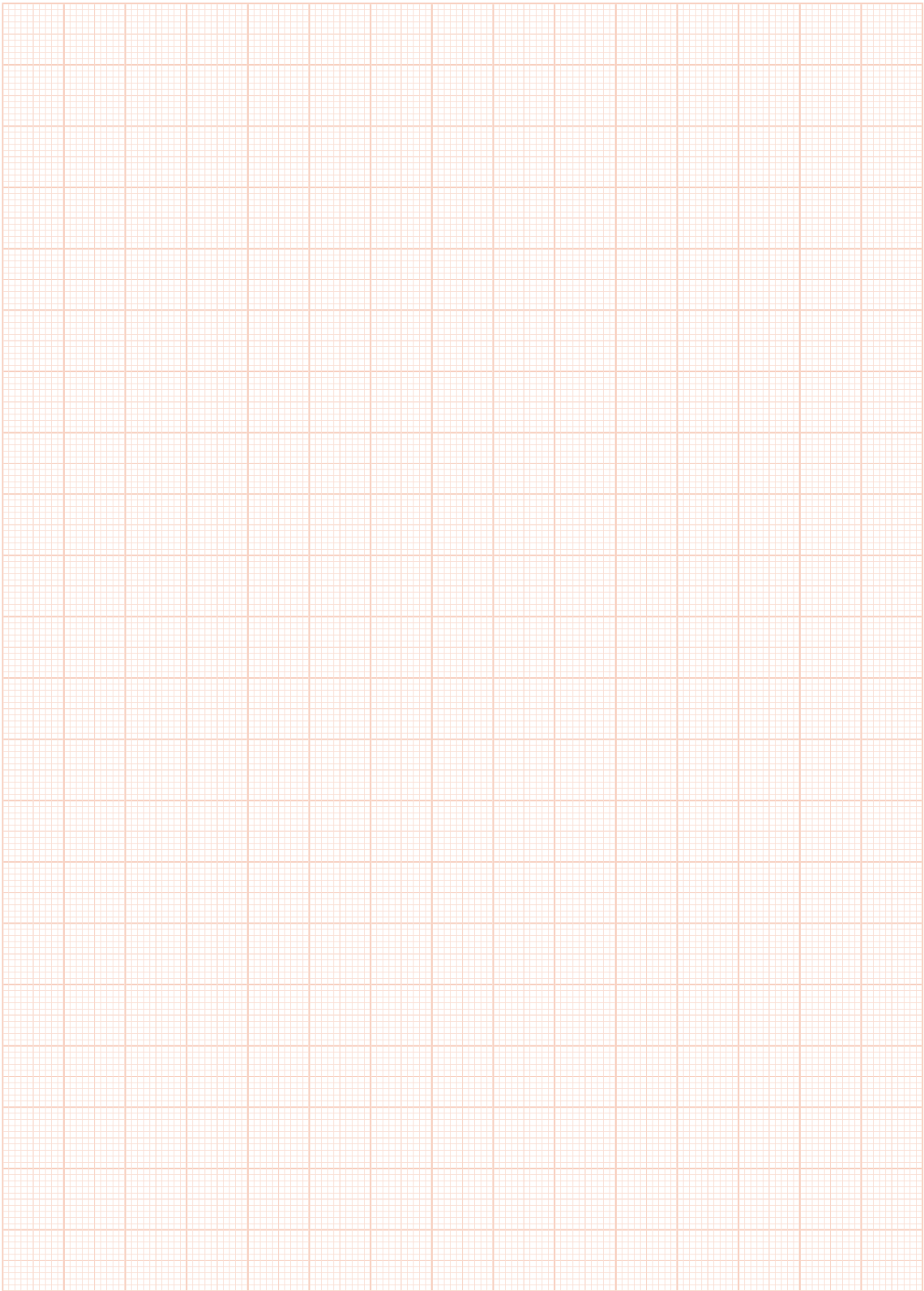
Once the purchase order is received we proceed with the production process to supply the order in the shortest time possible. Then we will not accept cancellations or modifications in purchase orders of special tools manufactured according with the specifications of the customer. Una vez recibido un 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.

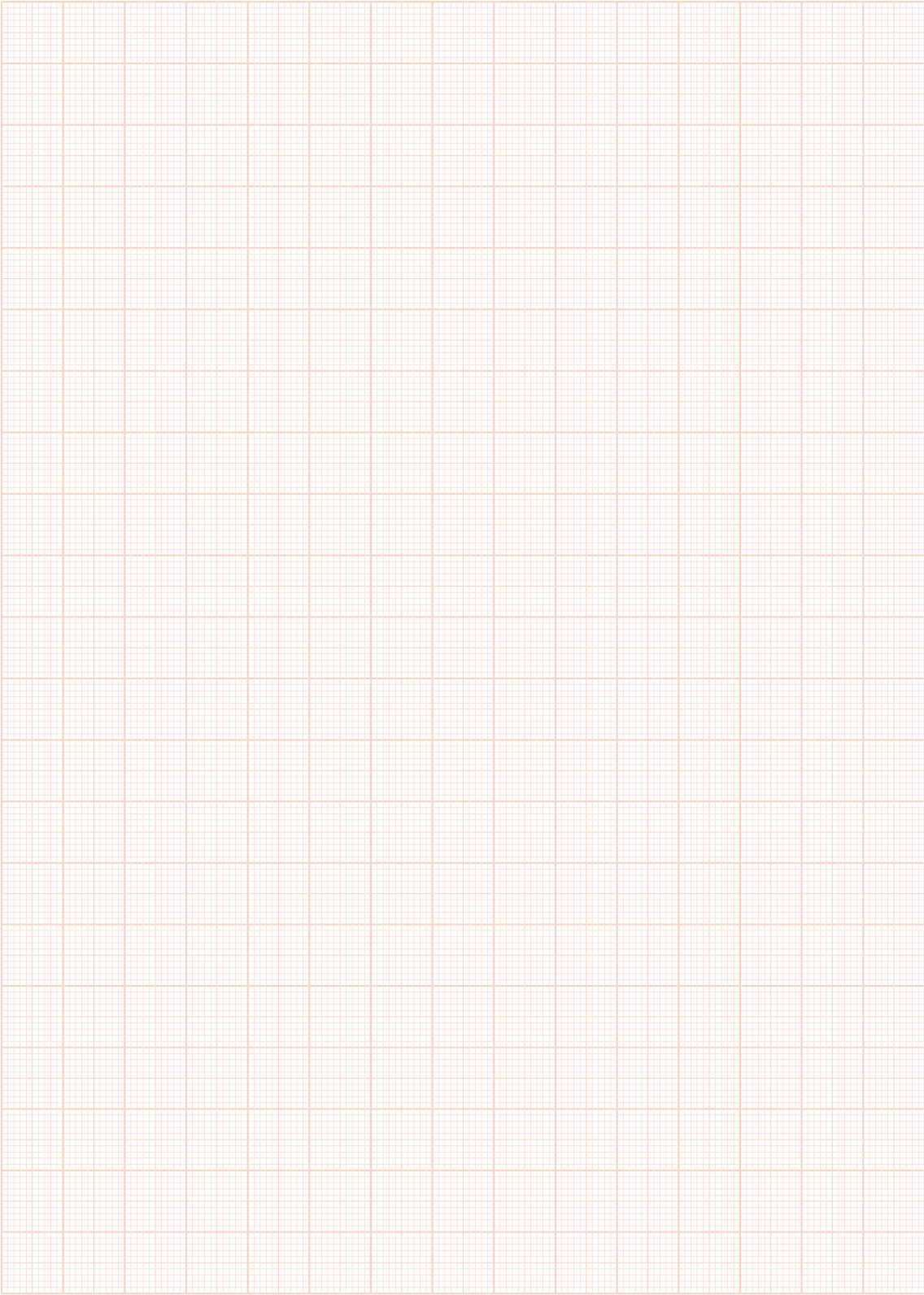
Warranty · Garantía

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.







www.helion-tools.com
[@heliontools](https://twitter.com/heliontools)

HELION TOOLS SLU

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