



## High performance HSS cutting tools

- Universal cutter for efficient machining with HSS
- Special geometry for longer tool life
- High removal rate with soft cutting

# HSS

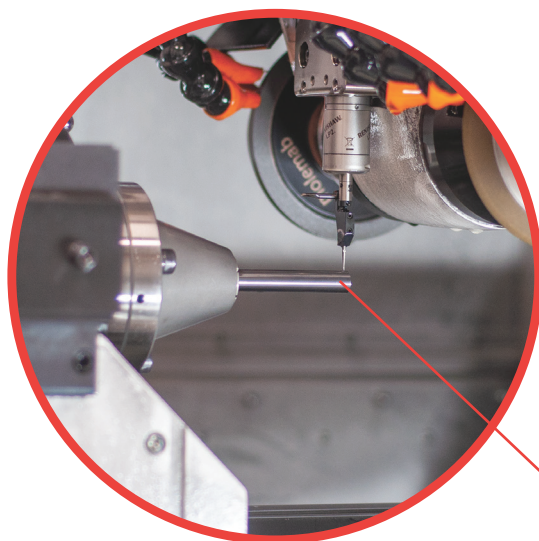
SERIES



# 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.*



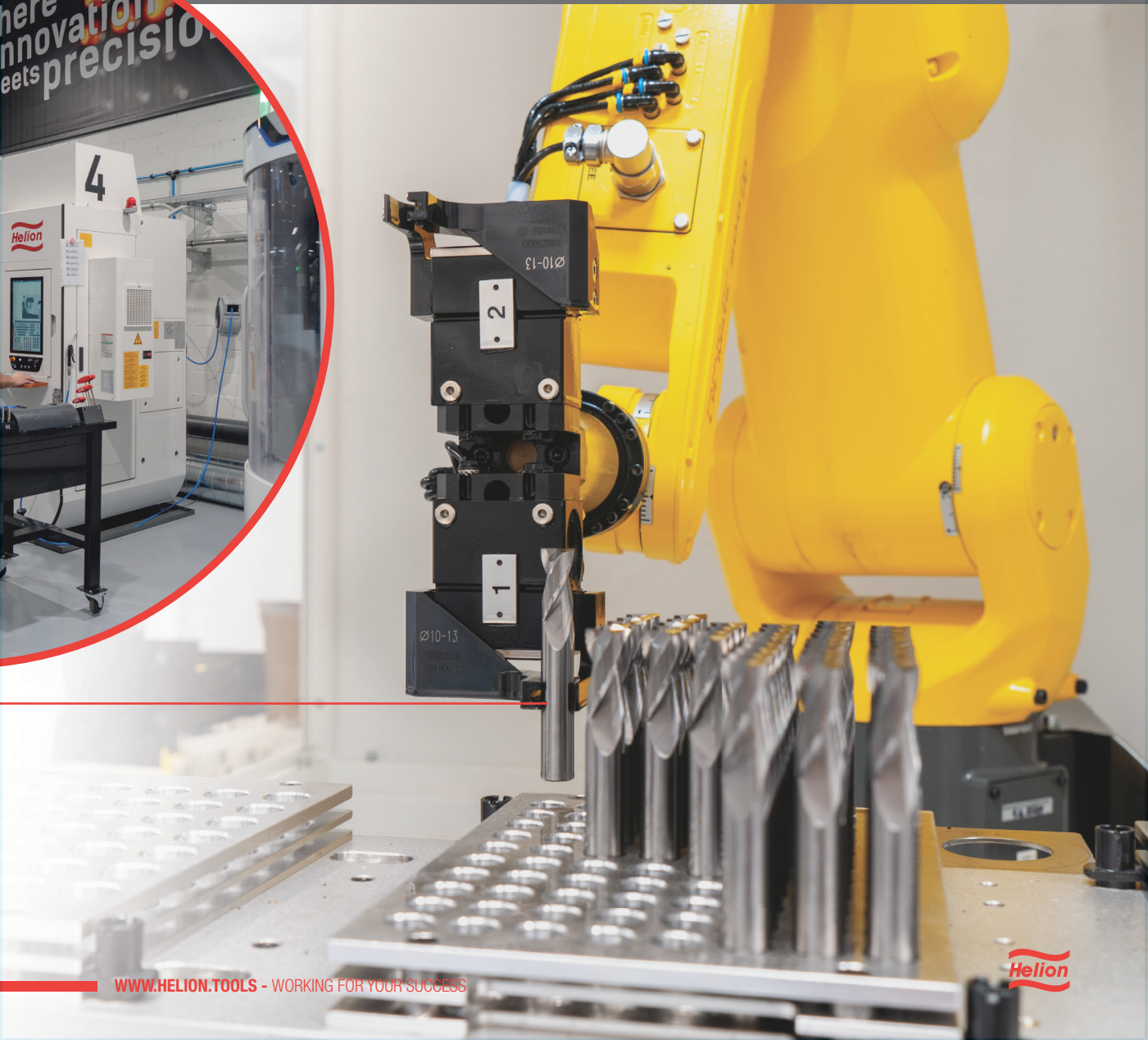
**High standards of quality and dimensional tolerance** allow them to obtain the best results in the machining processes in the automotive, aeronautical, construction, structural engineering, mold and die sectors. *Altos estándares de calidad y tolerancia dimensional les permiten obtener los mejores 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.



## 89.0602 89.0604

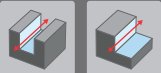
M42

HELIX  
30° BRIGHT

600  
1200  
N/mm<sup>2</sup> GG(G)

ALU  
NE INOX

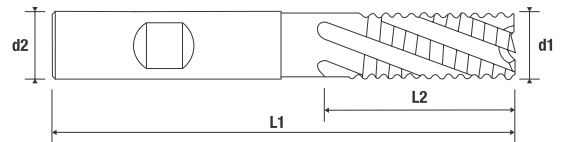
TITAN  
INCONEL UNI



## ROUGHING END MILL HSS NR · Z4

Fresa en HSS para desbaste NR · Z4

DIN  
844K



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

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



C. CONDITIONS  
89.0602



C. CONDITIONS  
89.0604

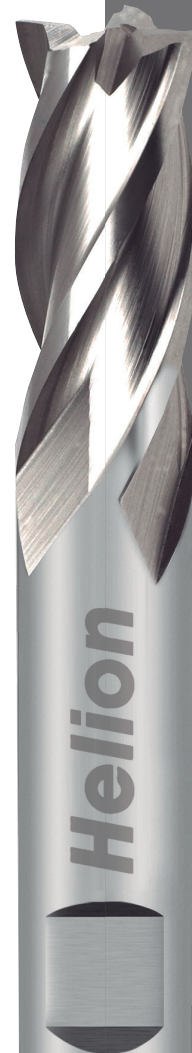
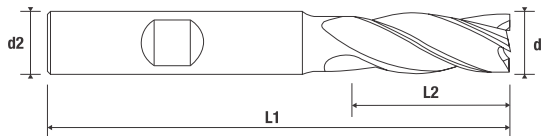


## SQUARE END MILL HSS N · Z4 - Z6

Fresa plana en HSS N · Z4-Z6

# 89.0402

DIN  
844K



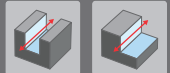
M42

HELIX  
30° BRIGHT

600  
1200  
N/mm<sup>2</sup> GG(G)

INOX ALU  
NE

TITAN  
INCONEL UNI



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

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



Z4



Z6



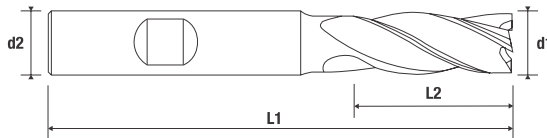
C. CONDITIONS

## SQUARE END MILL HSS LONG N · Z4-Z6

Fresa plana en HSS larga N · Z4-Z6

# 89.0404

DIN  
844L



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

## M42

HELIX  
30° BRIGHT

600  
1200  
N/mm<sup>2</sup> GG(G)

INOX ALU  
NE

TITAN  
INCONEL UNI



C. CONDITIONS



## 89.0202

### SQUARE END MILL HSS N · Z2

Fresa plana en HSS N · Z2

M42

HELIX  
30° BRIGHT

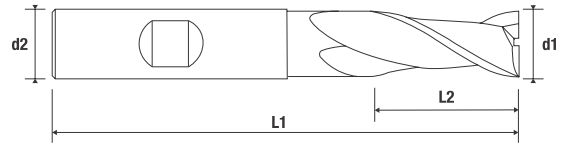
600  
1200  
N/mm<sup>2</sup> GG(G)

INOX ALU  
NE

TITAN  
INCONELL UNI



DIN  
844K



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



C. CONDITIONS

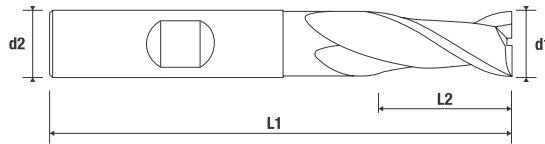


## SQUARE END MILL HSS LONG N · Z2

Fresa plana en HSS larga N · Z2

# 89.0204

DIN  
844L



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



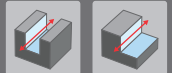
## M42

HELIX  
30° BRIGHT

600  
1200  
N/mm<sup>2</sup> GG(G)

INOX ALU  
NE

TITAN  
INCONEL UNI



C. CONDITIONS



## 89.0302

### SQUARE END MILL HSS N · Z3

Fresa plana en HSS N · Z3

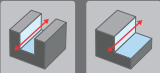
### M42

HELIX  
30° BRIGHT

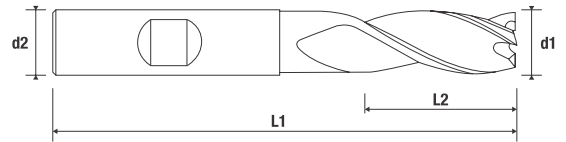
600  
1200  
N/mm<sup>2</sup> GG(G)

INOX ALU  
NE

TITAN  
INCONEL UNI



DIN  
844K



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



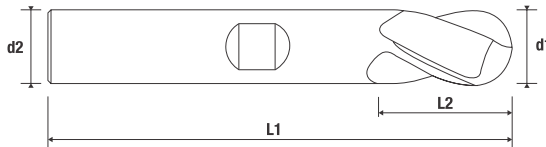
C. CONDITIONS



## BALL NOSE END MILL HSS N Z2

Fresa esférica en HSS N · Z2

# 89.0221



### M42

HELIX 30° BRIGHT

600 1200 N/mm² GG(G)

INOX ALU NE

TITAN INCONEL UNI



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



C. CONDITIONS

## 89.0223

### BALL NOSE END MILL HSS N · Z2 LONG

Fresa esférica en HSS larga N · Z2

**M42**

HELIX  
**30°** BRIGHT

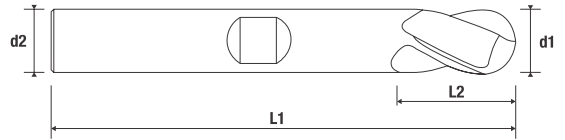
600  
1200  
N/mm<sup>2</sup> GG(G)

INOX ALU  
NE

TITAN  
INCONELL UNI



DIN  
844K

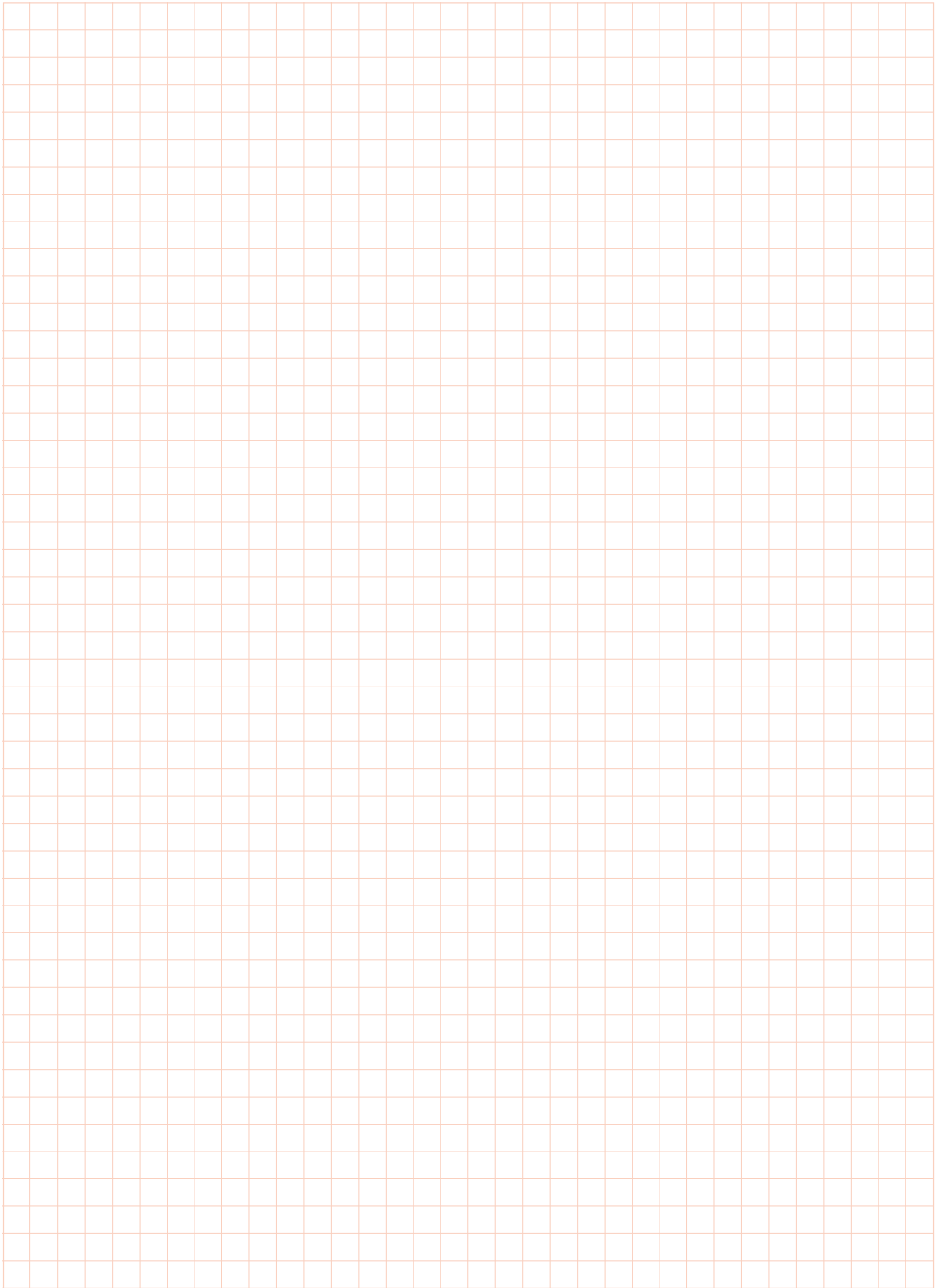


Cod.	d1	d2	L1	L2	Z
8902230300	3	6	56	8	2
8902230400	4	6	63	11	2
8902230500	5	6	68	13	2
8902230600	6	6	68	13	2
8902230700	7	10	80	16	2
8902230800	8	10	88	19	2
8902231000	10	10	95	22	2
8902231200	12	12	110	26	2
8902231400	14	12	110	26	2
8902231500	15	12	110	26	2
8902231600	16	16	123	32	2
8902231800	18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



C. CONDITIONS







**Where innovation  
meets precision**





WORKING FOR YOUR  
SUCCESS SINCE 1952  
[www.helion.tools](http://www.helion.tools)  
[@heliontools](https://twitter.com/heliontools)



HELION TOOLS S.L.U  
Calle Miquel Servet 37 Nave 13  
Polígono industrial Bufalvent  
08243 Manresa · Barcelona · España  
+34 93 877 08 69 · [info@helion-tools.com](mailto:info@helion-tools.com)