

COUNT

LINE



COUNT  
LINE

COUNT LINE





# COUNT LINE

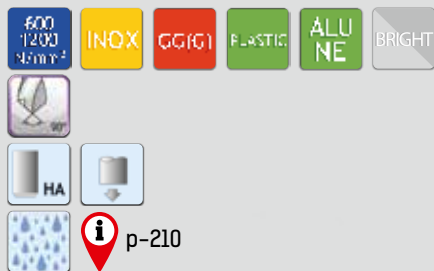
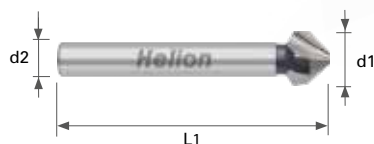


COUNT LINE	Ø range	6,30-31	6,30-31	6-20	6,30 - 8,30 - 10,40 - 12,40 - 16,50 - 20,50	6,30 - 8,30 - 10,40 - 12,40 - 16,50 - 20,50
	Code	21.0300	21.2300	21.7100	BOX2100	BOX2123
	Page	205	206	207	208	209
	Type	HSS	HSS	HSS	HSS	HSS
	Coating	Bright	TiAlN	TiN Up	Bright	TiAlN
	Coolant	-	-	-	-	-
	Shape	90°	90°	180°	90°	90°
	Shank design	HA	HA	HA	HA	HA
	Steel (600/1200 N/mm <sup>2</sup> )	●	●	●	●	●
	Stainless steel	●	●	●	●	●
	Cast iron	●	●	●	●	●
	Plastic	●	○	○	●	○
	GFK-CFK	○	●	●	○	●
	ALU-NE	●	○	○	●	○
NI ALLOYS		●	●		●	

## COUNTERSINKER 90° DIN 335 HSS

# 21.0300





-  Avellanador cónico 90° DIN 335 HSS
-  Fraise à noyer et ébavurer 90° DIN 335 HSS
-  Svasatore conico 90° DIN 335 HSS
-  Зенковки HSS 90° DIN 335

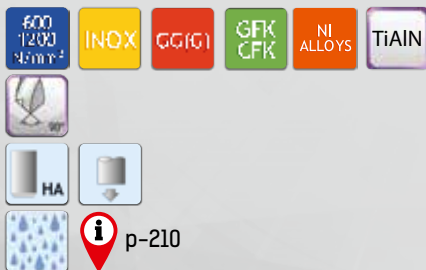


Cod.	d1	d2	L1	Price €
2103000630	6,30	5	45	
2103000830	8,30	6	50	
2103001040	10,40	6	50	
2103001240	12,40	8	56	
2103001650	16,50	10	60	
2103002050	20,50	10	63	
2103002500	25,00	10	67	
2103003100	31,00	12	71	

## 21.2300

### COUNTERSINKER 90° DIN 335 HSS TiAlN





-  Avellanador cónico 90° DIN 335 HSS TiAlN
-  Fraise à noyer et ébavurer 90° DIN 335 HSS TiAlN
-  Svasatore conico 90° DIN 335 HSS TiAlN
-  Зенковки HSS 90° DIN 335 TiAlN



Cod.	d1	d2	L1	Price €
2123000630	6,30	5	45	
2123000830	8,30	6	50	
2123001040	10,40	6	50	
2123001240	12,40	8	56	
2123001650	16,50	10	60	
2123002050	20,50	10	63	
2123002500	25,00	10	67	
2123003100	31,00	12	71	

## COUNTERSINKER 180° FINE GUIDE TOL. DIN 373 HSS TIN

# 21.7100

-  Avellanador cilíndrico 180° guía tol. fina DIN 373 HSS TIN
-  Fraise à lamer et chambrer 180° DIN 373 HSS TIN
-  Lamatori per sedi di viti a norma DIN 373 HSS TiN
-  Цековки с цилиндрическим хвостовиком DIN 373 HSS TiN



600  
1200  
30mm<sup>2</sup>






INOX

GGG1

GFK  
CFK

NI  
ALLOYS





TiN  
Up

 180°  
 HA  
  
  p-210

Cod.	d1	d2	d3	L1	Price €
2171000600	6,00	5,0	3,2	71	
2171000800	8,00	5,0	4,3	71	
2171001000	10,00	8,0	5,3	80	
2171001100	11,00	8,0	6,4	80	
2171001500	15,00	12,5	8,4	100	
2171001800	18,00	12,5	10,5	100	
2171002000	20,00	12,5	13,0	100	

## BOX 2100

SET BOX 6 PCS. COUNTERSINK DIN 335 90° D: 6,30 - 20,50 HSS

-  Estuche 6 pcs. Avellanadores DIN 335 90° D: 6,30 - 20,50 HSS
-  Coffret 6 pièces fraises à noyer DIN 335 90° D: 6,30 - 20,50 HSS
-  Kit 6 pezzi. Svasatore DIN 335 90° D: 6,30 - 20,50 HSS
-  случай 6 части зенкер DIN 335 90° D: 6.30 - 20.50 HSS



600  
1200  
N/mm<sup>2</sup>

INOX

GGIG1

PLASTIC

ALU  
NE





BRIGHT



Cod.	Ø	Description	Norm	Type	Coating	Price €
BOX 2100	6,30	Countersink 90°	DIN 335	HSS	Bright	
	8,30	Countersink 90°	DIN 335	HSS	Bright	
	10,40	Countersink 90°	DIN 335	HSS	Bright	
	12,40	Countersink 90°	DIN 335	HSS	Bright	
	16,50	Countersink 90°	DIN 335	HSS	Bright	
	20,50	Countersink 90°	DIN 335	HSS	Bright	

## SET BOX 6 PCS. COUNTERSINK DIN 335 90° D: 6,30 - 20,50 HSS TIALN

## BOX 2123

-  Estuche 6 pcs. Avellanadores DIN 335 90° D: 6,30 - 20,50 HSS TIALN
-  Coffret 6 pièces fraises à noyer DIN 335 90° D: 6,30 - 20,50 HSS TIALN
-  Kit 6 pezzi. Svasatore DIN 335 90° D: 6,30 - 20,50 HSS TIALN
-  случай 6 части зенкер DIN 335 90° D: 6.30 - 20.50 HSS TIALN



Cod.	Ø	Description	Norm	Type	Coating	Price €
BOX 2123	6,30	Countersink 90°	DIN 335	HSS	TIALN	
	8,30	Countersink 90°	DIN 335	HSS	TIALN	
	10,40	Countersink 90°	DIN 335	HSS	TIALN	
	12,40	Countersink 90°	DIN 335	HSS	TIALN	
	16,50	Countersink 90°	DIN 335	HSS	TIALN	
	20,50	Countersink 90°	DIN 335	HSS	TIALN	

## CUTTING CONDITIONS

Bright	TIAlN	TiN
21.0300	21.2300	21.7100



		Vc m/min	Vc m/min	Vc m/min	feed op.
Steel	General steels <500 N/mm <sup>2</sup> (<150 HB)	32	40	35	26
	General steels <700 N/mm <sup>2</sup> (<205 HB)	28	35	33	25
	General steels <850 N/mm <sup>2</sup> (<25 HRC)	25	30	27	25
	General steels <1000 N/mm <sup>2</sup> (<32 HRC)	15	20	18	24
	General steels <1200 N/mm <sup>2</sup> (<44 HRC)	10	12	11	24
	Tempering steel <850 N/mm <sup>2</sup> (<25 HRC)	25	30	27	24
	Tempering steel <1000 N/mm <sup>2</sup> (<32 HRC)	15	20	18	24
Cast iron	Tempering steel <1200 N/mm <sup>2</sup> (<44 HRC)	10	12	11	24
	Cast iron <180HB	25	30	28	25
	Malleable cast iron GTW - GTS	20	25	22	25
Non ferrous	Nodular cast iron GG - GGG	16	20	17	24
	Aluminium and AL-alloyed <6 % S	80	95	90	26
	Aluminium and AL-alloyed 6%-12% S	40	50	45	25
	Aluminium alloyed over >12% S	30	35	32	25
	Copper, long chips	60	70	65	24
	Brass, bronze, short chips	30	35	33	26
Inox	Brass, bronze, long chips	20	28	29	26
	INOX Stainless steel <700 N/mm <sup>2</sup> (<205 HB)	16	18	17	24
Exotic materials	INOX Stainless steel >700 N/mm <sup>2</sup> (>205 HB)	12	14	13	24
	Titanium, Ti-, Ni-, Co- alloy (Inconel, Stellite...)	8	9	9	24
	Ti 1 / Ti Al6V4	10	12	11	24

Feed OPTION			
d1	24	25	26
6,00	0,150	0,180	0,220
8,00	0,150	0,200	0,250
10,00	0,180	0,220	0,250
12,00	0,180	0,250	0,300
16,00	0,200	0,280	0,350
20,00	0,250	0,300	0,380
25,00	0,250	0,300	0,380
31,00	0,300	0,380	0,450

Conditions of work guidelines. may vary on each concrete case.  
 Condiciones de trabajo orientativas. pueden variar en función de cada caso concreto.