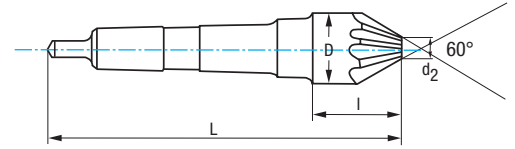



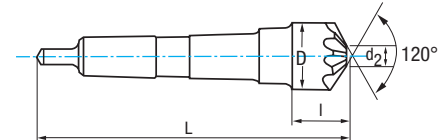
Ref. **2660**
**AVELLANADOR MANGO CÓNICO HSS 60°**  
 60° HSS Morse Taper Shank Countersink  
 Fraise à noyer queue cône morse HSS 60°



HSS	DIN 334 B		60°	ISO 3293
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Material		Vc (m/min)	Avances f/rev. (mm/rev) - Feed - Pas							
Grupo	Sub.	HSS	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 60	Ø 80	
P	P.1	15-20	0,120	0,150	0,180	0,200	0,220	0,250	0,280	
	P.2	10-15	0,080	0,100	0,120	0,140	0,160	0,180	0,200	
S		8-12	0,060	0,080	0,090	0,100	0,120	0,140	0,160	

$$\text{r.p.m.} = \frac{Vc \times 1.000}{\pi \times \phi} \quad Vf (\text{mm/min.}) = \text{r.p.m.} \times f$$

D mm	d2 mm	L mm	I mm	Z	CM	N° Art. HSS	€
16,00	3,20	97	24	7	1	42542	64,66
20,00	4,00	120	28	7	2	42545	75,69
25,00	7,00	125	33	9	2	42548	82,92
31,50	9,00	132	40	9	2	42551	108,85
40,00	12,50	160	45	11	3	42554	190,93
50,00	16,00	165	50	13	3	42557	228,19
63,00	20,00	200	58	15	4	42560	364,51
80,00	25,00	215	73	17	4	42563	563,35

 Ref. **2690**
**AVELLANADOR MANGO CÓNICO HSS 120°**  
 120° HSS Morse Taper Shank Countersink  
 Fraise à noyer queue cône morse HSS 120°


HSS	DIN 347 B		120°	ISO 3293
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Material		Vc (m/min)	Avances f/rev. (mm/rev) - Feed - Pas							
Grupo	Sub.	HSS	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 60	Ø 80	
P	P.1	15-20	0,120	0,150	0,180	0,200	0,220	0,250	0,280	
	P.2	10-15	0,080	0,100	0,120	0,140	0,160	0,180	0,200	
S		8-12	0,060	0,080	0,090	0,100	0,120	0,140	0,160	

$$\text{r.p.m.} = \frac{Vc \times 1.000}{\pi \times \phi} \quad Vf (\text{mm/min.}) = \text{r.p.m.} \times f$$

D mm	d2 mm	L mm	I mm	Z	CM	N° Art. HSS	€
16,00	3,20	93	20	7	1	42590	67,88
20,00	4,00	116	24	7	2	42593	79,48
25,00	7,00	121	29	9	2	42596	87,08
31,50	9,00	124	32	9	2	42599	114,29
40,00	12,50	150	35	11	3	42602	200,47
50,00	16,00	153	38	13	3	42605	239,59
63,00	20,00	185	43	15	4	42608	382,73
80,00	25,00	196	54	17	4	42611	591,52