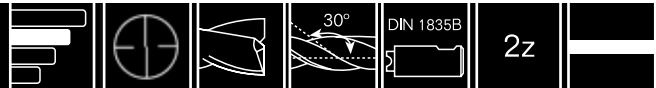


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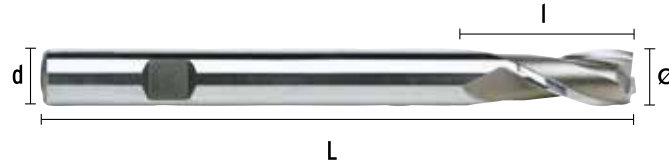
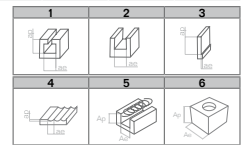


Vc (m/min)	P				M		K			N				S		H		
	<800 ● 30-50	<1.000 ○ 25-30	<1.200	<1.400	<950 ○ 15-20	<1.200	<500 ○ 34-38	<800 ○ 20-24	<1.400	Al	Cu	Mg/Zn	Plastic	Ni	Ti	50 HRC	55 HRC	60 HRC
K	1	1	0,7	0,7	0,7	1	1	1	0,7	1,3	1	1	1,3	0,7	0,7	0,7	0,7	0,7
fz	Ap	Ae	Ø1	Ø2	Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø25	Ø32	Ø40
	1																	
	2	1,2xØ	1xØ		0,009	0,013	0,016	0,022	0,029	0,036	0,044	0,051	0,058	0,065	0,073	0,091	0,116	
	3																	
	4																	
	5																	
	6																	

$v_f(\text{mm/min}) = \text{rpm} \times Z \times f_z \times K$
 $\text{rpm} = (V_c \times 1000) / (\pi \times \phi)$

● Optima / Optimun ○ Alternativo / Alternative

Fresado
Fraisage
Milling
Fräsen



Ø mm	d mm	L mm	l mm	
4,00	6	63	11	1
5,00	6	68	13	1
6,00	6	68	13	1
7,00	10	88	16	1
8,00	10	88	19	1
9,00	10	88	19	1
10,00	10	95	22	1

Ø mm	d mm	L mm	l mm	
12,00	12	110	26	1
14,00	12	110	26	1
16,00	16	123	32	1
18,00	16	123	32	1
20,00	20	141	38	1
22,00	20	141	38	1
25,00	25	166	45	1