

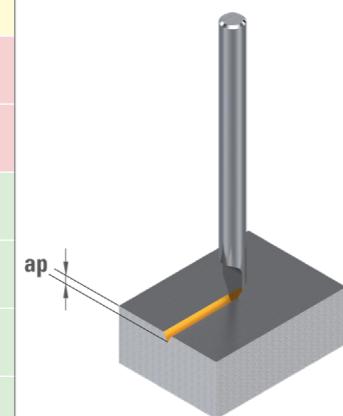
DIXI 7027

$$n \text{ [rpm]} = \frac{Vc \text{ [m/min]} \times 1000}{\pi \times D_1 \text{ [mm]}}$$

$$V_f \text{ [mm/min]} = n \text{ [rpm]} \times f_z \text{ [mm]} \times Z$$

ENGRAVING

		VDI 3323		CARBIDE Vc [m/min]	DINAC Vc [m/min]	DLC Vc [m/min]	ap (mm)	ap (mm)
P	Unalloyed steel, leaded steel	1 - 5		20 - 35'000	20 - 35'000		0.05 - 0.30	0.10 - 0.42
	Low alloyed steel < 800 N/mm ²	6 - 9			20 - 35'000		0.05 - 0.25	0.10 - 0.34
	High-alloy steel > 800 N/mm ² , stainless steel ferr.- marten.	10 - 13			20 - 35'000		0.05 - 0.20	0.10 - 0.26
M	Austenitic stainless steel < 700 N/mm ²	14.1-14.2			20 - 35'000		0.05 - 0.20	0.10 - 0.34
	Nickel-free stainless steel/DUPLEX >700 N/mm ²	14.3-14.4			20 - 35'000		0.05 - 0.25	0.10 - 0.30
K	Grey cast iron < 250 HB	15 - 16		20 - 35'000	20 - 35'000		0.05 - 0.45	0.10 - 0.45
	Ductile, malleable, nodular cast iron > 250 HB	17 - 20		20 - 35'000	20 - 35'000		0.05 - 0.40	0.10 - 0.45
N	Wrought aluminium alloy < 12% Si	21 - 22		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.60	0.10 - 0.45
	Cast aluminium alloy >12% Si	23 - 25		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.45	0.10 - 0.50
	Copper alloy good machinability with Pb	26		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.45	0.10 - 0.45
	Copper alloy with difficult machinability	27 - 28		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.40	0.10 - 0.45
	Plastic, wood	29 - 30		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.45	0.10 - 0.45
	Gold, silver	-		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.40	0.10 - 0.45
	Refractory alloy, Fe, Ni, Co base	31- 35			15 - 25'000			0.04 - 0.10
S	Titanium, titanium alloy	36 - 37		20 - 35'000	20 - 35'000	20 - 35'000	0.05 - 0.35	0.10 - 0.45
	Hardened steel >45 HRC, hard cast iron	38 - 41			20 - 35'000			0.02 - 0.06



Feed rate V_f [mm/min]