

# DIXI 7561



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

$$Vf \text{ [mm/min]} = n \text{ [rpm]} \times fz \text{ [mm]} \times Z$$

## ROUTING

	VDI 3323		CARBIDE Vc [m/min]	DLC Vc [m/min]	ae (mm)	ap (mm)	
N	Wrought aluminium alloy < 12% Si	21 - 22		250	330	<1xD1	<1xD1
	Cast aluminium alloy >12% Si	23 - 35		200	260	<1xD1	<1xD1
	Copper alloy good machinability with Pb	26		275	360	<1xD1	<1xD1
	Copper alloy with difficult machinability	27 - 28		150	200	<1xD1	<0.5xD1
	Gold, silver	-		150	200	<1xD1	<0.5xD1

	Feed per tooth	fz [mm]
Ø D <sub>1</sub> 2.00 - 3.00	0.045 - 0.068	0.090 - 0.112
Ø D <sub>1</sub> 4.00 - 5.00	0.125 - 0.160	0.180 - 0.200
Ø D <sub>1</sub> 6.00 - 8.00	0.030 - 0.045	0.060 - 0.076
Ø D <sub>1</sub> 10.00 - 12.00	0.085 - 0.100	0.120 - 0.130
	0.036 - 0.054	0.072 - 0.090
	0.100 - 0.120	0.140 - 0.160
	0.024 - 0.036	0.048 - 0.060
	0.065 - 0.080	0.100 - 0.110
	0.100 - 0.110	

Values based on cutting oil use. The cutting parameters are very strongly influenced by external parameters, such as tool and workpiece stability, etc.  
The cutting conditions must be adapted to the operating conditions !