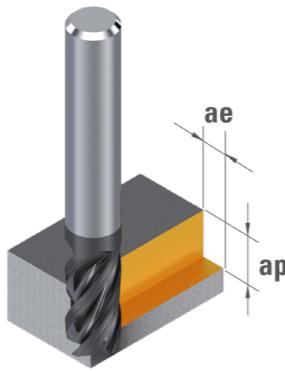


DIXI 7240-xD

ROUTING

	VDI 3323		CARBIDE Vc [m/min]	TiAIN Vc [m/min]	ae (mm)	ap (mm)
P	Unalloyed steel, leaded steel	1 - 5		100	<0.3×ØD1	<1×ØD1
	Low alloyed steel < 800 N/mm ²	6 - 9		80	<0.2×ØD1	<1×ØD1
	High-alloy steel > 800 N/mm ² , stainless steel ferr.- marten.	10 - 13		55	<0.2×ØD1	<1×ØD1
M	Austenitic stainless steel < 700 N/mm ²	14.1-14.2		80	<0.2×ØD1	<1×ØD1
	Nickel-free stainless steel / DUPLEX > 700 N/mm ²	14.3-14.4		55	<0.1×ØD1	<1×ØD1
K	Grey cast iron < 250 HB	15 - 16		110	125	<0.4×ØD1
	Ductile, malleable, nodular cast iron > 250 HB	17 - 20		75	115	<0.3×ØD1
N	Wrought aluminium alloy < 12% Si	21 - 22		320	<0.4×ØD1	<1×ØD1
	Cast aluminium alloy > 12% Si	23 - 25		260	<0.4×ØD1	<1×ØD1
	Copper alloy good machinability with Pb	26		160	<0.1×ØD1	<1×ØD1
	Copper alloy with difficult machinability	27 - 28		140	<0.3×ØD1	<1×ØD1
	Gold, silver	29 - 30		210	<0.5×ØD1	<1×ØD1
	Plastic, wood	-		180	<0.4×ØD1	<1×ØD1
S	Refractory alloy, Fe, Ni, Co base	31- 35		15	30	<0.1×ØD1
	Titane, alliage de titane	36 - 37		60	70	<0.3×ØD1



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

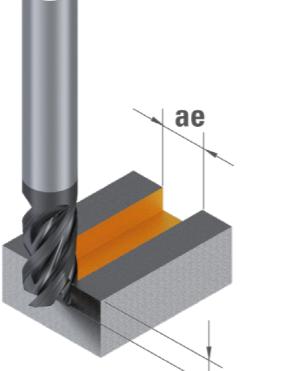
$$V_f [\text{mm/min}] = n [\text{rpm}] \times f_z [\text{mm}] \times Z$$

Feed per tooth $f_z [\text{mm}]$

	$\emptyset D_1$ 0.04 - 0.15	$\emptyset D_1$ 0.20 - 0.50	$\emptyset D_1$ 0.55 - 0.95	$\emptyset D_1$ 1.00 - 1.50	$\emptyset D_1$ 1.55 - 1.95	$\emptyset D_1$ 2.00 - 3.00	$\emptyset D_1$ 3.50 - 4.00	$\emptyset D_1$ 4.50 - 5.50	
0.0003 - 0.0011	0.002 - 0.004	0.004 - 0.008	0.008 - 0.012	0.012 - 0.016	0.016 - 0.025	0.028 - 0.032	0.036 - 0.044		
0.0002 - 0.0009	0.001 - 0.004	0.004 - 0.007	0.007 - 0.011	0.011 - 0.014	0.014 - 0.020	0.025 - 0.028	0.032 - 0.039		
0.0002 - 0.0008	0.001 - 0.003	0.003 - 0.006	0.006 - 0.009	0.009 - 0.012	0.012 - 0.020	0.021 - 0.024	0.027 - 0.033		
0.0002 - 0.0008	0.001 - 0.003	0.003 - 0.006	0.006 - 0.009	0.009 - 0.012	0.012 - 0.020	0.021 - 0.024	0.027 - 0.033		
0.0002 - 0.0007	0.001 - 0.003	0.003 - 0.005	0.005 - 0.008	0.008 - 0.010	0.010 - 0.015	0.018 - 0.020	0.023 - 0.028		
0.0004 - 0.0016	0.002 - 0.006	0.007 - 0.011	0.012 - 0.018	0.019 - 0.023	0.024 - 0.035	0.042 - 0.048	0.054 - 0.066		
0.0003 - 0.0014	0.002 - 0.005	0.006 - 0.010	0.010 - 0.015	0.016 - 0.020	0.020 - 0.030	0.035 - 0.040	0.045 - 0.055		
0.0005 - 0.0020	0.003 - 0.008	0.008 - 0.014	0.015 - 0.023	0.023 - 0.029	0.030 - 0.045	0.053 - 0.060	0.068 - 0.083		
0.0004 - 0.0018	0.003 - 0.007	0.007 - 0.012	0.013 - 0.020	0.020 - 0.025	0.026 - 0.040	0.046 - 0.052	0.058 - 0.072		
0.0005 - 0.0020	0.003 - 0.008	0.008 - 0.014	0.015 - 0.023	0.023 - 0.029	0.030 - 0.045	0.053 - 0.060	0.068 - 0.083		
0.0004 - 0.0016	0.002 - 0.006	0.007 - 0.011	0.012 - 0.018	0.019 - 0.023	0.024 - 0.035	0.042 - 0.048	0.054 - 0.066		
0.0005 - 0.0020	0.003 - 0.008	0.008 - 0.014	0.015 - 0.023	0.023 - 0.029	0.030 - 0.045	0.053 - 0.060	0.068 - 0.083		
0.0003 - 0.0014	0.002 - 0.005	0.006 - 0.010	0.010 - 0.015	0.016 - 0.020	0.020 - 0.030	0.035 - 0.040	0.045 - 0.055		
0.0001 - 0.0005	0.001 - 0.002	0.002 - 0.004	0.004 - 0.006	0.006 - 0.008	0.008 - 0.010	0.014 - 0.016	0.018 - 0.022		
0.0003 - 0.0014	0.002 - 0.005	0.006 - 0.010	0.010 - 0.015	0.016 - 0.020	0.020 - 0.030	0.035 - 0.040	0.045 - 0.055		

SLOTTING

	VDI 3323		CARBIDE Vc [m/min]	TiAIN Vc [m/min]	ae (mm)	ap (mm)
P	Unalloyed steel, leaded steel	1 - 5		70	1×ØD1	<0.8×ØD1
	Low alloyed steel < 800 N/mm ²	6 - 9		55	1×ØD1	<0.8×ØD1
	High-alloy steel > 800 N/mm ² , stainless steel ferr.- marten.	10 - 13		40	1×ØD1	<0.6×ØD1
M	Austenitic stainless steel < 700 N/mm ²	14.1-14.2		55	1×ØD1	<0.6×ØD1
	Nickel-free stainless steel / DUPLEX > 700 N/mm ²	14.3-14.4		40	1×ØD1	<0.6×ØD1
K	Grey cast iron < 250 HB	15 - 16		75	90	1×ØD1
	Ductile, malleable, nodular cast iron > 250 HB	17 - 20		55	80	1×ØD1
N	Wrought aluminium alloy < 12% Si	21 - 22		225	1×ØD1	<1.0×ØD1
	Cast aluminium alloy > 12% Si	23 - 25		185	1×ØD1	<0.8×ØD1
	Copper alloy good machinability with Pb	26		110	1×ØD1	<0.8×ØD1
	Copper alloy with difficult machinability	27 - 28		95	1×ØD1	<0.8×ØD1
	Gold, silver	29 - 30		150	1×ØD1	<1.0×ØD1
	Plastic, wood	-		125	1×ØD1	<1.0×ØD1
S	Refractory alloy, Fe, Ni, Co base	31- 35		10	20	1×ØD1
	Titane, alliage de titane	36 - 37		40	50	1×ØD1



	$\emptyset D_1$ 0.04 - 0.15	$\emptyset D_1$ 0.20 - 0.50	$\emptyset D_1$ 0.55 - 0.95	$\emptyset D_1$ 1.00 - 1.50	$\emptyset D_1$ 1.55 - 1.95	$\emptyset D_1$ 2.00 - 3.00	$\emptyset D_1$ 3.50 - 4.00	$\emptyset D_1$ 4.50 - 5.50	
0.0002 - 0.0010	0.002 - 0.003	0.003 - 0.006	0.006 - 0.009	0.009 - 0.012	0.012 - 0.020	0.021 - 0.024	0.027 - 0.033		
0.0002 - 0.0010	0.001 - 0.003	0.003 - 0.005	0.005 - 0.008	0.008 - 0.011	0.011 - 0.015	0.019 - 0.021	0.024 - 0.029		
0.0002 - 0.0010	0.001 - 0.002	0.002 - 0.005	0.005 - 0.007	0.007 - 0.009	0.009 - 0.				