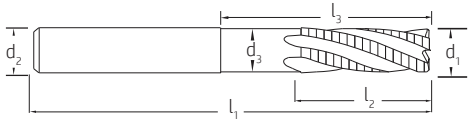


RHINO 0500

4 Flute 30°/32° Helix Roughing Profile Endmills, Corner Chamfer

EMC 050



Technical Info. Page No. 131

Steels <45HRC	Stainless Steels -	Cast Irons <390 HB	Hardened Steels -	Titaniums -	Super Alloys -	Aluminiums -
------------------	-----------------------	-----------------------	----------------------	----------------	-------------------	-----------------

d_1	d_1	d_2	d_3	l_2	l_3	l_1	CCx45°	z	EDP No. HA	EDP No. HB
	tol.	h6	-0.2	±0.50	±0.50	±0.80	-0.05		AlCrN	AlCrN
4.0	-0.025	6	3.8	11.0	17	57	0.15	4	EMCA 0500M 0400	EMCA 0501M 0400
5.0	-0.025	6	4.8	13.0	19	57	0.15	4	EMCA 0500M 0500	EMCA 0501M 0500
6.0	-0.025	6	5.8	13.0	21	57	0.20	4	EMCA 0500M 0600	EMCA 0501M 0600
8.0	-0.025	8	7.6	19.0	27	63	0.20	4	EMCA 0500M 0800	EMCA 0501M 0800
10.0	-0.035	10	9.5	22.0	32	72	0.30	4	EMCA 0500M 1000	EMCA 0501M 1000
12.0	-0.035	12	11.5	26.0	38	83	0.35	4	EMCA 0500M 1200	EMCA 0501M 1200
16.0	-0.035	16	15.5	32.0	44	92	0.40	4	EMCA 0500M 1600	EMCA 0501M 1600
20.0	-0.035	20	19.5	38.0	54	104	0.50	4	EMCA 0500M 2000	EMCA 0501M 2000

STEELS

INOX

SUPERNOX

CHIPSPLITTERS

Aluminiums

ROCKSTARS

MICRO MILLS

UNIVERSAL

DRILLS

MATERIAL		Hardness	ap max xD	ae max xD	Vc (m/min)	fz (mm/z) Ø							
SLOTTING						4	5	6	8	10	12	16	20
P	Steels, Alloy Steels and Tool Steels	<850 N/mm ²	1	1	110	0.014	0.018	0.026	0.034	0.041	0.047	0.058	0.071
	Steels, Alloy Steels and Tool Steels	850-1200 N/mm ²	1	1	70	0.013	0.016	0.024	0.031	0.037	0.042	0.052	0.064
	Steels, Alloy Steels and Tool Steels	<1400 N/mm ²	1	1	50	0.010	0.013	0.020	0.026	0.031	0.035	0.044	0.053
M	Stainless Steel : Easy To Machine	<750 N/mm ²											
	Stainless Steel : Difficult To Machine	<950 N/mm ²	0.5	1	50	0.010	0.013	0.020	0.026	0.031	0.035	0.044	0.053
K	Cast Irons, Grey, Spher., Malleable	<300 HB	1	1	70	0.013	0.016	0.024	0.031	0.037	0.042	0.052	0.064
N	Aluminiums, Aluminiums Alloys	<6% Si											
S	Titanium , Titanium Alloys	<1100N/mm ²											
S	HRSA (Nickel Alloys, Co. Alloys)	<1300N/mm ²	0.5	1	30	0.012	0.015	0.018	0.024	0.029	0.033	0.041	0.050
SIDE MILLING													
P	Steels, Alloy Steels and Tool Steels	<850 N/mm ²	1.5	0.5	130	0.020	0.025	0.031	0.041	0.049	0.056	0.070	0.085
	Steels, Alloy Steels and Tool Steels	850-1200 N/mm ²	1.5	0.5	90	0.020	0.025	0.028	0.037	0.044	0.050	0.063	0.077
	Steels, Alloy Steels and Tool Steels	<1400 N/mm ²	1.2	0.3	60	0.016	0.020	0.025	0.033	0.039	0.045	0.056	0.068
M	Stainless Steel : Easy To Machine	<750 N/mm ²											
	Stainless Steel : Difficult To Machine	<950 N/mm ²	1.2	0.3	60	0.016	0.020	0.025	0.033	0.039	0.045	0.056	0.068
K	Cast Irons, Grey, Spher., Malleable	<300 HB	1.5	0.5	90	0.020	0.025	0.028	0.037	0.044	0.050	0.063	0.077
N	Aluminiums, Aluminiums Alloys	<6% Si											
S	Titanium , Titanium Alloys	<1100N/mm ²											
S	HRSA (Nickel Alloys, Co. Alloys)	<1300N/mm ²	1.2	0.3	40	0.024	0.030	0.035	0.045	0.054	0.062	0.077	0.094
RAMPING													
P	Steels, Alloy Steels and Tool Steels	<850 N/mm ²											
	Steels, Alloy Steels and Tool Steels	850-1200 N/mm ²											
	Steels, Alloy Steels and Tool Steels	<1400 N/mm ²											
M	Stainless Steel : Easy To Machine	<750 N/mm ²											
	Stainless Steel : Difficult To Machine	<950 N/mm ²											
K	Cast Irons, Grey, Spher., Malleable	<300 HB											
N	Aluminiums, Aluminiums Alloys	<6% Si											
S	Titanium , Titanium Alloys	<1100N/mm ²											
S	HRSA (Nickel Alloys, Co. Alloys)	<1300N/mm ²											
HELICAL MILLING													
P	Steels, Alloy Steels and Tool Steels	<850 N/mm ²	7°	04	110	0.012	0.015	0.018	0.024	0.029	0.033	0.041	0.050
	Steels, Alloy Steels and Tool Steels	850-1200 N/mm ²	5°	04	70	0.011	0.014	0.017	0.022	0.027	0.031	0.038	0.046
	Steels, Alloy Steels and Tool Steels	<1400 N/mm ²	3°	04	50	0.010	0.013	0.016	0.020	0.025	0.028	0.035	0.043
M	Stainless Steel : Easy To Machine	<750 N/mm ²											
	Stainless Steel : Difficult To Machine	<950 N/mm ²	3°	04	50	0.010	0.013	0.016	0.020	0.025	0.028	0.035	0.043
K	Cast Irons, Grey, Spher., Malleable	<300 HB	5°	04	70	0.011	0.014	0.017	0.022	0.027	0.031	0.038	0.046
N	Aluminiums, Aluminiums Alloys	<6% Si											
S	Titanium , Titanium Alloys	<1100N/mm ²											
S	HRSA (Nickel Alloys, Co. Alloys)	<1300N/mm ²											
DRILLING													
P	Steels, Alloy Steels and Tool Steels	<850 N/mm ²											
	Steels, Alloy Steels and Tool Steels	850-1200 N/mm ²											
	Steels, Alloy Steels and Tool Steels	<1400 N/mm ²											
M	Stainless Steel : Easy To Machine	<750 N/mm ²											
	Stainless Steel : Difficult To Machine	<950 N/mm ²											
K	Cast Irons, Grey, Spher., Malleable	<300 HB											
N	Aluminiums, Aluminiums Alloys	<6% Si											
S	Titanium , Titanium Alloys	<1100N/mm ²											
S	HRSA (Nickel Alloys, Co. Alloys)	<1300N/mm ²											
TROCROIDAL MILLING													
P	Steels, Alloy Steels and Tool Steels	<850 N/mm ²	2	0.1	160	0.044	0.055	0.066	0.085	0.102	0.117	0.146	0.177
	Steels, Alloy Steels and Tool Steels	850-1200 N/mm ²	2	0.1	110	0.039	0.049	0.059	0.077	0.092	0.105	0.131	0.160
	Steels, Alloy Steels and Tool Steels	<1400 N/mm ²	1.5	0.05	80	0.036	0.045	0.052	0.068	0.082	0.093	0.117	0.142
M	Stainless Steel : Easy To Machine	<750 N/mm ²											
	Stainless Steel : Difficult To Machine	<950 N/mm ²	1.5	0.05	80	0.036	0.045	0.052	0.068	0.082	0.093	0.117	0.142
K	Cast Irons, Grey, Spher., Malleable	<300 HB	2	0.1	110	0.039	0.049	0.059	0.077	0.092	0.105	0.131	0.160
N	Aluminiums, Aluminiums Alloys	<6% Si											
S	Titanium , Titanium Alloys	<1100N/mm ²											
S	HRSA (Nickel Alloys, Co. Alloys)	<1300N/mm ²	1.5	0.05	50	0.048	0.060	0.072	0.094	0.112	0.128	0.016	0.195

Technical Data provided should be considered advisory only as variations may be necessary depending on the particular application