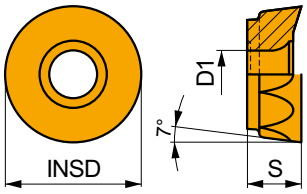
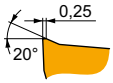
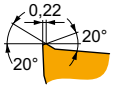
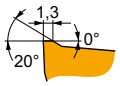
RCMT 20

	INSD	D1	S
	[mm]	[mm]	[mm]
2006	20.0	6.50	6.35

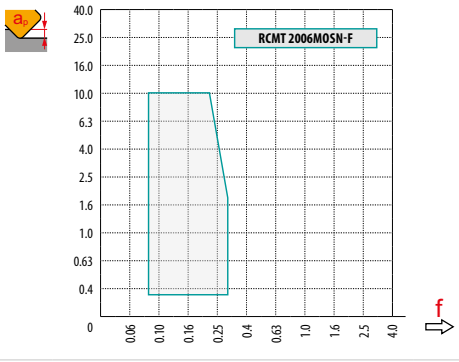


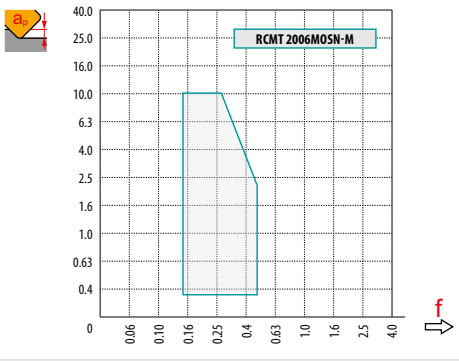
Suitability and starting values for cutting speed (vc), feed (f) and depth of cut (ap). Refer to our Machining Calculator app for further calculations.

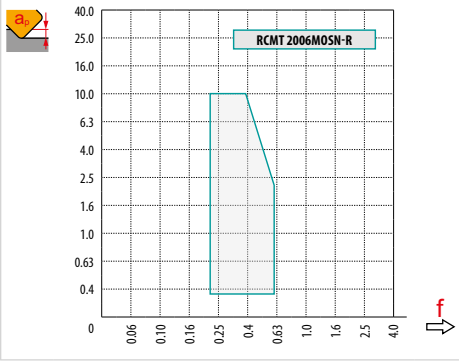
Product		RE	P			M			K			N			S			H		
			vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap	vc	f	ap
		[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]	[m/min]	[mm/tooth]	[mm]
			HFC S																	
			F geometry with highly positive design for light machining.																	
RCMT 2006MOSN-F	**M8330**	–	■ 320	0.15	3.0	◪ 190	0.14	3.0	–	–	–	–	–	–	◪ 80	0.11	2.4	–	–	–
			U HFC S																	
			M geometry with highly positive design for medium machining.																	
RCMT 2006MOSN-M	**M6330**	–	■ 225	0.30	3.0	◪ 155	0.27	3.0	–	–	–	–	–	–	■ 65	0.21	2.4	–	–	–
	M8330	–	■ 255	0.30	3.0	◪ 150	0.27	3.0	■ 240	0.30	3.0	–	–	–	◪ 60	0.21	2.4	–	–	–
	M8345	–	■ 190	0.30	3.0	◪ 110	0.27	3.0	–	–	–	–	–	–	■ 45	0.21	2.4	–	–	–
	M9315	–	■ 330	0.30	3.0	–	–	–	■ 310	0.30	3.0	–	–	–	–	–	–	–	–	–
	M9325	–	■ 315	0.30	3.0	–	–	–	■ 295	0.30	3.0	–	–	–	–	–	–	–	–	–
	M9340	–	■ 275	0.30	3.0	◪ 165	0.27	3.0	–	–	–	–	–	–	■ 65	0.21	2.4	–	–	–
			HFC P																	
			R geometry with positive design for rough copy machining.																	
RCMT 2006MOSN-R	**M8330**	–	■ 225	0.45	3.0	–	–	–	■ 210	0.45	3.0	–	–	–	◪ 55	0.32	2.4	◪ 45	0.15	1.0
	M8345	–	■ 165	0.45	3.0	–	–	–	–	–	–	–	–	–	◪ 40	0.32	2.4	–	–	–
	M9325	–	■ 260	0.45	3.0	–	–	–	■ 245	0.45	3.0	–	–	–	–	–	–	◪ 50	0.15	1.0

a_e / DCX	5 %	10 %	15 %	20 %	25 %	30 %	40 %	50 %	60 %	70 %	75 %	80 %	90 %	100 %
X.V	1.48	1.35	1.27	1.22	1.19	1.16	1.11	1.08	1.05	1.03	1.00	1.00	1.00	1.00
x.f	2.20	1.60	1.35	1.20	1.10	0.95	0.85	0.75	0.85	0.95	1.00	1.00	1.00	1.00
x.f	0.64	0.64	0.64	0.64	0.64	0.65	0.65	0.67	0.68	0.71	0.72	0.74	0.79	1.00

	RCMT 20-F	RCMT 20-M	RCMT 20-R
RE	10.0	10.0	10.0
BS	–	–	–







DCX	a_p	0.00	0.30	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
80	DEF	60.0	64.9	66.2	67.6	68.7	69.7	70.5	72.0	73.2	74.3	76.0	77.3	78.3	79.1	79.6	79.9	80.0
100		80.0	84.9	86.2	87.6	88.7	89.7	90.5	92.0	93.2	94.3	96.0	97.3	98.3	99.1	99.6	99.9	100.0
125		105.0	109.9	111.2	112.6	113.7	114.7	115.5	117.0	118.2	119.3	121.0	122.3	123.3	124.1	124.6	124.9	125.0
160		140.0	144.9	146.2	147.6	148.7	149.7	150.5	152.0	153.2	154.3	156.0	157.3	158.3	159.1	159.6	159.9	160.0
	a_p	–	0.30	0.50	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
	f	–	1.23	0.95	0.78	0.68	0.61	0.55	0.48	0.43	0.40	0.35	0.31	0.29	0.27	0.26	0.25	0.24

DCX	RPMX	APMX/I
80	7.0	10.0/83
100	5.0	8.6/100

DCX	DMIN	DMAX	SMAX DMIN	SMAX DMAX
80	120.0	160.0	10.0	10.0
100	160.0	200.0	10.0	10.0

a_p
6.0

DCX	µm	3	5	10	15	20	30	40	50	60	80	100
80	FE	0.980	1.265	1.789	2.191	2.530	3.098	3.578	4.000	4.382	5.060	5.657
100		1.095	1.414	2.000	2.449	2.828	3.464	4.000	4.472	4.899	5.657	6.325
125		1.225	1.581	2.236	2.739	3.162	3.873	4.472	5.000	5.477	6.325	7.071
160		1.386	1.789	2.530	3.098	3.578	4.382	5.060	5.657	6.197	7.155	8.000

RE	µm	3	5	10	15	20	30	40	50	60	80	100
10.0	FE	0.490	0.632	0.894	1.095	1.265	1.549	1.789	2.000	2.191	2.530	2.828

