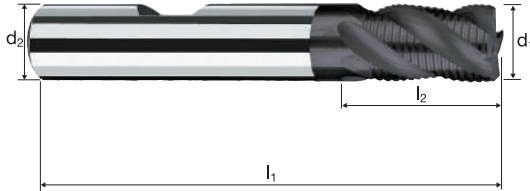


Cylindrical end mills SupraCarb®

Profiled, short version



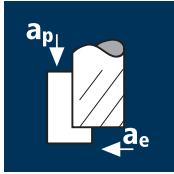
HM
MG10 λ 38°
 γ 0°



Rm < 850	Rm 850-1100	Rm 1100-1300					Inox Stainless	Ti Titanium	GG(G) Tool Steel
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Example: Order-N°.		Coating P	Article-N° 15360	ø-Code 180						POLYCHROM	
Ø Code	d ₁ e8	d ₂ h6	l ₁	l ₂	l ₄	45°	z				
180	3.00	6.00	50	5.00	12.56	0.25	3			●	
220	4.00	6.00	54	8.00	14.09	0.30	3			●	
260	5.00	6.00	54	9.00	13.22	0.35	4			●	
300	6.00	6.00	54	10.00	-	0.35	4			●	
391	8.00	8.00	58	12.00	-	0.45	4			●	
450	10.00	10.00	66	14.00	-	0.60	4			●	
501	12.00	12.00	73	16.00	-	0.60	4			●	
610	16.00	16.00	82	22.00	-	0.70	4			●	
612	16.00	16.00	82	22.00	-	0.70	6			●	

Application



Material

Steel
< 850 N/mm²



d1 [mm]	z	v _c [m/min]	f _s [mm]	a _p [mm]	a _e [mm]	n [min ⁻¹]	v _r [mm/min]	Q [cm ³ /min]
3.00	3	180	0.015	3.000	2.100	19100	860	5.4
4.00	3	180	0.020	4.000	2.800	14325	860	9.6
5.00	4	180	0.030	5.000	3.500	11460	1375	24.1
6.00	4	180	0.035	6.000	4.200	9550	1335	33.7
8.00	4	180	0.045	8.000	5.600	7160	1290	57.8
10.00	4	180	0.055	10.000	7.000	5730	1260	88.2
12.00	4	180	0.060	12.000	8.400	4775	1145	115.5
16.00	4	180	0.065	16.000	11.200	3580	930	166.8

Steel
850 - 1100 N/mm²



3.00	3	130	0.015	3.000	2.100	13795	620	3.9
4.00	3	130	0.020	4.000	2.800	10345	620	7.0
5.00	4	130	0.030	5.000	3.500	8275	995	17.4
6.00	4	130	0.035	6.000	4.200	6895	965	24.3
8.00	4	130	0.045	8.000	5.600	5175	930	41.7
10.00	4	130	0.055	10.000	7.000	4140	910	63.7
12.00	4	130	0.060	12.000	8.400	3450	830	83.4
16.00	4	130	0.065	16.000	11.200	2585	670	120.5

Titanium alloys
> 300 HB
[Ti6Al4V]

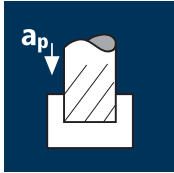


3.00	3	45	0.015	3.000	2.100	4775	215	1.4
4.00	3	45	0.020	4.000	2.800	3580	215	2.4
5.00	4	45	0.020	5.000	3.500	2865	230	4.0
6.00	4	45	0.025	6.000	4.200	2385	240	6.0
8.00	4	45	0.035	8.000	5.600	1790	250	11.2
10.00	4	45	0.045	10.000	7.000	1430	260	18.0
12.00	4	45	0.050	12.000	8.400	1195	240	24.1
16.00	4	45	0.050	16.000	11.200	895	180	32.1

Inox normal
[Cr-Ni/1.4301]
[Cr-Ni-Mo/1.4571]



3.00	3	60	0.015	3.000	2.100	6365	285	1.8
4.00	3	60	0.020	4.000	2.800	4775	285	3.2
5.00	4	60	0.020	5.000	3.500	3820	305	5.3
6.00	4	60	0.025	6.000	4.200	3185	320	8.0
8.00	4	60	0.035	8.000	5.600	2385	335	15.0
10.00	4	60	0.045	10.000	7.000	1910	345	24.1
12.00	4	60	0.050	12.000	8.400	1590	320	32.1
16.00	4	60	0.050	16.000	11.200	1195	240	42.8



Steel
< 850 N/mm²



3.00	3	150	0.015	3.000	3.000	15915	715	6.4
4.00	3	150	0.020	4.000	4.000	11935	715	11.5
5.00	4	150	0.025	5.000	5.000	9550	955	23.9
6.00	4	150	0.030	6.000	6.000	7960	955	34.4
8.00	4	150	0.040	8.000	8.000	5970	955	61.1
10.00	4	150	0.050	10.000	10.000	4775	955	95.5
12.00	4	150	0.055	12.000	12.000	3980	875	126.1
16.00	4	150	0.055	16.000	16.000	2985	655	168.1

Steel
850 - 1100 N/mm²



3.00	3	80	0.015	3.000	3.000	8490	380	3.4
4.00	3	80	0.020	4.000	4.000	6365	380	6.1
5.00	4	80	0.025	5.000	5.000	5095	510	12.7
6.00	4	80	0.030	6.000	6.000	4245	510	18.3
8.00	4	80	0.040	8.000	8.000	3185	510	32.6
10.00	4	80	0.050	10.000	10.000	2545	510	50.9
12.00	4	80	0.055	12.000	12.000	2120	465	67.2
16.00	4	80	0.055	16.000	16.000	1590	350	89.6

Titanium alloys
> 300 HB
[Ti6Al4V]



3.00	3	35	0.010	3.000	3.000	3715	110	1.0
4.00	3	35	0.015	4.000	4.000	2785	125	2.0
5.00	4	35	0.020	5.000	5.000	2230	180	4.5
6.00	4	35	0.025	6.000	6.000	1855	185	6.7
8.00	4	35	0.030	8.000	8.000	1395	165	10.7
10.00	4	35	0.040	10.000	10.000	1115	180	17.8
12.00	4	35	0.045	12.000	12.000	930	165	24.1
16.00	4	35	0.045	16.000	16.000	695	125	32.1

Inox normal
[Cr-Ni/1.4301]
[Cr-Ni-Mo/1.4571]



3.00	3	50	0.010	3.000	3.000	5305	160	1.4
4.00	3	50	0.015	4.000	4.000	3980	180	2.9
5.00	4	50	0.020	5.000	5.000	3185	255	6.4
6.00	4	50	0.025	6.000	6.000	2655	265	9.5
8.00	4	50	0.030	8.000	8.000	1990	240	15.3
10.00	4	50	0.040	10.000	10.000	1590	255	25.5
12.00	4	50	0.045	12.000	12.000	1325	240	34.4
16.00	4	50	0.045	16.000	16.000	995	180	45.8