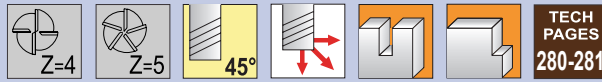


**TOLERANCES**

$d1$	+0.000° -0.002° (+.000 -0.050mm)
$d2$	h6

Series 545MA

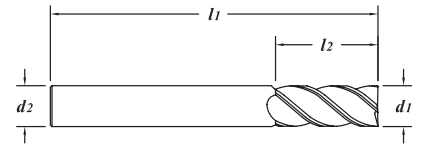


Recommended for Hardened Die Mold, Inconel, Tool Steels >40Rc

**Square End**

**AlTiN Coating**

Solid submicron grain carbide end mill - center cutting  
 High performance tool for use in high Rockwell materials  
 Corner Radius - page 176  
 Ball End - page 177



EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	Number of Flutes	1-11	12-24	25-49	50-100	
	Decimal	Metric									
21200	.1181	3.000	3.0	38	12	4	14.32	13.70	13.07	12.45	
21230	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	4	13.60	13.01	12.42	11.83
21260	.1575	4.000	6.0	50	12	4	23.13	22.12	21.12	20.11	
21290	.1875	3/16"	4.763	3/16"	2"	9/16"	4	17.10	16.36	15.61	14.87
21320	.1969	5.000	6.0	65	15	4	25.33	24.23	23.13	22.03	
21350	.2362	6.000	6.0	65	19	4	24.56	23.50	22.43	21.36	
21380	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	4	23.68	22.65	21.62	20.59
21410	.2756	7.000	8.0	65	22	5	37.10	35.49	33.87	32.26	
21440	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	5	32.14	30.75	29.35	27.95
21470	.3150	8.000	8.0	65	22	5	33.79	32.32	30.85	29.38	
21500	.3543	9.000	10.0	65	22	5	49.63	47.48	45.32	43.16	
21530	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	5	37.26	35.64	34.02	32.40
21560	.3937	10.000	10.0	70	22	5	44.97	43.01	41.06	39.10	
21620	.4724	12.000	12.0	75	32	5	65.93	63.06	60.20	57.33	
21660	.5000	1/2"	12.700	1/2"	3"	1-1/4"	5	62.69	59.96	57.24	54.51
21710	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	5	99.53	95.21	90.88	86.55
21740	.6299	16.000	16.0	88	32	5	104.68	100.13	95.58	91.03	
21800	.7500	3/4"	19.050	3/4"	4"	1-1/2"	5	142.57	136.37	130.17	123.97
21830	.7874	20.000	20.0	100	38	5	201.55	192.79	184.02	175.26	
21890	.9843	25.000	25.0	100	38	5	251.99	241.03	230.08	219.12	
21920	1.000	1"	25.400	1"	4"	1-1/2"	5	243.64	233.05	222.45	211.86

70  
35  
0  
MATERIAL HARDNESS (Rc)

HIGH PERFORMANCE  
END MILLS