

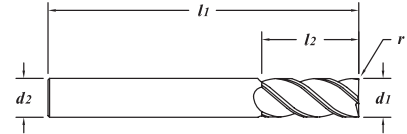
TOLERANCES	
$d_1$	+0.000" -0.002" (+0.000mm -0.050mm)
$d_2$	h6
$r$	+0.001" -0.001" (+0.025 -0.025mm)

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

**Corner Radius**

**AlTiN Coating**

Solid submicron grain carbide end mill - center cutting  
 High performance tool for use in high Rockwell materials  
 Square End - page 175  
 Ball End - page 177



MATERIAL HARDNESS (Rc)  
70  
35  
0

EDP#	$d_1$ † Diameter		$d_2$ Shank Diameter	$l_1$ Overall Length	$l_2$ Flute Length	$r$ Corner Radius	Number of Flutes	1-11	12-24	25-49	50-100	
	Decimal	Metric										
21202	.1181	3.000	3.0	38	12	0.20	4	15.63	14.95	14.27	13.59	
21212	.1181	3.000	3.0	38	12	0.50	4	15.63	14.95	14.27	13.59	
21232	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	.010"	4	14.85	14.20	13.56	12.91
21242	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	.020"	4	14.85	14.20	13.56	12.91
21262	.1575	4.000	6.0	50	12	0.30	4	25.20	24.10	23.01	21.91	
21292	.1875	3/16"	4.763	3/16"	2"	9/16"	.010"	4	18.66	17.85	17.04	16.23
21302	.1875	3/16"	4.763	3/16"	2"	9/16"	.020"	4	18.66	17.85	17.04	16.23
21322	.1969	5.000	6.0	65	15	0.30	4	27.49	26.29	25.10	23.90	
21342	.2362	6.000	6.0	65	19	0.20	4	26.62	25.47	24.31	23.15	
21352	.2362	6.000	6.0	65	19	0.50	4	26.62	25.47	24.31	23.15	
21372	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.010"	4	25.65	24.53	23.42	22.30
21382	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.015"	4	25.65	24.53	23.42	22.30
21392	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	.030"	4	25.65	24.53	23.42	22.30
21412	.2756	7.000	8.0	65	22	0.50	5	40.23	38.48	36.73	34.98	
21432	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	.010"	5	34.73	33.22	31.71	30.20
21442	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	.015"	5	34.73	33.22	31.71	30.20
21452	.3125	5/16"	7.938	5/16"	2-1/2"	13/16"	.030"	5	34.73	33.22	31.71	30.20
21462	.3150	8.000	8.0	65	22	0.20	5	36.56	34.97	33.38	31.79	
21472	.3150	8.000	8.0	65	22	0.50	5	36.56	34.97	33.38	31.79	
21502	.3543	9.000	10.0	65	22	0.50	5	54.03	51.68	49.33	46.98	
21522	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.010"	5	40.41	38.65	36.90	35.14
21532	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.015"	5	40.41	38.65	36.90	35.14
21542	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	.030"	5	40.41	38.65	36.90	35.14
21552	.3937	10.000	10.0	70	22	0.20	5	48.83	46.71	44.58	42.46	
21562	.3937	10.000	10.0	70	22	0.50	5	48.83	46.71	44.58	42.46	
21612	.4724	12.000	12.0	75	32	0.50	5	72.13	68.99	65.86	62.72	
21622	.4724	12.000	12.0	75	32	1.00	5	72.13	68.99	65.86	62.72	
21642	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.010"	5	68.52	65.54	62.56	59.58
21652	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.015"	5	68.52	65.54	62.56	59.58
21662	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.030"	5	68.52	65.54	62.56	59.58
21672	.5000	1/2"	12.700	1/2"	3"	1-1/4"	.060"	5	68.52	65.54	62.56	59.58
21692	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.010"	5	108.97	104.24	99.50	94.76
21702	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.015"	5	108.97	104.24	99.50	94.76
21712	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.030"	5	108.97	104.24	99.50	94.76
21722	.6250	5/8"	15.875	5/8"	3-1/2"	1-1/4"	.060"	5	108.97	104.24	99.50	94.76
21732	.6299	16.000	16.0	88	32	0.50	5	114.71	109.73	104.74	99.75	
21742	.6299	16.000	16.0	88	32	1.00	5	114.71	109.73	104.74	99.75	
21772	.7087	18.000	18.0	100	38	0.50	5	163.71	156.60	149.48	142.36	
21802	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.015"	5	156.66	149.85	143.04	136.23
21812	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.030"	5	156.66	149.85	143.04	136.23
21822	.7500	3/4"	19.050	3/4"	4"	1-1/2"	.060"	5	156.66	149.85	143.04	136.23
21832	.7874	20.000	20.0	100	38	0.50	5	221.48	211.85	202.22	192.59	
21922	1.000	1"	25.400	1"	4"	1-1/2"	.015"	5	267.74	256.10	244.46	232.82
21932	1.000	1"	25.400	1"	4"	1-1/2"	.030"	5	267.74	256.10	244.46	232.82
21942	1.000	1"	25.400	1"	4"	1-1/2"	.060"	5	267.74	256.10	244.46	232.82