

NEW SERIES

Series 170RA, 870RA

TOLERANCES

d_1	+0.000" - .002" (+.000 - .050mm)
d_2	h6
r	+0.001" - .001" (+.025 - .025mm)

.0625" - .3150"
(1.588mm - 8.000mm)



TECH PAGES
258,260

END MILLS



Stub Length - Corner Radius

TiAlN Coating

Solid submicron grain carbide end mill - center cutting

Dry or semi-dry machining

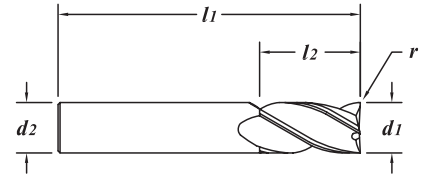
For stronger corners and part radius

Extremely versatile

Standard Length - page

Uncoated - page

Extended Length - page



EDP#	d_1 †		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Diameter									Metric
30702	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	.010"	12.64	12.09	11.54	10.99
30704	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	.015"	12.64	12.09	11.54	10.99
30706	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.010"	12.09	11.56	11.04	10.51
30708	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.015"	12.09	11.56	11.04	10.51
30710	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.020"	12.09	11.56	11.04	10.51
30712	.1181		3.000	3.0	38	6	0.20	12.32	11.78	11.25	10.71
30714	.1181		3.000	3.0	38	6	0.50	12.32	11.78	11.25	10.71
30716	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.010"	11.85	11.33	10.82	10.30
30718	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.015"	11.85	11.33	10.82	10.30
30720	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.020"	11.85	11.33	10.82	10.30
30722	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.030"	11.85	11.33	10.82	10.30
30724	.1575		4.000	4.0	50	8	0.30	15.53	14.85	14.18	13.50
30726	.1575		4.000	4.0	50	8	0.50	15.53	14.85	14.18	13.50
30728	.1875	3/16"	4.763	3/16"	2"	3/8"	.010"	14.88	14.23	13.59	12.94
30730	.1875	3/16"	4.763	3/16"	2"	3/8"	.015"	14.88	14.23	13.59	12.94
30732	.1875	3/16"	4.763	3/16"	2"	3/8"	.020"	14.88	14.23	13.59	12.94
30734	.1875	3/16"	4.763	3/16"	2"	3/8"	.030"	14.88	14.23	13.59	12.94
30736	.1969		5.000	5.0	50	10	0.30	20.15	19.27	18.40	17.52
30738	.1969		5.000	5.0	50	10	0.50	20.15	19.27	18.40	17.52
24117	.1969		5.000	5.0	50	16	0.30	24.09	23.05	22.00	20.95
30740	.2362		6.000	6.0	50	12	0.50	20.95	20.04	19.13	18.22
30742	.2362		6.000	6.0	50	12	0.80	20.95	20.04	19.13	18.22
30744	.2362		6.000	6.0	50	12	1.00	20.95	20.04	19.13	18.22
30746	.2362		6.000	6.0	50	12	1.50	20.95	20.04	19.13	18.22
30748	.2362		6.000	6.0	50	12	2.00	20.95	20.04	19.13	18.22
30750	.2500	1/4"	6.350	1/4"	2"	1/2"	.010"	20.10	19.23	18.35	17.48
30752	.2500	1/4"	6.350	1/4"	2"	1/2"	.015"	20.10	19.23	18.35	17.48
30754	.2500	1/4"	6.350	1/4"	2"	1/2"	.020"	20.10	19.23	18.35	17.48
30756	.2500	1/4"	6.350	1/4"	2"	1/2"	.030"	20.10	19.23	18.35	17.48
30758	.2500	1/4"	6.350	1/4"	2"	1/2"	.045"	20.10	19.23	18.35	17.48
30760	.2500	1/4"	6.350	1/4"	2"	1/2"	.060"	20.10	19.23	18.35	17.48
30762	.3125	5/16"	7.938	5/16"	2"	1/2"	.015"	27.72	26.51	25.31	24.10
30764	.3125	5/16"	7.938	5/16"	2"	1/2"	.020"	27.72	26.51	25.31	24.10
30766	.3125	5/16"	7.938	5/16"	2"	1/2"	.030"	27.72	26.51	25.31	24.10
30768	.3125	5/16"	7.938	5/16"	2"	1/2"	.045"	27.72	26.51	25.31	24.10
30770	.3125	5/16"	7.938	5/16"	2"	1/2"	.060"	27.72	26.51	25.31	24.10
30772	.3150		8.000	8.0	50	12	0.50	28.88	27.62	26.37	25.11
30774	.3150		8.000	8.0	50	12	0.80	28.88	27.62	26.37	25.11
30776	.3150		8.000	8.0	50	12	1.00	28.88	27.62	26.37	25.11
30778	.3150		8.000	8.0	50	12	1.50	28.88	27.62	26.37	25.11
30780	.3150		8.000	8.0	50	12	2.00	28.88	27.62	26.37	25.11
30782	.3150		8.000	8.0	50	12	2.50	28.88	27.62	26.37	25.11
30784	.3150		8.000	8.0	50	12	3.00	28.88	27.62	26.37	25.11

MATERIAL HARDNESS (Rc)

70

35

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Series 170RA, 870RA (continued)

.3750" - .7500"
(9.525mm - 19.050mm)

END MILLS

EDP#	d_1 †		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Diameter									Metric
30786	.3750	3/8"	9.525	3/8"	2"	5/8"	.010"	32.88	31.45	30.02	28.59
30788	.3750	3/8"	9.525	3/8"	2"	5/8"	.015"	32.88	31.45	30.02	28.59
30790	.3750	3/8"	9.525	3/8"	2"	5/8"	.020"	32.88	31.45	30.02	28.59
30792	.3750	3/8"	9.525	3/8"	2"	5/8"	.030"	32.88	31.45	30.02	28.59
30794	.3750	3/8"	9.525	3/8"	2"	5/8"	.045"	32.88	31.45	30.02	28.59
30796	.3750	3/8"	9.525	3/8"	2"	5/8"	.060"	32.88	31.45	30.02	28.59
30798	.3937		10.000	10.0	50	16	0.50	38.08	36.42	34.77	33.11
30800	.3937		10.000	10.0	50	16	0.80	38.08	36.42	34.77	33.11
30802	.3937		10.000	10.0	50	16	1.00	38.08	36.42	34.77	33.11
30804	.3937		10.000	10.0	50	16	1.50	38.08	36.42	34.77	33.11
30806	.3937		10.000	10.0	50	16	2.00	38.08	36.42	34.77	33.11
30808	.3937		10.000	10.0	50	16	2.50	38.08	36.42	34.77	33.11
30810	.3937		10.000	10.0	50	16	3.00	38.08	36.42	34.77	33.11
30812	.3937		10.000	10.0	50	16	3.20	38.08	36.42	34.77	33.11
30814	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.010"	42.64	40.79	38.93	37.08
30816	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.015"	42.64	40.79	38.93	37.08
30818	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.020"	42.64	40.79	38.93	37.08
30820	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.030"	42.64	40.79	38.93	37.08
30822	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.045"	42.64	40.79	38.93	37.08
30824	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.060"	42.64	40.79	38.93	37.08
30826	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.090"	42.64	40.79	38.93	37.08
30828	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.125"	42.64	40.79	38.93	37.08
30830	.4724		12.000	12.0	65	19	0.50	56.17	53.72	51.28	48.84
30832	.4724		12.000	12.0	65	19	0.80	56.17	53.72	51.28	48.84
30834	.4724		12.000	12.0	65	19	1.00	56.17	53.72	51.28	48.84
30836	.4724		12.000	12.0	65	19	1.50	56.17	53.72	51.28	48.84
30838	.4724		12.000	12.0	65	19	2.00	56.17	53.72	51.28	48.84
30840	.4724		12.000	12.0	65	19	2.50	56.17	53.72	51.28	48.84
30842	.4724		12.000	12.0	65	19	3.00	56.17	53.72	51.28	48.84
30844	.4724		12.000	12.0	65	19	3.20	56.17	53.72	51.28	48.84
30846	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.010"	53.81	51.47	49.13	46.79
30848	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.015"	53.81	51.47	49.13	46.79
30850	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.020"	53.81	51.47	49.13	46.79
30852	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	53.81	51.47	49.13	46.79
30854	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.045"	53.81	51.47	49.13	46.79
30856	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.060"	53.81	51.47	49.13	46.79
30858	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.090"	53.81	51.47	49.13	46.79
30860	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.125"	53.81	51.47	49.13	46.79
30862	.6250	5/8"	15.875	5/8"	3"	3/4"	.015"	96.09	91.92	87.74	83.56
30864	.6250	5/8"	15.875	5/8"	3"	3/4"	.020"	96.09	91.92	87.74	83.56
30866	.6250	5/8"	15.875	5/8"	3"	3/4"	.030"	96.09	91.92	87.74	83.56
30868	.6250	5/8"	15.875	5/8"	3"	3/4"	.045"	96.09	91.92	87.74	83.56
30870	.6250	5/8"	15.875	5/8"	3"	3/4"	.060"	96.09	91.92	87.74	83.56
30872	.6250	5/8"	15.875	5/8"	3"	3/4"	.090"	96.09	91.92	87.74	83.56
30874	.6299		16.000	16.0	75	19	0.50	100.53	96.16	91.79	87.42
30876	.6299		16.000	16.0	75	19	1.00	100.53	96.16	91.79	87.42
30878	.6299		16.000	16.0	75	19	2.00	100.53	96.16	91.79	87.42
30880	.6299		16.000	16.0	75	19	2.50	100.53	96.16	91.79	87.42
30882	.6299		16.000	16.0	75	19	3.00	100.53	96.16	91.79	87.42
30884	.6299		16.000	16.0	75	19	4.00	100.53	96.16	91.79	87.42
30886	.6299		16.000	16.0	75	19	5.00	100.53	96.16	91.79	87.42
30888	.7500	3/4"	19.050	3/4"	3"	1"	.015"	135.68	129.78	123.88	117.98
30890	.7500	3/4"	19.050	3/4"	3"	1"	.020"	135.68	129.78	123.88	117.98
30892	.7500	3/4"	19.050	3/4"	3"	1"	.030"	135.68	129.78	123.88	117.98
30894	.7500	3/4"	19.050	3/4"	3"	1"	.045"	135.68	129.78	123.88	117.98
30896	.7500	3/4"	19.050	3/4"	3"	1"	.060"	135.68	129.78	123.88	117.98
30898	.7500	3/4"	19.050	3/4"	3"	1"	.090"	135.68	129.78	123.88	117.98
30900	.7500	3/4"	19.050	3/4"	3"	1"	.125"	135.68	129.78	123.88	117.98
30902	.7500	3/4"	19.050	3/4"	3"	1"	.250"	135.68	129.78	123.88	117.98

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MATERIAL HARDNESS (Rc)

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