

# NEW SERIES

## Series 170R, 870R

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



TECH PAGES  
258,260

### TOLERANCES

d1	+0.000" - .002" (+.000 - .050mm)
d2	h6
r	+0.001" - .001" (+.025 - .025mm)

END MILLS

### Stub Length - Corner Radius

Solid submicron grain carbide end mill - center cutting

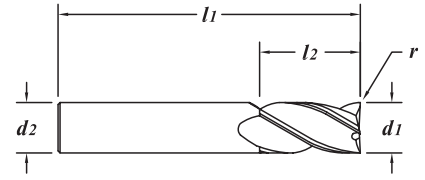
For stronger corners and part radius

Extremely versatile

Standard Length - page

TiALN Coating - page

Extended Length - page



EDP#	d1 †		d2 Shank Diameter	l1 Overall Length	l2 Flute Length	r Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Diameter									Metric
30701	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	.010"	10.66	9.63	9.19	8.75
30703	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	.015"	10.66	9.63	9.19	8.75
30705	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.010"	9.50	9.09	8.67	8.26
30707	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.015"	9.50	9.09	8.67	8.26
30709	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.020"	9.50	9.09	8.67	8.26
30711	.1181		3.000	3.0	38	6	0.20	9.73	9.31	8.88	8.46
30713	.1181		3.000	3.0	38	6	0.50	9.73	9.31	8.88	8.46
30715	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.010"	9.26	8.86	8.45	8.05
30717	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.015"	9.26	8.86	8.45	8.05
30719	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.020"	9.26	8.86	8.45	8.05
30721	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.030"	9.26	8.86	8.45	8.05
30723	.1575		4.000	4.0	50	8	0.30	12.95	12.39	11.82	11.26
30725	.1575		4.000	4.0	50	8	0.50	12.95	12.39	11.82	11.26
30727	.1875	3/16"	4.763	3/16"	2"	3/8"	.010"	12.29	11.76	11.22	10.69
30729	.1875	3/16"	4.763	3/16"	2"	3/8"	.015"	12.29	11.76	11.22	10.69
30731	.1875	3/16"	4.763	3/16"	2"	3/8"	.020"	12.29	11.76	11.22	10.69
30733	.1875	3/16"	4.763	3/16"	2"	3/8"	.030"	12.29	11.76	11.22	10.69
30735	.1969		5.000	5.0	50	10	0.30	16.12	15.42	14.72	14.02
30737	.1969		5.000	5.0	50	10	0.50	16.12	15.42	14.72	14.02
30739	.2362		6.000	6.0	50	12	0.50	16.93	16.19	15.46	14.72
30741	.2362		6.000	6.0	50	12	0.80	16.93	16.19	15.46	14.72
30743	.2362		6.000	6.0	50	12	1.00	16.93	16.19	15.46	14.72
30745	.2362		6.000	6.0	50	12	1.50	16.93	16.19	15.46	14.72
30747	.2362		6.000	6.0	50	12	2.00	16.93	16.19	15.46	14.72
30749	.2500	1/4"	6.350	1/4"	2"	1/2"	.010"	16.04	15.35	14.65	13.95
30751	.2500	1/4"	6.350	1/4"	2"	1/2"	.015"	16.04	15.35	14.65	13.95
30753	.2500	1/4"	6.350	1/4"	2"	1/2"	.020"	16.04	15.35	14.65	13.95
30755	.2500	1/4"	6.350	1/4"	2"	1/2"	.030"	16.04	15.35	14.65	13.95
30757	.2500	1/4"	6.350	1/4"	2"	1/2"	.045"	16.04	15.35	14.65	13.95
30759	.2500	1/4"	6.350	1/4"	2"	1/2"	.060"	16.04	15.35	14.65	13.95
30761	.3125	5/16"	7.938	5/16"	2"	1/2"	.015"	21.95	21.00	20.04	19.09
30763	.3125	5/16"	7.938	5/16"	2"	1/2"	.020"	21.95	21.00	20.04	19.09
30765	.3125	5/16"	7.938	5/16"	2"	1/2"	.030"	21.95	21.00	20.04	19.09
30767	.3125	5/16"	7.938	5/16"	2"	1/2"	.045"	21.95	21.00	20.04	19.09
30769	.3125	5/16"	7.938	5/16"	2"	1/2"	.060"	21.95	21.00	20.04	19.09
30771	.3150		8.000	8.0	50	12	0.50	23.12	22.11	21.11	20.10
30773	.3150		8.000	8.0	50	12	0.80	23.12	22.11	21.11	20.10
30775	.3150		8.000	8.0	50	12	1.00	23.12	22.11	21.11	20.10
30777	.3150		8.000	8.0	50	12	1.50	23.12	22.11	21.11	20.10
30779	.3150		8.000	8.0	50	12	2.00	23.12	22.11	21.11	20.10
30781	.3150		8.000	8.0	50	12	2.50	23.12	22.11	21.11	20.10
30783	.3150		8.000	8.0	50	12	3.00	23.12	22.11	21.11	20.10

MATERIAL HARDNESS (Rc) 70 35 0

# Series 170R, 870R (continued)

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

END MILLS

EDP#	$d1$ †		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	$r$ Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Diameter									Metric
30785	.3750	3/8"	9.525	3/8"	2"	5/8"	.010"	27.12	25.94	24.76	23.58
30787	.3750	3/8"	9.525	3/8"	2"	5/8"	.015"	27.12	25.94	24.76	23.58
30789	.3750	3/8"	9.525	3/8"	2"	5/8"	.020"	27.12	25.94	24.76	23.58
30791	.3750	3/8"	9.525	3/8"	2"	5/8"	.030"	27.12	25.94	24.76	23.58
30793	.3750	3/8"	9.525	3/8"	2"	5/8"	.045"	27.12	25.94	24.76	23.58
30795	.3750	3/8"	9.525	3/8"	2"	5/8"	.060"	27.12	25.94	24.76	23.58
30797	.3937		10.000	10.0	50	16	0.50	31.54	30.17	28.80	27.43
30799	.3937		10.000	10.0	50	16	0.80	31.54	30.17	28.80	27.43
30801	.3937		10.000	10.0	50	16	1.00	31.54	30.17	28.80	27.43
30803	.3937		10.000	10.0	50	16	1.50	31.54	30.17	28.80	27.43
30805	.3937		10.000	10.0	50	16	2.00	31.54	30.17	28.80	27.43
30807	.3937		10.000	10.0	50	16	2.50	31.54	30.17	28.80	27.43
30809	.3937		10.000	10.0	50	16	3.00	31.54	30.17	28.80	27.43
30811	.3937		10.000	10.0	50	16	3.20	31.54	30.17	28.80	27.43
30813	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.010"	33.55	32.09	30.63	29.17
30815	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.015"	33.55	32.09	30.63	29.17
30817	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.020"	33.55	32.09	30.63	29.17
30819	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.030"	33.55	32.09	30.63	29.17
30821	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.045"	33.55	32.09	30.63	29.17
30823	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.060"	33.55	32.09	30.63	29.17
30825	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.090"	33.55	32.09	30.63	29.17
30827	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.125"	33.55	32.09	30.63	29.17
30829	.4724		12.000	12.0	65	19	0.50	47.06	45.01	42.97	40.92
30831	.4724		12.000	12.0	65	19	0.80	47.06	45.01	42.97	40.92
30833	.4724		12.000	12.0	65	19	1.00	47.06	45.01	42.97	40.92
30835	.4724		12.000	12.0	65	19	1.50	47.06	45.01	42.97	40.92
30837	.4724		12.000	12.0	65	19	2.00	47.06	45.01	42.97	40.92
30839	.4724		12.000	12.0	65	19	2.50	47.06	45.01	42.97	40.92
30841	.4724		12.000	12.0	65	19	3.00	47.06	45.01	42.97	40.92
30843	.4724		12.000	12.0	65	19	3.20	47.06	45.01	42.97	40.92
30845	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.010"	44.72	42.78	40.83	38.89
30847	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.015"	44.72	42.78	40.83	38.89
30849	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.020"	44.72	42.78	40.83	38.89
30851	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	44.72	42.78	40.83	38.89
30853	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.045"	44.72	42.78	40.83	38.89
30855	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.060"	44.72	42.78	40.83	38.89
30857	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.090"	44.72	42.78	40.83	38.89
30859	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.125"	44.72	42.78	40.83	38.89
30861	.6250	5/8"	15.875	5/8"	3"	3/4"	.015"	85.56	81.84	78.12	74.40
30863	.6250	5/8"	15.875	5/8"	3"	3/4"	.020"	85.56	81.84	78.12	74.40
30865	.6250	5/8"	15.875	5/8"	3"	3/4"	.030"	85.56	81.84	78.12	74.40
30867	.6250	5/8"	15.875	5/8"	3"	3/4"	.045"	85.56	81.84	78.12	74.40
30869	.6250	5/8"	15.875	5/8"	3"	3/4"	.060"	85.56	81.84	78.12	74.40
30871	.6250	5/8"	15.875	5/8"	3"	3/4"	.090"	85.56	81.84	78.12	74.40
30873	.6299		16.000	16.0	75	19	0.50	90.02	86.11	82.19	78.28
30875	.6299		16.000	16.0	75	19	1.00	90.02	86.11	82.19	78.28
30877	.6299		16.000	16.0	75	19	2.00	90.02	86.11	82.19	78.28
30879	.6299		16.000	16.0	75	19	2.50	90.02	86.11	82.19	78.28
30881	.6299		16.000	16.0	75	19	3.00	90.02	86.11	82.19	78.28
30883	.6299		16.000	16.0	75	19	4.00	90.02	86.11	82.19	78.28
30885	.6299		16.000	16.0	75	19	5.00	90.02	86.11	82.19	78.28
30887	.7500	3/4"	19.050	3/4"	3"	1"	.015"	123.05	117.70	112.35	107.00
30889	.7500	3/4"	19.050	3/4"	3"	1"	.020"	123.05	117.70	112.35	107.00
30891	.7500	3/4"	19.050	3/4"	3"	1"	.030"	123.05	117.70	112.35	107.00
30893	.7500	3/4"	19.050	3/4"	3"	1"	.045"	123.05	117.70	112.35	107.00
30895	.7500	3/4"	19.050	3/4"	3"	1"	.060"	123.05	117.70	112.35	107.00
30897	.7500	3/4"	19.050	3/4"	3"	1"	.090"	123.05	117.70	112.35	107.00
30899	.7500	3/4"	19.050	3/4"	3"	1"	.125"	123.05	117.70	112.35	107.00
30901	.7500	3/4"	19.050	3/4"	3"	1"	.250"	123.05	117.70	112.35	107.00

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MATERIAL HARDNESS (Rc)

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