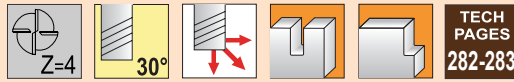


Series 170R, 870R

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



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

Stub Length - Corner Radius

Solid submicron grain carbide end mill - center cutting

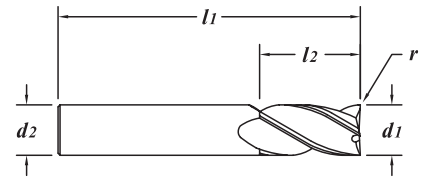
For stronger corners and part radius

Extremely versatile

TiAlN Coating - page 212

Standard Length - page 222

Extended Length - page 241



EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	r Corner Radius	1-11	12-24	25-49	50-100	
	Decimal	Metric									
30701	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	.010"	10.47	10.01	9.56	9.10
30703	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	.015"	10.47	10.01	9.56	9.10
30705	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.010"	9.88	9.45	9.02	8.59
30707	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.015"	9.88	9.45	9.02	8.59
30709	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	.020"	9.88	9.45	9.02	8.59
30711	.1181		3.000	3.0	38	6	0.20	10.12	9.68	9.24	8.80
30713	.1181		3.000	3.0	38	6	0.50	10.12	9.68	9.24	8.80
30715	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.010"	9.63	9.21	8.79	8.37
30717	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.015"	9.63	9.21	8.79	8.37
30719	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.020"	9.63	9.21	8.79	8.37
30721	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.030"	9.63	9.21	8.79	8.37
30904	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	.040"	9.63	9.21	8.79	8.37
30909	.1562	5/32"	3.967	3/16"	2"	5/16"	.015"	13.48	12.89	12.31	11.72
30911	.1562	5/32"	3.967	3/16"	2"	5/16"	.030"	13.48	12.89	12.31	11.72
30913	.1562	5/32"	3.967	3/16"	2"	5/16"	.060"	13.48	12.89	12.31	11.72
30723	.1575		4.000	4.0	50	8	0.30	13.47	12.88	12.30	11.71
30725	.1575		4.000	4.0	50	8	0.50	13.47	12.88	12.30	11.71
30727	.1875	3/16"	4.763	3/16"	2"	3/8"	.010"	12.79	12.23	11.68	11.12
30729	.1875	3/16"	4.763	3/16"	2"	3/8"	.015"	12.79	12.23	11.68	11.12
30731	.1875	3/16"	4.763	3/16"	2"	3/8"	.020"	12.79	12.23	11.68	11.12
30733	.1875	3/16"	4.763	3/16"	2"	3/8"	.030"	12.79	12.23	11.68	11.12
30735	.1969		5.000	5.0	50	10	0.30	16.77	16.04	15.31	14.58
30737	.1969		5.000	5.0	50	10	0.50	16.77	16.04	15.31	14.58
30739	.2362		6.000	6.0	50	12	0.50	17.61	16.84	16.08	15.31
30741	.2362		6.000	6.0	50	12	0.80	17.61	16.84	16.08	15.31
30743	.2362		6.000	6.0	50	12	1.00	17.61	16.84	16.08	15.31
30745	.2362		6.000	6.0	50	12	1.50	17.61	16.84	16.08	15.31
30747	.2362		6.000	6.0	50	12	2.00	17.61	16.84	16.08	15.31
30749	.2500	1/4"	6.350	1/4"	2"	1/2"	.010"	16.69	15.96	15.24	14.51
30751	.2500	1/4"	6.350	1/4"	2"	1/2"	.015"	16.69	15.96	15.24	14.51
30753	.2500	1/4"	6.350	1/4"	2"	1/2"	.020"	16.69	15.96	15.24	14.51
30755	.2500	1/4"	6.350	1/4"	2"	1/2"	.030"	16.69	15.96	15.24	14.51
30757	.2500	1/4"	6.350	1/4"	2"	1/2"	.045"	16.69	15.96	15.24	14.51
30759	.2500	1/4"	6.350	1/4"	2"	1/2"	.060"	16.69	15.96	15.24	14.51
30761	.3125	5/16"	7.938	5/16"	2"	1/2"	.015"	22.83	21.84	20.84	19.85
30763	.3125	5/16"	7.938	5/16"	2"	1/2"	.020"	22.83	21.84	20.84	19.85
30765	.3125	5/16"	7.938	5/16"	2"	1/2"	.030"	22.83	21.84	20.84	19.85
30767	.3125	5/16"	7.938	5/16"	2"	1/2"	.045"	22.83	21.84	20.84	19.85
30769	.3125	5/16"	7.938	5/16"	2"	1/2"	.060"	22.83	21.84	20.84	19.85
30771	.3150		8.000	8.0	50	12	0.50	24.04	22.99	21.95	20.90
30773	.3150		8.000	8.0	50	12	0.80	24.04	22.99	21.95	20.90
30775	.3150		8.000	8.0	50	12	1.00	24.04	22.99	21.95	20.90
30777	.3150		8.000	8.0	50	12	1.50	24.04	22.99	21.95	20.90
30779	.3150		8.000	8.0	50	12	2.00	24.04	22.99	21.95	20.90
30781	.3150		8.000	8.0	50	12	2.50	24.04	22.99	21.95	20.90
30783	.3150		8.000	8.0	50	12	3.00	24.04	22.99	21.95	20.90

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	1-11	12-24	25-49	50-100	
	Decimal	Metric									
30785	.3750	3/8"	9.525	3/8"	2"	5/8"	.010"	28.20	26.97	25.75	24.52
30787	.3750	3/8"	9.525	3/8"	2"	5/8"	.015"	28.20	26.97	25.75	24.52
30789	.3750	3/8"	9.525	3/8"	2"	5/8"	.020"	28.20	26.97	25.75	24.52
30791	.3750	3/8"	9.525	3/8"	2"	5/8"	.030"	28.20	26.97	25.75	24.52
30793	.3750	3/8"	9.525	3/8"	2"	5/8"	.045"	28.20	26.97	25.75	24.52
30795	.3750	3/8"	9.525	3/8"	2"	5/8"	.060"	28.20	26.97	25.75	24.52
30797	.3937		10.000	10.0	50	16	0.50	32.81	31.38	29.96	28.53
30799	.3937		10.000	10.0	50	16	0.80	32.81	31.38	29.96	28.53
30801	.3937		10.000	10.0	50	16	1.00	32.81	31.38	29.96	28.53
30803	.3937		10.000	10.0	50	16	1.50	32.81	31.38	29.96	28.53
30805	.3937		10.000	10.0	50	16	2.00	32.81	31.38	29.96	28.53
30807	.3937		10.000	10.0	50	16	2.50	32.81	31.38	29.96	28.53
30809	.3937		10.000	10.0	50	16	3.00	32.81	31.38	29.96	28.53
30811	.3937		10.000	10.0	50	16	3.20	32.81	31.38	29.96	28.53
30813	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.010"	34.89	33.37	31.86	30.34
30815	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.015"	34.89	33.37	31.86	30.34
30817	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.020"	34.89	33.37	31.86	30.34
30819	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.030"	34.89	33.37	31.86	30.34
30821	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.045"	34.89	33.37	31.86	30.34
30823	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.060"	34.89	33.37	31.86	30.34
30825	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.090"	34.89	33.37	31.86	30.34
30827	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	.125"	34.89	33.37	31.86	30.34
30829	.4724		12.000	12.0	65	19	0.50	48.94	46.82	44.69	42.56
30831	.4724		12.000	12.0	65	19	0.80	48.94	46.82	44.69	42.56
30833	.4724		12.000	12.0	65	19	1.00	48.94	46.82	44.69	42.56
30835	.4724		12.000	12.0	65	19	1.50	48.94	46.82	44.69	42.56
30837	.4724		12.000	12.0	65	19	2.00	48.94	46.82	44.69	42.56
30839	.4724		12.000	12.0	65	19	2.50	48.94	46.82	44.69	42.56
30841	.4724		12.000	12.0	65	19	3.00	48.94	46.82	44.69	42.56
30843	.4724		12.000	12.0	65	19	3.20	48.94	46.82	44.69	42.56
30845	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.010"	46.52	44.50	42.47	40.45
30847	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.015"	46.52	44.50	42.47	40.45
30849	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.020"	46.52	44.50	42.47	40.45
30851	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.030"	46.52	44.50	42.47	40.45
30853	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.045"	46.52	44.50	42.47	40.45
30855	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.060"	46.52	44.50	42.47	40.45
30857	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.090"	46.52	44.50	42.47	40.45
30859	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	.125"	46.52	44.50	42.47	40.45
30861	.6250	5/8"	15.875	5/8"	3"	3/4"	.015"	88.99	85.12	81.25	77.38
30863	.6250	5/8"	15.875	5/8"	3"	3/4"	.020"	88.99	85.12	81.25	77.38
30865	.6250	5/8"	15.875	5/8"	3"	3/4"	.030"	88.99	85.12	81.25	77.38
30867	.6250	5/8"	15.875	5/8"	3"	3/4"	.045"	88.99	85.12	81.25	77.38
30869	.6250	5/8"	15.875	5/8"	3"	3/4"	.060"	88.99	85.12	81.25	77.38
30871	.6250	5/8"	15.875	5/8"	3"	3/4"	.090"	88.99	85.12	81.25	77.38
30873	.6299		16.000	16.0	75	19	0.50	93.62	89.55	85.48	81.41
30875	.6299		16.000	16.0	75	19	1.00	93.62	89.55	85.48	81.41
30877	.6299		16.000	16.0	75	19	2.00	93.62	89.55	85.48	81.41
30879	.6299		16.000	16.0	75	19	2.50	93.62	89.55	85.48	81.41
30881	.6299		16.000	16.0	75	19	3.00	93.62	89.55	85.48	81.41
30883	.6299		16.000	16.0	75	19	4.00	93.62	89.55	85.48	81.41
30885	.6299		16.000	16.0	75	19	5.00	93.62	89.55	85.48	81.41
30887	.7500	3/4"	19.050	3/4"	3"	1"	.015"	127.97	122.41	116.84	111.28
30889	.7500	3/4"	19.050	3/4"	3"	1"	.020"	127.97	122.41	116.84	111.28
30891	.7500	3/4"	19.050	3/4"	3"	1"	.030"	127.97	122.41	116.84	111.28
30893	.7500	3/4"	19.050	3/4"	3"	1"	.045"	127.97	122.41	116.84	111.28
30895	.7500	3/4"	19.050	3/4"	3"	1"	.060"	127.97	122.41	116.84	111.28
30897	.7500	3/4"	19.050	3/4"	3"	1"	.090"	127.97	122.41	116.84	111.28
30899	.7500	3/4"	19.050	3/4"	3"	1"	.125"	127.97	122.41	116.84	111.28
30901	.7500	3/4"	19.050	3/4"	3"	1"	.250"	127.97	122.41	116.84	111.28

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MATERIAL HARDNESS (Rc)

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