

TOLERANCES

$d1$	$\leq .030"$	$+0.000" - .001"$ (+.000 - .025mm)
	$\geq 1/32"$	$+0.000" - .002"$ (+.000 - .050mm)
$d2$	h6	



Series 160M, 170M, 860M, 870M

.0050" - .0787"
(0.127mm - 2.000mm)

END MILLS

Stub Length - Square End

Solid submicron grain carbide end mill - center cutting

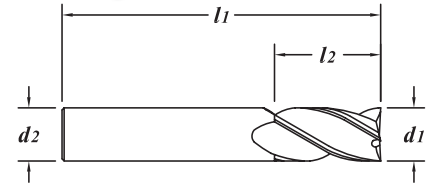
Shorter flute length for rigidity

Extremely versatile

TiAlN Coated - page 187

Standard Length - page 194

Extended length - page 220



(160M/860M) 2 Flute EDP#	(170M/870M) 4 Flute EDP#	$d1$ †		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Diameter Metric								
01200	-	.0050	.0050"	0.127	1/8"	1-1/2"	.008"	21.28	20.35	19.43	18.50
01210	-	.0060	.0060"	0.152	1/8"	1-1/2"	.009"	21.28	20.35	19.43	18.50
01220	-	.0070	.0070"	0.178	1/8"	1-1/2"	.011"	20.02	19.15	18.28	17.41
01230	-	.0080	.0080"	0.203	1/8"	1-1/2"	.012"	20.02	19.15	18.28	17.41
01250	-	.0100	.0100"	0.254	1/8"	1-1/2"	.015"	18.89	18.07	17.25	16.43
01260	-	.0110	.0110"	0.279	1/8"	1-1/2"	.017"	17.49	16.73	15.97	15.21
01270	-	.0120	.0120"	0.305	1/8"	1-1/2"	.018"	17.49	16.73	15.97	15.21
01280	-	.0130	.0130"	0.330	1/8"	1-1/2"	.020"	17.40	16.64	15.89	15.13
01290	-	.0140	.0140"	0.356	1/8"	1-1/2"	.021"	17.40	16.64	15.89	15.13
01300	-	.0150	.0150"	0.381	1/8"	1-1/2"	.023"	17.40	16.64	15.89	15.13
01310	-	.0160	.0160"	0.406	1/8"	1-1/2"	.024"	17.17	16.42	15.68	14.93
01320	-	.0170	.0170"	0.432	1/8"	1-1/2"	.026"	17.17	16.42	15.68	14.93
01330	-	.0180	.0180"	0.457	1/8"	1-1/2"	.027"	16.85	16.12	15.38	14.65
01340	-	.0190	.0190"	0.483	1/8"	1-1/2"	.029"	16.85	16.12	15.38	14.65
01350	-	.0200	.0200"	0.508	1/8"	1-1/2"	.030"	16.85	16.12	15.38	14.65
01360	-	.0210	.0210"	0.533	1/8"	1-1/2"	.032"	16.85	16.12	15.38	14.65
01370	-	.0220	.0220"	0.559	1/8"	1-1/2"	.033"	16.65	15.93	15.20	14.48
01380	-	.0230	.0230"	0.584	1/8"	1-1/2"	.035"	16.65	15.93	15.20	14.48
01390	-	.0240	.0240"	0.610	1/8"	1-1/2"	.036"	16.65	15.93	15.20	14.48
01400	-	.0250	.0250"	0.635	1/8"	1-1/2"	.038"	15.71	15.03	14.34	13.66
01410	-	.0260	.0260"	0.660	1/8"	1-1/2"	.039"	15.71	15.03	14.34	13.66
01420	-	.0270	.0270"	0.686	1/8"	1-1/2"	.041"	14.09	13.48	12.86	12.25
01430	-	.0280	.0280"	0.711	1/8"	1-1/2"	.042"	14.09	13.48	12.86	12.25
01440	-	.0290	.0290"	0.737	1/8"	1-1/2"	.044"	14.09	13.48	12.86	12.25
01450	-	.0300	.0300"	0.762	1/8"	1-1/2"	.045"	14.09	13.48	12.86	12.25
01010	02010	.0312	1/32"	0.792	1/8"	1-1/2"	1/16"	10.25	9.80	9.36	8.91
01510	02510	.0394		1.000	3.0	38	2	10.76	10.30	9.83	9.36
01020	02020	.0469	3/64"	1.191	1/8"	1-1/2"	3/32"	10.25	9.80	9.36	8.91
01520	02520	.0591		1.500	3.0	38	3	10.76	10.30	9.83	9.36
01030	02030	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	8.13	7.78	7.42	7.07
01530	02530	.0787		2.000	3.0	38	4	8.56	8.18	7.81	7.44

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MATERIAL HARDNESS (Rc)

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continued →

Series 160M, 170M, 860M, 870M (continued)

.0938" - 1.000"
(2.383mm - 25.400mm)

(160M/860M) 2 Flute EDP#	(170M/870M) 4 Flute EDP#	$d1$ † Diameter		$d2$ Shank Diameter	$l1$ Overall Length	$l2$ Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Metric								
01040	02040	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	7.69	7.36	7.02	6.69
01540	02540	.0984		2.500	3.0	38	5	8.10	7.74	7.39	7.04
01550	02550	.1181		3.000	3.0	38	6	7.90	7.56	7.21	6.87
01050	02050	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	7.49	7.16	6.84	6.51
01560	02560	.1378		3.500	4.0	50	7	11.05	10.57	10.09	9.61
01060	02060	.1562	5/32"	3.967	3/16"	2"	5/16"	10.51	10.05	9.60	9.14
01570	02570	.1575		4.000	4.0	50	8	10.45	10.00	9.54	9.09
01580	02580	.1772		4.500	5.0	50	9.5	13.87	13.27	12.66	12.06
01070	02070	.1875	3/16"	4.763	3/16"	2"	3/8"	9.95	9.52	9.08	8.65
01590	02590	.1969		5.000	5.0	50	10	12.94	12.38	11.81	11.25
01080	02080	.2188	7/32"	5.558	1/4"	2"	7/16"	13.19	12.62	12.04	11.47
01600	02600	.2362		6.000	6.0	50	12	13.70	13.10	12.51	11.91
01090	02090	.2500	1/4"	6.350	1/4"	2"	1/2"	13.00	12.43	11.87	11.30
01610	02610	.2756		7.000	7.0	50	12	17.81	17.04	16.26	15.49
01100	02100	.3125	5/16"	7.938	5/16"	2"	1/2"	17.79	17.02	16.24	15.47
01620	02620	.3150		8.000	8.0	50	12	18.70	17.89	17.07	16.26
01630	02630	.3543		9.000	9.0	50	14	23.10	22.10	21.09	20.09
01110	02110	.3750	3/8"	9.525	3/8"	2"	5/8"	21.97	21.01	20.06	19.10
01640	02640	.3937		10.000	10.0	50	16	25.53	24.42	23.31	22.20
01650	02650	.4331		11.000	11.0	65	19	29.83	28.53	27.24	25.94
01120	02120	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	27.16	25.98	24.80	23.62
01660	02660	.4724		12.000	12.0	65	19	38.12	36.47	34.81	33.15
01130	02130	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	36.23	34.65	33.08	31.50
01140	02140	.6250	5/8"	15.875	5/8"	3"	3/4"	69.24	66.23	63.22	60.21
01670	02670	.6299		16.000	16.0	75	19	72.88	69.71	66.54	63.37
01150	02150	.7500	3/4"	19.050	3/4"	3"	1"	99.59	95.26	90.93	86.60
-	02680	.7874		20.000	20.0	75	25	135.07	129.20	123.32	117.45
-	02160	1.000	1"	25.400	1"	3"	1"	171.37	163.92	156.47	149.02

MATERIAL HARDNESS (Rc)

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End Mill Manufacturing