

**TOLERANCES**

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



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

.0200" - .2362"  
(0.508mm - 6.000mm)

**GENERAL PURPOSE  
END MILLS**

**Stub Length - Square End**

Solid submicron grain carbide end mill - center cutting

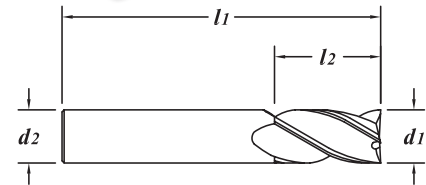
Shorter flute length for rigidity

Extremely versatile

TiAlN Coated - page 209

Standard Length - page 216

Extended length - page 236



(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								
01350	-	.0200	.0200"	0.508	1/8"	1-1/2"	.030"	18.40	17.60	16.80	16.00
01360	-	.0210	.0210"	0.533	1/8"	1-1/2"	.032"	18.40	17.60	16.80	16.00
01370	-	.0220	.0220"	0.559	1/8"	1-1/2"	.033"	18.18	17.39	16.60	15.81
01380	-	.0230	.0230"	0.584	1/8"	1-1/2"	.035"	18.18	17.39	16.60	15.81
01390	-	.0240	.0240"	0.610	1/8"	1-1/2"	.036"	18.18	17.39	16.60	15.81
01400	-	.0250	.0250"	0.635	1/8"	1-1/2"	.038"	17.15	16.40	15.66	14.91
01410	-	.0260	.0260"	0.660	1/8"	1-1/2"	.039"	17.15	16.40	15.66	14.91
01420	-	.0270	.0270"	0.686	1/8"	1-1/2"	.041"	15.38	14.71	14.04	13.37
01430	-	.0280	.0280"	0.711	1/8"	1-1/2"	.042"	15.38	14.71	14.04	13.37
01440	-	.0290	.0290"	0.737	1/8"	1-1/2"	.044"	15.38	14.71	14.04	13.37
01450	-	.0300	.0300"	0.762	1/8"	1-1/2"	.045"	15.38	14.71	14.04	13.37
01010	02010	.0312	1/32"	0.792	1/8"	1-1/2"	1/16"	11.19	10.70	10.22	9.73
01510	02510	.0394		1.000	3.0	38	2	11.75	11.24	10.73	10.22
01020	02020	.0469	3/64"	1.191	1/8"	1-1/2"	3/32"	11.19	10.70	10.22	9.73
01520	02520	.0591		1.500	3.0	38	3	11.75	11.24	10.73	10.22
01030	02030	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	8.88	8.49	8.11	7.72
01530	02530	.0787		2.000	3.0	38	4	9.34	8.93	8.53	8.12
01040	02040	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	8.40	8.03	7.67	7.30
01540	02540	.0984		2.500	3.0	38	5	8.84	8.46	8.07	7.69
01550	02550	.1181		3.000	3.0	38	6	8.63	8.25	7.88	7.50
01050	02050	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	8.18	7.82	7.47	7.11
01560	02560	.1378		3.500	4.0	50	7	12.06	11.54	11.01	10.49
01060	02060	.1562	5/32"	3.967	3/16"	2"	5/16"	11.48	10.98	10.48	9.98
01570	02570	.1575		4.000	4.0	50	8	11.41	10.91	10.42	9.92
01580	02580	.1772		4.500	5.0	50	9.5	15.15	14.49	13.83	13.17
01070	02070	.1875	3/16"	4.763	3/16"	2"	3/8"	10.86	10.38	9.91	9.44
01590	02590	.1969		5.000	5.0	50	10	14.12	13.51	12.89	12.28
01080	02080	.2188	7/32"	5.558	1/4"	2"	7/16"	14.40	13.77	13.15	12.52
01600	02600	.2362		6.000	6.0	50	12	14.96	14.31	13.66	13.01

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35

**MATERIAL HARDNESS (Rc)**

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continued →

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

.2500" - 1.000"  
(6.350mm - 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								
01090	02090	.2500	1/4"	6.350	1/4"	2"	1/2"	14.19	13.57	12.96	12.34
01610	02610	.2756		7.000	7.0	50	12	19.45	18.60	17.76	16.91
01100	02100	.3125	5/16"	7.938	5/16"	2"	1/2"	19.42	18.58	17.73	16.89
01620	02620	.3150		8.000	8.0	50	12	20.41	19.53	18.64	17.75
01630	02630	.3543		9.000	9.0	50	14	25.22	24.12	23.03	21.93
01110	02110	.3750	3/8"	9.525	3/8"	2"	5/8"	23.99	22.95	21.90	20.86
01640	02640	.3937		10.000	10.0	50	16	27.88	26.66	25.45	24.24
01650	02650	.4331		11.000	11.0	65	19	32.58	31.16	29.75	28.33
01120	02120	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	29.66	28.37	27.08	25.79
01660	02660	.4724		12.000	12.0	65	19	41.63	39.82	38.01	36.20
01130	02130	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	39.56	37.84	36.12	34.40
01140	02140	.6250	5/8"	15.875	5/8"	3"	3/4"	75.61	72.33	69.04	65.75
-	02670	.6299		16.000	16.0	75	19	79.58	76.12	72.66	69.20
01150	02150	.7500	3/4"	19.050	3/4"	3"	1"	108.76	104.03	99.30	94.57
-	02680	.7874		20.000	20.0	75	25	147.49	141.08	134.66	128.25
-	02160	1.000	1"	25.400	1"	3"	1"	187.14	179.00	170.87	162.73



End Mill Manufacturing

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MATERIAL HARDNESS (Rc)