

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)

END MILLS

Stub Length - Square End

Solid submicron grain carbide end mill - center cutting

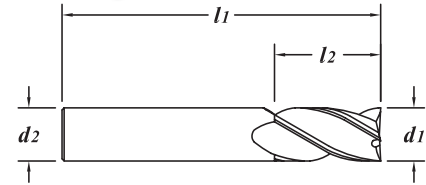
Shorter flute length for rigidity

Extremely versatile

TiAlN Coated - page 191

Standard Length - page 202

Extended length - page 230



(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"	17.69	16.92	16.15	15.38
01360	-	.0210	.0210"	0.533	1/8"	1-1/2"	.032"	17.69	16.92	16.15	15.38
01370	-	.0220	.0220"	0.559	1/8"	1-1/2"	.033"	17.48	16.72	15.96	15.20
01380	-	.0230	.0230"	0.584	1/8"	1-1/2"	.035"	17.48	16.72	15.96	15.20
01390	-	.0240	.0240"	0.610	1/8"	1-1/2"	.036"	17.48	16.72	15.96	15.20
01400	-	.0250	.0250"	0.635	1/8"	1-1/2"	.038"	16.49	15.77	15.06	14.34
01410	-	.0260	.0260"	0.660	1/8"	1-1/2"	.039"	16.49	15.77	15.06	14.34
01420	-	.0270	.0270"	0.686	1/8"	1-1/2"	.041"	14.79	14.15	13.50	12.86
01430	-	.0280	.0280"	0.711	1/8"	1-1/2"	.042"	14.79	14.15	13.50	12.86
01440	-	.0290	.0290"	0.737	1/8"	1-1/2"	.044"	14.79	14.15	13.50	12.86
01450	-	.0300	.0300"	0.762	1/8"	1-1/2"	.045"	14.79	14.15	13.50	12.86
01010	02010	.0312	1/32"	0.792	1/8"	1-1/2"	1/16"	10.76	10.30	9.83	9.36
01510	02510	.0394		1.000	3.0	38	2	11.30	10.81	10.32	9.83
01020	02020	.0469	3/64"	1.191	1/8"	1-1/2"	3/32"	10.76	10.30	9.83	9.36
01520	02520	.0591		1.500	3.0	38	3	11.30	10.81	10.32	9.83
01030	02030	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	8.53	8.16	7.79	7.42
01530	02530	.0787		2.000	3.0	38	4	8.98	8.59	8.20	7.81
01040	02040	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	8.07	7.72	7.37	7.02
01540	02540	.0984		2.500	3.0	38	5	8.50	8.13	7.76	7.39
01550	02550	.1181		3.000	3.0	38	6	8.29	7.93	7.57	7.21
01050	02050	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	7.87	7.52	7.18	6.84
01560	02560	.1378		3.500	4.0	50	7	11.60	11.10	10.59	10.09
01060	02060	.1562	5/32"	3.967	3/16"	2"	5/16"	11.04	10.56	10.08	9.60
01570	02570	.1575		4.000	4.0	50	8	10.97	10.49	10.02	9.54
01580	02580	.1772		4.500	5.0	50	9.5	14.56	13.93	13.29	12.66
01070	02070	.1875	3/16"	4.763	3/16"	2"	3/8"	10.44	9.99	9.53	9.08
01590	02590	.1969		5.000	5.0	50	10	13.58	12.99	12.40	11.81
01080	02080	.2188	7/32"	5.558	1/4"	2"	7/16"	13.85	13.24	12.64	12.04
01600	02600	.2362		6.000	6.0	50	12	14.39	13.76	13.14	12.51

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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"	13.65	13.06	12.46	11.87
01610	02610	.2756		7.000	7.0	50	12	18.70	17.89	17.07	16.26
01100	02100	.3125	5/16"	7.938	5/16"	2"	1/2"	18.68	17.86	17.05	16.24
01620	02620	.3150		8.000	8.0	50	12	19.63	18.78	17.92	17.07
01630	02630	.3543		9.000	9.0	50	14	24.25	23.20	22.14	21.09
01110	02110	.3750	3/8"	9.525	3/8"	2"	5/8"	23.07	22.07	21.06	20.06
01640	02640	.3937		10.000	10.0	50	16	26.81	25.64	24.48	23.31
01650	02650	.4331		11.000	11.0	65	19	31.33	29.96	28.60	27.24
01120	02120	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	28.52	27.28	26.04	24.80
01660	02660	.4724		12.000	12.0	65	19	40.03	38.29	36.55	34.81
01130	02130	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	38.04	36.39	34.73	33.08
01140	02140	.6250	5/8"	15.875	5/8"	3"	3/4"	72.70	69.54	66.38	63.22
-	02670	.6299		16.000	16.0	75	19	76.52	73.19	69.87	66.54
01150	02150	.7500	3/4"	19.050	3/4"	3"	1"	104.57	100.02	95.48	90.93
-	02680	.7874		20.000	20.0	75	25	141.82	135.65	129.49	123.32
-	02160	1.000	1"	25.400	1"	3"	1"	179.94	172.12	164.29	156.47



End Mill Manufacturing

MATERIAL HARDNESS (Rc)

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