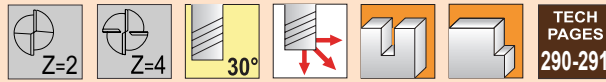


TOLERANCES

d_1	+0.000" -0.002" (+0.000 -0.050mm)
d_2	h6

Series 160MA, 170MA, 860MA, 870MA



**GENERAL PURPOSE
END MILLS**

Stub Length - Square End

TiALN Coating

Solid submicron grain carbide end mill - center cutting

Shorter flute length for rigidity

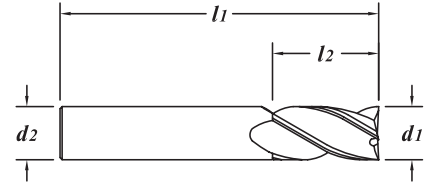
Dry or semi-dry machining

Extremely versatile

Bright Finish - page 219

Standard Length - page 232

Extended length - page 251



(160MA/860MA) 2 Flute EDP#	(170MA/870MA) 4 Flute EDP#	d_1 † Diameter		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	
		Decimal	Metric				
01017	02017	.0312	1/32"	0.792	1/8"	1-1/2"	1/16"
01517	02517	.0394		1.000	3.0	38	2
01027	02027	.0469	3/64"	1.191	1/8"	1-1/2"	3/32"
01527	02527	.0591		1.500	3.0	38	3
01037	02037	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"
01537	02537	.0787		2.000	3.0	38	4
01047	02047	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"
01547	02547	.0984		2.500	3.0	38	5
01557	02557	.1181		3.000	3.0	38	6
01057	02057	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"
01567	02567	.1378		3.500	4.0	50	7
01067	02067	.1562	5/32"	3.967	3/16"	2"	5/16"
01577	02577	.1575		4.000	4.0	50	8
01587	02587	.1772		4.500	5.0	50	9.5
01077	02077	.1875	3/16"	4.763	3/16"	2"	3/8"
01597	02597	.1969		5.000	5.0	50	10
01087	02087	.2188	7/32"	5.558	1/4"	2"	7/16"
01607	02607	.2362		6.000	6.0	50	12
01097	02097	.2500	1/4"	6.350	1/4"	2"	1/2"
01617	02617	.2756		7.000	7.0	50	12
01107	02107	.3125	5/16"	7.938	5/16"	2"	1/2"
01627	02627	.3150		8.000	8.0	50	12
01637	02637	.3543		9.000	9.0	50	14
01117	02117	.3750	3/8"	9.525	3/8"	2"	5/8"
01647	02647	.3937		10.000	10.0	50	16
01657	02657	.4331		11.000	11.0	65	19
01127	02127	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"
01667	02667	.4724		12.000	12.0	65	19
01137	02137	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"
01147	02147	.6250	5/8"	15.875	5/8"	3"	3/4"
-	02677	.6299		16.000	16.0	75	19
01157	02157	.7500	3/4"	19.050	3/4"	3"	1"
-	02687	.7874		20.000	20.0	75	25
-	02167	1.000	1"	25.400	1"	3"	1"

70

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MATERIAL HARDNESS (Rc)

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