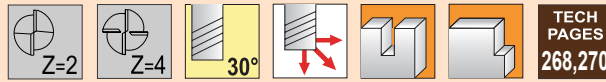


TOLERANCES

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

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



Stub Length - Square End

TiAlN Coating

Solid submicron grain carbide end mill - center cutting

Shorter flute length for rigidity

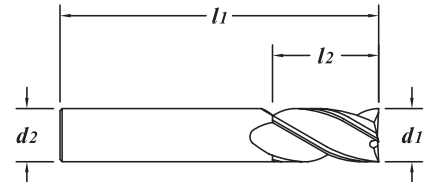
Dry or semi-dry machining

Extremely versatile

Uncoated - page 189

Standard Length - page 206

Extended length - page 233



(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	1-11	12-24	25-49	50-100	
		Decimal	Metric								
01017	02017	.0312	1/32"	0.792	1/8"	1-1/2"	1/16"	13.35	12.77	12.19	11.61
01517	02517	.0394		1.000	3.0	38	2	13.92	13.31	12.71	12.10
01027	02027	.0469	3/64"	1.191	1/8"	1-1/2"	3/32"	13.35	12.77	12.19	11.61
01527	02527	.0591		1.500	3.0	38	3	13.92	13.31	12.71	12.10
01037	02037	.0625	1/16"	1.588	1/8"	1-1/2"	1/8"	11.13	10.65	10.16	9.68
01537	02537	.0787		2.000	3.0	38	4	11.58	11.08	10.57	10.07
01047	02047	.0938	3/32"	2.383	1/8"	1-1/2"	3/16"	10.67	10.21	9.74	9.28
01547	02547	.0984		2.500	3.0	38	5	11.09	10.60	10.12	9.64
01557	02557	.1181		3.000	3.0	38	6	10.87	10.40	9.92	9.45
01057	02057	.1250	1/8"	3.175	1/8"	1-1/2"	1/4"	10.44	9.99	9.53	9.08
01567	02567	.1378		3.500	4.0	50	7	14.19	13.57	12.96	12.34
01067	02067	.1562	5/32"	3.967	3/16"	2"	5/16"	13.62	13.02	12.43	11.84
01577	02577	.1575		4.000	4.0	50	8	13.58	12.99	12.40	11.81
01587	02587	.1772		4.500	5.0	50	9.5	18.61	17.80	16.99	16.18
01077	02077	.1875	3/16"	4.763	3/16"	2"	3/8"	13.04	12.47	11.91	11.34
01597	02597	.1969		5.000	5.0	50	10	17.61	16.84	16.08	15.31
01087	02087	.2188	7/32"	5.558	1/4"	2"	7/16"	17.89	17.12	16.34	15.56
01607	02607	.2362		6.000	6.0	50	12	18.41	17.61	16.81	16.01
01097	02097	.2500	1/4"	6.350	1/4"	2"	1/2"	17.69	16.92	16.15	15.38
01617	02617	.2756		7.000	7.0	50	12	24.46	23.40	22.33	21.27
01107	02107	.3125	5/16"	7.938	5/16"	2"	1/2"	24.44	23.38	22.31	21.25
01627	02627	.3150		8.000	8.0	50	12	25.42	24.31	23.21	22.10
01637	02637	.3543		9.000	9.0	50	14	30.02	28.71	27.41	26.10
01117	02117	.3750	3/8"	9.525	3/8"	2"	5/8"	28.82	27.57	26.31	25.06
01647	02647	.3937		10.000	10.0	50	16	33.34	31.89	30.44	28.99
01657	02657	.4331		11.000	11.0	65	19	40.41	38.65	36.90	35.14
01127	02127	.4375	7/16"	11.113	7/16"	2-1/2"	5/8"	37.61	35.97	34.34	32.70
01667	02667	.4724		12.000	12.0	65	19	49.12	46.98	44.85	42.71
01137	02137	.5000	1/2"	12.700	1/2"	2-1/2"	5/8"	47.13	45.08	43.03	40.98
01147	02147	.6250	5/8"	15.875	5/8"	3"	3/4"	83.25	79.63	76.01	72.39
-	02677	.6299		16.000	16.0	75	19	87.03	83.25	79.46	75.68
01157	02157	.7500	3/4"	19.050	3/4"	3"	1"	117.19	112.09	107.00	101.90
-	02687	.7874		20.000	20.0	75	25	161.70	154.67	147.64	140.61
-	02167	1.000	1"	25.400	1"	3"	1"	199.82	191.14	182.45	173.76

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MATERIAL HARDNESS (Rc)

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