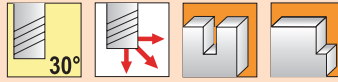


280M - 2 Flute - Square End
290M - 4 Flute - Square End
380M - 2 Flute - Ball End
390M - 4 Flute - Ball End

Technical information:
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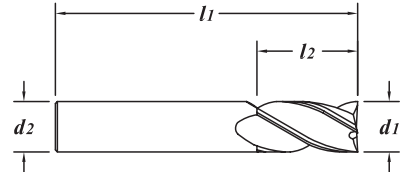


TOLERANCES

d_1	+.001" -.000" (+.025 -.000mm)	
d_2	1/8" - 3/16"	+0.000" -.0003" (-.0000 -.0075mm)
	1/4" - 1"	-.0001" -.0004" (-.0025 -.0100mm)
Ball radius	+.000" -.001" (+.000 -.025mm)	

Standard Length - N/C Tolerance

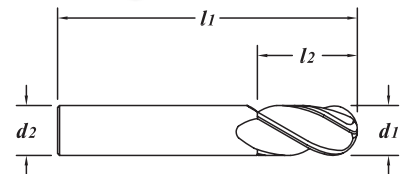
Solid submicron grain carbide end mill - center cutting
 Excellent for keyways
 Tight tolerance for precision machining
 For use when matching tools are necessary



280M EDP#	290M EDP#	d_1 †		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Diameter Metric								
25010	26010	.0625	1/16"	1.59	1/8"	1-1/2"	1/4"	11.74	11.23	10.72	10.21
25020	26020	.0938	3/32"	2.38	1/8"	1-1/2"	5/16"	11.13	10.64	10.16	9.67
25030	26030	.1250	1/8"	3.17	1/8"	1-1/2"	1/2"	10.80	10.33	9.86	9.39
25040	26040	.1875	3/16"	4.76	3/16"	2"	9/16"	14.36	13.74	13.11	12.49
25050	26050	.2500	1/4"	6.35	1/4"	2-1/2"	3/4"	16.52	15.80	15.08	14.36
25060	26060	.3125	5/16"	7.94	5/16"	2-1/2"	7/8"	23.65	22.62	21.59	20.56
25070	26070	.3750	* 3/8"	9.53	3/8"	2-1/2"	7/8"	30.35	29.03	27.71	26.38
25080	26080	.4375	* 7/16"	11.11	7/16"	2-3/4"	1"	37.01	35.40	33.80	32.19
25090	26090	.5000	* 1/2"	12.70	1/2"	3"	1"	48.59	46.48	44.37	42.26
25100	26100	.6250	* 5/8"	15.87	5/8"	3-1/2"	1-1/4"	86.52	82.75	79.00	75.23
25110	26110	.7500	* 3/4"	19.05	3/4"	4"	1-1/2"	129.38	123.75	118.12	112.50
25120	26120	1.000	* 1"	25.40	1"	4"	1-1/2"	219.72	210.16	200.62	191.06

Standard Length - N/C Tolerance - Ball End

Solid submicron grain carbide end mill - center cutting
 Excellent for keyways
 Tight tolerance for precision machining
 For use when matching tools are necessary
 Radius tolerance +.0005" -.0000" (+.0127mm -.0000mm)



380M EDP#	390M EDP#	d_1 †		d_2 Shank Diameter	l_1 Overall Length	l_2 Flute Length	1-11	12-24	25-49	50-100	
		Decimal	Diameter Metric								
27010	28010	.0625	1/16"	1.59	1/8"	1-1/2"	1/4"	13.52	12.93	12.34	11.75
27020	28020	.0938	3/32"	2.38	1/8"	1-1/2"	5/16"	12.81	12.25	11.70	11.14
27030	28030	.1250	1/8"	3.17	1/8"	1-1/2"	1/2"	12.42	11.88	11.34	10.80
27040	28040	.1875	3/16"	4.76	3/16"	2"	9/16"	16.52	15.80	15.08	14.36
27050	28050	.2500	1/4"	6.35	1/4"	2-1/2"	3/4"	19.00	18.18	17.35	16.53
27060	28060	.3125	5/16"	7.94	5/16"	2-1/2"	7/8"	27.18	25.99	24.81	23.63
27070	28070	.3750	* 3/8"	9.53	3/8"	2-1/2"	7/8"	34.90	33.38	31.87	30.35
27080	28080	.4375	* 7/16"	11.11	7/16"	2-3/4"	1"	42.56	40.71	38.85	37.00
27090	28090	.5000	* 1/2"	12.70	1/2"	3"	1"	55.90	53.47	51.04	48.61
27100	28100	.6250	* 5/8"	15.87	5/8"	3-1/2"	1-1/4"	99.52	95.19	90.86	86.54
27110	28110	.7500	* 3/4"	19.05	3/4"	4"	1-1/2"	148.78	142.31	135.84	129.38
27120	28120	1.000	* 1"	25.40	1"	4"	1-1/2"	252.68	241.70	230.70	219.72

* - Tools with weldon flats