

**TOLERANCES**

<i>d1</i>	+0.000" -0.002" (+0.000 -0.050mm)
<i>d2</i>	h6
<i>ball radius</i>	+0.000" -0.001" (+0.000 -0.025mm)



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PAGES  
284, 285,  
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**Series 310D**

HIGH PERFORMANCE  
END MILLS

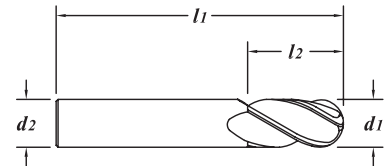
Recommended for graphite, fiber-reinforced plastics, carbon fiber

**Ball End**

**Diamond Coating**

Solid grade C-2 carbide end mill - center cutting

Crystalline diamond coating



EDP#	<i>d1</i> † Diameter		<i>d2</i> Shank Diameter	<i>l1</i> Overall Length	<i>l2</i> Flute Length	1-11	12-24	25-49	50-100	
	Decimal	Metric								
15018	.0312	1/32"	0.792	1/8"	1-1/2"	3/32"	99.04	94.73	90.43	86.12
48018	.0394		1.000	3.0	38	4	104.26	99.73	95.19	90.66
15028	.0469	3/64"	1.191	1/8"	1-1/2"	1/8"	99.04	94.73	90.43	86.12
48028	.0591		1.500	3.0	38	6	104.26	99.73	95.19	90.66
15038	.0625	1/16"	1.588	1/8"	1-1/2"	1/4"	96.72	92.51	88.31	84.10
48038	.0787		2.000	3.0	38	8	101.79	97.36	92.94	88.51
15058	.0938	3/32"	2.383	1/8"	1-1/2"	3/8"	95.04	90.90	86.77	82.64
48058	.1181		3.000	3.0	38	12	96.00	91.83	87.65	83.48
15078	.1250	1/8"	3.175	1/8"	1-1/2"	1/2"	91.20	87.23	83.27	79.30
48078	.1575		4.000	4.0	50	14	138.72	132.69	126.66	120.63
15118	.1875	3/16"	4.763	3/16"	2"	5/8"	131.80	126.07	120.34	114.61
48098	.1969		5.000	5.0	50	16	144.96	138.66	132.35	126.05
48108	.2362		6.000	6.0	65	20	148.03	141.59	135.16	128.72
15158	.2500	1/4"	6.350	1/4"	2-1/2"	3/4"	140.63	134.52	128.40	122.29
15198	.3125	5/16"	7.938	5/16"	2-1/2"	7/8"	158.40	151.51	144.63	137.74
48128	.3150		8.000	8.0	65	20	185.64	177.57	169.50	161.43
15238	.3750	3/8"	9.525	3/8"	2-1/2"	7/8"	176.88	169.19	161.50	153.81
48168	.4724		12.000	12.0	75	25	226.75	216.89	207.03	197.17
15318	.5000	1/2"	12.700	1/2"	3"	1"	215.41	206.04	196.68	187.31

MATERIAL HARDNESS (RC) 70 35 0