

SPEED & FEED GUIDE

Optimum Performance



Series 2010, 2012, 2014, 2015

250 2 FLUTE SERIES NON-FERROUS

Material		Axial ↓	Radial →	SFM	1/8		1/4		5/16		3/8		1/2		5/8		3/4	
					RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM
N	Aluminum, Brass, Copper 6061, 7050, 7075	.5 x D	1 x D	600	18336	44	9168	48	7334	53	6112	53	4584	55	3667	53	3056	53
		1.25 x D	.3 x D	720	22003	66	11002	70	8801	77	7334	77	5501	80	4401	77	3667	77
		1.5 x D	.1 x D	1200	36672	147	18336	150	14669	154	12224	154	9168	162	7334	155	6112	155
	High Silicon Aluminum 4% - 13% A242, A319, A356, A390	.5 x D	1 x D	600	18336	37	9168	40	7334	44	6112	44	4584	46	3667	44	3056	44
		1.25 x D	.3 x D	720	22003	53	11002	56	8801	63	7334	63	5501	67	4401	64	3667	64
		1.5 x D	.1 x D	1200	36672	117	18336	121	14669	132	12224	132	9168	139	7334	133	6112	133

Series 2030, 2031, 2047, 2032, 2050, 2053

350 3 FLUTE SERIES NON-FERROUS

Material		Axial ↓	Radial →	SFM	1/8		1/4		5/16		3/8		1/2		5/8		3/4	
					RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM
N	Aluminum, Brass, Copper 6061, 7050, 7075	.5 x D	1 x D	600	18336	66	9168	66	7334	79	6112	79	4584	83	3667	80	3056	80
		1.25 x D	.3 x D	720	22003	99	11002	96	8801	115	7334	115	5501	121	4401	116	3667	116
		1.5 x D	.1 x D	1200	36672	220	18336	193	14669	231	12224	231	9168	243	7334	233	6112	233
	High Silicon Aluminum 4% - 13% A242, A319, A356, A390	.5 x D	1 x D	600	18336	55	9168	55	7334	66	6112	66	4584	69	3667	67	3056	67
		1.25 x D	.3 x D	720	22003	79	11002	79	8801	95	7334	95	5501	100	4401	96	3667	96
		1.5 x D	.1 x D	1200	36672	176	18336	165	14669	198	12224	198	9168	208	7334	200	6112	200

Series 2060

550 5 FLUTE SERIES NON-FERROUS

Material		Axial ↓	Radial →	SFM	1/8		1/4		5/16		3/8		1/2		5/8		3/4	
					RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM	RPM	IPM
N	Aluminum, Brass, Copper 6061, 7050, 7075	.5 x D	.5 x D	600	18336	110	9168	110	7334	132	6112	132	4584	139	3667	133	3056	133
		1.25 x D	.3 x D	720	22003	165	11002	160	8801	191	7334	191	5501	201	4401	193	3667	193
		1.5 x D	.1 x D	1200	36672	367	18336	321	14669	385	12224	385	9168	404	7334	388	6112	388
	High Silicon Aluminum 4% - 13% A242, A319, A356, A390	.5 x D	.5 x D	600	18336	92	9168	92	7334	110	6112	110	4584	116	3667	111	3056	111
		1.25 x D	.3 x D	720	22003	132	11002	132	8801	158	7334	158	5501	166	4401	160	3667	160
		1.5 x D	.1 x D	1200	36672	293	18336	275	14669	330	12224	330	9168	347	7334	333	6112	333

PERFORMANCE

Premium Carbide End Mills for Non-Ferrous Alloys



Series 2010 250 | 2FL | Square & Radius

Diameter	Shank Dia.	LOC	OAL	Radius	Bright EDP	ZrN EDP
1/8	1/8	1/4	1-1/2	-	312896	312900
1/8	1/8	1/4	1-1/2	0.010	-	312902
1/8	1/8	5/16	1-1/2	-	312904	312908
1/8	1/8	3/8	1-1/2	-	312911	312924
1/8	1/8	3/8	1-1/2	0.010	-	312915
1/8	1/8	3/8	1-1/2	0.020	-	312918
1/8	1/8	3/8	1-1/2	0.030	-	312922
1/8	1/8	1/2	2	-	312926	312928
1/8	1/8	5/8	2	-	312930	312934
1/8	1/8	3/4	2	-	312937	312939
1/8	1/8	1	2-1/2	-	312942	312944
5/32	3/16	5/16	2	-	312946	312948
5/32	3/16	9/16	2	-	312952	312955
3/16	3/16	5/16	2	-	312958	312960
3/16	3/16	5/16	2	0.020	-	312964
3/16	3/16	5/16	3	-	-	312966
3/16	3/16	3/8	2	-	312970	312973
3/16	3/16	5/8	2-1/2	-	312976	312979
3/16	3/16	5/8	2-1/2	0.010	-	312981
3/16	3/16	5/8	2-1/2	0.020	-	312984
3/16	3/16	5/8	2-1/2	0.030	-	312986
3/16	3/16	3/4	2-1/2	-	312988	312990
3/16	3/16	1	2-1/2	-	312993	312995
7/32	1/4	3/8	2-1/2	-	312997	313000
7/32	1/4	3/4	2-1/2	-	313002	313006
1/4	1/4	3/8	2-1/2	-	313010	313013
1/4	1/4	3/8	2-1/2	0.015	-	313015
1/4	1/4	3/8	2-1/2	0.020	-	313017
1/4	1/4	3/8	2-1/2	0.030	-	313021
1/4	1/4	3/8	2-1/2	0.060	-	313024
1/4	1/4	1/2	2-1/2	-	313028	313031
1/4	1/4	5/8	2-1/2	-	313033	313035
1/4	1/4	3/4	2-1/2	-	313037	313039
1/4	1/4	3/4	2-1/2	0.010	-	313042
1/4	1/4	3/4	2-1/2	0.015	-	313044
1/4	1/4	3/4	2-1/2	0.020	-	313047
1/4	1/4	3/4	2-1/2	0.030	-	313049
1/4	1/4	3/4	2-1/2	0.045	-	313052
1/4	1/4	3/4	2-1/2	0.060	-	313054
1/4	1/4	1	2-1/2	-	313056	313060



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Premium Carbide End Mills for Non-Ferrous Alloys

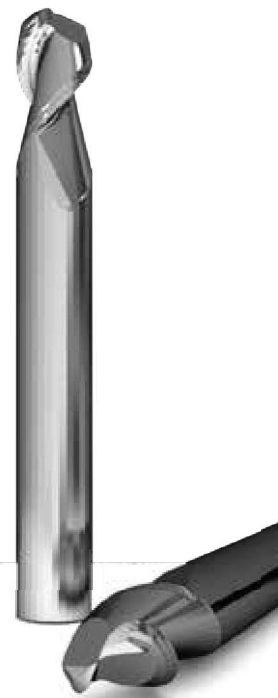


Series 2010 250 | 2FL | Square & Radius

Diameter	Shank Dia.	LOC	OAL	Radius	Bright EDP	ZrN EDP
1/4	1/4	1-1/8	2-1/2	-	313063	313067
1/4	1/4	1-1/4	3	-	313070	313072
1/4	1/4	1-1/2	3	-	313074	313077
1/4	1/4	2	4	-	313079	313083
9/32	5/16	7/16	2-1/2	-	313087	313089
9/32	5/16	13/16	2-1/2	-	313091	313094
5/16	5/16	7/16	2-1/2	-	313096	313098
5/16	5/16	7/16	2-1/2	0.020	-	313100
5/16	5/16	7/16	2-1/2	0.030	-	313102
5/16	5/16	1/2	2-1/2	-	313104	313108
5/16	5/16	13/16	2-1/2	-	313111	313114
5/16	5/16	13/16	2-1/2	0.020	-	313117
5/16	5/16	13/16	2-1/2	0.030	-	313120
5/16	5/16	13/16	2-1/2	0.060	-	313122
5/16	5/16	1-1/8	2-1/2	-	313124	313127
5/16	5/16	1-1/4	3-1/2	-	313129	313133
5/16	5/16	1-1/2	3-1/2	-	313136	313140
5/16	5/16	2-1/8	4	-	313144	313148
11/32	3/8	1/2	2-1/2	-	313150	313153
11/32	3/8	1	2-1/2	-	313157	313159
3/8	3/8	1/2	2-1/2	-	313162	313164
3/8	3/8	1/2	2-1/2	0.020	-	313166
3/8	3/8	1/2	2-1/2	0.030	-	313169
3/8	3/8	1/2	2-1/2	0.040	-	313172
3/8	3/8	5/8	2-1/2	-	313175	313177
3/8	3/8	3/4	2-1/2	-	313181	313183
3/8	3/8	1	2-1/2	-	313187	313189
3/8	3/8	1	2-1/2	0.020	-	313192
3/8	3/8	1	2-1/2	0.030	-	313194
3/8	3/8	1	2-1/2	0.045	-	313198
3/8	3/8	1	2-1/2	0.060	-	313201
3/8	3/8	1-1/4	3	-	313203	313207
3/8	3/8	1-1/2	4	-	313209	313212
3/8	3/8	2	4	-	313215	313218
3/8	3/8	2-1/2	6	-	313222	313225
13/32	7/16	9/16	2-3/4	-	313229	313231
13/32	7/16	1	2-3/4	-	313234	313238
7/16	7/16	9/16	2-3/4	-	313241	313244
7/16	7/16	1	2-3/4	-	313246	313249
7/16	7/16	2	4	-	313252	313254



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Series 2010 250 | 2FL | Square & Radius

Diameter	Shank Dia.	LOC	OAL	Radius	Bright EDP	ZrN EDP
15/32	1/2	5/8	3	-	313257	313260
15/32	1/2	1-1/4	3	-	313264	313266
1/2	1/2	5/8	3	-	313270	313274
1/2	1/2	5/8	3	0.015	-	313276
1/2	1/2	5/8	3	0.020	-	313278
1/2	1/2	5/8	3	0.030	-	313281
1/2	1/2	5/8	3	0.060	-	313284
1/2	1/2	5/8	3	0.090	-	313288
1/2	1/2	3/4	3	-	313291	313293
1/2	1/2	1	3	-	313297	313300
1/2	1/2	1-1/4	3	-	313302	313304
1/2	1/2	1-1/4	3	0.015	-	313307
1/2	1/2	1-1/4	3	0.020	-	313311
1/2	1/2	1-1/4	3	0.030	-	313315
1/2	1/2	1-1/4	3	0.060	-	313317
1/2	1/2	1-1/4	3	0.090	-	313321
1/2	1/2	1-1/4	3	0.120	-	313325
1/2	1/2	1-1/2	4	-	313329	313331
1/2	1/2	2	4	-	313333	313337
1/2	1/2	2-1/4	6	-	313339	313341
1/2	1/2	2-1/2	6	-	313344	313346
1/2	1/2	3-1/4	6	-	313348	313350
1/2	1/2	4	8	-	313353	313356
5/8	5/8	3/4	3-1/2	-	313358	313362
5/8	5/8	1-1/4	3-1/2	-	313366	313370
5/8	5/8	1-5/8	3-1/2	-	313372	313374
5/8	5/8	1-5/8	3-1/2	0.030	-	313378
5/8	5/8	1-5/8	3-1/2	0.060	-	313381
5/8	5/8	1-5/8	3-1/2	0.090	-	313383
5/8	5/8	1-5/8	3-1/2	0.120	-	313385
5/8	5/8	2	5	-	313389	313392
5/8	5/8	2-1/2	5	-	313395	313397
5/8	5/8	2-3/4	5	-	313399	313401
5/8	5/8	3-1/4	6	-	313403	313406
5/8	5/8	4	8	-	313410	313414
3/4	3/4	1	4	-	313418	313422
3/4	3/4	1	4	0.060	-	313424
3/4	3/4	1	4	0.090	-	313427
3/4	3/4	1	4	0.120	-	313429
3/4	3/4	1-1/2	4	-	313431	313435



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Series 2010 250 | 2FL | Square & Radius

Diameter	Shank Dia.	LOC	OAL	Radius	Bright EDP	ZrN EDP
3/4	3/4	1-5/8	4	-	313439	313443
3/4	3/4	1-5/8	4	0.060	-	313447
3/4	3/4	1-5/8	4	0.090	-	313450
3/4	3/4	1-5/8	4	0.120	-	313453
3/4	3/4	2	5	-	313456	313458
3/4	3/4	2-1/4	5	-	313461	313463
3/4	3/4	2-1/2	5	-	313465	313469
3/4	3/4	3	6	-	313473	313477
3/4	3/4	3-1/4	6	-	313479	313483
3/4	3/4	3-1/2	6	-	313487	313489
3/4	3/4	4	7	-	313492	313496
3/4	3/4	5	8	-	313499	313502
1	1	1-1/4	5	-	313506	313509
1	1	1-1/2	5	-	313511	313514
1	1	2	5	-	313517	313519
1	1	2	5	0.060	-	313523
1	1	2	5	0.090	-	313526
1	1	2	5	0.120	-	313528
1	1	2-1/2	5	-	313531	313533
1	1	3	6	-	313535	313537
1	1	3-1/2	6	-	313541	313543
1	1	4-1/8	7	-	313546	313548
1	1	5-1/2	8	-	313550	313553
1-1/4	1-1/4	1-1/4	4-1/2	-	-	313555
1-1/4	1-1/4	2	4-1/2	-	-	313557
1-1/4	1-1/4	5	7-1/2	-	-	313560



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