

## 3-Flute Regular Length Carbide End Mills

3-flute carbide end mills offer maximum chip clearance therefore reducing chip packing.

**For:** End milling, Slotting, Sinking  
**On:** Steels, Cast Iron, Aluminum, Copper, Brass, Plastics, and Abrasive Type Materials



Bright: Speeds & Feeds > P. A31

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
1/16	1/8	3/16	1-1/2	101080	13.51	102353	17.04
5/64	1/8	3/16	1-1/2	101081	13.51	102354	17.04
3/32	1/8	5/16	1-1/2	101082	12.78	102355	16.28
7/64	1/8	7/16	1-1/2	101083	12.78	102356	16.28
1/8	1/8	1/2	1-1/2	101084	11.79	102357	15.30
9/64	3/16	1/2	2	101085	17.44	102358	20.94
5/32	3/16	9/16	2	101086	17.44	102359	20.94
11/64	3/16	5/8	2	101087	17.44	102361	20.94
3/16	3/16	5/8	2	101088	16.55	102363	20.02
13/64	1/4	5/8	2-1/2	101089	21.91	102365	29.17
7/32	1/4	5/8	2-1/2	101090	21.91	102367	29.17
15/64	1/4	3/4	2-1/2	101091	21.91	102369	29.17
1/4	1/4	3/4	2-1/2	101092	19.94	102371	27.18
17/64	5/16	3/4	2-1/2	101093	34.98	102373	45.81
9/32	5/16	3/4	2-1/2	101094	34.98	102375	45.81
19/64	5/16	13/16	2-1/2	101095	34.98	102377	45.81
5/16	5/16	13/16	2-1/2	101096	27.97	102379	38.81
3/8	3/8	1	2-1/2	101097	34.86	102381	45.65
7/16	7/16	1	2-3/4	101098	42.51	102383	54.84
1/2	1/2	1	3	101099	55.80	102384	68.11
9/16	9/16	1-1/8	3-1/2	101100	95.33	102385	113.10
5/8	5/8	1-1/4	3-1/2	101101	107.61	102386	125.42
11/16	3/4	1-3/8	4	101102	179.21	-	-
3/4	3/4	1-1/2	4	101103	157.77	102388	178.78
7/8	7/8	1-1/2	4	101104	227.05	102389	258.08
1	1	1-1/2	4	101105	236.05	102390	267.04
<b>Metric</b>							
1	3	3	39	101490	15.30	102391	18.80
1.5	3	5	39	101491	15.30	102392	18.80
2	3	7	39	101492	14.17	102393	17.67
3	3	10	39	101494	12.39	-	-
3.5	4	12	51	101495	18.33	102396	21.84
4	4	14	51	101496	17.40	-	-
4.5	5	14	51	101497	21.28	102398	26.75
5	5	16	51	101498	20.29	102399	27.52
6	6	19	64	101499	20.94	102401	28.17
7	8	19	64	101500	28.77	102403	39.57
8	8	21	64	101501	29.37	102405	40.20
9	10	22	70	101502	36.58	102407	47.40
10	10	25	70	101503	42.41	102409	54.70
11	11	25	70	101504	44.65	-	-
12	12	25	76	101505	58.61	102413	70.89
14	14	30	89	101506	100.06	102415	117.86
16	16	32	89	101507	113.00	102417	130.81
18	18	35	102	101508	165.69	102419	186.69
20	20	38	102	101509	210.65	102421	241.69
22	22	38	102	101510	234.08	102423	265.09
25	25	38	102	101511	244.74	102425	293.68

## 3-Flute Ball Nose Regular Length



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Bright: Speeds & Feeds > P. A33

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
1/16	1/8	3/16	1-1/2	101110	17.44	102455	20.94
5/64	1/8	3/16	1-1/2	101111	17.44	102457	20.94
3/32	1/8	5/16	1-1/2	101112	16.68	102459	20.18
7/64	1/8	7/16	1-1/2	101113	16.68	102461	20.18
1/8	1/8	1/2	1-1/2	101114	15.13	102463	18.63
9/64	3/16	1/2	2	101115	22.20	102465	25.73
5/32	3/16	9/16	2	101116	22.20	102467	25.73
11/64	3/16	5/8	2	101117	22.20	102469	25.73
3/16	3/16	5/8	2	101118	19.94	102470	23.44
13/64	1/4	5/8	2-1/2	101119	25.82	102471	33.06
7/32	1/4	5/8	2-1/2	101120	25.82	102472	33.06
15/64	1/4	3/4	2-1/2	101121	25.82	102473	33.06
1/4	1/4	3/4	2-1/2	101122	24.77	102474	31.97
17/64	5/16	3/4	2-1/2	101123	38.77	102475	49.58
9/32	5/16	3/4	2-1/2	101124	38.77	102476	49.58
19/64	5/16	13/16	2-1/2	101125	38.77	102477	49.58
5/16	5/16	13/16	2-1/2	101126	32.47	102478	43.33
3/8	3/8	1	2-1/2	101127	39.74	102479	50.60
7/16	7/16	1	2-3/4	101128	48.91	102481	61.18
1/2	1/2	1	3	101129	73.96	102483	86.31
9/16	9/16	1-1/8	3-1/2	101130	107.73	-	-
5/8	5/8	1-1/4	3-1/2	101131	119.63	102487	137.41
11/16	3/4	1-3/8	4	101132	199.15	-	-
3/4	3/4	1-1/2	4	101133	176.06	102491	197.06
7/8	7/8	1-1/2	4	101134	282.06	-	-
1	1	1-1/2	4	101135	305.38	102495	336.43
<b>Metric</b>							
1	3	3	39	101520	19.83	102497	23.40
1.5	3	5	39	101521	19.83	102499	23.40
2	3	7	39	101522	18.69	102501	22.29
2.5	3	8	39	101523	17.91	102503	21.48
3	3	10	39	101524	16.26	102505	19.83
3.5	4	12	51	101525	23.87	102507	27.43
4	4	14	51	101526	21.40	102509	24.98
4.5	5	14	51	101527	26.93	102511	32.52
5	5	16	51	101528	25.95	102513	33.33
6	6	19	64	101529	26.59	102515	33.97
7	8	19	64	101530	34.14	-	-
8	8	21	64	101531	34.92	102519	45.95
9	10	22	70	101532	42.66	102521	53.70
10	10	25	70	101533	49.85	102523	62.44
11	11	25	70	101534	52.48	-	-
12	12	25	76	101535	79.40	102527	91.94
14	14	30	89	101536	115.59	102529	133.76
16	16	32	89	101537	128.35	102531	146.53
18	18	35	102	101538	188.88	102533	210.38
20	20	38	102	101539	253.30	102535	285.01
22	22	38	102	101540	281.33	102537	313.08
25	25	38	102	101541	294.96	102539	326.65

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Tolerances - Inch			Tolerances - Metric		
Size	Diameter	Shank Diameter	Size	Diameter	Shank Diameter
3/32 thru 1"	+0.000"-0.002"	+0.0000"-0.0005"	1mm-25mm	+0.000mm-0.051mm	+0.000mm-0.013mm
Steel			Stainless Steel		
Cast Iron/Hardened			Aluminum		