

## 2-Flute Regular Length Carbide End Mills

A general purpose carbide end mill with maximum chip clearance added.

**For:** End milling,  
Slotting, Sinking  
**On:** Variety of Steels,  
Cast Iron, Non-Ferrous Metals,  
Plastics, Abrasive Type Materials



Bright: Speeds & Feeds > P. A31  
TiAlN: Speeds & Feeds > P. A34

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
1/32	1/8	1/8	1-1/2	103770	14.56	102677	18.07
3/64	1/8	9/64	1-1/2	103772	14.56	102799	18.07
1/16	1/8	3/16	1-1/2	103848	13.51	102800	17.04
5/64	1/8	1/4	1-1/2	103773	13.51	102801	17.04
3/32	1/8	5/16	1-1/2	103849	12.78	102802	16.28
7/64	1/8	3/8	1-1/2	103775	12.78	102803	16.28
1/8	1/8	1/2	1-1/2	103850	11.79	102804	15.30
9/64	3/16	1/2	2	103776	17.44	102805	20.94
5/32	3/16	9/16	2	103851	17.44	102806	20.94
11/64	3/16	9/16	2	103777	17.44	102807	20.94
3/16	3/16	5/8	2	103852	16.55	102808	20.02
13/64	1/4	5/8	2-1/2	103778	21.91	102809	29.17
7/32	1/4	5/8	2-1/2	103853	21.91	102811	29.17
1/4	1/4	3/4	2-1/2	103854	19.94	102810	27.18
9/32	5/16	3/4	2-1/2	103855	34.98	102813	45.81
5/16	5/16	13/16	2-1/2	103856	27.97	102812	38.81
11/32	3/8	7/8	2-1/2	103779	41.43	102815	52.25
3/8	3/8	1	2-1/2	103857	34.86	102814	45.65
13/32	7/16	1	2-3/4	103780	49.54	102817	61.86
7/16	7/16	1	2-3/4	103858	42.51	102816	54.84
1/2	1/2	1	3	103859	55.80	102818	68.11
9/16	9/16	1-1/8	3-1/2	103886	95.33	102820	113.10
5/8	5/8	1-1/4	3-1/2	103887	107.61	102822	125.42
11/16	3/4	1-3/8	4	103888	179.21	102824	200.23
3/4	3/4	1-1/2	4	103889	157.77	102826	178.78
7/8	7/8	1-1/2	4	103890	227.05	102828	258.08
1	1	1-1/2	4	103891	236.05	102830	267.04
<b>6pc set: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4"</b>				103846	372.57	-	-
<b>5pc set: 3/16", 1/4", 5/16", 3/8", 1/2"</b>				-	-	102957	184.26
<b>Metric</b>							
0.5	3	1.5	39	101552	15.30	102819	18.83
1	3	3	39	101553	15.30	102821	18.80
1.5	3	5	39	101432	15.30	102823	18.80
2	3	7	39	102696	14.17	102825	17.67
2.5	3	7	39	102697	13.41	102827	16.94
3	3	9	39	102698	12.39	102829	15.91
3.5	4	12	51	102699	18.33	102853	21.84
4	4	14	51	102700	17.40	102855	20.90
4.5	5	14	51	102701	21.28	102857	26.75
5	5	16	51	102702	20.29	102859	27.52
6	6	19	64	102703	20.94	102861	28.17
7	8	19	64	102704	28.77	102863	39.57
8	8	21	64	102705	29.37	102865	40.20
9	10	22	70	102706	36.58	102867	47.40
10	10	22	70	102707	42.41	102869	54.70
11	11	25	70	102708	44.65	102871	56.95
12	12	25	76	102709	58.61	102873	70.89
14	14	30	89	102711	100.06	102875	117.86
16	16	32	89	102712	113.00	102881	130.81
18	18	35	102	102713	165.69	102883	186.69
20	20	38	102	102714	210.65	102885	241.69
22	22	38	102	101451	234.08	102887	265.09
25	25	38	102	102715	244.74	102889	275.76

## 2-Flute Stub Length Carbide End Mills

2-Flute Stub has added strength and stability with the same geometry of our standard length series. Stub end mills are specifically designed for shallow milling and slotting in a variety of materials.



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TiAlN: Speeds & Feeds > P. A34

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
1/32	1/8	5/64	1-1/2	101220	14.56	102202	18.07
3/64	1/8	3/32	1-1/2	101221	14.56	102221	18.07
1/16	1/8	1/8	1-1/2	101222	13.51	102222	17.04
5/64	1/8	1/8	1-1/2	101223	13.51	102223	17.04
3/32	1/8	3/16	1-1/2	101224	12.78	102224	16.28
7/64	1/8	7/32	1-1/2	101225	12.78	102225	16.28
1/8	1/8	1/4	1-1/2	101226	11.79	102226	15.30
9/64	3/16	9/32	2	101227	17.44	102227	20.94
5/32	3/16	5/16	2	101228	17.44	102228	20.94
3/16	3/16	3/8	2	101229	16.55	102229	20.02
7/32	1/4	7/16	2	101230	18.74	102203	24.22
1/4	1/4	1/2	2	101231	18.47	102231	23.95
5/16	5/16	1/2	2	101232	25.28	102204	33.07
3/8	3/8	5/8	2	101233	31.22	102233	39.01
7/16	7/16	5/8	2-1/2	101234	38.60	102206	50.90
1/2	1/2	5/8	2-1/2	101235	51.49	102235	63.79
5/8	5/8	3/4	3	101236	98.41	102207	112.68
3/4	3/4	1	3	101237	141.54	102237	158.62
<b>Metric</b>							
1	3	2	39	101640	15.64	102631	19.24
1.5	3	3	39	101641	15.64	102641	19.24
2	3	4	39	101642	12.42	102633	16.02
2.5	3	5	39	101643	11.76	102643	15.34
3	3	6	39	101644	11.47	102644	15.04
3.5	4	7	51	101645	16.05	102645	19.62
4	4	8	51	101646	15.17	102646	18.79
4.5	5	9	51	101647	20.15	102647	25.74
5	5	10	51	101648	18.79	102648	24.35
6	6	12	51	101649	19.90	102649	25.47
7	8	12	51	101650	25.86	102635	33.84
8	8	12	51	101651	27.15	102651	35.15
9	10	14	51	101652	33.55	102637	41.51
10	10	14	51	101653	37.08	102653	46.11
11	11	16	64	101654	43.33	-	-
12	12	16	64	101655	55.37	-	-

## 2-Flute 1/8" Shank Miniature Carbide End Mills

Designed for milling small precision components in a variety of materials.



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TiAlN: Speeds & Feeds > P. A34

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
0.015	1/8	0.047	1-1/2	101210	25.29	102208	25.29
0.020	1/8	0.063	1-1/2	101211	24.47	102211	24.47
0.025	1/8	0.078	1-1/2	101212	22.80	102212	22.80
0.030	1/8	0.094	1-1/2	101213	20.45	102213	20.45
0.035	1/8	0.109	1-1/2	101214	15.64	102214	19.21
0.040	1/8	0.125	1-1/2	101215	15.64	102209	19.21
0.045	1/8	0.140	1-1/2	101216	15.64	102216	19.21
0.050	1/8	0.156	1-1/2	101217	15.64	102217	19.21
0.055	1/8	0.171	1-1/2	101218	15.64	102218	19.21
0.060	1/8	0.188	1-1/2	101219	15.64	102219	19.21

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
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