

## 4-Flute Double End Regular Length

Four-flute configuration with centre cutting permits plunging and milling on many ferrous and non-ferrous materials. It also offers lower chip-load for size control and finish.

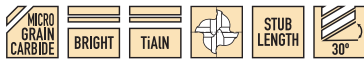


Bright: Speeds & Feeds > P. A31  
TiAlN: Speeds & Feeds > P. A34

Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
1/8	3/8	3/8	3-1/16	101340	45.11	102589	59.39
5/32	3/8	7/16	3-1/8	101341	45.11	-	-
3/16	3/8	1/2	3-1/4	101342	45.11	102593	59.39
7/32	3/8	9/16	3-3/8	101343	45.11	102595	59.39
1/4	3/8	5/8	3-3/8	101344	45.11	102597	59.39
9/32	3/8	11/16	3-3/8	101345	51.85	102599	69.94
5/16	3/8	3/4	3-1/2	101346	51.85	102671	69.94
11/32	3/8	3/4	3-1/2	101347	60.78	-	-
3/8	3/8	3/4	3-1/2	101348	51.85	102675	69.94
7/16	1/2	7/8	4	101349	56.66	-	-
1/2	1/2	1	4	101350	66.93	102679	80.93

## 4-Flute Double End Stub Length

These end mills have a shorter flute length which provides greater rigidity with less deflection for shallow milling or slotting. This series is ideal for use on high tensile alloys and heat treated steels.



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Cutting Dia.	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>							
1/16	1/8	1/8	1-1/2	102230	23.00	102330	27.61
3/32	1/8	3/16	1-1/2	102232	23.00	102332	27.61
1/8	1/8	1/4	1-1/2	102234	14.25	102334	16.41
5/32	3/16	5/16	2	102236	25.32	102336	29.95
3/16	3/16	3/8	2	102238	20.65	102338	25.29
7/32	1/4	1/2	2-1/2	102240	29.52	102340	39.05
1/4	1/4	1/2	2-1/2	102242	26.90	102342	36.40
5/16	5/16	1/2	2-1/2	102244	33.48	102344	47.71
3/8	3/8	1/2	2-1/2	102246	35.59	102346	49.86
7/16	7/16	9/16	2-3/4	102248	60.48	102348	76.68
1/2	1/2	5/8	3	102250	60.48	102350	76.68

## 4-Flute Corner Radius Regular Length

Four-flute carbide end mills with corner radius allows more strength and minimizes chipping on corners. Four-flute construction provides more strength than two or three-flute and will also result in excellent surface finishes.



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Cutting Dia.	Corner Radius (in.)	Shank Dia.	Flute Length	Overall Length	Bright Code No.	Price \$	TiAlN Code No.	Price \$
<b>Inch</b>								
1/8	0.015	1/8	1/2	1-1/2	101175	13.28	101833	16.38
3/16	0.020	3/16	5/8	2	101176	17.51	101834	20.60
3/16	0.030	3/16	5/8	2	101177	17.51	101835	20.60
1/4	0.020	1/4	3/4	2-1/2	101178	21.77	101836	28.09
1/4	0.030	1/4	3/4	2-1/2	101179	21.77	101837	24.43
1/4	0.045	1/4	3/4	2-1/2	101180	18.93	101838	28.09
5/16	0.020	5/16	13/16	2-1/2	101181	28.53	101839	38.08
5/16	0.030	5/16	13/16	2-1/2	101182	28.53	101862	38.08
5/16	0.045	5/16	13/16	2-1/2	101183	28.53	101863	38.08
3/8	0.020	3/8	1	2-1/2	101184	34.91	101864	44.46
3/8	0.030	3/8	1	2-1/2	101185	34.91	101865	38.66
3/8	0.045	3/8	1	2-1/2	101186	34.91	101866	44.46
1/2	0.020	1/2	1	3	101187	64.99	101867	65.94
1/2	0.030	1/2	1	3	101188	64.99	101868	65.94
1/2	0.045	1/2	1	3	101189	64.99	101869	75.83
1/2	0.060	1/2	1	3	101190	56.51	101892	75.83
5/8	0.020	5/8	1-1/4	3-1/2	101191	105.10	101893	120.73
5/8	0.030	5/8	1-1/4	3-1/2	101192	105.10	101894	120.73
5/8	0.045	5/8	1-1/4	3-1/2	101193	105.10	101895	120.73
5/8	0.060	5/8	1-1/4	3-1/2	101194	105.10	101896	120.73
5/8	0.090	5/8	1-1/4	3-1/2	101195	105.10	101897	120.73
3/4	0.020	3/4	1-1/2	4	101197	154.68	101898	173.13
3/4	0.030	3/4	1-1/2	4	101198	154.68	101899	173.13
3/4	0.045	3/4	1-1/2	4	101199	154.68	101900	173.13
3/4	0.060	3/4	1-1/2	4	101200	154.68	101991	173.13
3/4	0.090	3/4	1-1/2	4	101201	154.68	101992	173.13
3/4	0.125	3/4	1-1/2	4	101196	154.68	101993	173.13
1	0.020	1	1-1/2	4	101203	268.30	101994	295.57
1	0.030	1	1-1/2	4	101204	268.30	101995	295.57
1	0.045	1	1-1/2	4	101205	268.30	101996	295.57
1	0.060	1	1-1/2	4	101206	268.30	101997	295.57
1	0.090	1	1-1/2	4	101207	268.30	101998	295.57
1	0.125	1	1-1/2	4	101202	268.30	101999	295.57



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