

# 4-Flute Typhoon End Mills

## 4-Flute Corner Radius — Typhoon

Typhoon end mills with corner radius provides greater strength and minimizes chipping on the corners in demanding applications.



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Cutting Dia. (in.)	Corner Radius (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
<b>Inch</b>						
1/8	0.015	1/8	1/2	1-1/2	102652	19.57
1/8	0.030	1/8	1/2	1-1/2	102656	18.66
3/16	0.020	3/16	5/8	2	102660	24.61
1/4	0.020	1/4	3/4	2-1/2	102666	33.57
1/4	0.030	1/4	3/4	2-1/2	102668	33.57
5/16	0.020	5/16	13/16	2-1/2	102670	45.50
5/16	0.030	5/16	13/16	2-1/2	102672	45.50
3/8	0.020	3/8	1	2-1/2	102678	53.14
3/8	0.030	3/8	1	2-1/2	102680	53.14
1/2	0.020	1/2	1	3	102686	90.63
1/2	0.030	1/2	1	3	102688	90.63
1/2	0.060	1/2	1	3	102690	90.63

## 4-Flute Spherical Ball End — Typhoon

- High performance ball nose plus end mills are used in the mold industry and have a full 220 degree arc cutting capability
- Modified AlTiN coated for improved tool life and increased production output
- Made from premium sub-micron grain carbide



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Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
<b>Regular Length</b>					
1/8	1/8	3/32	1-1/2	153130	37.63
3/16	3/16	9/64	2	153132	51.07
1/4	1/4	3/16	2-1/2	153134	71.13
3/8	3/8	9/32	2-1/2	153136	81.55
1/2	1/2	3/8	3	153138	168.19
<b>Long Length</b>					
1/8	1/8	3/32	3	153140	44.63
3/16	3/16	9/64	3	153142	45.30
1/4	1/4	3/16	4	153144	81.97
3/8	3/8	9/32	4	153146	91.85
1/2	1/2	3/8	6	153148	243.29

## 4-Flute Ball Nose Long Length — Typhoon

Typhoon ball nose end mills are designed for long reach contour milling applications in hardened materials.



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Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
<b>Inch</b>					
1/8	1/8	3/4	2-1/4	104833	25.73
3/16	3/16	3/4	2-1/4	104835	24.61
1/4	1/4	1-1/8	3	104837	49.74
5/16	5/16	1-1/8	3	104839	63.43
3/8	3/8	1-1/8	3	104841	69.92
1/2	1/2	2	4	104843	107.10
5/8	5/8	2-1/4	5	104845	215.90
3/4	3/4	2-1/4	5	104847	340.91
1	1	2-1/4	5	104849	413.93

## 4-Flute Ball Nose Regular Length — Typhoon

Typhoon ball nose end mills are designed for contour milling applications in hardened materials.



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Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Code No.	Price \$
<b>Inch</b>					
1/16	1/8	3/16	1-1/2	104752	18.50
3/32	1/8	5/16	1-1/2	104751	17.66
1/8	1/8	1/2	1-1/2	104750	19.57
5/32	3/16	9/16	2	104753	25.73
3/16	3/16	5/8	2	104754	24.61
7/32	1/4	5/8	2-1/2	104755	33.06
1/4	1/4	3/4	2-1/2	104758	33.57
9/32	5/16	3/4	2-1/2	104757	43.33
5/16	5/16	13/16	2-1/2	104762	45.50
3/8	3/8	1	2-1/2	104766	53.14
7/16	7/16	1	2-3/4	104768	61.18
1/2	1/2	1	3	104770	90.63
9/16	9/16	1-1/8	3-1/2	104772	131.79
5/8	5/8	1-1/4	3-1/2	104774	144.28
11/16	3/4	1-3/8	4	104780	231.14
3/4	3/4	1-1/2	4	104778	206.91
7/8	7/8	1-1/2	4	104781	336.43
1	1	1-1/2	4	104782	353.25
<b>Metric</b>					
1	3	3	39	101870	22.74
1.5	3	5	39	101871	22.74
2	3	7	39	101872	21.42
2.5	3	8	39	101873	20.65
3	3	10	39	101874	19.08
3.5	4	12	51	101875	26.30
4	4	14	51	101876	32.32
4.5	5	14	51	101877	35.09
5	5	16	51	101878	35.09
6	6	19	64	101879	33.97
7	8	19	64	101880	44.28
8	8	21	64	101881	45.95
9	10	22	70	101882	51.72
10	10	25	70	101883	62.44
11	12	25	70	101884	62.53
12	12	25	76	101885	91.94
14	14	30	89	101886	133.76
16	16	32	89	101887	146.53
18	18	35	102	101888	210.38
20	20	38	102	101889	285.01
22	22	38	102	101890	326.65
25	25	38	102	101891	326.65

## Multi-Flute Regular Length — Typhoon

Multi-Flute Typhoon end mill design allow them to be run at higher rpm than conventional end mills as well as increase tool life without chipping.



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Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	No. of Flutes	Code No.	Price \$
<b>Inch</b>						
1/8	1/8	1/2	1-1/2	4	101050	16.59
3/16	3/16	5/8	2	4	101052	20.92
1/4	1/4	3/4	2-1/2	6	101054	28.23
5/16	5/16	13/16	2-1/2	6	101056	40.24
3/8	3/8	1	2-1/2	6	101058	47.49
7/16	7/16	1	2-3/4	6	101060	57.10
1/2	1/2	1	3	6	101062	71.03
9/16	9/16	1-1/8	3-1/2	6	101064	118.12
5/8	5/8	1-1/4	3-1/2	6	101066	131.07
3/4	3/4	1-1/2	4	6	101068	187.09
7/8	7/8	1-1/2	4	6	101070	279.49
1	1	1-1/2	4	8	101072	279.49