

5-Flute Variable Helix Carbide End Mill – Typhoon



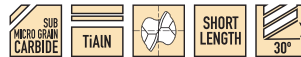
- 25% increase in feed rates over 4-flute version
- Helix changes along flutes
- Increased stability during cutting action
- Substantial increase in speed
- Small corner radius for added strength and smoother cutting action
- Modified AITIN coated for improved tool life and increase production output



Speeds & Feeds > P. A16

Cutting Dia. (in.)	Shank Dia. (in.)	Flute Length (in.)	Overall Length (in.)	Corner Radius	Code No.	Price \$
1/4	1/4	3/4	2-1/2	0.015-0.020	153100	36.74
3/8	3/8	1	2-1/2	0.015-0.020	153102	58.20
1/2	1/2	1	3	0.025-0.030	153104	99.26
5/8	5/8	1-1/4	3-1/2	0.030-0.035	153106	158.02
3/4	3/4	1-1/2	4	0.030-0.035	153108	226.61
1	1	1-1/2	4	0.030-0.035	153109	386.90

2-Flute Ball Nose Necked Design – Short Length

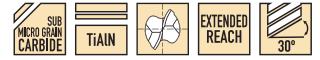


PC413

Speeds & Feeds > P. A41

Cutting Dia. (mm)	Flute Length (mm)	Neck Length (mm)	Neck Dia. (mm)	Shank Dia. (mm)	Overall Length (mm)	Code No.	Price \$
1.0	2.0	2.5	0.95	6	50	101935	81.41
1.2	1.2	3.0	1.15	6	50	101936	81.41
1.4	1.4	7.0	1.35	6	50	101937	95.01
1.5	1.5	3.8	1.45	6	50	101938	84.83
1.6	1.6	4.0	1.55	6	50	101939	95.01
1.8	1.8	4.5	1.75	6	50	101940	95.01
2.0	2.0	5.0	1.95	6	50	101941	84.83
2.5	2.5	5.0	2.40	6	50	101942	90.81
3.0	3.0	6.0	2.85	6	50	101943	90.81
3.5	3.5	6.0	3.35	6	50	101944	100.20
4.0	4.0	6.0	3.85	6	50	101945	90.81
5.0	5.0	7.5	4.85	6	50	101946	96.77
6.0	6.0	9.0	5.85	6	50	101947	102.52

2-Flute Ball Nose Necked Design – Standard/Extended Reach



PC419/PC419L

Speeds & Feeds > P. A41

Cutting Dia. (mm)	Flute Length (mm)	Neck Length (mm)	Neck Dia. (mm)	Shank Dia. (mm)	Overall Length (mm)	Code No.	Price \$
0.5	0.7	2.5	0.45	6	60	102125	102.19
0.5	0.5	2.5	0.45	6	60	102126	115.26
0.6	0.6	3.0	0.55	6	60	102127	102.19
0.6	0.6	6.0	0.55	6	60	102128	106.41
0.8	0.8	4.0	0.75	6	60	102129	104.85
0.8	0.8	8.0	0.75	6	60	102130	107.84
1.0	1.0	5.0	0.95	6	60	102131	92.80
1.0	1.0	8.0	0.95	6	60	102132	94.45
1.0	1.0	10	0.95	6	60	102133	95.89
1.0	1.0	12	0.95	6	60	102134	97.00
1.0	1.0	16	0.95	6	60	102135	99.44
1.0	1.0	20	0.95	6	60	102136	101.65
1.2	1.2	6.0	1.15	6	60	102137	93.34
1.2	1.2	12	1.15	6	60	102138	97.00
1.4	1.4	7.0	1.35	6	60	102139	93.90
1.4	1.4	12	1.35	6	60	102140	97.00
1.5	1.5	6.0	1.45	6	60	102141	93.34
1.5	1.5	7.5	1.45	6	60	102142	94.45
1.5	1.5	10	1.45	6	60	102143	95.89
1.5	1.5	12	1.45	6	60	102144	97.00
1.5	1.5	20	1.45	6	60	102145	101.65
1.6	1.6	8.0	1.55	6	60	102146	94.45
1.6	1.6	16	1.55	6	60	102147	99.44
1.8	1.8	9.0	1.75	6	60	102148	95.45
1.8	1.8	16	1.75	6	60	102149	99.44
2.0	2.0	8.0	1.95	6	60	102151	94.45
2.0	2.0	10	1.95	6	60	102152	92.91
2.0	2.0	12	1.95	6	60	102154	92.91
2.0	2.0	16	1.95	6	60	102153	93.01
2.0	2.0	20	1.95	6	60	102156	93.01
2.0	2.0	25	2.40	6	60	102157	93.14
2.5	2.5	12.5	2.40	6	60	102158	92.91
2.5	2.5	16	2.40	6	60	102159	93.01
2.5	2.5	20	2.40	6	60	102161	93.01
3.0	3.0	10	2.85	6	70	102162	101.32
3.0	3.0	12	2.85	6	70	102164	102.52
3.0	3.0	15	2.85	6	70	102167	104.29
3.0	3.0	20	2.85	6	70	102163	107.84
3.0	3.0	25	2.85	6	70	102166	110.83
3.0	3.0	30	2.85	6	70	102168	113.93
3.0	3.0	35	2.85	6	70	102169	113.93
3.5	3.5	17.5	3.35	6	70	102171	105.52
4.0	4.0	8.0	3.85	6	70	102172	99.98
4.0	4.0	12	3.85	6	70	102173	102.52
4.0	4.0	16	3.85	6	70	102174	104.96
4.0	4.0	20	3.85	6	70	102177	107.84
4.0	4.0	25	3.85	6	70	102176	110.83
4.0	4.0	30	3.85	6	70	102178	113.93
5.0	5.0	25	4.85	6	80	102179	111.16
6.0	6.0	30	5.85	6	90	102181	117.91

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Tolerances - Inch

Size	Diameter	Shank Diameter
3/32 thru 1"	+0.000"-0.002"	+0.0000"-0.0005"

Tolerances - Metric

Size	Diameter	Shank Diameter
1mm-25mm	+0.000mm-0.051mm	+0.000mm-0.013mm

Steel

Stainless Steel

Cast Iron/Hardened

Aluminum