

## BALLNOSE - EXTRA LENGTH - GENERAL PURPOSE

CNC Produced - Industrial Grade



Premium submicron grain carbide  
 Center cutting  
 For steel & high temperature alloys  
 35° Helix – rhs/rhc  
 435,000 psi high transverse rupture strength  
 Available for immediate shipment

Flute Diameter	Flute Length	Shank Diameter	Overall Length	Part Number	Price	Price TiN	Price TiALN
1/8	3/4	1/8	3	12110	\$12.58	\$15.21	\$15.40
3/16	1	3/16	3	12130	\$13.87	\$16.23	\$16.69
3/16	1	3/16	4	12150	\$14.94	\$18.28	\$19.21
1/4	1	1/4	4	12170	\$16.90	\$20.23	\$21.14
1/4	1-1/2	1/4	4	12180	\$17.40	\$18.62	\$21.64
1/4	1-1/2	1/4	6	12190	\$21.97	\$27.86	\$29.44
5/16	1	5/16	4	12210	\$22.14	\$26.69	\$27.91
5/16	1-5/8	5/16	4	12220	\$23.47	\$28.02	\$29.24
3/8	1	3/8	4	12250	\$23.47	\$28.02	\$29.42
3/8	2	3/8	4	12260	\$24.50	\$29.05	\$30.27
3/8	1-1/2	3/8	6	12270	\$33.62	\$41.48	\$43.54
3/8	3	3/8	6	12280	\$34.02	\$41.88	\$43.94
1/2	1	1/2	4	12330	\$33.30	\$37.85	\$39.07
1/2	2	1/2	4	12340	\$34.45	\$39.02	\$40.22
1/2	1-1/2	1/2	6	12350	\$49.95	\$57.81	\$59.92
1/2	3	1/2	6	12360	\$51.56	\$59.42	\$61.48
5/8	2	5/8	6	12390	\$76.24	\$87.37	\$88.71
5/8	3	5/8	6	12400	\$82.45	\$93.58	\$94.92
3/4	2	3/4	6	12410	\$110.42	\$121.55	\$125.34
3/4	3	3/4	6	12420	\$116.17	\$127.30	\$131.09
1	2	1	6	12430	\$170.35	\$188.15	\$192.97
1	3	1	6	12440	\$186.17	\$203.97	\$208.79

To order 2 or 4 flute, add -02 for 2 flute, -04 for 4 flute to the end of the part #

**Tolerances**  
 Ød<sub>1</sub> +.000\-.002  
 Ød<sub>2</sub> +.0001\-.005

BALLNOSE - EXTRA LENGTH CARBIDE ENDMILLS - GENERAL PURPOSE

**Certified Tool & Grinding**

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