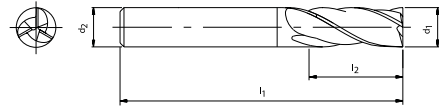


Solid Carbide End Mill
Extra Long 3 Flute 30° Helix
ZrN Coated



Design Specs

- Standard performance carbide end mill
- ZrN Coated - Other upon request
- Slotting/Side/Face/Profile Milling
- Special Steps/Lengths upon request
- Greater chip clearance

Application:

Outstanding performance in Aluminum, Brass alloys and Non-Ferrous Metals

d ₁ Diameter	d ₂ Shank	l ₂ LOC	l ₁ OAL	Square EDP#	Uncoated Price	Square EDP#	Coated Price	Ball EDP#	Uncoated Price	Square EDP#	Coated Price
3/16	3/16	1-1/4	3"	13000	\$15.05	13000C	\$18.08	13002	\$18.99	13002C	\$22.02
3/16	3/16	1"	4"	13020	\$17.98	13020C	\$21.72	13022	\$20.81	13022C	\$24.54
1/4	1/4	1-1/8	3"	13040	\$19.36	13040C	\$23.59	13042	\$22.78	13042C	\$26.88
1/4	1/4	1"	4"	13060	\$20.09	13060C	\$25.34	13062	\$24.10	13062C	\$29.46
1/4	1/4	1-1/2	4"	13080	\$20.50	13080C	\$25.85	13082	\$24.51	13082C	\$29.77
1/4	1/4	1-1/2	6"	13100	\$27.60	13100C	\$34.61	13102	\$31.00	13102C	\$37.90
5/16	5/16	1-1/8	3"	13120	\$26.27	13120C	\$31.42	13122	\$30.90	13122C	\$35.95
5/16	5/16	1-5/8	4"	13140	\$29.36	13140C	\$35.95	13142	\$35.33	13142C	\$41.92
5/16	5/16	1-1/2	6"	13160	\$43.57	13160C	\$52.63	13162	\$51.19	13162C	\$60.26
3/8	3/8	1-1/8	3"	13180	\$29.56	13180C	\$35.02	13182	\$34.81	13182C	\$40.27
3/8	3/8	1"	4"	13200	\$32.14	13200C	\$39.24	13202	\$39.24	13202C	\$46.35
3/8	3/8	2"	4"	13220	\$32.55	13220C	\$39.66	13222	\$39.76	13222C	\$46.87
3/8	3/8	1-1/2	6"	13240	\$45.53	13240C	\$56.55	13242	\$51.29	13242C	\$62.21
3/8	3/8	3"	6"	13260	\$47.28	13260C	\$58.20	13262	\$53.05	13262C	\$63.86
7/16	7/16	2"	4"	13280	\$47.69	13280C	\$56.03	13282	\$49.75	13282C	\$65.30
7/16	7/16	1-1/2	6"	13300	\$59.43	13300C	\$72.00	13302	\$68.29	13302C	\$80.86
7/16	7/16	3"	6"	13320	\$61.70	13320C	\$74.26	13322	\$71.79	13322C	\$84.36
1/2	1/2	1"	4"	13340	\$46.45	13340C	\$56.34	13342	\$53.66	13342C	\$63.55
1/2	1/2	1-1/2	4"	13360	\$47.28	13360C	\$57.17	13362	\$56.14	13362C	\$65.92
1/2	1/2	2"	4"	13380	\$48.10	13380C	\$57.99	13382	\$57.47	13382C	\$67.26
1/2	1/2	1-1/2	6"	13400	\$67.26	13400C	\$80.65	13402	\$75.71	13402C	\$89.92
1/2	1/2	3"	6"	13420	\$68.50	13420C	\$81.99	13422	\$83.53	13422C	\$97.75
9/16	9/16	3"	6"	13440	\$90.13	13440C	\$105.99	13442	\$105.99	13442C	\$121.75
5/8	5/8	2-1/2	5"	13460	\$95.38	13460C	\$112.99	13462	\$110.93	13462C	\$128.65
5/8	5/8	1-1/2	6"	13480	\$96.20	13480C	\$113.82	13482	\$111.76	13482C	\$129.37
5/8	5/8	3"	6"	13500	\$97.75	13500C	\$115.36	13502	\$113.30	13502C	\$131.02
3/4	3/4	2-1/2	5"	13520	\$144.20	13520C	\$164.80	13522	\$171.80	13522C	\$192.40
3/4	3/4	1-1/2	6"	13540	\$152.23	13540C	\$172.73	13542	\$179.84	13542C	\$200.44
3/4	3/4	3"	6"	13560	\$155.74	13560C	\$176.34	13562	\$183.34	13562C	\$203.94
1"	1"	2-1/2	5"	13580	\$248.23	13580C	\$275.22	13582	\$298.70	13582C	\$325.58
1"	1"	2"	6"	13600	\$256.26	13600C	\$283.15	13602	\$311.78	13602C	\$338.77
1"	1"	3"	6"	13620	\$260.28	13620C	\$287.27	13622	\$318.06	13622C	\$344.95
1"	1"	4"	6"	13640	\$279.03	13640C	\$305.91	13642	\$342.27	13642C	\$369.26
1"	1"	4"	7"	13660	\$351.95	13660C	\$388.31	13662	\$408.40	13662C	\$444.75
1"	1"	3"	8"	13680	\$408.81	13680C	\$444.96	13682	\$458.35	13682C	\$494.81

*Non-standard requirements are available upon request including length, chamfer and radius with different tolerances

Cutting Diameter +.000/-0.002

Shank Diameter -.0001/-0.0004

Length of Cut +.025/+0.50

Overall Length ± .050

