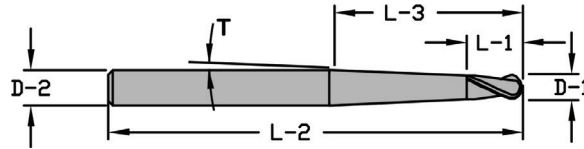




Alro Industrial Supply

Clearance Cutters



Manufactured in the USA

General Purpose Clearance Cutters - Solid Carbide - 2 flute Ball Nose - 0.002" Tol. - Uncoated

Cutting Diameter (D-1)	Cutting Length (L-1)	Shank Diameter (D-2)	Overall Length (L-2)	Reach Length (L-3)	Angle (T)	Alro EDP #	Pricing
0.030"	0.030"	0.250"	3.00"	1.28"	5.0°	49111110	\$41.67 ea
0.031"	0.031"	0.250"	3.00"	1.28"	5.0°	49111111	\$41.67 ea
0.039"	0.039"	0.250"	3.00"	1.23"	5.0°	49111112	\$36.67 ea
0.040"	0.040"	0.250"	3.00"	1.23"	5.0°	49111113	\$36.67 ea
0.060"	0.060"	0.250"	3.00"	1.14"	5.0°	49111114	\$29.33 ea
0.062"	0.062"	0.250"	3.00"	1.14"	5.0°	49111115	\$29.33 ea
0.080"	0.080"	0.250"	3.00"	1.05"	5.0°	49111116	\$25.33 ea
0.090"	0.090"	0.250"	3.00"	1.00"	5.0°	49111117	\$25.33 ea
0.093"	0.093"	0.250"	3.00"	0.99"	5.0°	49111118	\$25.33 ea
0.100"	0.100"	0.250"	3.00"	0.95"	5.0°	49111119	\$25.33 ea
0.125"	0.125"	0.250"	3.00"	0.83"	5.0°	49111121	\$25.33 ea
0.187"	0.187"	0.250"	3.00"	0.54"	5.0°	49111122	\$25.33 ea
0.250"	0.250"	0.250"	3.00"	n/a	n/a	49111123	\$25.33 ea

Pricing expires December 31, 2019

High Performance Clearance Cutters - Solid Carbide - 2 flute Ball Nose - 0.0009" Tol. - Coated Tools

Cutting Diameter (D-1)	Cutting Length (L-1)	Shank Diameter (D-2)	Overall Length (L-2)	Reach Length (L-3)	Angle (T)	Alro EDP #	Pricing
0.030"	0.030"	0.250"	3.00"	1.28"	5.0°	49101124	\$54.63 ea
0.031"	0.031"	0.250"	3.00"	1.28"	5.0°	49101125	\$54.63 ea
0.039"	0.039"	0.250"	3.00"	1.23"	5.0°	49101126	\$52.97 ea
0.040"	0.040"	0.250"	3.00"	1.23"	5.0°	49101127	\$52.97 ea
0.060"	0.060"	0.250"	3.00"	1.14"	5.0°	49101128	\$44.63 ea
0.062"	0.062"	0.250"	3.00"	1.14"	5.0°	49101129	\$44.63 ea
0.080"	0.080"	0.250"	3.00"	1.05"	5.0°	49101130	\$41.30 ea
0.090"	0.090"	0.250"	3.00"	1.00"	5.0°	49101131	\$41.30 ea
0.093"	0.093"	0.250"	3.00"	0.99"	5.0°	49101132	\$41.30 ea
0.100"	0.100"	0.250"	3.00"	0.95"	5.0°	49101133	\$41.30 ea
0.125"	0.125"	0.250"	3.00"	0.83"	5.0°	49101134	\$41.30 ea
0.187"	0.187"	0.250"	3.00"	0.54"	5.0°	49101135	\$41.30 ea
0.250"	0.250"	0.250"	3.00"	n/a	n/a	49101136	\$41.30 ea

Pricing expires December 31, 2019



CHICAGO

4501 James Place
Melrose Park, IL 60160
Ph: (800) 877-2576
Ph: (517) 787-5500
Fx: (517) 787-6016

CLEARWATER

12490 49th Street N.
Clearwater, FL 33762
Ph: (800) 771-2576
Ph: (727) 572-4344
Fx: (727) 572-6812

GRAND RAPIDS

4324 Airlane SE
Grand Rapids, MI 49512
Ph: (888) 424-2576
Ph: (616) 656-2800
Fx: (616) 656-2830

JACKSON

3100 E. High Street
Jackson, MI 49204
Ph: (800) 877-2576
Ph: (517) 787-5500
Fx: (517) 787-6016

KERNERSVILLE

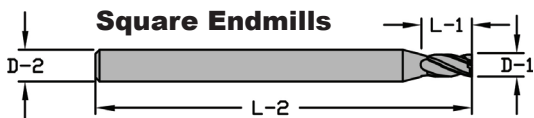
1187 Shields Rd., Ste 6
Kernersville, NC 27284
Ph: (800) 348-9901
Ph: (336) 993-1601
Fx: (336) 993-6707

alroindustrial.com



Alro Industrial Supply

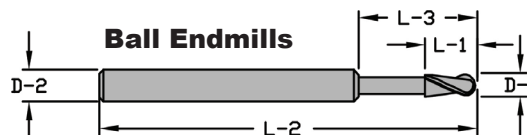
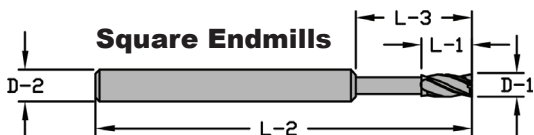
Miniature Mold Endmills



Square Endmills & Ball Endmills - Standard Length - Uncoated

Cutting Dia. (D-1)	Cutting Length (L-1)	Shank Dia. (D-2)	Overall Length (L-2)	Number of Flutes	Square Endmill #	Square Pricing	Ball Endmill #	Ball Pricing
0.0312"	0.118" / 3mm	0.125"	2.00"	2 Flute	49106001	\$12.72 ea	49106014	\$15.40 ea
0.039" / 1mm	0.118" / 3mm	0.125"	2.00"	2 Flute	49106002	\$12.72 ea	49106015	\$15.40 ea
0.0625"	0.196" / 5mm	0.125"	2.00"	2 Flute	49106003	\$10.15 ea	49106016	\$11.90 ea
0.0781"	0.275" / 7mm	0.125"	2.00"	2 Flute	49106005	\$10.73 ea	49106017	\$13.42 ea
0.0937"	0.275" / 7mm	0.125"	2.00"	2 Flute	49106006	\$10.15 ea	49106018	\$11.43 ea
0.125"	0.275" / 7mm	0.125"	2.00"	4 Flute	49106007	\$10.15 ea	49106019	\$11.78 ea
0.187"	0.312"	0.187"	2.00"	4 Flute	49106009	\$13.30 ea	49106021	\$15.98 ea
0.187"	1.000"	0.187"	4.00"	4 Flute	49106010	\$29.75 ea	49106022	\$30.92 ea
0.250"	0.437"	0.250"	2.50"	4 Flute	49106011	\$17.62 ea	49106023	\$19.95 ea
0.250"	1.000"	0.250"	4.00"	4 Flute	49106012	\$29.75 ea	49106024	\$38.03 ea
0.250"	1.000"	0.250"	6.00"	4 Flute	49106013	\$42.00 ea	49106025	\$49.00 ea

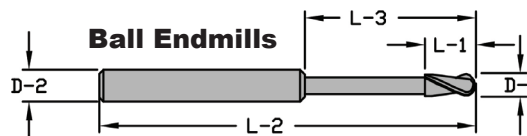
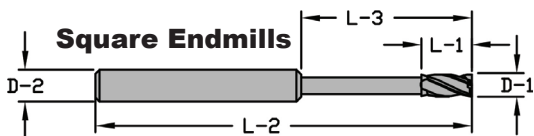
Pricing expires December 31, 2019



Square Endmills & Ball Endmills - Long Reach - Uncoated

Cutting Dia. (D-1)	Cutting Length (L-1)	Shank Dia. (D-2)	Overall Length (L-2)	Number of Flutes	Reach (L-3)	Square Endmill #	Square Pricing	Ball Endmill #	Ball Pricing
0.0312"	0.118" / 3mm	0.125"	2.00"	2 Flute	0.393" / 10mm	49100626	\$17.73 ea	49100631	\$20.42 ea
0.039" / 1mm	0.118" / 3mm	0.125"	2.00"	2 Flute	0.393" / 10mm	49100627	\$17.73 ea	49100632	\$20.42 ea
0.0625"	0.196" / 5mm	0.125"	2.00"	2 Flute	0.590" / 15mm	49100628	\$14.93 ea	49100633	\$16.92 ea
0.0781"	0.275" / 7mm	0.125"	2.00"	2 Flute	0.590" / 15mm	49100629	\$15.75 ea	49100634	\$18.43 ea
0.0937"	0.275" / 7mm	0.125"	2.00"	2 Flute	0.590" / 15mm	49100630	\$15.05 ea	49100635	\$16.45 ea

Pricing expires December 31, 2019



Square Endmills & Ball Endmills - Extra Long Reach - Uncoated

Cutting Dia. (D-1)	Cutting Length (L-1)	Shank Dia. (D-2)	Overall Length (L-2)	Number of Flutes	Reach (L-3)	Square Endmill #	Square Pricing	Ball Endmill #	Ball Pricing
0.0312"	0.118" / 3mm	0.125"	2.00"	2 Flute	0.590" / 15mm	49100701	\$17.73 ea	49100801	\$20.42 ea
0.039" / 1mm	0.118" / 3mm	0.125"	2.00"	2 Flute	0.590" / 15mm	49100702	\$17.73 ea	49100803	\$20.42 ea
0.0625"	0.196" / 5mm	0.125"	2.00"	2 Flute	0.984" / 25mm	49100703	\$14.93 ea	49100804	\$16.92 ea
0.0781"	0.275" / 7mm	0.125"	2.00"	2 Flute	0.984" / 25mm	49100704	\$17.38 ea	49100805	\$20.07 ea
0.0937"	0.275" / 7mm	0.125"	2.00"	2 Flute	0.984" / 25mm	49100705	\$16.80 ea	49100806	\$18.08 ea

Pricing expires December 31, 2019