

AEROSPACE AND DEFENSE APPROVED
ANSI & NAS 986 SPECIFICATION



HIGH PERFORMANCE **CUTTING** **TOOLS**

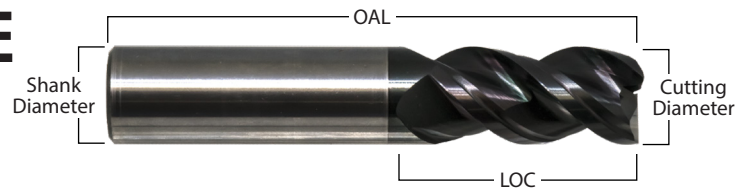


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VERSION 421

360 SERIES

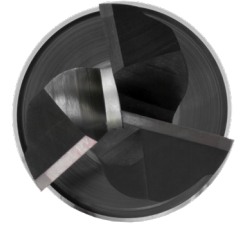
3 FLUTE VARIABLE

- Exxtral Carbon Coated
- Radii available upon request
- Flats added upon request



Fractional

Cutting Diameter	Shank Diameter	LOC	Overall	Part Number	Square Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	2	360041	\$22.70	.015 .030 .060	\$36.17
1/4	1/4	3/4	2-1/2	360042	\$25.19	.015 .030 .060	\$38.67
1/4	1/4	1	3	360043	\$33.13	.015 .030 .060	\$46.60
1/4	1/4	1-1/4	4	360044	\$44.04	.015 .030 .060	\$57.52
5/16	5/16	1/2	2	360051	\$30.97	.015 .030 .060	\$44.45
5/16	5/16	7/8	2-1/2	360052	\$34.40	.015 .030 .060	\$47.87
5/16	5/16	1	3	360053	\$44.50	.015 .030 .060	\$57.97
5/16	5/16	1-1/4	4	360054	\$51.92	.015 .030 .060	\$65.39
3/8	3/8	1/2	2	360061	\$34.64	.015 .030 .060 .090 .125	\$48.11
3/8	3/8	1	2-1/2	360062	\$38.51	.015 .030 .060 .090 .125	\$51.99
3/8	3/8	1	3	360063	\$43.50	.015 .030 .060 .090 .125	\$56.97
3/8	3/8	1-1/2	4	360064	\$47.80	.015 .030 .060 .090 .125	\$61.28
1/2	1/2	5/8	2-1/2	360081	\$50.87	.015 .030 .060 .090 .125	\$64.34
1/2	1/2	1-1/4	3	360082	\$56.51	.015 .030 .060 .090 .125	\$69.99
1/2	1/2	1-5/8	4	360083	\$68.13	.015 .030 .060 .090 .125	\$81.60
1/2	1/2	2	4	360084	\$79.74	.015 .030 .060 .090 .125	\$93.22
1/2	1/2	2-1/2	5	360085	\$112.25	.015 .030 .060 .090 .125	\$125.72
1/2	1/2	3-1/8	6	360086	\$145.16	.015 .030 .060 .090 .125	\$158.64
5/8	5/8	3/4	3	360101	\$99.64	.015 .030 .060 .090 .125	\$113.11
5/8	5/8	1.625	3-1/2	360102	\$110.72	.015 .030 .060 .090 .125	\$124.19
5/8	5/8	2-1/8	4	360103	\$127.77	.015 .030 .060 .090 .125	\$141.24
5/8	5/8	2-1/4	5	360104	\$144.84	.015 .030 .060 .090 .125	\$158.32
5/8	5/8	3	6	360105	\$170.39	.015 .030 .060 .090 .125	\$183.87
3/4	3/4	1	3	360121	\$137.24	.015 .030 .060 .090 .125 .188 .250	\$150.71
3/4	3/4	1-5/8	4	360122	\$142.31	.015 .030 .060 .090 .125 .188 .250	\$155.79
3/4	3/4	2-1/4	5	360123	\$185.33	.015 .030 .060 .090 .125 .188 .250	\$198.81
3/4	3/4	3-1/4	6	360124	\$213.77	.015 .030 .060 .090 .125 .188 .250	\$227.24
3/4	3/4	4-1/8	7	360125	\$267.20	.015 .030 .060 .090 .125 .188 .250	\$280.67
1	1	1-1/2	4	360161	\$230.26	.015 .030 .060 .090 .125 .188 .250	\$243.73
1	1	2-1/4	5	360162	\$232.60	.015 .030 .060 .090 .125 .188 .250	\$246.08
1	1	2-5/8	6	360163	\$268.50	.015 .030 .060 .090 .125 .188 .250	\$281.97
1	1	3-1/4	6	360164	\$295.40	.015 .030 .060 .090 .125 .188 .250	\$308.87
1	1	4-1/8	7	360165	\$369.23	.015 .030 .060 .090 .125 .188 .250	\$382.70



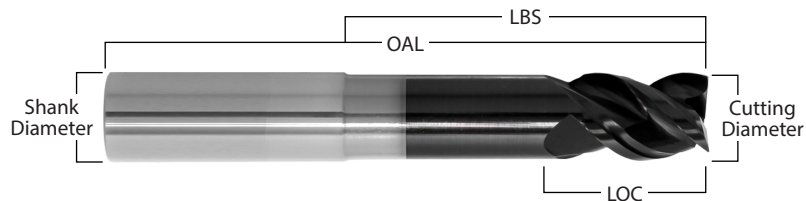
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MOBILE INVENTORY
Same Day Delivery
(most items)

360 SERIES

3 FLUTE VARIABLE



Tolerance

Cutting Diameter (D1)	Shank Diameter (D2)	Runout .0005" max (shank to cutting diameter) Back Taper .0005" max Ball Nose Radius +.000/- .001"
1/8"-1/4": +.000"/-.0012"	1/8"-1/4": +.0001"/-.0003"	
1/4"-1.2": +.000"/-.0016"	1/4"-1.2": +.0001"/-.0003"	
1/2"-1": +.000"/-.0020"	1/2"-1": +.0001"/-.0004"	

Extended Neck

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Part Number	Square Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	1-1/4	3	N360040	38.97	.015 .030 .060	\$52.45
1/4	1/4	1/2	2-1/8	4	N360041	46.64	.015 .030 .060	\$60.11
1/4	1/4	1/2	3-1/8	5	N360042	63.37	.015 .030 .060	\$76.85
1/4	1/4	1/2	4-1/8	6	N360043	79.21	.015 .030 .060	\$92.68
5/16	5/16	9/16	2-1/8	4	N360051	61.09	.015 .030 .060	\$74.56
5/16	5/16	9/16	4-1/8	6	N360052	76.27	.015 .030 .060	\$89.75
3/8	3/8	3/4	1-1/4	3	N360060	52.11	.015 .030 .060 .090 .125	\$65.58
3/8	3/8	3/4	2-1/8	4	N360061	58.70	.015 .030 .060 .090 .125	\$72.18
3/8	3/8	3/4	3-1/8	5	N360062	75.85	.015 .030 .060 .090 .125	\$89.32
3/8	3/8	3/4	4-1/8	6	N360063	90.19	.015 .030 .060 .090 .125	\$103.66
1/2	1/2	7/8	1-3/8	3	N360080	67.47	.015 .030 .060 .090 .125	\$80.94
1/2	1/2	7/8	2-1/8	4	N360081	80.64	.015 .030 .060 .090 .125	\$94.11
1/2	1/2	7/8	3-1/8	5	N360082	117.87	.015 .030 .060 .090 .125	\$131.34
1/2	1/2	7/8	4-1/8	6	N360083	143.53	.015 .030 .060 .090 .125	\$157.00
1/2	1/2	7/8	5-1/8	7	N360084	174.13	.015 .030 .060 .090 .125	\$187.61
1/2	1/2	7/8	6-1/8	8	N360085	197.89	.015 .030 .060 .090 .125	\$211.36
5/8	5/8	1	2	4	N360100	135.44	.015 .030 .060 .090 .125	\$148.91
5/8	5/8	1	3	5	N360101	143.55	.015 .030 .060 .090 .125	\$157.02
5/8	5/8	1	4	6	N360102	185.13	.015 .030 .060 .090 .125	\$198.60
5/8	5/8	1	6	8	N360103	247.64	.015 .030 .060 .090 .125	\$261.11
3/4	3/4	1	2	4	N360120	155.44	.015 .030 .060 .090 .125 .188 .250	\$168.91
3/4	3/4	1-1/4	3	5	N360121	175.71	.015 .030 .060 .090 .125 .188 .250	\$189.18
3/4	3/4	1-1/4	4	6	N360122	198.13	.015 .030 .060 .090 .125 .188 .250	\$211.60
3/4	3/4	1-1/4	5	7	N360123	278.83	.015 .030 .060 .090 .125 .188 .250	\$292.31
3/4	3/4	1-1/4	6	8	N360124	309.81	.015 .030 .060 .090 .125 .188 .250	\$323.28
1	1	1-1/4	2	4	N360160	257.93	.015 .030 .060 .090 .125 .188 .250	\$271.41
1	1	1-1/2	3	5	N360161	264.69	.015 .030 .060 .090 .125 .188 .250	\$278.16
1	1	1-1/2	4	6	N360162	280.62	.015 .030 .060 .090 .125 .188 .250	\$294.10
1	1	1-1/2	5	7	N360163	369.22	.015 .030 .060 .090 .125 .188 .250	\$382.69
1	1	1-1/2	6	8	N360164	477.10	.015 .030 .060 .090 .125 .188 .250	\$490.58



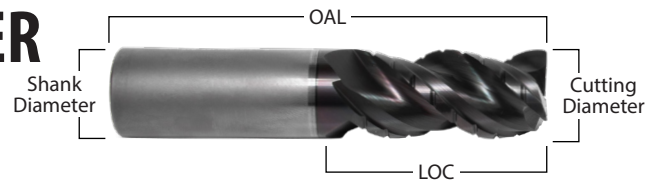
NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = **337052-.015**)

363 SERIES

3 FLUTE CHIP BREAKER

- Exxtral Carbon Coated
- Radii available upon request
- Flats added upon request



Fractional

Cutting Diameter	Shank Diameter	LOC	Overall	Standard Radius	Part Number	Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	2	.030	363041	\$25.22	.060	\$41.60
1/4	1/4	3/4	2-1/2	.030	363042	\$27.99	.060	\$44.47
1/4	1/4	1	3	.030	363043	\$36.81	.060	\$53.59
1/4	1/4	1-1/4	4	.030	363044	\$48.94	.060	\$66.14
5/16	5/16	1/2	2	.030	363051	\$34.42	.060	\$51.12
5/16	5/16	7/8	2-1/2	.030	363052	\$38.22	.060	\$55.05
5/16	5/16	1	3	.030	363053	\$49.45	.060	\$66.67
5/16	5/16	1-1/4	4	.030	363054	\$57.69	.060	\$75.20
3/8	3/8	1/2	2	.030	363061	\$38.49	.060 .125	\$55.33
3/8	3/8	1	2-1/2	.030	363062	\$42.79	.060 .125	\$59.78
3/8	3/8	1	3	.030	363063	\$48.33	.060 .125	\$65.52
3/8	3/8	1-1/2	4	.030	363064	\$53.12	.060 .125	\$70.47
1/2	1/2	5/8	2-1/2	.030	363081	\$56.52	.060 .125	\$73.99
1/2	1/2	1-1/4	3	.030	363082	\$62.79	.060 .125	\$80.48
1/2	1/2	1-5/8	4	.030	363083	\$75.70	.060 .125	\$93.84
1/2	1/2	2	4	.030	363084	\$88.60	.060 .125	\$107.20
1/2	1/2	2-1/2	5	.030	363085	\$124.72	.060 .125	\$144.58
1/2	1/2	3-1/8	6	.030	363086	\$161.29	.060 .125	\$182.43
5/8	5/8	3/4	3	.030	363101	\$106.56	.060 .125	\$124.42
5/8	5/8	1-1/4	3-1/2	.030	363102	\$118.41	.060 .125	\$136.61
5/8	5/8	2-1/8	4	.030	363103	\$136.65	.060 .125	\$155.37
5/8	5/8	2-1/4	5	.030	363104	\$154.91	.060 .125	\$174.15
5/8	5/8	3	6	.030	363105	\$182.24	.060 .125	\$202.25
3/4	3/4	1	3	.060	363121	\$146.78	.125	\$165.78
3/4	3/4	1-5/8	4	.060	363122	\$152.21	.125	\$171.36
3/4	3/4	2-1/4	5	.060	363123	\$198.22	.125	\$218.69
3/4	3/4	3-1/4	6	.060	363124	\$228.63	.125	\$249.96
3/4	3/4	4-1/8	7	.060	363125	\$264.89	.125	\$278.37
1	1	1-1/2	4	.060	363161	\$246.27	.125	\$268.11
1	1	2-1/4	5	.060	363162	\$248.77	.125	\$270.69
1	1	2-5/8	6	.060	363163	\$287.17	.125	\$310.17
1	1	3-1/4	6	.060	363164	\$315.93	.125	\$339.76
1	1	4-1/8	7	.060	363165	\$394.90	.125	\$420.97



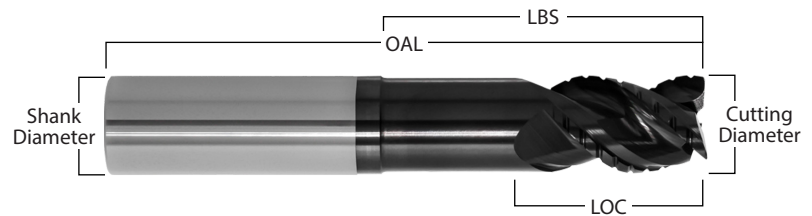
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MOBILE INVENTORY
Same Day Delivery
(most items)

363 SERIES

3 FLUTE CHIP BREAKER



Tolerance

Cutting Diameter (D1)	Shank Diameter (D2)	Runout .0005" max (shank to cutting diameter) Back Taper .0005" max Ball Nose Radius +.000/-0.001"
1/8"-1/4": +.000"/-0.0012"	1/8"-1/4": +.0001"/-0.0003"	
1/4"-1.2": +.000"/-0.0016"	1/4"-1.2": +.0001"/-0.0003"	
1/2"-1": +.000"/-0.0020"	1/2"-1": +.0001"/-0.0004"	

Extended Neck

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Standard Radius	Part Number	Square Price	Radius	Radius/Ball Price
1/4	1/4	1/2	1-1/4	3	.030	N363040	\$43.30	.060	\$60.31
1/4	1/4	1/2	2-1/8	4	.030	N363041	\$51.82	.060	\$69.13
1/4	1/4	1/2	3-1/8	5	.030	N363042	\$70.42	.060	\$88.38
1/4	1/4	1/2	4-1/8	6	.030	N363043	\$88.01	.060	\$106.58
5/16	5/16	9/16	2-1/8	4	.030	N363051	\$67.87	.060	\$85.74
5/16	5/16	9/16	4-1/8	6	.030	N363052	\$84.75	.060	\$103.21
3/8	3/8	3/4	1-1/4	3	.030	N363060	\$57.90	.060 .125	\$75.42
3/8	3/8	3/4	2-1/8	4	.030	N363061	\$65.23	.060 .125	\$83.00
3/8	3/8	3/4	3-1/8	5	.030	N363062	\$84.28	.060 .125	\$102.72
3/8	3/8	3/4	4-1/8	6	.030	N363063	\$100.21	.060 .125	\$119.21
1/2	1/2	7/8	1-3/8	3	.030	N363080	\$74.97	.060 .125	\$93.08
1/2	1/2	7/8	2-1/8	4	.030	N363081	\$89.60	.060 .125	\$108.23
1/2	1/2	7/8	3-1/8	5	.030	N363082	\$130.97	.060 .125	\$151.04
1/2	1/2	7/8	4-1/8	6	.030	N363083	\$159.48	.060 .125	\$180.55
1/2	1/2	7/8	5-1/8	7	.030	N363084	\$193.48	.060 .125	\$215.75
1/2	1/2	7/8	6-1/8	8	.030	N363085	\$219.88	.060 .125	\$243.07
5/8	5/8	1	2	4	.030	N363100	\$144.86	.060 .125	\$163.81
5/8	5/8	1	3	5	.030	N363101	\$153.53	.060 .125	\$172.72
5/8	5/8	1	4	6	.030	N363102	\$198.00	.060 .125	\$218.46
5/8	5/8	1	6	8	.030	N363103	\$264.85	.060 .125	\$287.22
3/4	3/4	1	2	4	.060	N363120	\$166.24	.090 .125	\$185.80
3/4	3/4	1-1/4	3	5	.060	N363121	\$187.92	.090 .125	\$208.10
3/4	3/4	1-1/4	4	6	.060	N363122	\$211.90	.090 .125	\$232.76
3/4	3/4	1-1/4	5	7	.060	N363123	\$251.65	.090 .125	\$278.37
3/4	3/4	1-1/4	6	8	.060	N363124	\$279.60	.090 .125	\$307.79
1	1	1-1/4	2	4	.060	N363160	\$275.87	.090 .125	\$298.55
1	1	1-1/2	3	5	.060	N363161	\$283.09	.090 .125	\$305.98
1	1	1-1/2	4	6	.060	N363162	\$300.13	.090 .125	\$323.51
1	1	1-1/2	5	7	.060	N363163	\$394.88	.090 .125	\$420.96
1	1	1-1/2	6	8	.060	N363164	\$510.27	.090 .125	\$539.63



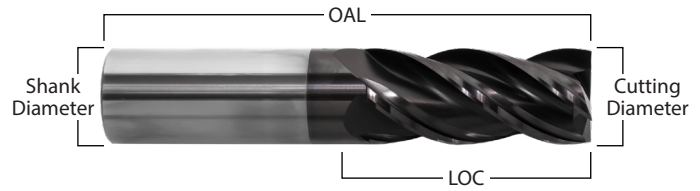
NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = **337052-.015**)

451 SERIES

4 FLUTE VARIABLE

- Varianta Supral Coated
- Radii available upon request
- Flats added upon request



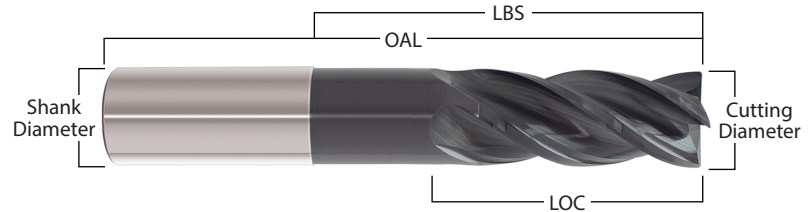
Fractional

Cutting Diameter	Shank Diameter	LOC	Overall	Part Number	Square Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	2	451041	\$20.43	.015 .030 .060	\$33.90
1/4	1/4	3/4	2-1/2	451042	\$22.67	.015 .030 .060	\$36.15
1/4	1/4	1	3	451043	\$29.81	.015 .030 .060	\$43.29
1/4	1/4	1-1/4	4	451044	\$35.68	.015 .030 .060	\$49.16
1/4	1/4	1-3/4	4	451045	\$39.64	.015 .030 .060	\$53.11
5/16	5/16	1/2	2	451051	\$27.88	.015 .030 .060	\$41.35
5/16	5/16	7/8	2-1/2	451052	\$30.96	.015 .030 .060	\$44.43
5/16	5/16	1	3	451053	\$40.05	.015 .030 .060	\$53.52
5/16	5/16	1-1/4	4	451054	\$46.73	.015 .030 .060	\$60.20
5/16	5/16	1-5/8	4	451055	\$54.98	.015 .030 .060	\$68.45
3/8	3/8	1/2	2	451061	\$31.18	.015 .030 .060 .090 .125	\$44.65
3/8	3/8	1	2-1/2	451062	\$34.66	.015 .030 .060 .090 .125	\$48.13
3/8	3/8	1	3	451063	\$39.15	.015 .030 .060 .090 .125	\$52.62
3/8	3/8	1-1/2	4	451064	\$43.02	.015 .030 .060 .090 .125	\$56.50
3/8	3/8	2-1/2	5	451065	\$51.40	.015 .030 .060 .090 .125	\$64.88
1/2	1/2	5/8	2-1/2	451081	\$45.78	.015 .030 .060 .090 .125	\$59.25
1/2	1/2	1	3	451082	\$50.86	.015 .030 .060 .090 .125	\$64.33
1/2	1/2	1-1/4	3	451083	\$50.86	.015 .030 .060 .090 .125	\$64.34
1/2	1/2	1-1/2	4	451084	\$71.77	.015 .030 .060 .090 .125	\$85.24
1/2	1/2	2	4	451085	\$71.76	.015 .030 .060 .090 .125	\$85.24
1/2	1/2	2-1/2	5	451086	\$101.02	.015 .030 .060 .090 .125	\$114.50
1/2	1/2	3	6	451087	\$130.65	.015 .030 .060 .090 .125	\$144.12
5/8	5/8	3/4	3	451101	\$105.18	.015 .030 .060 .090 .125	\$118.66
5/8	5/8	1-1/4	3-1/2	451102	\$121.38	.015 .030 .060 .090 .125	\$134.86
5/8	5/8	1-3/4	4	451103	\$137.60	.015 .030 .060 .090 .125	\$151.07
5/8	5/8	2-1/4	5	451104	\$152.88	.015 .030 .060 .090 .125	\$166.35
5/8	5/8	3	6	451105	\$179.86	.015 .030 .060 .090 .125	\$193.33
3/4	3/4	7/8	3	451121	\$130.37	.015 .030 .060 .090 .125 .188 .250	\$143.85
3/4	3/4	1-1/2	4	451122	\$135.20	.015 .030 .060 .090 .125 .188 .250	\$148.67
3/4	3/4	1-5/8	4	451123	\$135.19	.015 .030 .060 .090 .125 .188 .250	\$148.67
3/4	3/4	2-1/4	5	451124	\$176.07	.015 .030 .060 .090 .125 .188 .250	\$189.54
3/4	3/4	3	6	451125	\$203.08	.015 .030 .060 .090 .125 .188 .250	\$216.55
3/4	3/4	4	7	451126	\$253.84	.015 .030 .060 .090 .125 .188 .250	\$267.31
1	1	1-1/2	4	451161	\$218.75	.015 .030 .060 .090 .125 .188 .250	\$232.22
1	1	2	4-1/2	451162	\$220.97	.015 .030 .060 .090 .125 .188 .250	\$234.45
1	1	2-1/4	5	451163	\$255.08	.015 .030 .060 .090 .125 .188 .250	\$268.55
1	1	3	6	451164	\$280.63	.015 .030 .060 .090 .125 .188 .250	\$294.10
1	1	4	7	451165	\$350.77	.015 .030 .060 .090 .125 .188 .250	\$364.24



451 SERIES

4 FLUTE VARIABLE



Tolerance

Cutting Diameter (D1)	Shank Diameter (D2)	Runout .0005" max (shank to cutting diameter) Back Taper .0005" max Ball Nose Radius +.000/- .001"
1/8"-1/4": +.000"/-.0012"	1/8"-1/4": +.0001"/-.0003"	
1/4"-1.2": +.000"/-.0016"	1/4"-1.2": +.0001"/-.0003"	
1/2"-1": +.000"/-.0020"	1/2"-1": +.0001"/-.0004"	

Extended Neck

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Part Number	Square Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	1-1/4	3	N451040	35.08	.015 .030 .060	\$48.55
1/4	1/4	1/2	2-1/8	4	N451041	41.97	.015 .030 .060	\$55.45
1/4	1/4	1/2	3-1/8	5	N451042	57.04	.015 .030 .060	\$70.51
1/4	1/4	1/2	4-1/8	6	N451043	71.29	.015 .030 .060	\$84.76
5/16	5/16	9/16	2-1/8	4	N451051	54.98	.015 .030 .060	\$68.45
5/16	5/16	9/16	4-1/8	6	N451052	68.65	.015 .030 .060	\$82.12
3/8	3/8	3/4	1-1/4	3	N451060	46.90	.015 .030 .060 .090 .125	\$60.37
3/8	3/8	3/4	2-1/8	4	N451061	52.83	.015 .030 .060 .090 .125	\$66.31
3/8	3/8	3/4	3-1/8	5	N451062	68.26	.015 .030 .060 .090 .125	\$81.74
3/8	3/8	3/4	4-1/8	6	N451063	81.17	.015 .030 .060 .090 .125	\$94.64
1/2	1/2	7/8	1-3/8	3	N451080	60.72	.015 .030 .060 .090 .125	\$74.20
1/2	1/2	7/8	2-1/8	4	N451081	72.57	.015 .030 .060 .090 .125	\$86.05
1/2	1/2	7/8	3-1/8	5	N451082	106.08	.015 .030 .060 .090 .125	\$119.56
1/2	1/2	7/8	4-1/8	6	N451083	129.18	.015 .030 .060 .090 .125	\$142.65
1/2	1/2	7/8	5-1/8	7	N451084	156.72	.015 .030 .060 .090 .125	\$170.19
1/2	1/2	7/8	6-1/8	8	N451085	178.10	.015 .030 .060 .090 .125	\$191.57
5/8	5/8	1	2	4	N451100	135.44	.015 .030 .060 .090 .125	\$148.91
5/8	5/8	1	3	5	N451101	143.55	.015 .030 .060 .090 .125	\$157.02
5/8	5/8	1	4	6	N451102	185.13	.015 .030 .060 .090 .125	\$198.60
5/8	5/8	1	6	8	N451103	247.64	.015 .030 .060 .090 .125	\$261.11
3/4	3/4	1	2	4	N451120	155.44	.015 .030 .060 .090 .125 .188 .250	\$168.91
3/4	3/4	1-1/4	3	5	N451121	175.71	.015 .030 .060 .090 .125 .188 .250	\$189.18
3/4	3/4	1-1/4	4	6	N451122	198.13	.015 .030 .060 .090 .125 .188 .250	\$211.60
3/4	3/4	1-1/4	5	7	N451123	278.83	.015 .030 .060 .090 .125 .188 .250	\$292.31
3/4	3/4	1-1/4	6	8	N451124	309.81	.015 .030 .060 .090 .125 .188 .250	\$323.28
1	1	1-1/4	2	4	N451160	257.93	.015 .030 .060 .090 .125 .188 .250	\$271.41
1	1	1-1/2	3	5	N451161	264.69	.015 .030 .060 .090 .125 .188 .250	\$278.16
1	1	1-1/2	4	6	N451162	280.62	.015 .030 .060 .090 .125 .188 .250	\$294.10
1	1	1-1/2	5	7	N451163	369.22	.015 .030 .060 .090 .125 .188 .250	\$382.69
1	1	1-1/2	6	8	N451164	477.10	.015 .030 .060 .090 .125 .188 .250	\$490.58



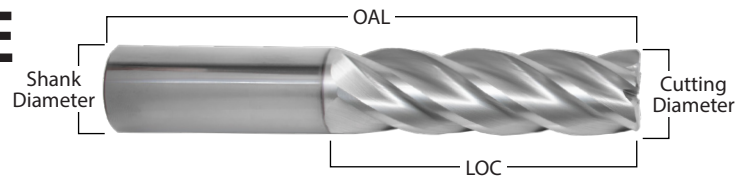
NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = **337052-.015**)

558 SERIES

5 FLUTE VARIABLE

- Exxtral Silver Coated
- Radii available upon request
- Flats added upon request



Fractional

Cutting Diameter	Shank Diameter	LOC	Overall	Part Number	Square Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	2	558041	\$22.70	.015 .030 .060	\$36.17
1/4	1/4	3/4	2-1/2	558042	\$25.19	.015 .030 .060	\$38.67
1/4	1/4	1-1/4	3	558043	\$33.13	.015 .030 .060	\$46.60
1/4	1/4	1-1/2	4	558044	\$39.65	.015 .030 .060	\$53.12
1/4	1/4	2	4	558045	\$44.04	.015 .030 .060	\$57.52
5/16	5/16	7/16	2	558051	\$30.97	.015 .030 .060	\$44.45
5/16	5/16	7/8	2-1/2	558052	\$34.40	.015 .030 .060	\$47.87
5/16	5/16	1-1/4	3	558053	\$44.50	.015 .030 .060	\$57.97
5/16	5/16	1-5/8	4	558054	\$51.92	.015 .030 .060	\$65.39
5/16	5/16	2-1/8	4	558055	\$61.09	.015 .030 .060	\$74.56
3/8	3/8	1/2	2	558061	\$34.64	.015 .030 .060 .090 .125	\$48.11
3/8	3/8	1	2-1/2	558062	\$38.51	.015 .030 .060 .090 .125	\$51.99
3/8	3/8	1-1/4	3	558063	\$43.50	.015 .030 .060 .090 .125	\$56.97
3/8	3/8	1-1/2	4	558064	\$47.80	.015 .030 .060 .090 .125	\$61.28
3/8	3/8	2	4	558065	\$57.11	.015 .030 .060 .090 .125	\$70.59
3/8	3/8	2-1/2	6	558066	\$90.65	.015 .030 .060 .090 .125	\$104.13
1/2	1/2	5/8	2-1/2	558081	\$50.87	.015 .030 .060 .090 .125	\$64.34
1/2	1/2	1-1/4	3	558082	\$56.51	.015 .030 .060 .090 .125	\$69.99
1/2	1/2	1-5/8	4	558083	\$68.13	.015 .030 .060 .090 .125	\$81.60
1/2	1/2	2	4	558084	\$79.74	.015 .030 .060 .090 .125	\$93.22
1/2	1/2	2-1/2	5	558085	\$112.25	.015 .030 .060 .090 .125	\$125.72
1/2	1/2	3-1/8	6	558086	\$145.16	.015 .030 .060 .090 .125	\$158.64
5/8	5/8	3/4	3	558101	\$105.86	.015 .030 .060 .090 .125	\$120.18
5/8	5/8	1-5/8	3-1/2	558102	\$117.64	.015 .030 .060 .090 .125	\$131.95
5/8	5/8	2-1/8	4	558103	\$135.76	.015 .030 .060 .090 .125	\$150.07
5/8	5/8	2-1/2	5	558104	\$153.89	.015 .030 .060 .090 .125	\$168.21
5/8	5/8	3	6	558105	\$190.75	.015 .030 .060 .090 .125	\$205.07
3/4	3/4	1	3	558121	\$145.81	.015 .030 .060 .090 .125 .188 .250	\$160.13
3/4	3/4	1-5/8	4	558122	\$151.21	.015 .030 .060 .090 .125 .188 .250	\$165.52
3/4	3/4	2-1/4	5	558123	\$196.92	.015 .030 .060 .090 .125 .188 .250	\$211.23
3/4	3/4	3-1/4	6	558124	\$227.13	.015 .030 .060 .090 .125 .188 .250	\$241.44
3/4	3/4	4-1/8	7	558125	\$283.90	.015 .030 .060 .090 .125 .188 .250	\$298.22
1	1	1-1/2	4	558161	\$244.65	.015 .030 .060 .090 .125 .188 .250	\$258.97
1	1	2-1/4	5	558162	\$247.14	.015 .030 .060 .090 .125 .188 .250	\$261.46
1	1	2-5/8	6	558163	\$285.28	.015 .030 .060 .090 .125 .188 .250	\$299.60
1	1	3-1/4	6	558164	\$313.86	.015 .030 .060 .090 .125 .188 .250	\$328.17
1	1	4-1/8	7	558165	\$392.31	.015 .030 .060 .090 .125 .188 .250	\$406.62



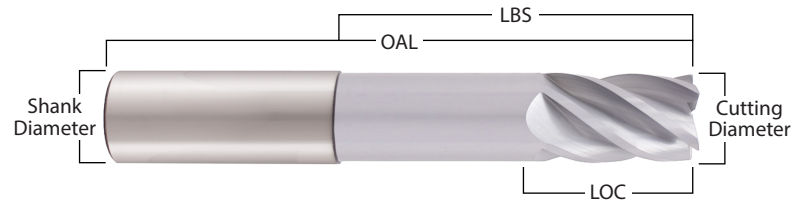
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558 SERIES

5 FLUTE VARIABLE



Tolerance

Cutting Diameter (D1)	Shank Diameter (D2)	Runout .0005" max (shank to cutting diameter) Back Taper .0005" max Ball Nose Radius +.000/- .001"
1/8"-1/4": +.000"/-.0012"	1/8"-1/4": +.0001"/-.0003"	
1/4"-1.2": +.000"/-.0016"	1/4"-1.2": +.0001"/-.0003"	
1/2"-1": +.000"/-.0020"	1/2"-1": +.0001"/-.0004"	

Extended Neck

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	Part Number	Square Price	Radius	Radius/ Ball Price
1/4	1/4	1/2	1-1/4	3	N558040	38.97	.015 .030 .060	\$52.45
1/4	1/4	1/2	2-1/8	4	N558041	46.64	.015 .030 .060	\$60.11
1/4	1/4	1/2	3-1/8	5	N558042	63.37	.015 .030 .060	\$76.85
1/4	1/4	1/2	4-1/8	6	N558043	79.21	.015 .030 .060	\$92.68
5/16	5/16	9/16	2-1/8	4	N558051	61.09	.015 .030 .060	\$74.56
5/16	5/16	9/16	4-1/8	6	N558052	76.27	.015 .030 .060	\$89.75
3/8	3/8	3/4	1-1/4	3	N558060	52.11	.015 .030 .060 .090 .125	\$65.58
3/8	3/8	3/4	2-1/8	4	N558061	58.70	.015 .030 .060 .090 .125	\$72.18
3/8	3/8	3/4	3-1/8	5	N558062	75.85	.015 .030 .060 .090 .125	\$89.32
3/8	3/8	3/4	4-1/8	6	N558063	90.19	.015 .030 .060 .090 .125	\$103.66
1/2	1/2	7/8	1-3/8	3	N558080	67.47	.015 .030 .060 .090 .125	\$80.94
1/2	1/2	7/8	2-1/8	4	N558081	80.64	.015 .030 .060 .090 .125	\$94.11
1/2	1/2	7/8	3-1/8	5	N558082	117.87	.015 .030 .060 .090 .125	\$131.34
1/2	1/2	7/8	4-1/8	6	N558083	143.53	.015 .030 .060 .090 .125	\$157.00
1/2	1/2	7/8	5-1/8	7	N558084	174.13	.015 .030 .060 .090 .125	\$187.61
1/2	1/2	7/8	6-1/8	8	N558085	197.89	.015 .030 .060 .090 .125	\$211.36
5/8	5/8	1	2	4	N558100	142.57	.015 .030 .060 .090 .125	\$156.04
5/8	5/8	1	3	5	N558101	151.10	.015 .030 .060 .090 .125	\$164.58
5/8	5/8	1	4	6	N558102	194.87	.015 .030 .060 .090 .125	\$208.35
5/8	5/8	1	6	8	N558103	260.67	.015 .030 .060 .090 .125	\$274.14
3/4	3/4	1	2	4	N558120	163.62	.015 .030 .060 .090 .125 .188 .250	\$177.09
3/4	3/4	1-1/4	3	5	N558121	184.95	.015 .030 .060 .090 .125 .188 .250	\$198.43
3/4	3/4	1-1/4	4	6	N558122	208.56	.015 .030 .060 .090 .125 .188 .250	\$222.03
3/4	3/4	1-1/4	5	7	N558123	293.51	.015 .030 .060 .090 .125 .188 .250	\$306.98
3/4	3/4	1-1/4	6	8	N558124	326.11	.015 .030 .060 .090 .125 .188 .250	\$339.59
1	1	1-1/4	2	4	N558160	271.51	.015 .030 .060 .090 .125 .188 .250	\$284.98
1	1	1-1/2	3	5	N558161	278.62	.015 .030 .060 .090 .125 .188 .250	\$292.10
1	1	1-1/2	4	6	N558162	295.39	.015 .030 .060 .090 .125 .188 .250	\$308.87
1	1	1-1/2	5	7	N558163	388.65	.015 .030 .060 .090 .125 .188 .250	\$402.12
1	1	1-1/2	6	8	N558164	502.21	.015 .030 .060 .090 .125 .188 .250	\$515.69



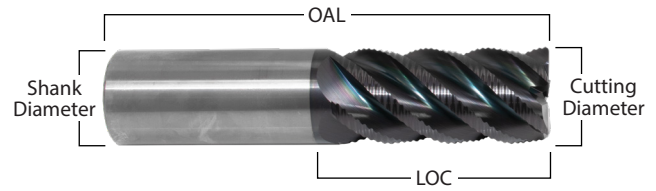
NOTE: When ordering with radius, include the part number.

Example: (337XXX(Part#) + .015(radius) = 337052-.015)

429 SERIES

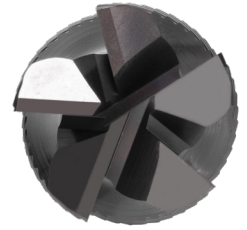
5-7 FLUTE ENDMILL

- Varianta Supral Coated
- Standard Radius
- Flats added upon request



Fractional

Cutting Diameter	Shank Diameter	LOC	Overall	# Flutes	Standard Radius	Radius Part Number	Ball Part Number	Price
3/8	3/8	1/2	2	5	0.03	429060-.030	429060B	\$51.61
3/8	3/8	1	2-1/2	5	0.03	429061-.030	429061B	\$59.47
7/16	7/16	9/16	2-1/2	5	0.03	429070-.030	429070B	\$70.02
7/16	7/16	1	2-3/4	5	0.03	429071-.030	429071B	\$75.26
1/2	1/2	5/8	2-1/2	5	0.03	429080-.030	429080B	\$82.01
1/2	1/2	1-1/4	3	5	0.03	429081-.030	429081B	\$89.83
5/8	5/8	3/4	3	5	0.03	429100-.030	429100B	\$158.12
5/8	5/8	1-5/8	3-1/2	5	0.03	429101-.030	429101B	\$179.54
3/4	3/4	1	3	4	0.06	429120-.060	429120B	\$202.80
3/4	3/4	1-5/8	4	5	0.06	429121-.060	429121B	\$229.60
1	1	1-1/4	3	5	0.06	429160-.060	429160B	\$275.84
1	1	2	4-1/2	5	0.06	429161-.060	429161B	\$322.62
1-1/4	1-1/4	2	4-1/2	7	0.06	429170-.060	429170B	\$688.40
1-1/4	1-1/4	3	6	7	0.06	429171-.060	429171B	\$832.92



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5-7 FLUTE ENDMILL



Tolerance

Cutting Diameter (D1)	Shank Diameter (D2)	Runout .0005" max (shank to cutting diameter) Back Taper .0005" max Ball Nose Radius +.000/- .001"
1/8"-1/4": +.000"/- .0012"	1/8"-1/4": +.0001"/- .0003"	
1/4"-1.2": +.000"/- .0016"	1/4"-1.2": +.0001"/- .0003"	
1/2"-1": +.000"/- .0020"	1/2"-1": +.0001"/- .0004"	

Extended Neck

Cutting Diameter	Shank Diameter	LOC	LBS	Overall	# Flutes	Standard Radius	Radius Part Number	Ball Part Number	Price
1/2	1/2	7/8	1 3/8	3	5	0.03	N429080-.030	N429080B	\$89.81
1/2	1/2	7/8	2 1/8	4	5	0.03	N429081-.030	N429081B	\$127.74
1/2	1/2	7/8	3 1/8	5	5	0.03	N429082-.030	N429082B	\$157.72
1/2	1/2	7/8	4 1/8	6	5	0.03	N429083-.030	N429083B	\$187.69
5/8	5/8	1	2	4	5	0.03	N429100-.030	N429100B	\$195.47
5/8	5/8	1	3	5	5	0.03	N429101-.030	N429101B	\$218.88
5/8	5/8	1	4	6	5	0.03	N429102-.030	N429102B	\$244.52
3/4	3/4	1-1/4	2	4	5	0.06	N429120-.060	N429120B	\$229.60
3/4	3/4	1-1/4	3	5	5	0.06	N429121-.060	N429121B	\$272.83
3/4	3/4	1-1/4	4	6	5	0.06	N429122-.060	N429122B	\$296.75
1	1	1-1/2	3	5	5	0.06	N429160-.060	N429160B	\$337.39
1	1	1-1/2	4	6	5	0.06	N429161-.060	N429161B	\$408.92
1	1	1-1/2	5	7	5	0.06	N429162-.060	N429162B	\$492.56



NOTE: When ordering with radius, include the part number.
Example: (337XXX(Part#) + .015(radius) = 337052-.015)



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