



Niagara Cutter

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ELITE Solid Carbide Neck Style End Mills for Aluminum

AN345/AN345R - 3 Flute 45° Helix Solid Carbide designed for slotting, pocketing and long reach peripheral milling applications.

AN345/AN345R Provides:

- ✓ Increased Rigidity
- ✓ Less Deflection
- ✓ Chatter Reduction
- ✓ Higher Metal Removal Rates
- ✓ Improved Surface Finish

AN345/AN345R Features:

- ✓ Cylindrical Land
- ✓ Eccentric Primary Relief
- ✓ Full form Ground Flute Shape
- ✓ Extra-Fine Grain Solid Carbide
- ✓ Stocked with Radius and TiCN Microshield™ Coating



Price Code E						Uncoated Square-End		0.010 Radius		0.020 Radius		0.030 Radius	
Flute Dia	Shank Dia	Length of Cut	Reach	Neck Dia	Overall Length	EDP	List	TiCN EDP	TiCN List	TiCN EDP	TiCN List	TiCN EDP	TiCN List
1/4	1/4	3/8	2-1/8	0.240	4	18597	\$ 46.75	18597-010	\$ 52.30	18614	\$ 52.30	18597-030	\$ 52.30
1/4	1/4	1/2	1	0.240	3	57938	\$ 44.41	57938-010	\$ 49.70	57943	\$ 49.70	57938-030	\$ 49.70
1/4	1/4	1/2	1-1/2	0.240	4	57939	\$ 46.75	57939-010	\$ 52.30	57944	\$ 52.30	57939-030	\$ 52.30
5/16	5/16	7/16	2-1/8	0.300	4	18598	\$ 75.62	18598-010	\$ 84.75	18615	\$ 84.75	18598-030	\$ 84.75
3/8	3/8	3/8	1-1/8	0.360	2-1/2	18599	\$ 39.72	18599-010	\$ 44.53	18616	\$ 44.53	18599-030	\$ 44.53
3/8	3/8	1/2	2-1/8	0.360	4	18600	\$ 67.61	18600-010	\$ 75.75	18617	\$ 75.75	18600-030	\$ 75.75
3/8	3/8	1/2	4-1/8	0.360	6	18601	\$ 101.40	18601-010	\$ 113.62	18618	\$ 113.62	18601-030	\$ 113.62
3/8	3/8	3/4	2	0.360	4	57940	\$ 70.98	57940-010	\$ 79.54	57945	\$ 79.54	57940-030	\$ 79.54
3/8	3/8	3/4	3	0.360	5	57941	\$ 86.19	57941-010	\$ 96.57	57946	\$ 96.57	57941-030	\$ 96.57
1/2	1/2	1/2	1-3/8	0.480	3	18602	\$ 60.70	18602-010	\$ 67.98	18619	\$ 67.98	18602-030	\$ 67.98
1/2	1/2	5/8	2-1/8	0.480	4	18603	\$ 96.10	18603-010	\$ 107.56	18620	\$ 107.56	18603-030	\$ 107.56
1/2	1/2	5/8	3	0.480	5	57942	\$ 123.41	57942-010	\$ 140.25	57947	\$ 140.25	57942-030	\$ 140.25
1/2	1/2	5/8	4-1/8	0.480	6	18604	\$ 150.74	18604-010	\$ 168.89	18621	\$ 168.89	18604-030	\$ 168.89
5/8	5/8	3/4	2	0.600	4	18605	\$ 147.66	18605-010	\$ 165.43	18622	\$ 165.43	18605-030	\$ 165.43
5/8	5/8	3/4	4	0.600	6	18606	\$ 233.90	18606-010	\$ 262.02	18623	\$ 262.02	18606-030	\$ 262.02
3/4	3/4	3/4	1-3/4	0.720	4	18607	\$ 173.82	18607-010	\$ 194.67	18624	\$ 194.67	18607-030	\$ 194.67
3/4	3/4	1	2-1/2	0.720	5	18608	\$ 209.59	18608-010	\$ 234.77	18625	\$ 234.77	18608-030	\$ 234.77
3/4	3/4	1	3-1/2	0.720	6	18609	\$ 226.49	18609-010	\$ 253.63	18626	\$ 253.63	18609-030	\$ 253.63
3/4	3/4	1	4-1/8	0.720	7	18610	\$ 383.28	18610-010	\$ 429.30	18627	\$ 429.30	18610-030	\$ 429.30
1	1	1-1/4	2-1/2	0.960	5	18611	\$ 256.97	18611-010	\$ 287.81	18628	\$ 287.81	18611-030	\$ 287.81
1	1	1-1/4	3-1/2	0.960	6	18612	\$ 342.57	18612-010	\$ 383.66	18629	\$ 383.66	18612-030	\$ 383.66
1	1	1-1/4	4-1/4	0.960	7	18613	\$ 477.65	18613-010	\$ 535.02	18630	\$ 535.02	18613-030	\$ 535.02

						0.045 Radius		0.060 Radius		0.090 Radius		0.125 Radius	
Flute Dia	Shank Dia	Length of Cut	Reach	Neck Dia	Overall Length	TiCN EDP	TiCN List	TiCN EDP	TiCN List	TiCN EDP	TiCN List	TiCN EDP	TiCN List
1/4	1/4	3/8	2-1/8	0.240	4	18597-045	\$ 52.30	18597-060	\$ 52.30	-	-	-	-
1/4	1/4	1/2	1	0.240	3	57938-045	\$ 49.70	57938-060	\$ 49.70	-	-	-	-
1/4	1/4	1/2	1-1/2	0.240	4	57939-045	\$ 52.30	57939-060	\$ 52.30	-	-	-	-
5/16	5/16	7/16	2-1/8	0.300	4	18598-045	\$ 84.75	18598-060	\$ 84.75	-	-	-	-
3/8	3/8	3/8	1-1/8	0.360	2-1/2	18599-045	\$ 44.53	18599-060	\$ 44.53	-	-	-	-
3/8	3/8	1/2	2-1/8	0.360	4	18600-045	\$ 75.75	18600-060	\$ 75.75	-	-	-	-
3/8	3/8	1/2	4-1/8	0.360	6	18601-045	\$ 113.62	18601-060	\$ 113.62	-	-	-	-
3/8	3/8	3/4	2	0.360	4	57940-045	\$ 79.54	57940-060	\$ 79.54	-	-	-	-
3/8	3/8	3/4	3	0.360	5	57941-045	\$ 96.57	57941-060	\$ 96.57	-	-	-	-
1/2	1/2	1/2	1-3/8	0.480	3	18602-045	\$ 67.98	18602-060	\$ 67.98	18602-090	\$ 69.61	18602-125	\$ 69.61
1/2	1/2	5/8	2-1/8	0.480	4	18603-045	\$ 107.56	18603-060	\$ 107.56	18603-090	\$ 109.20	18603-125	\$ 109.20
1/2	1/2	5/8	3	0.480	5	57942-045	\$ 140.25	57942-060	\$ 140.25	57942-090	\$ 141.88	57942-125	\$ 141.88
1/2	1/2	5/8	4-1/8	0.480	6	18604-045	\$ 168.89	18604-060	\$ 168.89	18604-090	\$ 170.50	18604-125	\$ 170.50
5/8	5/8	3/4	2	0.600	4	18605-045	\$ 165.43	18605-060	\$ 165.43	18605-090	\$ 167.06	18605-125	\$ 167.06
5/8	5/8	3/4	4	0.600	6	18606-045	\$ 262.02	18606-060	\$ 262.02	18606-090	\$ 263.65	18606-125	\$ 263.65
3/4	3/4	3/4	1-3/4	0.720	4	18607-045	\$ 194.67	18607-060	\$ 194.67	18607-090	\$ 196.30	18607-125	\$ 196.30
3/4	3/4	1	2-1/2	0.720	5	18608-045	\$ 234.77	18608-060	\$ 234.77	18608-090	\$ 236.39	18608-125	\$ 236.39
3/4	3/4	1	3-1/2	0.720	6	18609-045	\$ 253.63	18609-060	\$ 253.63	18609-090	\$ 255.27	18609-125	\$ 255.27
3/4	3/4	1	4-1/8	0.720	7	18610-045	\$ 429.30	18610-060	\$ 429.30	18610-090	\$ 430.93	18610-125	\$ 430.93
1	1	1-1/4	2-1/2	0.960	5	18611-045	\$ 287.81	18611-060	\$ 287.81	18611-090	\$ 289.44	18611-125	\$ 289.44
1	1	1-1/4	3-1/2	0.960	6	18612-045	\$ 383.66	18612-060	\$ 383.66	18612-090	\$ 385.29	18612-125	\$ 385.29
1	1	1-1/4	4-1/4	0.960	7	18613-045	\$ 535.02	18613-060	\$ 535.02	18613-090	\$ 536.65	18613-125	\$ 536.65



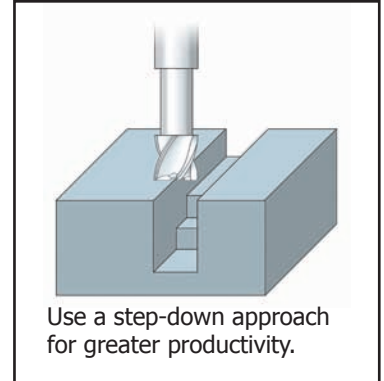
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Introducing Neck Style End Mills for Steel, Stainless Steel, Titanium and Exotic Alloys

ELITE Series **SN335** is designed for slotting, pocketing and long reach peripheral milling applications.

- SN335** Provides:
- ✓ Increased Rigidity
 - ✓ Higher Metal Removal Rates
 - ✓ Less Deflection
 - ✓ Improved Surface Finish
 - ✓ Chatter Reduction



SN335 - 3 Flute 35° Helix Solid Carbide

- Full Form Ground Flute Shape
- Extra-Fine Grain Solid Carbide
- Standard with Radius
- Niagara Microshield™ TiAlN Coating



Price Code E

Flute Dia	Shank Dia	Length of Cut	Reach	Neck Dia	Overall Length	# F	Radius	TiAlN	
								EDP	List
1/4	1/4	3/8	2-1/8	.240	4	3	.020	18648	\$ 52.30
5/16	5/16	7/16	2-1/8	.300	4	3	.020	18649	\$ 84.75
3/8	3/8	1/2	2-1/8	.360	4	3	.020	18650	\$ 75.75
3/8	3/8	1/2	3-3/8	.360	6	3	.020	18651	\$ 113.62
7/16	7/16	9/16	2-1/8	.420	4	3	.020	18652	\$ 102.27
7/16	7/16	9/16	3-3/8	.420	6	3	.020	18653	\$ 138.16
1/2	1/2	5/8	2-1/8	.480	4	3	.030	18654	\$ 107.56
1/2	1/2	5/8	3-1/8	.480	5	3	.030	18655	\$ 138.16
1/2	1/2	5/8	4-1/8	.480	6	3	.030	18656	\$ 168.89
5/8	5/8	3/4	2-1/8	.600	4	3	.030	18657	\$ 165.43
5/8	5/8	3/4	3-1/8	.600	5	3	.030	18658	\$ 213.80
5/8	5/8	3/4	4	.600	6	3	.030	18659	\$ 263.50
3/4	3/4	1	2	.720	4	3	.030	18660	\$ 194.67
3/4	3/4	1	3	.720	5	3	.030	18661	\$ 234.77
3/4	3/4	1	4	.720	6	3	.030	18662	\$ 266.09
1	1	1-1/4	3	.960	5	3	.030	18663	\$ 287.81
1	1	1-1/4	4	.960	6	3	.030	18664	\$ 383.66

Niagara's **SN335** Neck Series End Mills, has the same high performance geometry as our **ELITE S335**. The short flute length combined with the solid neck provide greater rigidity than extra length fluted end mills. The recessed neck area has a superior surface finish and a chamfer blend to the cutting diameter and shank. The recessed neck offers clearance and chip space in long reach applications.

