



# 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	3/8	2-1/8	0.360	4	18600	\$ 67.61	18600-010	\$ 75.75	18617	\$ 75.75	18600-030	\$ 75.75
3/8	3/8	3/8	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	3/8	2-1/8	0.360	4	18600-045	\$ 75.75	18600-060	\$ 75.75	-	-	-	-
3/8	3/8	3/8	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



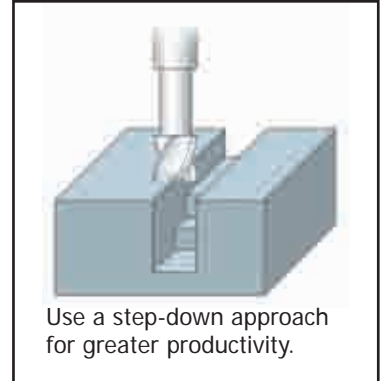
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## Introducing Neck Style End Mills for Steel, Stainless Steel, Titanium and Exotic Alloys

**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
- Standard with Radius
- Extra-Fine Grain Solid Carbide
- 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	.015 - .020	18648	\$ 52.30
5/16	5/16	7/16	2-1/8	.300	4	3	.015 - .020	18649	\$ 84.75
3/8	3/8	1/2	2-1/8	.360	4	3	.015 - .020	18650	\$ 75.75
3/8	3/8	1/2	3-3/8	.360	6	3	.015 - .020	18651	\$ 113.62
7/16	7/16	9/16	2-1/8	.420	4	3	.015 - .020	18652	\$ 102.27
7/16	7/16	9/16	3-3/8	.420	6	3	.015 - .020	18653	\$ 138.16
1/2	1/2	5/8	2-1/8	.480	4	3	.030 - .035	18654	\$ 107.56
1/2	1/2	5/8	3-1/8	.480	5	3	.030 - .035	18655	\$ 138.16
1/2	1/2	5/8	4-1/8	.480	6	3	.030 - .035	18656	\$ 168.89
5/8	5/8	3/4	2-1/8	.600	4	3	.030 - .035	18657	\$ 165.43
5/8	5/8	3/4	3-1/8	.600	5	3	.030 - .035	18658	\$ 213.80
5/8	5/8	3/4	4	.600	6	3	.030 - .035	18659	\$ 263.50
3/4	3/4	1	2	.720	4	3	.030 - .035	18660	\$ 194.67
3/4	3/4	1	3	.720	5	3	.030 - .035	18661	\$ 234.77
3/4	3/4	1	4	.720	6	3	.030 - .035	18662	\$ 266.09
1	1	1-1/4	3	.960	5	3	.030 - .035	18663	\$ 287.81
1	1	1-1/4	4	.960	6	3	.030 - .035	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.

