



Niagara Cutter

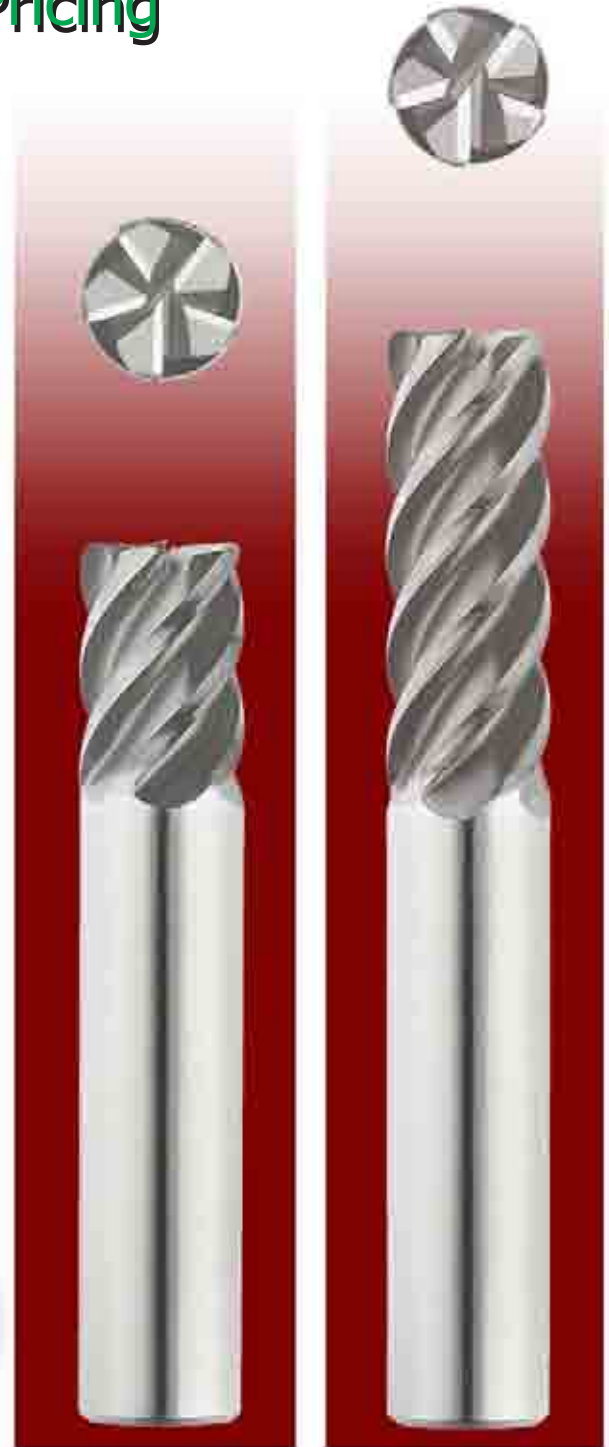
September 2006 Pricing



Full CNC Ground S545
5 Flute 45° Helix

**CORNER
RADIUSED**

Solid Carbide End Mills
With Microshield™ TiAlN Coating





S545 - 5 Flute 45° Helix, Center-Cutting Solid Carbide End Mills

Starting Point Speeds and Feeds with TiAlN Coating

Material	SFPM	Feed (Inch / Tooth) End Mill Diameter					
		1/8	1/4	3/8	1/2	3/4	1
Steels 4340,H-13, D-2	50-500	.0005	.001	.001	.001	.002	.004
Stainless Steels 15-5,304,316	80-500	.0001-.0005	.0005-.001	.001	.0015-.002	.003-.004	.004-.006
Titanium 6Al-4V	100-400	.0005	.0005	.001	.001	.0025	.004



Stub Length S545 Series with Radius



Price Code E

Dia.	Shank	LOC	OAL	.015 Radius		.020 Radius		.030 Radius		.045 Radius		
				Tool #	List Price	Tool #	List Price	Tool #	List Price	Tool #	List Price	
1/8	1/8	1/4	1 1/2	61983-015	\$32.70	61983-020	\$32.70					
3/16	3/16	5/16	2	61987-015	\$35.39	61987-020	\$35.39					
1/4	1/4	3/8	2	61991-015	\$36.74	61991-020	\$36.74	61991-030	\$36.74	61991-045	\$36.74	
5/16	5/16	7/16	2	61996-015	\$42.78	61996-020	\$42.78	61996-030	\$42.78	61996-045	\$42.78	
3/8	3/8	1/2	2	62002-015	\$48.16	62002-020	\$48.16	62002-030	\$48.16	62002-045	\$48.16	
7/16	7/16	9/16	2 1/2	62008-015	\$58.35	62008-020	\$58.35	62008-030	\$58.35	62008-045	\$58.35	
1/2	1/2	5/8	2 1/2	62013-015	\$66.42	62013-020	\$66.42	62013-030	\$66.42	62013-045	\$66.42	
5/8	5/8	3/4	3	62017-015	\$115.58	62017-020	\$115.58	62017-030	\$115.58	62017-045	\$115.58	
3/4	3/4	1	3	62021-015	\$144.26	62021-020	\$144.26	62021-030	\$144.26	62021-045	\$144.26	
1	1	1 1/4	3	62026-015	\$218.85	62026-020	\$218.85	62026-030	\$218.85	62026-045	\$218.85	
Flute Dia.		+0.000" -0.002"		Overall Length				+/-0.060"		Helix Angle		45°
Shank Dia.		-0.0001" -0.0004"		Length of Cut				1/16 to 5/16" +.030/-0.000"		21/64 to 1" +.060/-0.000"		

Regular Length S545 Series with Radius

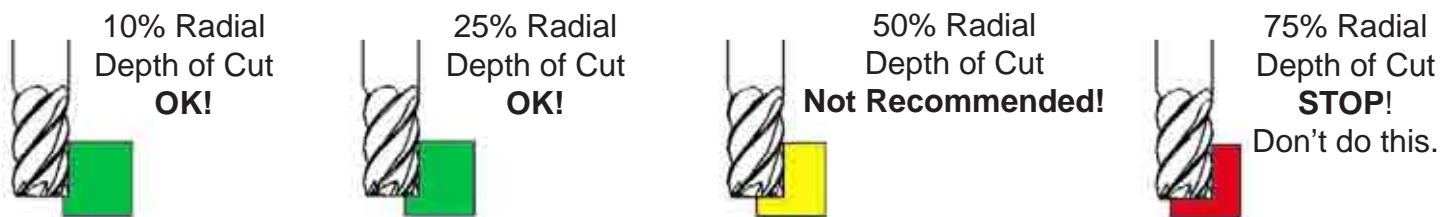


Price Code E

Dia.	Shank	LOC	OAL	.015 Radius		.020 Radius		.030 Radius		.045 Radius		
				Tool #	List Price	Tool #	List Price	Tool #	List Price	Tool #	List Price	
1/8	1/8	1/2	1 1/2	61984-015	\$34.50	61984-020	\$34.50					
3/16	3/16	9/16	2	61988-015	\$37.30	61988-020	\$37.30					
1/4	1/4	3/4	2 1/2	61992-015	\$39.76	61992-020	\$39.76	61992-030	\$39.76	61992-045	\$39.76	
5/16	5/16	13/16	2 1/2	61997-015	\$46.82	61997-020	\$46.82	61997-030	\$46.82	61997-045	\$46.82	
3/8	3/8	1	2 1/2	62003-015	\$52.86	62003-020	\$52.86	62003-030	\$52.86	62003-045	\$52.86	
7/16	7/16	1	2 3/4	62009-015	\$62.27	62009-020	\$62.27	62009-030	\$62.27	62009-045	\$62.27	
1/2	1/2	1 1/4	3	62014-015	\$71.23	62014-020	\$71.23	62014-030	\$71.23	62014-045	\$71.23	
5/8	5/8	1 5/8	3 1/2	62018-015	\$127.90	62018-020	\$127.90	62018-030	\$127.90	62018-045	\$127.90	
3/4	3/4	1 5/8	4	62022-015	\$159.82	62022-020	\$159.82	62022-030	\$159.82	62022-045	\$159.82	
1	1	2	4	62027-015	\$243.71	62027-020	\$243.71	62027-030	\$243.71	62027-045	\$243.71	
Flute Dia.		+0.000" -0.002"		Overall Length				+/-0.060"		Helix Angle		45°
Shank Dia.		-0.0001" -0.0004"		Length of Cut				1/16 to 5/16" +.030/-0.000"		21/64 to 1" +.060/-0.000"		

The S545 has been designed for high performance in a wide range of materials. The 45° helix and full eccentric primary make the S545 ideal for peripheral and finish milling. Recommended with Microshield™ HM TiAlN coating.

Application Guidelines for S545



- Designed for peripheral milling
- Can be used for heat treated materials up to 50 HRC
- Radial Depth of Cut should not exceed 30% of tool diameter when the axial cut is 100% of tool diameter or greater.

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Stub Length S545 Series with Radius



Price Code E

Dia.	Shank	LOC	OAL	.060 Radius		.090 Radius		.125 Radius		.190 Radius	
				Tool #	List Price	Tool #	List Price	Tool #	List Price	Tool #	List Price
1/8	1/8	1/4	1 1/2								
3/16	3/16	5/16	2								
1/4	1/4	3/8	2								
5/16	5/16	7/16	2								
3/8	3/8	1/2	2								
7/16	7/16	9/16	2 1/2	62008-060	\$58.35	62008-090	\$61.49	62008-125	\$61.49		
1/2	1/2	5/8	2 1/2	62013-060	\$66.42	62013-090	\$69.55	62013-125	\$69.55		
5/8	5/8	3/4	3	62017-060	\$115.58	62017-090	\$118.72	62017-125	\$118.72		
3/4	3/4	1	3	62021-060	\$144.26	62021-090	\$147.39	62021-125	\$147.39	62021-190	\$150.42
1	1	1 1/4	3	62026-060	\$218.85	62026-090	\$221.98	62026-125	\$221.98	62026-190	\$225.01
Flute Dia.		+.000" - .002"		Overall Length		+/- .060"		Helix Angle		45°	
Shank Dia.		-.0001" - .0004"		Length of Cut		1/16 to 5/16"		+.030/- .000"		21/64 to 1" +.060/- .000"	

Regular Length S545 Series with Radius



Price Code E

Dia.	Shank	LOC	OAL	.060 Radius		.090 Radius		.125 Radius		.190 Radius	
				Tool #	List Price	Tool #	List Price	Tool #	List Price	Tool #	List Price
1/8	1/8	1/2	1 1/2								
3/16	3/16	9/16	2								
1/4	1/4	3/4	2 1/2								
5/16	5/16	13/16	2 1/2								
3/8	3/8	1	2 1/2								
7/16	7/16	1	2 3/4	62009-060	\$62.27	62009-090	\$65.41	62009-125	\$65.41		
1/2	1/2	1 1/4	3	62014-060	\$71.23	62014-090	\$74.37	62014-125	\$74.37		
5/8	5/8	1 5/8	3 1/2	62018-060	\$127.90	62018-090	\$131.04	62018-125	\$131.04		
3/4	3/4	1 5/8	4	62022-060	\$159.82	62022-090	\$162.96	62022-125	\$162.96	62022-190	\$165.98
1	1	2	4	62027-060	\$243.71	62027-090	\$246.85	62027-125	\$246.85	62027-190	\$249.87
Flute Dia.		+.000" - .002"		Overall Length		+/- .060"		Helix Angle		45°	
Shank Dia.		-.0001" - .0004"		Length of Cut		1/16 to 5/16"		+.030/- .000"		21/64 to 1" +.060/- .000"	

ELITE S545 Series

5 Flute 45° Helix High Performance Solid Carbide End Mills

- Eccentric Primary Relief
- Advanced Flute Geometries
- Center-Cutting
- Microshield HM TiAlN Coating
- Extra-Fine Grain Carbide
- Ultra High Transverse Rupture Strength
- Ideal for Peripheral Finish Milling



Niagara ELITE regular and stub length S545's are now available as standards with corner radiuses. All radiused end mills come coated with Microshield™ HM, TiAlN coating. **ELITE** S545 is the performance choice for peripheral milling in a wide range of materials and applications.

Materials

- Stainless Steel
- Titanium
- Inconel
- Kovar
- H-13
- P-20

Applications

- Materials up to 50HRC
- Higher Speeds
- Longer Tool Life
- Excellent Part Finish
- Minimal Deflection
- Superior Corner Strength

Special sizes of S545 can be manufactured. Contact your Niagara Cutter Distributor for more information.



Niagara Cutter

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