



Niagara Cutter

S545R - 5 Flutes 45° Helix Solid Carbide Single-End Mill
for Stainless Steel, Titanium, Inconel, Kovar, H-13 and P-20
Center-Cutting, Corner Radius, Regular and Stub Length

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

Flute Diameter Tolerances : **+0.000"/-0.002"**
Shank Diameter Tolerances : **-0.0001"/-0.0004"**
Overall Length Tolerances : **+/-0.060"**
Length of Cut Tolerances
[1/16",5/16"] **+0.030"/-0.000"**
[21/64",1"] **+0.060"/-0.000"**
Helix Angle : **45°**

Flute Diam.	Shank Diam.	Length Of Cut	Overall Length	Radius	#F	TiAlN
1/8	1/8	1/4	1-1/2	0.015	5	61983-015
3/16	3/16	5/16	2	0.015	5	61987-015
1/4	1/4	3/8	2	0.015	5	61991-015
5/16	5/16	7/16	2	0.015	5	61996-015
3/8	3/8	1/2	2	0.015	5	62002-015
7/16	7/16	9/16	2-1/2	0.015	5	62008-015
1/2	1/2	5/8	2-1/2	0.015	5	62013-015
5/8	5/8	3/4	3	0.015	5	62017-015
3/4	3/4	1	3	0.015	5	62021-015
1	1	1-1/4	3	0.015	5	62026-015
1/8	1/8	1/4	1-1/2	0.020	5	61983-020
3/16	3/16	5/16	2	0.020	5	61987-020
1/4	1/4	3/8	2	0.020	5	61991-020
5/16	5/16	7/16	2	0.020	5	61996-020
3/8	3/8	1/2	2	0.020	5	62002-020
7/16	7/16	9/16	2-1/2	0.020	5	62008-020
1/2	1/2	5/8	2-1/2	0.020	5	62013-020
5/8	5/8	3/4	3	0.020	5	62017-020
3/4	3/4	1	3	0.020	5	62021-020
1	1	1-1/4	3	0.020	5	62026-020
1/4	1/4	3/8	2	0.030	5	61991-030
5/16	5/16	7/16	2	0.030	5	61996-030
3/8	3/8	1/2	2	0.030	5	62002-030
7/16	7/16	9/16	2-1/2	0.030	5	62008-030
1/2	1/2	5/8	2-1/2	0.030	5	62013-030
5/8	5/8	3/4	3	0.030	5	62017-030
3/4	3/4	1	3	0.030	5	62021-030



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1	1	1-1/4	3	0.030	5	62026-030
1/4	1/4	3/8	2	0.045	5	61991-045
5/16	5/16	7/16	2	0.045	5	61996-045
3/8	3/8	1/2	2	0.045	5	62002-045
7/16	7/16	9/16	2-1/2	0.045	5	62008-045
1/2	1/2	5/8	2-1/2	0.045	5	62013-045
5/8	5/8	3/4	3	0.045	5	62017-045
3/4	3/4	1	3	0.045	5	62021-045
1	1	1-1/4	3	0.045	5	62026-045
1/8	1/8	1/2	1-1/2	0.015	5	61984-015
3/16	3/16	9/16	2	0.015	5	61988-015
1/4	1/4	3/4	2-1/2	0.015	5	61992-015
5/16	5/16	13/16	2-1/2	0.015	5	61997-015
3/8	3/8	1	2-1/2	0.015	5	62003-015
7/16	7/16	1	2-3/4	0.015	5	62009-015
1/2	1/2	1-1/4	3	0.015	5	62014-015
5/8	5/8	1-5/8	3-1/2	0.015	5	62018-015
3/4	3/4	1-5/8	4	0.015	5	62022-015
1	1	2	4	0.015	5	62027-015
1/8	1/8	1/2	1-1/2	0.020	5	61984-020
3/16	3/16	9/16	2	0.020	5	61988-020
1/4	1/4	3/4	2-1/2	0.020	5	61992-020
5/16	5/16	13/16	2-1/2	0.020	5	61997-020
3/8	3/8	1	2-1/2	0.020	5	62003-020
7/16	7/16	1	2-3/4	0.020	5	62009-020
1/2	1/2	1-1/4	3	0.020	5	62014-020
5/8	5/8	1-5/8	3-1/2	0.020	5	62018-020
3/4	3/4	1-5/8	4	0.020	5	62022-020
1	1	2	4	0.020	5	62027-020
1/4	1/4	3/4	2-1/2	0.030	5	61992-030
5/16	5/16	13/16	2-1/2	0.030	5	61997-030
3/8	3/8	1	2-1/2	0.030	5	62003-030
7/16	7/16	1	2-3/4	0.030	5	62009-030
1/2	1/2	1-1/4	3	0.030	5	62014-030
5/8	5/8	1-5/8	3-1/2	0.030	5	62018-030



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Flute Diam.	Shank Diam.	Overall Length	Length Of Cut	Radius	#F	TiAIN
3/4	3/4	1-5/8	4	0.030	5	62022-030
1	1	2	4	0.030	5	62027-030
1/4	1/4	3/4	2-1/2	0.045	5	61992-045
5/16	5/16	13/16	2-1/2	0.045	5	61997-045
3/8	3/8	1	2-1/2	0.045	5	62003-045
7/16	7/16	1	2-3/4	0.045	5	62009-045
1/2	1/2	1-1/4	3	0.045	5	62014-045
5/8	5/8	1-5/8	3-1/2	0.045	5	62018-045
3/4	3/4	1-5/8	4	0.045	5	62022-045
1	1	2	4	0.045	5	62027-045
7/16	7/16	9/16	2-1/2	0.060	5	62008-060
1/2	1/2	5/8	2-1/2	0.060	5	62013-060
5/8	5/8	3/4	3	0.060	5	62017-060
3/4	3/4	1	3	0.060	5	62021-060
1	1	1-1/4	3	0.060	5	62026-060
7/16	7/16	9/16	2-1/2	0.090	5	62008-090
1/2	1/2	5/8	2-1/2	0.090	5	62013-090
5/8	5/8	3/4	3	0.090	5	62017-090
3/4	3/4	1	3	0.090	5	62021-090
1	1	1-1/4	3	0.090	5	62026-090
7/16	7/16	9/16	2-1/2	0.125	5	62008-125
1/2	1/2	5/8	2-1/2	0.125	5	62013-125
5/8	5/8	3/4	3	0.125	5	62017-125
3/4	3/4	1	3	0.125	5	62021-125
1	1	1-1/4	3	0.125	5	62026-125
3/4	3/4	1	3	0.190	5	62021-190
1	1	1-1/4	3	0.190	5	62026-190
7/16	7/16	1	2-3/4	0.060	5	62009-060
1/2	1/2	1-1/4	3	0.060	5	62014-060
5/8	5/8	1-5/8	3-1/2	0.060	5	62018-060
3/4	3/4	1-5/8	4	0.060	5	62022-060
1	1	2	4	0.060	5	62027-060
7/16	7/16	1	2-3/4	0.090	5	62009-090
1/2	1/2	1-1/4	3	0.090	5	62014-090
5/8	5/8	1-5/8	3-1/2	0.090	5	62018-090



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Flute Diam.	Shank Diam.	Overall Length	Length Of Cut	Radius	#F	TiAlN
3/4	3/4	1-5/8	4	0.090	5	62022-090
1	1	2	4	0.090	5	62027-090
7/16	7/16	1	2-3/4	0.125	5	62009-125
1/2	1/2	1-1/4	3	0.125	5	62014-125
5/8	5/8	1-5/8	3-1/2	0.125	5	62018-125
3/4	3/4	1-5/8	4	0.125	5	62022-125
1	1	2	4	0.125	5	62027-125
3/4	3/4	1-5/8	4	0.190	5	62022-190
1	1	2	4	0.190	5	62027-190