



Niagara Cutter

**A345** - 3 Flutes 45° Helix Solid Carbide Single-End Mill *Elite* Series  
for Aluminum  
Center-Cutting

Full Form Ground Flute  
Eccentric Primary Relief  
Ultra High Transverse Rupture Strength  
Cylindrical Land  
Extra-Fine Grain Carbide  
Ideal for Slotting  
Weldon Flat on Shank Sizes  $\geq 3/8$ "

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	#F	Uncoat	TiN	Suggested	
							TiCN	TiAlN
1/8	1/8	1/4	1-1/2	3	61534	61580	61626	61672
1/8	1/8	3/8	1-1/2	3	61535	61581	61627	61673
5/32	3/16	5/16	2	3	61536	61582	61628	61674
5/32	3/16	1/2	2	3	61537	61583	61629	61675
3/16	3/16	5/16	2	3	61538	61584	61630	61676
3/16	3/16	9/16	2	3	61539	61585	61631	61677
7/32	1/4	3/8	2-1/2	3	61540	61586	61632	61678
7/32	1/4	3/4	2-1/2	3	61541	61587	61633	61679
1/4	1/4	3/8	2-1/2	3	61542	61588	61634	61680
1/4	1/4	3/4	2-1/2	3	61543	61589	61635	61681
1/4	1/4	1-1/4	4	3	61544	61590	61636	61682
9/32	5/16	7/16	2-1/2	3	61545	61591	61637	61683
9/32	5/16	13/16	2-1/2	3	61546	61592	61638	61684
5/16	5/16	7/16	2-1/2	3	61547	61593	61639	61685
5/16	5/16	13/16	2-1/2	3	61548	61594	61640	61686
5/16	5/16	1-1/4	3-1/2	3	61549	61595	61641	61687
5/16	5/16	2-1/4	4	3	61550	61596	61642	61688
11/32	3/8	1/2	2-1/2	3	61551	61597	61643	61689
11/32	3/8	1	2-1/2	3	61552	61598	61644	61690
3/8	3/8	1/2	2-1/2	3	61553	61599	61645	61691
3/8	3/8	1	2-1/2	3	61554	61600	61646	61692
3/8	3/8	1-1/2	4	3	61555	61601	61647	61693
13/32	7/16	9/16	2-3/4	3	61556	61602	61648	61694
13/32	7/16	1	2-3/4	3	61557	61603	61649	61695
7/16	7/16	9/16	2-3/4	3	61558	61604	61650	61696



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Flute Diam.	Shank Diam.	Length Of Cut	Overall Length	#F	Uncoat	TiN	Suggested	
							TiCN	TiAlN
7/16	7/16	1	2-3/4	3	61559	61605	61651	61697
15/32	1/2	5/8	3	3	61560	61606	61652	61698
15/32	1/2	1-1/4	3	3	61561	61607	61653	61699
1/2	1/2	5/8	3	3	61562	61608	61654	61700
1/2	1/2	1-1/4	3	3	61563	61609	61655	61701
1/2	1/2	2	4	3	61564	61610	61656	61702
1/2	1/2	3-1/8	6	3	61565	61611	61657	61703
5/8	5/8	3/4	3	3	61566	61612	61658	61704
5/8	5/8	1-5/8	3-1/2	3	61567	61613	61659	61705
5/8	5/8	2-1/2	5	3	61568	61614	61660	61706
5/8	5/8	3-3/4	6	3	61569	61615	61661	61707
3/4	5/8	1	3	3	61570	61616	61662	61708
3/4	5/8	1-5/8	4	3	61571	61617	61663	61709
3/4	5/8	2-1/4	5	3	61572	61618	61664	61710
3/4	5/8	3-1/4	6	3	61573	61619	61665	61711
3/4	5/8	4	6-1/2	3	61574	61620	61666	61712
1	1	1-1/4	4	3	61575	61621	61667	61713
1	1	2	4	3	61576	61622	61668	61714
1	1	2-5/8	6	3	61577	61623	61669	61715
1	1	3-1/4	6	3	61578	61624	61670	61716
1	1	4-1/8	7	3	61579	61625	61671	61717