



Niagara Cutter



NEW

FROM NIAGARA CUTTER!

STUB

LENGTH DOUBLE-END

SOLID CARBIDE END MILLS





2 Flute Carbide End Mill General Purpose

CSD230 - 2 Flute Double-End Stub Length Solid-Carbide End Mill

Price Code C

											TiAlN Recommended		
Flute Dia	Shank Dia	Length of Cut	Overall Length	# F	Uncoated		TiN	TiN	TiCN	TiCN	TiAlN	TiAlN	
					EDP	List	EDP	List	EDP	List	EDP	List	
1/32	1/8	1/16	1 1/2	2	89650	\$12.40	89651	\$13.40	89652	\$13.80	89653	\$13.80	
3/64	1/8	3/32	1 1/2	2	89654	\$12.40	89655	\$13.40	89656	\$13.80	89657	\$13.80	
1/16	1/8	1/8	1 1/2	2	89658	\$10.40	89659	\$11.40	89660	\$11.80	89661	\$11.80	
5/64	1/8	1/8	1 1/2	2	89662	\$10.40	89663	\$11.40	89664	\$11.80	89665	\$11.80	
3/32	1/8	3/16	1 1/2	2	89666	\$10.40	89667	\$11.40	89668	\$11.80	89669	\$11.80	
7/64	1/8	3/16	1 1/2	2	89670	\$10.40	89671	\$11.40	89672	\$11.80	89673	\$11.80	
1/8	1/8	1/4	1 1/2	2	89674	\$9.20	89675	\$10.10	89676	\$10.50	89677	\$10.50	
9/64	3/16	5/16	2	2	89678	\$13.90	89679	\$15.10	89680	\$15.60	89681	\$15.60	
5/32	3/16	5/16	2	2	89682	\$13.90	89683	\$15.10	89684	\$15.60	89685	\$15.60	
11/64	3/16	5/16	2	2	89686	\$13.80	89687	\$15.00	89688	\$15.50	89689	\$15.50	
3/16	3/16	3/8	2	2	89690	\$13.30	89691	\$14.50	89692	\$15.00	89693	\$15.00	
13/64	1/4	1/2	2 1/2	2	89694	\$17.10	89695	\$19.60	89696	\$20.70	89697	\$20.70	
7/32	1/4	1/2	2 1/2	2	89698	\$17.10	89699	\$19.60	89700	\$20.70	89701	\$20.70	
15/64	1/4	1/2	2 1/2	2	89702	\$17.10	89703	\$19.60	89704	\$20.70	89705	\$20.70	
1/4	1/4	1/2	2 1/2	2	89706	\$17.10	89707	\$19.60	89708	\$20.70	89709	\$20.70	
9/32	5/16	1/2	2 1/2	2	89710	\$21.50	89711	\$25.20	89712	\$26.90	89713	\$26.90	
5/16	5/16	1/2	2 1/2	2	89714	\$21.50	89715	\$25.20	89716	\$26.90	89717	\$26.90	
11/32	3/8	9/16	2 1/2	2	89718	\$22.90	89719	\$26.60	89720	\$28.20	89721	\$28.20	
3/8	3/8	9/16	2 1/2	2	89722	\$22.90	89723	\$26.60	89724	\$28.20	89725	\$28.20	
7/16	7/16	9/16	2 3/4	2	89726	\$32.80	89727	\$37.40	89728	\$39.30	89729	\$39.30	
1/2	1/2	5/8	3	2	89730	\$38.90	89731	\$43.50	89732	\$45.40	89733	\$45.40	
Flute Dia.		+0.000"	-0.002"	Overall Length				+/-0.060"		Helix Angle		30°	
Shank Dia.		-0.0001"	-0.0004"	Length of Cut				1/16 to 5/16" +.030/-0.000"		21/64 to 1" +.060/-0.000"			



2 Flute Ball-End Solid-Carbide General Purpose End Mill

CSDB230 - 2 Flute Double-End Stub Length Ball-End Solid-Carbide End Mill

Price Code C

											TiAlN Recommended		
Flute Dia	Shank Dia	Length of Cut	Overall Length	# F	Uncoated		TiN	TiN	TiCN	TiCN	TiAlN	TiAlN	
					EDP	List	EDP	List	EDP	List	EDP	List	
1/32	1/8	1/16	1 1/2	2	89734	\$14.90	89735	\$15.90	89736	\$16.30	89737	\$16.30	
3/64	1/8	3/32	1 1/2	2	89738	\$14.90	89739	\$15.90	89740	\$16.30	89741	\$16.30	
1/16	1/8	1/8	1 1/2	2	89742	\$12.50	89743	\$13.50	89744	\$13.90	89745	\$13.90	
5/64	1/8	1/8	1 1/2	2	89746	\$12.50	89747	\$13.50	89748	\$13.90	89749	\$13.90	
3/32	1/8	3/16	1 1/2	2	89750	\$12.50	89751	\$13.50	89752	\$13.90	89753	\$13.90	
7/64	1/8	3/16	1 1/2	2	89754	\$12.50	89755	\$13.50	89756	\$13.90	89757	\$13.90	
1/8	1/8	1/4	1 1/2	2	89758	\$10.80	89759	\$11.70	89760	\$12.10	89761	\$12.10	
9/64	3/16	5/16	2	2	89762	\$16.70	89763	\$17.90	89764	\$18.40	89765	\$18.40	
5/32	3/16	5/16	2	2	89766	\$16.70	89767	\$17.90	89768	\$18.40	89769	\$18.40	
11/64	3/16	5/16	2	2	89770	\$16.60	89771	\$17.80	89772	\$18.30	89773	\$18.30	
3/16	3/16	3/8	2	2	89774	\$15.60	89775	\$16.90	89776	\$17.40	89777	\$17.40	
13/64	1/4	1/2	2 1/2	2	89778	\$20.50	89779	\$23.00	89780	\$24.10	89781	\$24.10	
7/32	1/4	1/2	2 1/2	2	89782	\$20.50	89783	\$23.00	89784	\$24.10	89785	\$24.10	
15/64	1/4	1/2	2 1/2	2	89786	\$20.50	89787	\$23.00	89788	\$24.10	89789	\$24.10	
1/4	1/4	1/2	2 1/2	2	89790	\$20.30	89791	\$22.80	89792	\$23.90	89793	\$23.90	
9/32	5/16	1/2	2 1/2	2	89794	\$25.30	89795	\$29.00	89796	\$30.70	89797	\$30.70	
5/16	5/16	1/2	2 1/2	2	89798	\$25.30	89799	\$29.00	89800	\$30.70	89801	\$30.70	
11/32	3/8	9/16	2 1/2	2	89802	\$26.90	89803	\$30.70	89804	\$32.30	89805	\$32.30	
3/8	3/8	9/16	2 1/2	2	89806	\$26.90	89807	\$30.70	89808	\$32.30	89809	\$32.30	
7/16	7/16	9/16	2 3/4	2	89810	\$38.50	89811	\$43.20	89812	\$45.10	89813	\$45.10	
1/2	1/2	5/8	3	2	89814	\$45.80	89815	\$50.40	89816	\$52.30	89817	\$52.30	
Flute Dia.		+0.000"	-0.002"	Overall Length				+/-0.060"		Helix Angle		30°	
Shank Dia.		-0.0001"	-0.0004"	Length of Cut				1/16 to 5/16" +.030/-0.000"		21/64 to 1" +.060/-0.000"			

4 Flute Carbide End Mill General Purpose



CSD430 - 4 Flute Double-End Stub Length Solid-Carbide End Mill

Price Code C

											TiAlN Recommended	
Flute Dia	Shank Dia	Length of Cut	Overall Length	# F	Uncoated		TiN	TiN	TiCN	TiCN	TiAlN	TiAlN
					EDP	List	EDP	List	EDP	List	EDP	List
1/32	1/8	1/16	1 1/2	4	89818	\$12.40	89819	\$13.40	89820	\$13.80	89821	\$13.80
3/64	1/8	3/32	1 1/2	4	89822	\$12.40	89823	\$13.40	89824	\$13.80	89825	\$13.80
1/16	1/8	1/8	1 1/2	4	89826	\$10.40	89827	\$11.40	89828	\$11.80	89829	\$11.80
5/64	1/8	1/8	1 1/2	4	89830	\$10.40	89831	\$11.40	89832	\$11.80	89833	\$11.80
3/32	1/8	3/16	1 1/2	4	89834	\$10.40	89835	\$11.40	89836	\$11.80	89837	\$11.80
7/64	1/8	3/16	1 1/2	4	89838	\$10.40	89839	\$11.40	89840	\$11.80	89841	\$11.80
1/8	1/8	1/4	1 1/2	4	89842	\$9.20	89843	\$10.10	89844	\$10.50	89845	\$10.50
9/64	3/16	5/16	2	4	89846	\$13.90	89847	\$15.10	89848	\$15.60	89849	\$15.60
5/32	3/16	5/16	2	4	89850	\$13.90	89851	\$15.10	89852	\$15.60	89853	\$15.60
11/64	3/16	5/16	2	4	89854	\$13.80	89855	\$15.00	89856	\$15.50	89857	\$15.50
3/16	3/16	3/8	2	4	89858	\$13.30	89859	\$14.50	89860	\$15.00	89861	\$15.00
13/64	1/4	1/2	2 1/2	4	89862	\$17.10	89863	\$19.60	89864	\$20.70	89865	\$20.70
7/32	1/4	1/2	2 1/2	4	89866	\$17.10	89867	\$19.60	89868	\$20.70	89869	\$20.70
15/64	1/4	1/2	2 1/2	4	89870	\$17.10	89871	\$19.60	89872	\$20.70	89873	\$20.70
1/4	1/4	1/2	2 1/2	4	89874	\$17.10	89875	\$19.60	89876	\$20.70	89877	\$20.70
9/32	5/16	1/2	2 1/2	4	89878	\$21.50	89879	\$25.20	89880	\$26.90	89881	\$26.90
5/16	5/16	1/2	2 1/2	4	89882	\$21.50	89883	\$25.20	89884	\$26.90	89885	\$26.90
11/32	3/8	9/16	2 1/2	4	89886	\$22.90	89887	\$26.60	89888	\$28.20	89889	\$28.20
3/8	3/8	9/16	2 1/2	4	89890	\$22.90	89891	\$26.60	89892	\$28.20	89893	\$28.20
7/16	7/16	9/16	2 3/4	4	89894	\$32.80	89895	\$37.40	89896	\$39.30	89897	\$39.30
1/2	1/2	5/8	3	4	89898	\$38.90	89899	\$43.50	89900	\$45.40	89901	\$45.40
Flute Dia.		+0.000"	-0.002"	Overall Length		+/-0.060"				Helix Angle		30°
Shank Dia.		-0.0001"	-0.0004"	Length of Cut		1/16 to 5/16" +.030/-.000"				21/64 to 1" +.060/-.000"		

4 Flute Ball-End Solid Carbide General Purpose End Mill



CSD430 - 4 Flute Double-End Stub Length Ball-End Solid-Carbide End Mill

Price Code C

											TiAlN Recommended	
Flute Dia	Shank Dia	Length of Cut	Overall Length	# F	Uncoated		TiN	TiN	TiCN	TiCN	TiAlN	TiAlN
					EDP	List	EDP	List	EDP	List	EDP	List
1/32	1/8	1/16	1 1/2	4	89902	\$14.90	89903	\$15.90	89904	\$16.30	89905	\$16.30
3/64	1/8	3/32	1 1/2	4	89906	\$14.90	89907	\$15.90	89908	\$16.30	89909	\$16.30
1/16	1/8	1/8	1 1/2	4	89910	\$12.50	89911	\$13.50	89912	\$13.90	89913	\$13.90
5/64	1/8	1/8	1 1/2	4	89914	\$12.50	89915	\$13.50	89916	\$13.90	89917	\$13.90
3/32	1/8	3/16	1 1/2	4	89918	\$12.50	89919	\$13.50	89920	\$13.90	89921	\$13.90
7/64	1/8	3/16	1 1/2	4	89922	\$12.50	89923	\$13.50	89924	\$13.90	89925	\$13.90
1/8	1/8	1/4	1 1/2	4	89926	\$10.80	89927	\$11.70	89928	\$12.10	89929	\$12.10
9/64	3/16	5/16	2	4	89930	\$16.70	89931	\$17.90	89932	\$18.40	89933	\$18.40
5/32	3/16	5/16	2	4	89934	\$16.70	89935	\$17.90	89936	\$18.40	89937	\$18.40
11/64	3/16	5/16	2	4	89938	\$16.60	89939	\$17.80	89940	\$18.30	89941	\$18.30
3/16	3/16	3/8	2	4	89942	\$15.60	89943	\$16.90	89944	\$17.40	89945	\$17.40
13/64	1/4	1/2	2 1/2	4	89946	\$20.50	89947	\$23.00	89948	\$24.10	89949	\$24.10
7/32	1/4	1/2	2 1/2	4	89950	\$20.50	89951	\$23.00	89952	\$24.10	89953	\$24.10
15/64	1/4	1/2	2 1/2	4	89954	\$20.50	89955	\$23.00	89956	\$24.10	89957	\$24.10
1/4	1/4	1/2	2 1/2	4	89958	\$20.30	89959	\$22.80	89960	\$23.90	89961	\$23.90
9/32	5/16	1/2	2 1/2	4	89962	\$25.30	89963	\$29.00	89964	\$30.70	89965	\$30.70
5/16	5/16	1/2	2 1/2	4	89966	\$25.30	89967	\$29.00	89968	\$30.70	89969	\$30.70
11/32	3/8	9/16	2 1/2	4	89970	\$26.90	89971	\$30.70	89972	\$32.30	89973	\$32.30
3/8	3/8	9/16	2 1/2	4	89974	\$26.90	89975	\$30.70	89976	\$32.30	89977	\$32.30
7/16	7/16	9/16	2 3/4	4	89978	\$38.50	89979	\$43.20	89980	\$45.10	89981	\$45.10
1/2	1/2	5/8	3	4	89982	\$45.80	89983	\$50.40	89984	\$52.30	89985	\$52.30
Flute Dia.		+0.000"	-0.002"	Overall Length		+/-0.060"				Helix Angle		30°
Shank Dia.		-0.0001"	-0.0004"	Length of Cut		1/16 to 5/16" +.030/-.000"				21/64 to 1" +.060/-.000"		



NC2000 provides complete ordering information for all of Niagara Cutters offerings. Features an eight page pictorial index with a product photo of every series. Tolerance information has been included with additional technical information throughout the catalog.



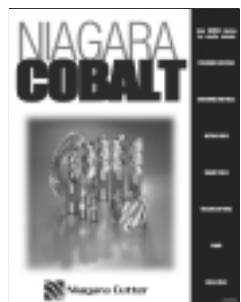
EDP2000 is a quick reference price list. Product EDP numbers are listed sequentially by EDP number. EDP2000 provides list price, series and page location in NC2000.



SC2000 provides complete ordering information on the Solid Carbide products from Niagara Cutter. Featuring the new **ELITE** Series of High Performance Solid Carbide end mills designed for maximum productivity in Aluminum, Steel, Stainless Steel and Titanium.



AL599 introduces A337, a high performance three flute finishing end mill for milling aluminum. In addition, the AL599 bulletin combines all the Niagara Cutter end mill products that are used in aluminum milling. The bulletin also introduces AR330, a three flute solid carbide roughing end mill for aluminum.



EX2000 is a complete listing of Niagara Cutter's extensive Cobalt offering. Highlighting the new **EXCEL** Series of High Performance Super Cobalt End Mills, EX2000 provides information on all Niagara's Cobalt products ranging from Finishing and Roughing End Mills to Milling Cutters, Shell Mills and Saws.



The Niagara Cutter Optimizer CD provides speed and feed guidelines for over 200 material types. Also included is Niagara Cutters Corporate video and the Concepts in Milling Handbook.



Niagara Cutter

150 South Fifth Street
Reynoldsville, PA 15851-0279 USA
Phone: 814.653.8211 • Fax: 814.653.8433
800.861.6111