



®

C**CLEVELAND****BUY 2 GET 1 FREE****Carbide End Mills****TAKE ADVANTAGE OF THIS SPECIAL OFFER****MAY 1ST THROUGH JULY 31ST, 2016**

For use in general milling applications in medium to low-carbon steels, cast iron, non-ferrous light metals, and plastics.

30° right-hand spiral, right-hand cut helix designed for maximum chip clearance.

No Mixing of Diameters is Permitted

TiAlN surface treatment. Premium Sub-Micron Carbide provides superior performance.

2, 3, and 4 flute configurations. Square End (including radius') and Ball Nose End geometries. Multiple lengths in select styles and sizes.

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Promo Code: CTDCARB16

Surface Treatment: TiALN
No Mixing of Diameters is Permitted

Size	Shank Diameter	Length of Cut	Radius	CEM-SE2 2-Flute Square end	CEM-SE2B 2-Flute Ball end	CEM-SE3 3-Flute Square end	CEM-SE4 4-Flute Square end	CEM-SE4B 4-Flute Ball end
1/32	1/8	1/16	0.000	—	—	—	C81805	C83509
1/32	1/8	1/8	0.000	C81001	C80914	—	C81806	C83510
1/32	1/8	3/32	0.000	—	—	—	—	C83511
3/64	1/8	1/8	0.000	C81002	C80915	—	C81807	C83512
1/16	1/8	1/8	0.000	C81003	C80916	—	C81808	C83513
1/16	1/8	3/16	0.000	C81004	C80917	C81657	C81809	C83514
1/16	1/8	1/4	0.010	—	—	—	C81810	—
5/64	1/8	3/16	0.000	C81005	C80918	C81658	C81811	C83515
3/32	1/8	3/16	0.000	C81006	—	—	C81812	C83517
3/32	1/8	3/8	0.000	C81007	C80919	C81659	C81813	C83516
3/32	1/8	3/8	0.010	—	—	—	C81814	—
3/32	1/8	3/8	0.020	—	—	—	C81815	—
7/64	1/8	1/4	0.000	—	—	—	C81816	—
7/64	1/8	3/8	0.000	C81008	C80920	C81660	C81817	C83518
1/8	1/8	1/4	0.000	C81009	C80921	—	C81818	C83519
1/8	1/8	1/2	0.000	C81010	C80922	C81661	C81819	C83520
1/8	1/8	1/2	0.010	C81011	—	C81662	C81820	—
1/8	1/8	1/2	0.015	—	—	—	C81821	—
1/8	1/8	1/2	0.020	—	—	—	C81822	—
1/8	1/8	5/8	0.000	—	—	—	—	C83521
1/8	1/8	3/4	0.000	C81012	C80923	—	C81824	C83522
1/8	1/8	1	0.000	C81013	C80924	—	C81825	C83523
9/64	3/16	9/16	0.000	C81014	C80925	C81663	C81827	C83524
5/32	3/16	5/16	0.000	—	—	—	C81828	C83525
5/32	3/16	9/16	0.000	C81015	C80926	C81664	C81829	C83526
11/64	3/16	5/8	0.000	C81016	C80927	C81665	C81830	C83527
3/16	3/16	5/16	0.000	C81017	C80928	—	C81831	C83528
3/16	3/16	5/8	0.000	C81018	C80929	C81666	C81832	C83529
3/16	3/16	5/8	0.010	C81019	—	C81667	C81833	—
3/16	3/16	5/8	0.015	—	—	—	C81834	—
3/16	3/16	5/8	0.020	—	—	—	C81835	—
3/16	3/16	5/8	0.030	—	—	—	C81836	—
3/16	3/16	3/4	0.000	C81020	C80930	—	C81837	C83530
3/16	3/16	1	0.000	—	—	—	C81838	—
3/16	3/16	1	0.045	—	—	—	C81839	—
3/16	3/16	1-1/8	0.000	C81021	C80931	—	C81840	C83531
3/16	3/16	1	0.000	—	—	—	C81841	—
3/16	3/16	1	0.045	—	—	—	C81842	—
13/64	1/4	5/8	0.000	C81022	C80932	C81668	C81843	C83532
7/32	1/4	5/8	0.000	C81023	C80933	C81669	C81844	C83533
15/64	1/4	3/4	0.000	C81024	C80934	C81670	C81845	C83534
1/4	1/4	1/2	0.000	C81025	C80935	—	C81846	C83535
1/4	1/4	3/4	0.000	C81026	C80936	C81671	C81847	C83536
1/4	1/4	3/4	0.010	—	—	—	C81848	—
1/4	1/4	3/4	0.015	—	—	—	C81849	—

5/1-7/31/16

Special Promotion - Buy 2 Get 1 Free
Surface Treatment: **TiALN**

No Mixing of Diameters is Permitted

Size	Shank Diameter	Length of Cut	Radius	CEM-SE2 2-Flute Square end	CEM-SE2B 2-Flute Ball end	CEM-SE3 3-Flute Square end	CEM-SE4 4-Flute Square end	CEM-SE4B 4-Flute Ball end
1/4	1/4	3/4	0.020	C81027	—	C81672	C81850	—
1/4	1/4	3/4	0.030	C81028	—	C81673	C81851	—
1/4	1/4	3/4	0.045	—	—	—	C81852	—
1/4	1/4	3/4	0.060	—	—	—	C81853	—
1/4	1/4	1	0.000	—	—	—	—	C83537
1/4	1/4	1-1/8	0.000	C81029	C80937	—	C81854	C83538
1/4	1/4	1-1/2	0.000	C81030	C80938	—	C81855	C83539
1/4	1/4	1-1/2	0.000	C81031	C80939	—	C81856	C83540
17/64	5/16	3/4	0.000	C81032	C80940	C81674	C81857	C83541
9/32	5/16	3/4	0.000	C81033	C80941	C81675	C81858	C83542
19/64	5/16	7/8	0.000	—	—	—	C81859	—
5/16	5/16	1/2	0.000	C81034	C80942	—	C81860	C83543
5/16	5/16	13/16	0.000	C81035	C80943	C81676	C81861	C83544
5/16	5/16	13/16	0.020	C81036	—	C81677	C81862	—
5/16	5/16	13/16	0.030	C81037	—	C81678	C81863	—
5/16	5/16	1	0.000	—	—	—	C81864	—
5/16	5/16	1-1/8	0.000	C81038	C80944	—	C81865	C83545
5/16	5/16	1-5/8	0.000	C81039	C80945	—	C81866	C83546
21/64	3/8	7/8	0.000	—	—	—	C81867	—
11/32	3/8	7/8	0.000	—	—	—	C81868	—
23/64	3/8	7/8	0.000	—	—	—	C81869	C83547
3/8	3/8	5/8	0.000	C81040	C80946	—	C81870	C83548
3/8	3/8	7/8	0.000	—	—	C81679	—	—
3/8	3/8	7/8	0.020	—	—	C81680	—	—
3/8	3/8	7/8	0.030	—	—	C81681	—	—
3/8	3/8	7/8	0.045	—	—	C81682	—	—
3/8	3/8	1	0.000	C81041	C80947	—	C81871	C83549
3/8	3/8	1	0.010	—	—	—	C81872	—
3/8	3/8	1	0.015	—	—	—	C81873	—
3/8	3/8	1	0.020	C81042	—	—	C81874	—
3/8	3/8	1	0.030	C81043	—	—	C81875	—
3/8	3/8	1	0.045	C81044	—	—	C81876	—
3/8	3/8	1	0.060	—	—	—	C81877	—
3/8	3/8	1	0.000	—	—	—	C81879	—
3/8	3/8	1	0.020	—	—	—	C81880	—
3/8	3/8	1-1/8	0.000	C81045	C80948	—	C81878	C83550
3/8	3/8	1-3/4	0.000	C81046	C80949	—	C81881	—
3/8	3/8	1-1/2	0.000	C81047	C80950	—	C81882	C83551
3/8	3/8	1-3/4	0.000	—	—	—	—	C83552
25/64	7/16	7/8	0.000	—	—	—	C81883	C83553
13/32	7/16	7/8	0.000	—	—	—	C81884	—
27/64	7/16	7/8	0.000	—	—	—	C81885	C83554
7/16	7/16	5/8	0.000	C81048	C80951	—	C81886	C83555
7/16	7/16	7/8	0.000	—	C80952	C81683	—	—
7/16	7/16	1	0.000	C81049	—	—	C81887	C83556

Surface Treatment: TiALN
No Mixing of Diameters is Permitted

Size	Shank Diameter	Length of Cut	Radius	CEM-SE2 2-Flute Square end	CEM-SE2B 2-Flute Ball end	CEM-SE3 3-Flute Square end	CEM-SE4 4-Flute Square end	CEM-SE4B 4-Flute Ball end
7/16	7/16	2	0.000	C81050	C80953	—	C81888	C83557
7/16	7/16	3	0.000	C81051	C80954	—	C81889	C83558
29/64	1/2	1	0.000	—	—	—	C81890	—
15/32	1/2	1	0.000	—	—	—	C81891	—
31/64	1/2	1	0.000	—	—	—	C81892	C83559
1/2	1/2	5/8	0.000	C81052	C80955	—	C81893	C83560
1/2	1/2	1	0.000	C81053	C80956	C81684	C81894	C83561
1/2	1/2	1	0.015	—	—	—	C81895	—
1/2	1/2	1	0.020	—	—	—	C81896	—
1/2	1/2	1	0.030	C81054	—	C81685	C81897	—
1/2	1/2	1	0.045	—	—	—	C81898	—
1/2	1/2	1	0.060	C81055	—	C81686	C81899	—
1/2	1/2	1	0.090	C81056	—	C81687	C81900	—
1/2	1/2	1	0.125	—	—	—	C81901	—
1/2	1/2	2	0.000	C81057	C80957	—	C81902	C83562
1/2	1/2	3	0.000	C81059	C80958	—	C81903	—
1/2	1/2	1-1/2	0.000	C81058	C80959	—	C81904	C83563
1/2	1/2	3	0.000	—	—	—	—	C83564
9/16	9/16	1-1/4	0.000	C81060	C80960	C81688	C81905	C83565
5/8	5/8	3/4	0.000	C81061	C80961	—	C81906	C83566
5/8	5/8	1-1/4	0.000	C81062	C80962	C81689	C81907	C83567
5/8	5/8	1-1/4	0.030	C81063	—	C81690	C81908	—
5/8	5/8	1-1/4	0.060	C81064	—	C81691	C81909	—
5/8	5/8	1-1/4	0.090	C81065	—	C81692	C81910	—
5/8	5/8	2-1/4	0.000	C81066	C80963	—	C81911	C83568
5/8	5/8	3	0.000	C81067	C80964	—	C81912	C83569
3/4	3/4	1	0.000	C81068	C80965	—	C81913	C83570
3/4	3/4	1-1/2	0.000	C81069	C80966	C81693	C81914	C83571
3/4	3/4	1-1/2	0.030	C81070	—	C81694	C81915	—
3/4	3/4	1-1/2	0.060	C81071	—	C81695	C81916	—
3/4	3/4	1-1/2	0.090	C81072	—	C81696	C81917	—
3/4	3/4	2-1/4	0.000	C81073	C80967	—	C81918	C83572
3/4	3/4	3	0.000	C81074	C80968	—	C81919	C83573
7/8	7/8	1-1/2	0.000	C81075	C80969	C81697	C81920	C83574
7/8	7/8	2-1/4	0.000	C81076	C80970	—	C81921	C83575
7/8	7/8	3	0.000	C81077	C80971	—	C81922	C83576
1	1	1-1/2	0.000	C81078	C80972	C81698	C81923	C83577
1	1	1-1/2	0.030	C81079	—	C81699	C81924	—
1	1	1-1/2	0.060	C81080	—	C81700	C81925	—
1	1	1-1/2	0.090	C81081	—	C81701	C81926	—
1	1	2-1/4	0.000	C81082	C80973	—	C81927	C83578
1	1	3	0.000	C81083	C80974	—	C81928	C83579