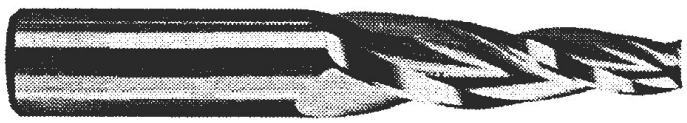
STANDARD CARBIDE

Flat Ends

A

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
1/2 DEG	KK-102-CB	3/32	1/2	1/8	2	0.10248	3 Flute
	KK-103-CB	3/32	3/4	1/8	2 1/2	0.10684	3 Flute
	KK-105-CB	3/32	1 1/4	1/8	3	0.11556	3 Flute
	KK-201-CB	1/8	1/4	3/16	2 1/2	0.12936	3 Flute
	KK-2015-CB	1/8	3/8	3/16	2 1/2	0.13154	3 Flute
	KK-202-CB	1/8	1/2	3/16	2 1/2	0.13373	3 Flute
	KK-203-CB	1/8	3/4	3/16	2 1/2	0.13809	3 Flute
	KK-204-CB	1/8	1	3/16	3	0.14245	3 Flute
	KK-205-CB	1/8	1 1/4	3/16	3	0.14681	3 Flute
	KK-206-CB	1/8	1 1/2	3/16	3 1/2	0.15118	3 Flute
	KK-303-CB	3/16	3/4	1/4	2 1/2	0.20059	3 Flute
	KK-305-CB	3/16	1 1/4	1/4	3	0.20931	3 Flute
	KK-307-CB	3/16	1 3/4	1/4	4	0.21804	3 Flute
	KK-313-CB	3/16	3 1/4	3/8	6	0.24421	3 Flute
	KK-403-CB	1/4	3/4	3/8	2 1/2	0.26309	3 Flute
	KK-405-CB	1/4	1 1/4	3/8	3	0.27181	3 Flute
	KK-409-CB	1/4	2 1/4	3/8	4 1/2	0.28926	3 Flute
	KK-413-CB	1/4	3 1/4	3/8	6	0.30671	3 Flute
	KK-605-CB	3/8	1 1/4	1/2	3 1/2	0.39681	3 Flute
	KK-609-CB	3/8	2 1/4	1/2	5	0.41426	3 Flute
	KK-613-CB	3/8	3 1/4	1/2	6	0.43171	3 Flute
	KK-805-CB	1/2	1 1/4	9/16	4	0.52181	3 Flute
	KK-809-CB	1/2	2 1/4	9/16	5	0.53926	3 Flute
	KK-813-CB	1/2	3 1/4	5/8	6	0.55671	3 Flute
	KK-1009-CB	5/8	2 1/4	3/4	5	0.66426	3 Flute
	KK-1013-CB	5/8	3 1/4	3/4	6	0.68171	3 Flute
	KK-1017-CB	5/8	4 1/4	3/4	7	0.69916	3 Flute
	KK-1209-CB	3/4	2 1/4	7/8	5	0.78926	3 Flute
	KK-1213-CB	3/4	3 1/4	7/8	6	0.80671	3 Flute
	KK-1217-CB	3/4	4 1/4	1	7	0.82416	3 Flute
	KK-1221-CB	3/4	5 1/4	1	8	0.84161	3 Flute

CALL FOR AVAILABILITY (847) 677-8770



TO ORDER COATINGS,
Add a suffix to the part number given above.
for TiAlN Coated, add the suffix “TiAlN”
for TiCN Coated, add the suffix “TiCN”
If no suffix is given uncoated Carbide will ship.

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
1 DEG	K-102-CB	3/32	1/2	1/8	2	0.11120	3 Flute
	K-103-CB	3/32	3/4	3/16	2 1/2	0.11993	3 Flute
	K-104-CB	3/32	1	3/16	3	0.12865	3 Flute
	K-105-CB	3/32	1 1/4	3/16	3	0.13738	3 Flute
	K-106-CB	3/32	1 1/2	1/4	3 1/2	0.14610	3 Flute
	K-201-CB	1/8	1/4	3/16	2 1/2	0.13373	3 Flute
	K-2015-CB	1/8	3/8	3/16	2 1/2	0.13809	3 Flute
	K-202-CB	1/8	1/2	3/16	2 1/2	0.14245	3 Flute
	K-203-CB	1/8	3/4	1/4	2 1/2	0.15118	3 Flute
	K-204-CB	1/8	1	1/4	3	0.15990	3 Flute
	K-205-CB	1/8	1 1/4	1/4	3	0.16863	3 Flute
	K-206-CB	1/8	1 1/2	1/4	3 1/2	0.17735	3 Flute
	K-208-CB	1/8	2	1/4	4	0.19480	3 Flute
	K-303-CB	3/16	3/4	1/4	2 1/2	0.21368	3 Flute
	K-305-CB	3/16	1 1/4	1/4	3	0.23113	3 Flute
	K-307-CB	3/16	1 3/4	1/4	4	0.24858	3 Flute
	K-308-CB	3/16	2	5/16	4	0.25730	3 Flute
	K-309-CB	3/16	2 1/4	3/8	4 1/2	0.26603	3 Flute
	K-310-CB	3/16	2 1/2	3/8	5	0.27475	3 Flute
	K-313-CB	3/16	3 1/4	3/8	6	0.30093	3 Flute
	K-403-CB	1/4	3/4	3/8	2 1/2	0.27618	3 Flute
	K-405-CB	1/4	1 1/4	3/8	3	0.29363	3 Flute
	K-406-CB	1/4	1 1/2	3/8	3 1/2	0.30235	3 Flute
	K-408-CB	1/4	2	3/8	4	0.31980	3 Flute
	K-409-CB	1/4	2 1/4	3/8	4 1/2	0.32853	3 Flute
	K-413-CB	1/4	3 1/4	3/8	6	0.36343	3 Flute
	K-605-CB	3/8	1 1/4	1/2	3 1/2	0.41863	3 Flute
	K-609-CB	3/8	2 1/4	1/2	5	0.45353	3 Flute
	K-613-CB	3/8	3 1/4	1/2	6	0.48843	3 Flute
	K-803-CB	1/2	3/4	5/8	3	0.52618	3 Flute
	K-805-CB	1/2	1 1/4	9/16	4	0.54363	3 Flute
	K-809-CB	1/2	2 1/4	5/8	5	0.57853	3 Flute
	K-813-CB	1/2	3 1/4	5/8	6	0.61343	3 Flute
	K-1009-CB	5/8	2 1/4	3/4	5	0.70353	3 Flute
	K-1013-CB	5/8	3 1/4	3/4	6	0.73843	3 Flute
	K-1017-CB	5/8	4 1/4	1	7	0.77333	3 Flute
	K-1209-CB	3/4	2 1/4	7/8	5	0.82853	3 Flute
	K-1213-CB	3/4	3 1/4	7/8	6	0.86343	3 Flute
	K-1217-CB	3/4	4 1/4	1	7	0.89833	3 Flute
	K-1221-CB	3/4	5 1/4	1	8	0.93323	3 Flute

A STANDARD CARBIDE

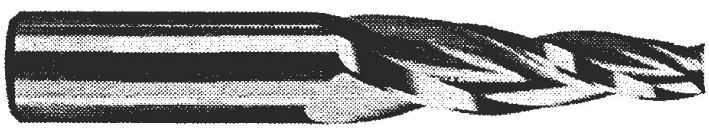
Flat Ends

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
1-1/2	KX-102-CB	3/32	1/2	3/16	2 1/2	0.11993	3 Flute
	KX-103-CB	3/32	3/4	1/4	2 1/2	0.13302	3 Flute
	KX-104-CB	3/32	1	1/4	3	0.14611	3 Flute
	KX-105-CB	3/32	1 1/4	3/16	3	0.15920	3 Flute
	KX-106-CB	3/32	1 1/2	1/4	3	0.17229	3 Flute
	KX-154-CB	7/64	1	3/16	3	0.16136	3 Flute
	KX-202-CB	1/8	1/2	3/16	2 1/2	0.15118	3 Flute
	KX-203-CB	1/8	3/4	1/4	2 1/2	0.16427	3 Flute
	KX-204-CB	1/8	1	3/16	3	0.17736	3 Flute
	KX-205-CB	1/8	1 1/4	1/4	3	0.19045	3 Flute
	KX-206-CB	1/8	1 1/2	1/4	3 1/2	0.20354	3 Flute
	KX-208-CB	1/8	2	1/4	4	0.22972	3 Flute
	KX-209-CB	1/8	2 1/4	5/16	4	0.24281	3 Flute
	KX-212-CB	1/8	3	3/8	5	0.28208	3 Flute
	KX-253-CB	5/32	3/4	1/4	2 1/2	0.19552	3 Flute
	KX-254-CB	5/32	1	1/4	3	0.20861	3 Flute
	KX-255-CB	5/32	1 1/4	1/4	3	0.22170	3 Flute
	KX-256-CB	5/32	1 1/2	1/4	3 1/2	0.23479	3 Flute
	KX-258-CB	5/32	2	5/16	4	0.26097	3 Flute
	KX-303-CB	3/16	3/4	3/8	2 1/2	0.22677	3 Flute
	KX-304-CB	3/16	1	1/4	3	0.23986	3 Flute
	KX-305-CB	3/16	1 1/4	3/8	3	0.25295	3 Flute
	KX-307-CB	3/16	1 3/4	3/8	3 1/2	0.27913	3 Flute
	KX-309-CB	3/16	2 1/4	3/8	4 1/2	0.30531	3 Flute
	KX-313-CB	3/16	3 1/4	3/8	6	0.35767	3 Flute
	KX-403-CB	1/4	3/4	3/8	2 1/2	0.28927	3 Flute
	KX-405-CB	1/4	1 1/4	3/8	3	0.31545	3 Flute
	KX-406-CB	1/4	1 1/2	3/8	3 1/2	0.32854	3 Flute
	KX-409-CB	1/4	2 1/4	3/8	4 1/2	0.36781	3 Flute
	KX-413-CB	1/4	3 1/4	1/2	6	0.42017	3 Flute
	KX-605-CB	3/8	1 1/4	1/2	3 1/2	0.44045	3 Flute
	KX-609-CB	3/8	2 1/4	1/2	5	0.49281	3 Flute
	KX-613-CB	3/8	3 1/4	9/16	6	0.54517	3 Flute
	KX-805-CB	1/2	1 1/4	5/8	3 1/2	0.56545	3 Flute
	KX-806-CB	1/2	1 1/2	5/8	3 1/2	0.57855	3 Flute
	KX-809-CB	1/2	2 1/4	5/8	5	0.61781	3 Flute
	KX-813-CB	1/2	3 1/4	3/4	6	0.67017	3 Flute
	KX-1009-CB	5/8	2 1/4	3/4	5	0.74281	3 Flute
	KX-1013-CB	5/8	3 1/4	7/8	6	0.79517	3 Flute
	KX-1017-CB	5/8	4 1/4	1	7	0.84753	3 Flute
	KX-1209-CB	3/4	2 1/4	7/8	5	0.86781	3 Flute
	KX-1213-CB	3/4	3 1/4	1	6	0.92017	3 Flute

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
2 DEG	L-102-CB	3/32	1/2	3/16	2 1/2	0.12867	3 Flute
	L-103-CB	3/32	3/4	1/4	2 1/2	0.14613	3 Flute
	L-104-CB	3/32	1	1/4	3	0.16359	3 Flute
	L-105-CB	3/32	1 1/4	1/4	3	0.18105	3 Flute
	L-202-CB	1/8	1/2	3/16	2 1/2	0.15992	3 Flute
	L-203-CB	1/8	3/4	1/4	2 1/2	0.17738	3 Flute
	L-204-CB	1/8	1	1/4	3	0.19484	3 Flute
	L-205-CB	1/8	1 1/4	1/4	3	0.21230	3 Flute
	L-206-CB	1/8	1 1/2	1/4	3 1/2	0.22976	3 Flute
	L-208-CB	1/8	2	5/16	4	0.26468	3 Flute
	L-210-CB	1/8	2 1/2	5/16	4	0.29960	3 Flute
	L-303-CB	3/16	3/4	1/4	2 1/2	0.23988	3 Flute
	L-305-CB	3/16	1 1/4	3/8	3	0.27480	3 Flute
	L-307-CB	3/16	1 3/4	3/8	3 1/2	0.30972	3 Flute
	L-309-CB	3/16	2 1/4	1/2	5	0.34464	3 Flute
	L-313-CB	3/16	3 1/4	1/2	6	0.41448	3 Flute
	L-403-CB	1/4	3/4	3/8	2 1/2	0.30238	3 Flute
	L-405-CB	1/4	1 1/4	3/8	3	0.33730	3 Flute
	L-408-CB	1/4	2	1/2	4	0.38968	3 Flute
	L-409-CB	1/4	2 1/4	1/2	5	0.40714	3 Flute
	L-413-CB	1/4	3 1/4	1/2	6	0.47698	3 Flute
	L-605-CB	3/8	1 1/4	1/2	3 1/2	0.46230	3 Flute
	L-609-CB	3/8	2 1/4	1/2	5	0.53214	3 Flute
	L-613-CB	3/8	3 1/4	5/8	6	0.60198	3 Flute
	L-805-CB	1/2	1 1/4	5/8	3 1/2	0.58730	3 Flute
	L-809-CB	1/2	2 1/4	3/4	5	0.65714	3 Flute
	L-813-CB	1/2	3 1/4	3/4	6	0.72698	3 Flute
	L-1009-CB	5/8	2 1/4	7/8	5	0.78214	3 Flute
	L-1013-CB	5/8	3 1/4	7/8	6	0.85198	3 Flute
	L-1017-CB	5/8	4 1/4	1	7	0.92182	3 Flute
	L-1209-CB	3/4	2 1/4	1	5	0.90714	3 Flute
	L-1213-CB	3/4	3 1/4	1	6	0.97698	3 Flute

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STANDARD CARBIDE

Flat Ends

A

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
3 DEG	M-103-CB	3/32	3/4	3/16	2 1/2	0.17237	3 Flute
	M-104-CB	3/32	1	1/4	3	0.19857	3 Flute
	M-105-CB	3/32	1 1/4	1/4	3	0.22478	3 Flute
	M-106-CB	3/32	1 1/2	1/4	3 1/2	0.25000	3 Flute
	M-107-CB	3/32	1 3/4	3/8	3 1/2	0.27719	3 Flute
	M-108-CB	3/32	2	5/16	4	0.30339	3 Flute
	M-110-CB	3/32	2 1/2	3/8	4 1/2	0.35580	3 Flute
	M-154-CB	7/64	1	1/4	3	0.21382	3 Flute
	M-155-CB	7/64	1 1/4	1/4	3	0.24003	3 Flute
	M-156-CB	7/64	1 1/2	5/16	3	0.26623	3 Flute
	M-158-CB	7/64	2	3/8	4	0.31864	3 Flute
	M-203-CB	1/8	3/4	1/4	2 1/2	0.20362	3 Flute
	M-204-CB	1/8	1	1/4	3	0.22982	3 Flute
	M-205-CB	1/8	1 1/4	3/8	3	0.25603	3 Flute
	M-206-CB	1/8	1 1/2	3/8	3 1/2	0.28223	3 Flute
	M-208-CB	1/8	2	3/8	4	0.33464	3 Flute
	M-209-CB	1/8	2 1/4	3/8	4 1/2	0.36085	3 Flute
	M-210-CB	1/8	2 1/2	7/16	4 1/2	0.38705	3 Flute
	M-212-CB	1/8	3	1/2	5	0.43946	3 Flute
	M-216-CB	1/8	4	9/16	6	0.54428	3 Flute
	M-253-CB	5/32	3/4	1/4	2 1/2	0.23487	3 Flute
	M-254-CB	5/32	1	3/8	3	0.26107	3 Flute
	M-255-CB	5/32	1 1/4	3/8	3	0.28728	3 Flute
	M-256-CB	5/32	1 1/2	3/8	3 1/2	0.31348	3 Flute
	M-257-CB	5/32	1 3/4	3/8	3 1/2	0.33969	3 Flute
	M-258-CB	5/32	2	3/8	4	0.36589	3 Flute
	M-303-CB	3/16	3/4	3/8	2 1/2	0.26612	3 Flute
	M-304-CB	3/16	1	3/8	3	0.29232	3 Flute
	M-305-CB	3/16	1 1/4	3/8	3	0.31853	3 Flute
	M-306-CB	3/16	1 1/2	3/8	3 1/2	0.34473	3 Flute
	M-308-CB	3/16	2	1/2	4	0.39714	3 Flute
	M-310-CB	3/16	2 1/2	1/2	5	0.44955	3 Flute
	M-313-CB	3/16	3 1/4	9/16	6	0.52817	3 Flute
	M-316-CB	3/16	4	5/8	6	0.60678	3 Flute
	M-320-CB	3/16	5	3/4	7	0.71160	3 Flute
	M-403-CB	1/4	3/4	3/8	2 1/2	0.32862	3 Flute
	M-404-CB	1/4	1	3/8	3	0.35482	3 Flute
	M-405-CB	1/4	1 1/4	3/8	3	0.37500	3 Flute
	M-408-CB	1/4	2	1/2	4	0.45964	3 Flute
	M-409-CB	1/4	2 1/4	1/2	5	0.48585	3 Flute
	M-413-CB	1/4	3 1/4	5/8	6	0.59067	3 Flute
	M-416-CB	1/4	4	3/4	6	0.66928	3 Flute
	M-420-CB	1/4	5	1	8	0.77410	3 Flute
3 DEG	M-504-CB	5/16	1	1/2	3	0.41782	3 Flute
	M-507-CB	5/16	1 3/4	1/2	4	0.49644	3 Flute
	M-604-CB	3/8	1	1/2	3	0.47982	3 Flute
	M-605-CB	3/8	1 1/4	1/2	3 1/2	0.50000	3 Flute
	M-609-CB	3/8	2 1/4	5/8	5	0.61085	3 Flute
	M-613-CB	3/8	3 1/4	3/4	6	0.71567	3 Flute
	M-616-CB	3/8	4	7/8	6	0.79428	3 Flute
	M-620-CB	3/8	5	1	8	0.89910	3 Flute
	M-805-CB	1/2	1 1/4	3/4	4	0.63103	3 Flute
	M-809-CB	1/2	2 1/4	3/4	5	0.73585	3 Flute
	M-813-CB	1/2	3 1/4	7/8	6	0.84067	3 Flute
	M-816-CB	1/2	4	1	7	0.91928	3 Flute
	M-1009-CB	5/8	2 1/4	7/8	5	0.86085	3 Flute
	M-1013-CB	5/8	3 1/4	1	6	0.95567	3 Flute
	M-1209-CB	3/4	2 1/4	1	5	0.98585	3 Flute
4 DEG	N-0004-CB	1/32	1	3/16	3	0.17111	2 Flute
	N-004-CB	1/16	1	1/4	3	0.20236	3 Flute
	N-103-CB	3/32	3/4	1/4	2 1/2	0.19865	3 Flute
	N-104-CB	3/32	1	1/4	3	0.23361	3 Flute
	N-203-CB	1/8	3/4	1/4	2 1/2	0.22990	3 Flute
	N-204-CB	1/8	1	3/8	3	0.26486	3 Flute
	N-206-CB	1/8	1 1/2	3/8	3 1/2	0.33479	3 Flute
	N-208-CB	1/8	2	1/2	4	0.40472	3 Flute
	N-210-CB	1/8	2 1/2	1/2	5	0.47465	3 Flute
	N-303-CB	3/16	3/4	3/8	2 1/2	0.29240	3 Flute
	N-305-CB	3/16	1 1/4	3/8	3	0.36233	3 Flute
	N-313-CB	3/16	3 1/4	3/4	6	0.64205	3 Flute
	N-316-CB	3/16	4	3/4	6	0.74694	3 Flute
	N-403-CB	1/4	3/4	3/8	2 1/2	0.35490	3 Flute
	N-405-CB	1/4	1 1/4	1/2	3 1/2	0.42483	3 Flute
	N-409-CB	1/4	2 1/4	5/8	5	0.56469	3 Flute
	N-413-CB	1/4	3 1/4	3/4	6	0.70455	3 Flute
	N-416-CB	1/4	4	1	7	0.80944	3 Flute
	N-605-CB	3/8	1 1/4	9/16	4	0.54983	3 Flute
	N-609-CB	3/8	2 1/4	3/4	5	0.68969	3 Flute
	N-613-CB	3/8	3 1/4	7/8	6	0.82955	3 Flute
	N-616-CB	3/8	4	1	7	0.93444	3 Flute
	N-805-CB	1/2	1 1/4	3/4	3 1/2	0.67483	3 Flute
	N-809-CB	1/2	2 1/4	7/8	5	0.81469	3 Flute
	N-813-CB	1/2	3 1/4	1	6	0.95455	3 Flute

Coatings are available including: TiCN and TiAlN

CALL FOR AVAILABILITY (847) 677-8770

A STANDARD CARBIDE

Flat Ends

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
5 DEG	O-102-CB	3/32	1/2	1/4	2 1/2	0.18124	3 Flute
	O-103-CB	3/32	3/4	1/4	2 1/2	0.22499	3 Flute
	O-104-CB	3/32	1	3/8	3	0.26873	3 Flute
	O-105-CB	3/32	1 1/4	3/8	3	0.31248	3 Flute
	O-106-CB	3/32	1 1/2	3/8	3 1/2	0.35622	3 Flute
	O-108-CB	3/32	2	1/2	4	0.44371	3 Flute
	O-155-CB	7/64	1 1/4	3/8	3	0.32773	3 Flute
	O-203-CB	1/8	3/4	1/4	2 1/2	0.25000	3 Flute
	O-204-CB	1/8	1	3/8	3	0.29998	3 Flute
	O-205-CB	1/8	1 1/4	3/8	3	0.34373	3 Flute
	O-206-CB	1/8	1 1/2	3/8	3 1/2	0.37500	3 Flute
	O-207-CB	1/8	1 3/4	1/2	4	0.43122	3 Flute
	O-208-CB	1/8	2	1/2	4	0.47496	3 Flute
	O-210-CB	1/8	2 1/2	5/8	5	0.56245	3 Flute
	O-212-CB	1/8	3	3/4	5	0.64994	3 Flute
	O-253-CB	5/32	3/4	3/8	2 1/2	0.28749	3 Flute
	O-254-CB	5/32	1	3/8	3	0.33123	3 Flute
	O-255-CB	5/32	1 1/4	3/8	3	0.37498	3 Flute
	O-256-CB	5/32	1 1/2	1/2	3 1/2	0.41872	3 Flute
	O-257-CB	5/32	1 3/4	1/2	4	0.46247	3 Flute
	O-258-CB	5/32	2	1/2	4	0.50000	3 Flute
	O-303-CB	3/16	3/4	3/8	2 1/2	0.31874	3 Flute
	O-304-CB	3/16	1	3/8	3	0.36248	3 Flute
	O-305-CB	3/16	1 1/4	1/2	3 1/2	0.40623	3 Flute
	O-306-CB	3/16	1 1/2	1/2	3 1/2	0.44997	3 Flute
	O-307-CB	3/16	1 3/4	1/2	4	0.49372	3 Flute
	O-308-CB	3/16	2	5/8	4	0.53746	3 Flute
	O-310-CB	3/16	2 1/2	5/8	5	0.62495	3 Flute
	O-312-CB	3/16	3	3/4	5	0.71244	3 Flute
	O-313-CB	3/16	3 1/4	7/8	6	0.75619	3 Flute
	O-316-CB	3/16	4	1	7	0.88742	3 Flute
	O-403-CB	1/4	3/4	1/2	3	0.38124	3 Flute
	O-404-CB	1/4	1	1/2	3	0.42498	3 Flute
	O-405-CB	1/4	1 1/4	1/2	3 1/2	0.46873	3 Flute
	O-406-CB	1/4	1 1/2	9/16	3 1/2	0.51247	3 Flute
	O-407-CB	1/4	1 3/4	5/8	4	0.55622	3 Flute
	O-408-CB	1/4	2	5/8	4	0.59996	3 Flute
	O-409-CB	1/4	2 1/4	3/4	5	0.64371	3 Flute
	O-410-CB	1/4	2 1/2	3/4	5	0.68745	3 Flute
	O-413-CB	1/4	3 1/4	7/8	6	0.81869	3 Flute
	O-416-CB	1/4	4	1	7	0.94992	3 Flute
	O-504-CB	5/16	1	1/2	3	0.48798	3 Flute
	O-507-CB	5/16	1 3/4	5/8	4	0.61872	3 Flute
5 DEG	O-509-CB	5/16	2 1/4	3/4	5	0.70671	3 Flute
	O-604-CB	3/8	1	5/8	3 1/2	0.54998	3 Flute
	O-605-CB	3/8	1 1/4	5/8	4	0.59373	3 Flute
	O-609-CB	3/8	2 1/4	7/8	5	0.76871	3 Flute
	O-613-CB	3/8	3 1/4	1	6	0.94369	3 Flute
	O-805-CB	1/2	1 1/4	3/4	4	0.71873	3 Flute
	O-806-CB	1/2	1 1/2	7/8	4	0.76247	3 Flute
	O-809-CB	1/2	2 1/4	1	5	0.89371	3 Flute
6 DEG	P-004-CB	1/16	1	5/16	3	0.27271	3 Flute
	P-104-CB	3/32	1	5/16	3	0.30396	3 Flute
	P-204-CB	1/8	1	3/8	3	0.33521	3 Flute
	P-406-CB	1/4	1 1/2	5/8	3 1/2	0.56530	3 Flute
7 DEG	R-0003-CB	1/32	3/4	1/4	2 1/2	0.21542	2 Flute
	R-0004-CB	1/32	1	3/8	3	0.27656	2 Flute
	R-001-CB	1/16	1/4	1/4	2	0.12389	3 Flute
	R-002-CB	1/16	1/2	1/4	2 1/2	0.18528	3 Flute
	R-003-CB	1/16	3/4	3/8	3	0.24667	3 Flute
	R-004-CB	1/16	1	3/8	3	0.30806	3 Flute
	R-054-CB	5/64	1	3/8	3	0.32356	3 Flute
	R-102-CB	3/32	1/2	1/4	2 1/2	0.21653	3 Flute
	R-104-CB	3/32	1	3/8	3	0.33931	3 Flute
	R-106-CB	3/32	1 1/2	1/2	3 1/2	0.46209	3 Flute
	R-202-CB	1/8	1/2	1/4	2 1/2	0.24778	3 Flute
	R-203-CB	1/8	3/4	3/8	2 1/2	0.30917	3 Flute
	R-204-CB	1/8	1	3/8	3	0.37056	3 Flute
	R-206-CB	1/8	1 1/2	1/2	3 1/2	0.49334	3 Flute
	R-208-CB	1/8	2	5/8	4	0.61612	3 Flute
	R-212-CB	1/8	3	7/8	5	0.86168	3 Flute
	R-253-CB	5/32	3/4	3/8	2 1/2	0.34042	3 Flute
	R-305-CB	3/16	1 1/4	1/2	3 1/2	0.49445	3 Flute
	R-403-CB	1/4	3/4	1/2	3	0.43417	3 Flute
	R-404-CB	1/4	1	1/2	3	0.49556	3 Flute
	R-405-CB	1/4	1 1/4	5/8	3 1/2	0.55695	3 Flute
	R-409-CB	1/4	2 1/4	7/8	5	0.80251	3 Flute
	R-605-CB	3/8	1 1/4	3/4	4	0.68195	3 Flute
	R-609-CB	3/8	2 1/4	1	5	0.92751	3 Flute
	R-805-CB	1/2	1 1/4	7/8	4	0.80695	3 Flute
	R-808-CB	1/2	2	1	5	0.99112	3 Flute
	R-809-CB	1/2	2 1/4	1	4 3/4	1.05251	4 Flute
8 DEG	8-202-CB	1/8	1/2	3/8	3	0.26550	
	8-203-CB	1/8	3/4	3/8	3	0.33581	

Coatings are available including: TiCN and TiAlN

STANDARD CARBIDE

Flat Ends

A

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
10 DEG	T-0002-CB	1/32	1/2	1/4	2 1/2	0.20758	2 Flute
	T-0003-CB	1/32	3/4	3/8	2 1/2	0.29575	2 Flute
	T-002-CB	1/16	1/2	3/8	2 1/2	0.23883	3 Flute
	T-002A-CB	1/16	1/2	1/4	2 1/2	0.23883	3 Flute
	T-003-CB	1/16	3/4	3/8	2 1/2	0.32700	3 Flute
	T-004-CB	1/16	1	1/2	3	0.41516	3 Flute
	T-005-CB	1/16	1 1/4	1/2	3 1/2	0.50000	3 Flute
	T-102-CB	3/32	1/2	3/8	2 1/2	0.27008	3 Flute
	T-102A-CB	3/32	.445	1/4	2 1/2	0.25000	3 Flute
	T-103-CB	3/32	3/4	3/8	2 1/2	0.35825	3 Flute
	T-106-CB	3/32	1 1/2	5/8	3 1/2	0.62274	3 Flute
	T-203-CB	1/8	3/4	3/8	2 1/2	0.37500	3 Flute
	T-204-CB	1/8	1	1/2	3	0.47766	3 Flute
	T-205-CB	1/8	1 1/4	5/8	3 1/2	0.56583	3 Flute
	T-206-CB	1/8	1 1/2	3/4	4	0.65399	3 Flute
	T-254-CB	5/32	1	1/2	3	0.50000	3 Flute
	T-258-CB	5/32	2	7/8	4	0.86132	3 Flute
	T-303-CB	3/16	3/4	1/2	3	0.45199	3 Flute
	T-305-CB	3/16	1 1/4	5/8	3 1/2	0.62500	3 Flute
	T-309-CB	3/16	2 1/4	1	5	0.98099	3 Flute
	T-403-CB	1/4	3/4	5/8	3	0.51450	3 Flute
	T-404-CB	1/4	1	5/8	3	0.60266	3 Flute
	T-405-CB	1/4	1 1/4	3/4	4	0.69083	3 Flute
	T-408-CB	1/4	2	1	5	0.95532	4 Flute
	T-605-CB	3/8	1 1/4	7/8	4	0.81583	3 Flute
	T-805-CB	1/2	1 1/4	1	4	0.94083	3 Flute
	T-809-CB	1/2	2 1/4	1	4 3/4	1.29349	4 Flute
11 DEG	TK-0003-CB	1/32	3/4	3/8	3	0.32282	2 Flute
	TK-003-CB	1/16	3/4	3/8	3	0.35407	3 Flute
	TK-103-CB	3/32	3/4	3/8	3	0.38532	3 Flute
	TK-203-CB	1/8	3/4	3/8	3	0.41657	3 Flute
12 DEG	TL-106-CB	3/32	1 1/2	5/8	4	0.73150	3 Flute
	TL-202-CB	1/8	1/2	3/8	2 1/2	0.33756	3 Flute
	TL-204-CB	1/8	1	9/16	3	0.55011	3 Flute
	TL-404-CB	1/4	1	3/4	3	0.67511	3 Flute

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
15 DEG	V-0001-CB	1/32	1/4	1/4	2	0.16523	2 Flute
	V-0003-CB	1/32	3/4	1/2	2 1/2	0.43318	2 Flute
	V-001-CB	1/16	1/4	1/4	2	0.19648	3 Flute
	V-003-CB	1/16	3/4	1/2	2 1/2	0.46443	3 Flute
	V-101-CB	3/32	1/4	1/4	2	0.22773	3 Flute
	V-102-CB	3/32	1/2	3/8	2 1/2	0.36170	3 Flute
	V-103-CB	3/32	3/4	1/2	3	0.49568	3 Flute
	V-104-CB	3/32	1	3/4	3	0.62965	3 Flute
	V-106-CB	3/32	1 1/2	1	4	0.89760	3 Flute
	V-202-CB	1/8	1/2	1/2	2 1/2	0.39295	3 Flute
	V-203-CB	1/8	11/16	1/2	3	0.50000	3 Flute
	V-204-CB	1/8	1	3/4	3	0.66090	3 Flute
	V-206-CB	1/8	1 1/2	1	4	0.92885	3 Flute
	V-206A-CB	1/8	1 1/2	1/2	4	0.92885	3 Flute
	V-304-CB	3/16	1	3/4	3	0.72340	3 Flute
	V-304A-CB	3/16	1	1/2	3	0.72340	3 Flute
	V-305-CB	3/16	1 1/4	7/8	4	0.85738	3 Flute
	V-404-CB	1/4	.933	3/4	3	0.75000	3 Flute
	V-404A-CB	1/4	1	1/2	3	0.78590	3 Flute
	V-405-CB	1/4	1 1/4	1	4	0.91988	3 Flute
	V-405A-CB	1/4	1 1/4	1/2	3 1/2	0.91988	3 Flute
	V-406-CB	1/4	1 1/2	3/4	4	1.05385	3 Flute
	V-504-CB	5/16	1	7/8	4	0.84890	3 Flute
	V-606-CB	3/8	1 1/2	3/4	4	1.17855	4 Flute
	V-805-CB	1/2	1 1/4	3/4	3 1/2	1.16988	4 Flute

CALL FOR AVAILABILITY (847) 677-8770

TO ORDER COATINGS,
Add a suffix to the part number given above.
for TiAlN Coated, add the suffix “TiAlN”
for TiCN Coated, add the suffix “TiCN”
If no suffix is given uncoated Carbide will ship.



A STANDARD CARBIDE

Flat Ends

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
20 DEG	W-0001-CB	1/32	1/4	1/4	2	0.21324	2 Flute
	W-0002-CB	1/32	1/2	1/2	2 1/2	0.39522	2 Flute
	W-001-CB	1/16	1/4	1/4	2	0.24449	3 Flute
	W-002-CB	1/16	1/2	1/2	2 1/2	0.42647	3 Flute
	W-102-CB	3/32	1/2	1/2	2 1/2	0.45772	3 Flute
	W-103-CB	3/32	3/4	3/4	3	0.63971	3 Flute
	W-202-CB	1/8	1/2	1/2	2 1/2	0.48897	3 Flute
	W-204-CB	1/8	1	1/2	3	0.85294	4 Flute
	W-304-CB	3/16	1	1/2	3	0.91594	4 Flute
	W-404-CB	1/4	1	1/2	3	0.97794	4 Flute
	W-406-CB	1/4	1 1/2	3/4	4	1.34191	4 Flute
	W-504-CB	5/16	1	3/4	3 1/4	1.04044	4 Flute
22. 5 DEG	225-204-CB	1/8	1	1/2	3	0.95350	4 Flute
25 DEG	X-001-CB	1/16	1/4	3/8	2 1/2	0.29566	3 Flute
	X-002-CB	1/16	1/2	3/8	2 1/2	0.52881	3 Flute
	X-101-CB	3/32	1/4	3/8	2 1/2	0.32691	3 Flute
	X-103-CB	3/32	3/4	1/2	3	0.79322	3 Flute
	X-201-CB	1/8	1/4	1/2	2 1/2	0.35816	3 Flute
	X-202-CB	1/8	1/2	1/2	2 1/2	0.59131	4 Flute
	X-204-CB	1/8	1	1/2	3	1.05762	4 Flute
	X-404-CB	1/4	1	5/8	3	1.18262	4 Flute

Taper Per Side	Tool No.	Tip Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
30 DEG	Z-0001-CB	1/32	1/4	3/8	2 1/2	0.31993	2 Flute
	Z-001-CB	1/16	1/4	3/8	2 1/2	0.35118	3 Flute
	Z-002-CB	1/16	1/2	3/8	2 1/2	0.63985	3 Flute
	Z-101-CB	3/32	1/4	3/8	2 1/2	0.37500	3 Flute
	Z-103-CB	3/32	3/4	1/2	3	0.95978	3 Flute
	Z-201-CB	1/8	1/4	1/2	2 1/2	0.41368	3 Flute
	Z-202-CB	1/8	1/2	1/2	2 1/2	0.70235	4 Flute
	Z-204-CB	1/8	1	1/2	3	1.27970	4 Flute
	Z-404-CB	1/4	1	3/4	3	1.40470	4 Flute
40 DEG	40-202-CB	1/8	1/2	1/2	2 5/8	0.96410	4 Flute
	40-203-CB	1/8	3/4	3/4	3 3/4	1.38370	4 Flute
45 DEG	45-2015-CB	1/8	5/16	1/2	2 1/2	0.75000	4 Flute
	45-202-CB	1/8	1/2	1/2	2 5/8	1.12500	4 Flute
	45-203-CB	1/8	3/4	5/8	3 1/4	1.62500	4 Flute

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