

**A****STANDARD CARBIDE****Ball Ends**

Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	Flute	Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	Flute
<b>1/2 DEG</b>	BKK-102-CB	3/32	1/2	1/8	2	0.10248	3 Flute	<b>1 DEG</b>	BK-102-CB	3/32	1/2	1/8	2	0.11120	3 Flute
	BKK-103-CB	3/32	3/4	1/8	2 1/2	0.10684	3 Flute		BK-103-CB	3/32	3/4	3/16	2 1/2	0.11993	3 Flute
	BKK-105-CB	3/32	1 1/4	1/8	3	0.11556	3 Flute		BK-104-CB	3/32	1	3/16	3	0.12865	3 Flute
	BKK-201-CB	1/8	1/4	3/16	2 1/2	0.12936	3 Flute		BK-105-CB	3/32	1 1/4	3/16	3	0.13738	3 Flute
	BKK-2015-CB	1/8	3/8	3/16	2 1/2	0.13154	3 Flute		BK-106-CB	3/32	1 1/2	1/4	3 1/2	0.14610	3 Flute
	BKK-202-CB	1/8	1/2	3/16	2 1/2	0.13373	3 Flute		BK-201-CB	1/8	1/4	3/16	2 1/2	0.13373	3 Flute
	BKK-203-CB	1/8	3/4	3/16	2 1/2	0.13809	3 Flute		BK-2015-CB	1/8	3/8	3/16	2 1/2	0.13809	3 Flute
	BKK-204-CB	1/8	1	3/16	3	0.14245	3 Flute		BK-202-CB	1/8	1/2	3/16	2 1/2	0.14245	3 Flute
	BKK-205-CB	1/8	1 1/4	3/16	3	0.14681	3 Flute		BK-203-CB	1/8	3/4	1/4	2 1/2	0.15118	3 Flute
	BKK-206-CB	1/8	1 1/2	3/16	3 1/2	0.15118	3 Flute		BK-204-CB	1/8	1	1/4	3	0.15990	3 Flute
	BKK-303-CB	3/16	3/4	1/4	2 1/2	0.20059	3 Flute		BK-205-CB	1/8	1 1/4	1/4	3	0.16863	3 Flute
	BKK-305-CB	3/16	1 1/4	1/4	3	0.20931	3 Flute		BK-206-CB	1/8	1 1/2	1/4	3 1/2	0.17735	3 Flute
	BKK-307-CB	3/16	1 3/4	1/4	4	0.21804	3 Flute		BK-208-CB	1/8	2	1/4	4	0.19480	3 Flute
	BKK-313-CB	3/16	3 1/4	3/8	6	0.24421	3 Flute		BK-303-CB	3/16	3/4	1/4	2 1/2	0.21368	3 Flute
	BKK-403-CB	1/4	3/4	3/8	2 1/2	0.26309	3 Flute		BK-305-CB	3/16	1 1/4	1/4	3	0.23113	3 Flute
	BKK-405-CB	1/4	1 1/4	3/8	3	0.27181	3 Flute		BK-307-CB	3/16	1 3/4	1/4	4	0.24858	3 Flute
	BKK-409-CB	1/4	2 1/4	3/8	4 1/2	0.28926	3 Flute		BK-308-CB	3/16	2	5/16	4	0.25730	3 Flute
	BKK-413-CB	1/4	3 1/4	3/8	6	0.30671	3 Flute		BK-309-CB	3/16	2 1/4	3/8	4 1/2	0.26603	3 Flute
	BKK-605-CB	3/8	1 1/4	1/2	3 1/2	0.39681	3 Flute		BK-310-CB	3/16	2 1/2	3/8	5	0.27475	3 Flute
	BKK-609-CB	3/8	2 1/4	1/2	5	0.41426	3 Flute		BK-313-CB	3/16	3 1/4	3/8	6	0.30093	3 Flute
BKK-613-CB	3/8	3 1/4	1/2	6	0.43171	3 Flute	BK-403-CB	1/4	3/4	3/8	2 1/2	0.27618	3 Flute		
BKK-805-CB	1/2	1 1/4	9/16	4	0.52181	3 Flute	BK-405-CB	1/4	1 1/4	3/8	3	0.29363	3 Flute		
BKK-809-CB	1/2	2 1/4	9/16	5	0.53926	3 Flute	BK-406-CB	1/4	1 1/2	3/8	3 1/2	0.30235	3 Flute		
BKK-813-CB	1/2	3 1/4	5/8	6	0.55671	3 Flute	BK-408-CB	1/4	2	3/8	4	0.31980	3 Flute		
BKK-1009-CB	5/8	2 1/4	3/4	5	0.66426	3 Flute	BK-409-CB	1/4	2 1/4	3/8	4 1/2	0.32853	3 Flute		
BKK-1013-CB	5/8	3 1/4	3/4	6	0.68171	3 Flute	BK-413-CB	1/4	3 1/4	3/8	6	0.36343	3 Flute		
BKK-1017-CB	5/8	4 1/4	3/4	7	0.69916	3 Flute	BK-605-CB	3/8	1 1/4	1/2	3 1/2	0.41863	3 Flute		
BKK-1209-CB	3/4	2 1/4	7/8	5	0.78926	3 Flute	BK-609-CB	3/8	2 1/4	1/2	5	0.45353	3 Flute		
BKK-1213-CB	3/4	3 1/4	7/8	6	0.80671	3 Flute	BK-613-CB	3/8	3 1/4	1/2	6	0.48843	3 Flute		
BKK-1217-CB	3/4	4 1/4	1	7	0.82416	3 Flute	BK-803-CB	1/2	3/4	5/8	3	0.52618	3 Flute		
BKK-1221-CB	3/4	5 1/4	1	8	0.84161	3 Flute	BK-805-CB	1/2	1 1/4	9/16	4	0.54363	3 Flute		
								BK-809-CB	1/2	2 1/4	5/8	5	0.57853	3 Flute	
								BK-813-CB	1/2	3 1/4	5/8	6	0.61343	3 Flute	
								BK-1009-CB	5/8	2 1/4	3/4	5	0.70353	3 Flute	
								BK-1013-CB	5/8	3 1/4	3/4	6	0.73843	3 Flute	
								BK-1017-CB	5/8	4 1/4	1	7	0.77333	3 Flute	
								BK-1209-CB	3/4	2 1/4	7/8	5	0.82853	3 Flute	
								BK-1213-CB	3/4	3 1/4	7/8	6	0.86343	3 Flute	
								BK-1217-CB	3/4	4 1/4	1	7	0.89833	3 Flute	
								BK-1221-CB	3/4	5 1/4	1	8	0.93323	3 Flute	

CALL FOR AVAILABILITY 1-888-531-0430

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.



# STANDARD CARBIDE

## Ball Ends



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

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

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

Coatings are available including: TiCN and TiAlN

# STANDARD CARBIDE

## Ball Ends



Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.		Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.		
<b>5 DEG</b>	BO-102-CB	3/32	1/2	1/4	2 1/2	0.18124	3 Flute	<b>5 DEG</b>	BO-509-CB	5/16	2 1/4	3/4	5	0.70671	3 Flute	
	BO-103-CB	3/32	3/4	1/4	2 1/2	0.22499	3 Flute		BO-604-CB	3/8	1	5/8	3 1/2	0.54998	3 Flute	
	BO-104-CB	3/32	1	3/8	3	0.26873	3 Flute		BO-605-CB	3/8	1 1/4	5/8	4	0.59373	3 Flute	
	BO-105-CB	3/32	1 1/4	3/8	3	0.31248	3 Flute		BO-609-CB	3/8	2 1/4	7/8	5	0.76871	3 Flute	
	BO-106-CB	3/32	1 1/2	3/8	3 1/2	0.35622	3 Flute		BO-613-CB	3/8	3 1/4	1	6	0.94369	3 Flute	
	BO-108-CB	3/32	2	1/2	4	0.44371	3 Flute		BO-805-CB	1/2	1 1/4	3/4	4	0.71873	3 Flute	
	BO-155-CB	7/64	1 1/4	3/8	3	0.32773	3 Flute		BO-806-CB	1/2	1 1/2	7/8	4	0.76247	3 Flute	
	BO-203-CB	1/8	3/4	1/4	2 1/2	0.25000	3 Flute		BO-809-CB	1/2	2 1/4	1	5	0.89371	3 Flute	
	BO-204-CB	1/8	1	3/8	3	0.29998	3 Flute		<b>6 DEG</b>	BP-004-CB	1/16	1	5/16	3	0.27271	3 Flute
	BO-205-CB	1/8	1 1/4	3/8	3	0.34373	3 Flute			BP-104-CB	3/32	1	5/16	3	0.30396	3 Flute
	BO-206-CB	1/8	1 1/2	3/8	3 1/2	0.37500	3 Flute			BP-204-CB	1/8	1	3/8	3	0.33521	3 Flute
	BO-207-CB	1/8	1 3/4	1/2	4	0.43122	3 Flute		<b>7 DEG</b>	BR-0003-CB	1/32	3/4	1/4	2 1/2	0.21542	2 Flute
	BO-208-CB	1/8	2	1/2	4	0.47496	3 Flute			BR-0004-CB	1/32	1	3/8	3	0.27656	2 Flute
	BO-210-CB	1/8	2 1/2	5/8	5	0.56245	3 Flute			BR-001-CB	1/16	1/4	1/4	2	0.12389	3 Flute
	BO-212-CB	1/8	3	3/4	5	0.64994	3 Flute			BR-002-CB	1/16	1/2	1/4	2 1/2	0.18528	3 Flute
	BO-253-CB	5/32	3/4	3/8	2 1/2	0.28749	3 Flute			BR-003-CB	1/16	3/4	3/8	3	0.24667	3 Flute
	BO-254-CB	5/32	1	3/8	3	0.33123	3 Flute			BR-004-CB	1/16	1	3/8	3	0.30806	3 Flute
	BO-255-CB	5/32	1 1/4	3/8	3	0.37498	3 Flute			BR-054-CB	5/64	1	3/8	3	0.32356	3 Flute
	BO-256-CB	5/32	1 1/2	1/2	3 1/2	0.41872	3 Flute			BR-102-CB	3/32	1/2	1/4	2 1/2	0.21653	3 Flute
	BO-257-CB	5/32	1 3/4	1/2	4	0.46247	3 Flute			BR-104-CB	3/32	1	3/8	3	0.33931	3 Flute
	BO-258-CB	5/32	2	1/2	4	0.50000	3 Flute			BR-106-CB	3/32	1 1/2	1/2	3 1/2	0.46209	3 Flute
	BO-303-CB	3/16	3/4	3/8	2 1/2	0.31874	3 Flute			BR-202-CB	1/8	1/2	1/4	2 1/2	0.24778	3 Flute
	BO-304-CB	3/16	1	3/8	3	0.36248	3 Flute			BR-203-CB	1/8	3/4	3/8	2 1/2	0.30917	3 Flute
	BO-305-CB	3/16	1 1/4	1/2	3 1/2	0.40623	3 Flute			BR-204-CB	1/8	1	3/8	3	0.37056	3 Flute
	BO-306-CB	3/16	1 1/2	1/2	3 1/2	0.44997	3 Flute			BR-206-CB	1/8	1 1/2	1/2	3 1/2	0.49334	3 Flute
	BO-307-CB	3/16	1 3/4	1/2	4	0.49372	3 Flute			BR-208-CB	1/8	2	5/8	4	0.61612	3 Flute
	BO-308-CB	3/16	2	5/8	4	0.53746	3 Flute		BR-212-CB	1/8	3	7/8	5	0.86168	3 Flute	
	BO-310-CB	3/16	2 1/2	5/8	5	0.62495	3 Flute		BR-253-CB	5/32	3/4	3/8	2 1/2	0.34042	3 Flute	
	BO-312-CB	3/16	3	3/4	5	0.71244	3 Flute		BR-305-CB	3/16	1 1/4	1/2	3 1/2	0.49445	3 Flute	
	BO-313-CB	3/16	3 1/4	7/8	6	0.75619	3 Flute		BR-403-CB	1/4	3/4	1/2	3	0.43417	3 Flute	
BO-316-CB	3/16	4	1	7	0.88742	3 Flute	BR-404-CB	1/4	1	1/2	3	0.49556	3 Flute			
BO-403-CB	1/4	3/4	1/2	3	0.38124	3 Flute	BR-405-CB	1/4	1 1/4	5/8	3 1/2	0.55695	3 Flute			
BO-404-CB	1/4	1	1/2	3	0.42498	3 Flute	BR-409-CB	1/4	2 1/4	7/8	5	0.80251	3 Flute			
BO-405-CB	1/4	1 1/4	1/2	3 1/2	0.46873	3 Flute	BR-605-CB	3/8	1 1/4	3/4	4	0.68195	3 Flute			
BO-406-CB	1/4	1 1/2	9/16	3 1/2	0.51247	3 Flute	BR-609-CB	3/8	2 1/4	1	5	0.92751	3 Flute			
BO-407-CB	1/4	1 3/4	5/8	4	0.55622	3 Flute	BR-805-CB	1/2	1 1/4	7/8	4	0.80695	3 Flute			
BO-408-CB	1/4	2	5/8	4	0.59996	3 Flute	BR-808-CB	1/2	2	1	5	0.99112	3 Flute			
BO-409-CB	1/4	2 1/4	3/4	5	0.64371	3 Flute	BR-809-CB	1/2	2 1/4	1	4 3/4	1.05251	4 Flute			
BO-410-CB	1/4	2 1/2	3/4	5	0.68745	3 Flute	<b>8 DEG</b>	B8-202-CB	1/8	1/2	3/8	3	0.26550	3 Flute		
BO-413-CB	1/4	3 1/4	7/8	6	0.81869	3 Flute		B8-203-CB	1/8	3/4	3/8	3	0.33581	3 Flute		
BO-416-CB	1/4	4	1	7	0.94992	3 Flute										
BO-504-CB	5/16	1	1/2	3	0.48798	3 Flute										
BO-507-CB	5/16	1 3/4	5/8	4	0.61872	3 Flute										

**A****STANDARD CARBIDE****Ball Ends**

Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.		Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.		
<b>10 DEG</b>	BT-0002-CB	1/32	1/2	1/4	2 1/2	0.20758	2 Flute	<b>15 DEG</b>	BV-203-CB	1/8	11/16	1/2	3	0.50000	3 Flute	
	BT-0003-CB	1/32	3/4	3/8	2 1/2	0.29575	2 Flute		BV-204-CB	1/8	1	3/4	3	0.66090	3 Flute	
	BT-002-CB	1/16	1/2	3/8	2 1/2	0.23883	3 Flute		BV-206-CB	1/8	1 1/2	1	4	0.92885	3 Flute	
	BT-002A-CB	1/16	1/2	1/4	2 1/2	0.23883	3 Flute		BV-206A-CB	1/8	1 1/2	1/2	4	0.92885	3 Flute	
	BT-003-CB	1/16	3/4	3/8	2 1/2	0.32700	3 Flute		BV-304-CB	3/16	1	3/4	3	0.72340	3 Flute	
	BT-004-CB	1/16	1	1/2	3	0.41516	3 Flute		BV-304A-CB	3/16	1	1/2	3	0.72340	3 Flute	
	BT-005-CB	1/16	1 1/4	1/2	3 1/2	0.50000	3 Flute		BV-305-CB	3/16	1 1/4	7/8	4	0.85738	3 Flute	
	BT-102-CB	3/32	1/2	3/8	2 1/2	0.27008	3 Flute		BV-404-CB	1/4	1	3/4	3	0.75000	3 Flute	
	BT-102A-CB	3/32	.445	1/4	2 1/2	0.25000	3 Flute		BV-404A-CB	1/4	1	1/2	3	0.78590	3 Flute	
	BT-103-CB	3/32	3/4	3/8	2 1/2	0.35825	3 Flute		BV-405-CB	1/4	1 1/4	1	4	0.91988	3 Flute	
	BT-106-CB	3/32	1 1/2	5/8	3 1/2	0.62274	3 Flute		BV-405A-CB	1/4	1 1/4	1/2	3 1/2	0.91988	3 Flute	
	BT-203-CB	1/8	3/4	3/8	2 1/2	0.37500	3 Flute		BV-406-CB	1/4	1 1/2	3/4	4	1.05385	3 Flute	
	BT-204-CB	1/8	1	1/2	3	0.47766	3 Flute		BV-504-CB	5/16	1	7/8	4	0.84890	3 Flute	
	BT-205-CB	1/8	1 1/4	5/8	3 1/2	0.56583	3 Flute		BV-606-CB	3/8	1 1/2	3/4	4	1.17855	4 Flute	
	BT-206-CB	1/8	1 1/2	3/4	4	0.65399	3 Flute		BV-805-CB	1/2	1 1/4	3/4	3 1/2	1.16988	4 Flute	
	BT-254-CB	5/32	1	1/2	3	0.50000	3 Flute		<b>20 DEG</b>	BW-0001-CB	1/32	1/4	1/4	2	0.21324	2 Flute
	BT-258-CB	5/32	2	7/8	4	0.86132	3 Flute			BW-0002-CB	1/32	1/2	1/2	2 1/2	0.39522	2 Flute
	BT-303-CB	3/16	3/4	1/2	3	0.45199	3 Flute			BW-001-CB	1/16	1/4	1/4	2	0.24449	3 Flute
	BT-305-CB	3/16	1 1/4	5/8	3 1/2	0.62500	3 Flute			BW-002-CB	1/16	1/2	1/2	2 1/2	0.42647	3 Flute
	BT-309-CB	3/16	2 1/4	1	5	0.98099	3 Flute			BW-102-CB	3/32	1/2	1/2	2 1/2	0.45772	3 Flute
	BT-403-CB	1/4	3/4	5/8	3	0.51450	3 Flute			BW-103-CB	3/32	3/4	3/4	3	0.63971	3 Flute
	BT-404-CB	1/4	1	5/8	3	0.60266	3 Flute			BW-202-CB	1/8	1/2	1/2	2 1/2	0.48897	3 Flute
	BT-405-CB	1/4	1 1/4	3/4	4	0.69083	3 Flute			BW-204-CB	1/8	1	1/2	3	0.85294	4 Flute
	BT-408-CB	1/4	2	1	5	0.95532	4 Flute		BW-304-CB	3/16	1	1/2	3	0.91594	4 Flute	
BT-605-CB	3/8	1 1/4	7/8	4	0.81583	3 Flute	BW-404-CB	1/4	1	1/2	3	0.97794	4 Flute			
BT-805-CB	1/2	1 1/4	1	4	0.94083	3 Flute	<b>25 DEG</b>	BX-001-CB	1/16	1/4	3/8	2 1/2	0.29566	3 Flute		
BT-809-CB	1/2	2 1/4	1	4 3/4	1.29349	4 Flute		BX-002-CB	1/16	1/2	3/8	2 1/2	0.52881	3 Flute		
<b>11 DEG</b>	BTK-0003-CB	1/32	3/4	3/8	3	0.32282		2 Flute	BX-101-CB	3/32	1/4	3/8	2 1/2	0.32691	3 Flute	
	BTK-003-CB	1/16	3/4	3/8	3	0.35407		3 Flute	BX-103-CB	3/32	3/4	1/2	3	0.79322	3 Flute	
	BTK-103-CB	3/32	3/4	3/8	3	0.38532	3 Flute	BX-201-CB	1/8	1/4	1/2	2 1/2	0.35816	3 Flute		
	BTK-203-CB	1/8	3/4	3/8	3	0.41657	3 Flute	BX-202-CB	1/8	1/2	1/2	2 1/2	0.59131	4 Flute		
<b>12 DEG</b>	BTL-106-CB	3/32	1 1/2	5/8	4	0.73150	3 Flute	BX-204-CB	1/8	1	1/2	3	1.05762	4 Flute		
	BTL-202-CB	1/8	1/2	3/8	2 1/2	0.33756	3 Flute	<b>30 DEG</b>	BZ-001-CB	1/16	1/4	3/8	2 1/2	0.35118	3 Flute	
	BTL-204-CB	1/8	1	9/16	3	0.55011	3 Flute		BZ-002-CB	1/16	1/2	3/8	2 1/2	0.63985	3 Flute	
BTL-404-CB	1/4	1	3/4	3	0.67511	3 Flute	BZ-101-CB		3/32	1/4	3/8	2 1/2	0.37500	3 Flute		
<b>15 DEG</b>	BV-0001-CB	1/32	1/4	1/4	2	0.16523	2 Flute		BZ-103-CB	3/32	3/4	1/2	3	0.95978	3 Flute	
	BV-0003-CB	1/32	3/4	1/2	2 1/2	0.43318	2 Flute		BZ-201-CB	1/8	1/4	1/2	2 1/2	0.41368	3 Flute	
	BV-001-CB	1/16	1/4	1/4	2	0.19648	3 Flute		BZ-202-CB	1/8	1/2	1/2	2 1/2	0.70235	4 Flute	
	BV-003-CB	1/16	3/4	1/2	2 1/2	0.46443	3 Flute		BZ-204-CB	1/8	1	1/2	3	1.27970	4 Flute	
	BV-101-CB	3/32	1/4	1/4	2	0.22773	3 Flute		BZ-404-CB	1/4	1	3/4	3	1.40470	4 Flute	
	BV-102-CB	3/32	1/2	3/8	2 1/2	0.36170	3 Flute	<b>45 DEG</b>	B45-2015-CB	1/8	5/16	1/2	2 1/2	0.75000	4 Flute	
	BV-103-CB	3/32	3/4	1/2	3	0.49568	3 Flute		B45-202-CB	1/8	1/2	1/2	2 5/8	1.12500	4 Flute	
	BV-104-CB	3/32	1	3/4	3	0.62965	3 Flute									
BV-106-CB	3/32	1 1/2	1	4	0.89760	3 Flute										
BV-202-CB	1/8	1/2	1/2	2 1/2	0.39295	3 Flute										

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