

HIGH SPEED STEEL & COBALT

Ball Ends



Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
1/2 DEG	BKK-102	3/32	1/2	3/8	2 1/2	0.10248	3 Flute
	BKK-103	3/32	3/4	3/8	2 5/8	0.10684	3 Flute
	BKK-105	3/32	1 1/4	3/8	3 1/8	0.11556	3 Flute
	BKK-201	1/8	1/4	3/8	2 1/2	0.12936	3 Flute
	BKK-202	1/8	1/2	3/8	2 1/2	0.13373	3 Flute
	BKK-203	1/8	3/4	3/8	2 1/2	0.13809	3 Flute
	BKK-204	1/8	1	3/8	2 7/8	0.14245	3 Flute
	BKK-205	1/8	1 1/4	3/8	3 1/8	0.14681	3 Flute
	BKK-206	1/8	1 1/2	3/8	3 1/4	0.15118	3 Flute
	BKK-303	3/16	3/4	3/8	2 1/2	0.20059	3 Flute
	BKK-305	3/16	1 1/4	3/8	3 1/8	0.20931	3 Flute
	BKK-307	3/16	1 3/4	3/8	3 7/8	0.21804	3 Flute
	BKK-309	3/16	2 1/4	3/8	4 1/2	0.22676	3 Flute
	BKK-313	3/16	3 1/4	3/8	5 1/2	0.24421	3 Flute
	BKK-403	1/4	3/4	3/8	2 1/2	0.26309	3 Flute
	BKK-405	1/4	1 1/4	3/8	3	0.27181	3 Flute
	BKK-409	1/4	2 1/4	1/2	4 1/4	0.28926	3 Flute
	BKK-409A	1/4	2 1/4	3/8	4 1/4	0.28926	3 Flute
	BKK-413	1/4	3 1/4	1/2	5 1/2	0.30671	3 Flute
	BKK-605	3/8	1 1/4	1/2	3 1/8	0.39681	3 Flute
	BKK-609	3/8	2 1/4	1/2	4 1/4	0.41426	3 Flute
	BKK-613	3/8	3 1/4	1/2	5 1/2	0.43171	3 Flute
	BKK-805	1/2	1 1/4	1/2	3 1/4	0.52181	3 Flute
	BKK-809	1/2	2 1/4	1/2	4 1/4	0.53926	3 Flute
	BKK-813	1/2	3 1/4	1/2	5 1/2	0.55671	3 Flute
	BKK-1009	5/8	2 1/4	5/8	4 1/2	0.66426	3 Flute
	BKK-1013	5/8	3 1/4	5/8	5 1/2	0.68171	3 Flute
	BKK-1017	5/8	4 1/4	5/8	6 1/2	0.69916	3 Flute
	BKK-1209	3/4	2 1/4	3/4	4 3/4	0.78926	3 Flute
	BKK-1213	3/4	3 1/4	3/4	5 3/4	0.80671	3 Flute
	BKK-1217	3/4	4 1/4	3/4	6 3/4	0.82416	3 Flute
	BKK-1221	3/4	5 1/4	3/4	7 3/4	0.84161	3 Flute
BKK-1624	1	6	1	8 1/2	1.10470	4 Flute	

Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
1 DEG	BK-102	3/32	1/2	3/8	2 1/2	0.11120	3 Flute
	BK-103	3/32	3/4	3/8	2 1/2	0.11993	3 Flute
	BK-105	3/32	1 1/4	3/8	3 1/8	0.13738	3 Flute
	BK-201	1/8	1/4	3/8	2 1/2	0.13373	3 Flute
	BK-202	1/8	1/2	3/8	2 1/2	0.14245	3 Flute
	BK-203	1/8	3/4	3/8	2 1/2	0.15118	3 Flute
	BK-204	1/8	1	3/8	2 7/8	0.15990	3 Flute
	BK-205	1/8	1 1/4	3/8	3 1/8	0.16863	3 Flute
	BK-206	1/8	1 1/2	3/8	3 1/4	0.17735	3 Flute
	BK-208	1/8	2	3/8	4	0.19480	3 Flute
	BK-303	3/16	3/4	3/8	2 1/2	0.21368	3 Flute
	BK-305	3/16	1 1/4	3/8	3 1/8	0.23113	3 Flute
	BK-308	3/16	2	3/8	3 7/8	0.25730	3 Flute
	BK-309	3/16	2 1/4	3/8	4 1/4	0.26603	3 Flute
	BK-310	3/16	2 1/2	3/8	4 1/2	0.27475	3 Flute
	BK-313	3/16	3 1/4	3/8	5 1/2	0.30093	3 Flute
	BK-403	1/4	3/4	3/8	2 1/2	0.27618	3 Flute
	BK-405	1/4	1 1/4	3/8	3	0.29363	3 Flute
	BK-406	1/4	1 1/2	3/8	3 1/4	0.30235	3 Flute
	BK-409	1/4	2 1/4	1/2	4 1/4	0.32853	3 Flute
	BK-413	1/4	3 1/4	1/2	5 1/2	0.36343	3 Flute
	BK-605	3/8	1 1/4	1/2	3 1/4	0.41863	3 Flute
	BK-609	3/8	2 1/4	1/2	4 1/4	0.45353	3 Flute
	BK-613	3/8	3 1/4	1/2	5 1/4	0.48843	3 Flute
	BK-805	1/2	1 1/4	1/2	3 1/4	0.54363	3 Flute
	BK-809	1/2	2 1/4	1/2	4 1/4	0.57853	3 Flute
	BK-813	1/2	3 1/4	5/8	5 3/8	0.61343	3 Flute
	BK-813A	1/2	3 1/4	1/2	5 3/8	0.61343	3 Flute
	BK-1009	5/8	2 1/4	5/8	4 1/2	0.70353	3 Flute
	BK-1013	5/8	3 1/4	5/8	5 1/2	0.73843	3 Flute
	BK-1017	5/8	4 1/4	5/8	6 1/2	0.77333	3 Flute
	BK-1209	3/4	2 1/4	3/4	4 3/4	0.82853	3 Flute
BK-1213	3/4	3 1/4	3/4	5 3/4	0.86343	3 Flute	
BK-1217	3/4	4 1/4	3/4	6 3/4	0.89833	3 Flute	
BK-1221	3/4	5 1/4	3/4	7 3/4	0.93323	3 Flute	
BK-1624	1	6	1	8 1/2	1.20940	4 Flute	

TO ORDER COBALT OR COATINGS,
 Add a suffix to the part number given above.
 for TIN Coated, add the suffix "TIN"
 for Cobalt, add the suffix "CO"
 for Cobalt TIN Coated, add the suffix "CO-TIN"
 If no suffix is given High Speed Steel will ship.

ALL SIZES ARE AVAILABLE
 SOME ARE AVAILABLE WITH EXTENDED SHANKS.
 CALL FOR AVAILABILITY 1-888-531-0430



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HIGH SPEED STEEL & COBALT

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.	
1 1/2 DEG	BKX-102	3/32	1/2	3/8	2 1/2	0.11993	3 Flute	2 DEG	BL-002	1/16	1/2	3/8	2 5/8	0.09742	3 Flute
	BKX-103	3/32	3/4	3/8	2 1/2	0.13302	3 Flute		BL-004	1/16	1	3/8	2 7/8	0.13234	3 Flute
	BKX-104	3/32	1	3/8	2 7/8	0.14611	3 Flute		BL-102	3/32	1/2	3/8	2 1/2	0.12867	3 Flute
	BKX-105	3/32	1 1/4	3/8	3 1/8	0.15920	3 Flute		BL-103	3/32	3/4	3/8	2 1/2	0.14613	3 Flute
	BKX-106	3/32	1 1/2	3/8	3 1/4	0.17229	3 Flute		BL-105	3/32	1 1/4	3/8	3 1/8	0.18105	3 Flute
	BKX-110	3/32	2 1/2	3/8	4 1/2	0.22465	3 Flute		BL-202	1/8	1/2	3/8	2 1/2	0.15992	3 Flute
	BKX-154	7/64	1	3/8	2 7/8	0.16174	3 Flute		BL-203	1/8	3/4	3/8	2 1/2	0.17738	3 Flute
	BKX-155	7/64	1 1/4	3/8	3 1/8	0.17483	3 Flute		BL-204	1/8	1	3/8	2 7/8	0.19484	3 Flute
	BKX-156	7/64	1 1/2	3/8	3 1/4	0.18792	3 Flute		BL-205	1/8	1 1/4	3/8	3 1/8	0.21230	3 Flute
	BKX-202	1/8	1/2	3/8	2 1/2	0.15118	3 Flute		BL-206	1/8	1 1/2	3/8	3 1/4	0.22976	3 Flute
	BKX-203	1/8	3/4	3/8	2 1/2	0.16427	3 Flute		BL-208	1/8	2	3/8	3 7/8	0.26468	3 Flute
	BKX-204	1/8	1	3/8	2 7/8	0.17736	3 Flute		BL-210	1/8	2 1/2	1/2	4 1/2	0.29960	3 Flute
	BKX-205	1/8	1 1/4	3/8	3 1/8	0.19045	3 Flute		BL-210A	1/8	2 1/2	3/8	4 1/2	0.29960	3 Flute
	BKX-206	1/8	1 1/2	3/8	3 1/4	0.20354	3 Flute		BL-303	3/16	3/4	3/8	2 1/2	0.23988	3 Flute
	BKX-208	1/8	2	3/8	3 7/8	0.22972	3 Flute		BL-305	3/16	1 1/4	3/8	3 1/8	0.27480	3 Flute
	BKX-209	1/8	2 1/4	3/8	4 1/4	0.24281	3 Flute		BL-309	3/16	2 1/4	1/2	4 1/4	0.34464	3 Flute
	BKX-212	1/8	3	3/8	5	0.28208	3 Flute		BL-313	3/16	3 1/4	1/2	5 1/2	0.41448	3 Flute
	BKX-254	5/32	1	3/8	2 7/8	0.20861	3 Flute		BL-403	1/4	3/4	3/8	2 1/2	0.30238	3 Flute
	BKX-255	5/32	1 1/4	3/8	3 1/8	0.22170	3 Flute		BL-405	1/4	1 1/4	3/8	3 1/8	0.33730	3 Flute
	BKX-256	5/32	1 1/2	3/8	3 1/4	0.23479	3 Flute		BL-409	1/4	2 1/4	1/2	4 3/8	0.40714	3 Flute
	BKX-258	5/32	2	3/8	3 7/8	0.26097	3 Flute		BL-413	1/4	3 1/4	1/2	5 1/4	0.47698	3 Flute
	BKX-303	3/16	3/4	3/8	2 1/2	0.22677	3 Flute		BL-505	5/16	1 1/4	1/2	3 1/4	0.39980	3 Flute
	BKX-305	3/16	1 1/4	3/8	3 1/8	0.25295	3 Flute		BL-605	3/8	1 1/4	1/2	3 1/4	0.46230	3 Flute
	BKX-309	3/16	2 1/4	3/8	4	0.30531	3 Flute		BL-609	3/8	2 1/4	1/2	4 1/4	0.53214	3 Flute
	BKX-313	3/16	3 1/4	3/8	5 1/2	0.35767	3 Flute		BL-613	3/8	3 1/4	1/2	5 1/2	0.60198	3 Flute
	BKX-403	1/4	3/4	3/8	2 1/2	0.28927	3 Flute		BL-613B	3/8	3 1/4	5/8	5 1/2	0.60198	3 Flute
	BKX-405	1/4	1 1/4	3/8	3	0.31545	3 Flute		BL-805	1/2	1 1/4	1/2	3 1/4	0.58730	3 Flute
	BKX-409	1/4	2 1/4	1/2	4 1/4	0.36781	3 Flute		BL-809	1/2	2 1/4	5/8	4 3/8	0.65714	3 Flute
	BKX-413	1/4	3 1/4	1/2	5 1/2	0.42017	3 Flute		BL-809A	1/2	2 1/4	1/2	4 3/8	0.65714	3 Flute
	BKX-605	3/8	1 1/4	1/2	3 1/8	0.44045	3 Flute		BL-813	1/2	3 1/4	3/4	5 1/2	0.72698	3 Flute
	BKX-609	3/8	2 1/4	1/2	4 1/4	0.49281	3 Flute		BL-813B	1/2	3 1/4	5/8	5 1/2	0.72698	3 Flute
	BKX-613	3/8	3 1/4	1/2	5 1/2	0.54517	3 Flute		BL-1009	5/8	2 1/4	3/4	4 1/2	0.78214	3 Flute
	BKX-805	1/2	1 1/4	1/2	3 1/4	0.56545	3 Flute		BL-1013	5/8	3 1/4	3/4	5 1/2	0.85198	3 Flute
BKX-809	1/2	2 1/4	5/8	4 1/2	0.61781	3 Flute	BL-1017	5/8	4 1/4	3/4	6 1/2	0.92182	3 Flute		
BKX-813	1/2	3 1/4	5/8	5 1/2	0.67017	3 Flute	BL-1209	3/4	2 1/4	3/4	4 1/2	0.90714	3 Flute		
BKX-1009	5/8	2 1/4	3/4	4 1/2	0.74281	3 Flute	BL-1213	3/4	3 1/4	3/4	5 3/4	0.97698	3 Flute		
BKX-1013	5/8	3 1/4	3/4	5 1/2	0.79517	3 Flute	BL-1221	3/4	5 1/4	1	7 3/4	1.11666	3 Flute		
BKX-1017	5/8	4 1/4	3/4	6 1/2	0.84753	3 Flute	BL-1624	1	6	1 1/4	8 1/2	1.41904	4 Flute		
BKX-1209	3/4	2 1/4	3/4	4 3/4	0.86781	3 Flute									
BKX-1221	3/4	5 1/4	1	7 3/4	1.02489	3 Flute									
BKX-1624	1	6	1 1/4	8 1/2	1.31416	4 Flute									

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Ball Ends



Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
3 DEG	BM-002	1/16	1/2	3/8	2 5/8	0.11491	3 Flute
	BM-003	1/16	3/4	3/8	2 3/4	0.14112	3 Flute
	BM-004	1/16	1	3/8	2 7/8	0.16732	3 Flute
	BM-005	1/16	1 1/4	3/8	3 1/8	0.19353	3 Flute
	BM-006	1/16	1 1/2	3/8	3 1/4	0.21973	3 Flute
	BM-103	3/32	3/4	3/8	2 1/2	0.17237	3 Flute
	BM-104	3/32	1	3/8	2 7/8	0.19857	3 Flute
	BM-105	3/32	1 1/4	3/8	3 1/8	0.22478	3 Flute
	BM-106	3/32	1 1/2	3/8	3 1/4	0.25098	3 Flute
	BM-108	3/32	2	3/8	3 3/4	0.30339	3 Flute
	BM-110	3/32	2 1/2	1/2	4 1/2	0.35580	3 Flute
	BM-154	7/64	1	3/8	2 7/8	0.21420	3 Flute
	BM-155	7/64	1 1/4	3/8	3 1/8	0.24040	3 Flute
	BM-156	7/64	1 1/2	3/8	3 1/4	0.26661	3 Flute
	BM-158	7/64	2	3/8	3 3/4	0.31902	3 Flute
	BM-203	1/8	3/4	3/8	2 5/8	0.20362	3 Flute
	BM-204	1/8	1	3/8	2 7/8	0.22982	3 Flute
	BM-205	1/8	1 1/4	3/8	3 1/8	0.25603	3 Flute
	BM-206	1/8	1 1/2	3/8	3 1/4	0.28223	3 Flute
	BM-208	1/8	2	3/8	3 3/4	0.33464	3 Flute
	BM-210	1/8	2 1/2	1/2	4 1/2	0.38705	3 Flute
	BM-210A	1/8	2 1/2	3/8	4 1/2	0.38705	3 Flute
	BM-212	1/8	3	1/2	5	0.43946	3 Flute
	BM-216	1/8	4	1/2	6 1/2	0.54428	3 Flute
	BM-2525	5/32	5/8	3/8	2 1/2	0.22176	3 Flute
	BM-253	5/32	3/4	3/8	2 1/2	0.23487	3 Flute
	BM-254	5/32	1	3/8	2 7/8	0.26107	3 Flute
	BM-255	5/32	1 1/4	3/8	3 1/8	0.28728	3 Flute
	BM-256	5/32	1 1/2	3/8	3 1/4	0.31348	3 Flute
	BM-258	5/32	2	3/8	3 7/8	0.36589	3 Flute
	BM-303	3/16	3/4	3/8	2 5/8	0.26612	3 Flute
	BM-304	3/16	1	3/8	2 7/8	0.29232	3 Flute
BM-305	3/16	1 1/4	3/8	3 1/8	0.31853	3 Flute	
BM-306	3/16	1 1/2	3/8	3 1/8	0.34473	3 Flute	
BM-308	3/16	2	1/2	4	0.39714	3 Flute	
BM-310	3/16	2 1/2	1/2	4 1/2	0.44955	3 Flute	
BM-312	3/16	3	1/2	5	0.50196	3 Flute	
BM-313	3/16	3 1/4	1/2	5 1/2	0.52817	3 Flute	
BM-316	3/16	4	5/8	6 1/8	0.60678	3 Flute	
BM-320	3/16	5	3/4	7 1/4	0.71160	3 Flute	
BM-322	3/16	5 1/2	3/4	7 3/4	0.76401	3 Flute	

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3 DEG	BM-403	1/4	3/4	3/8	2 1/2	0.32862	3 Flute
	BM-404	1/4	1	3/8	2 3/4	0.35482	3 Flute
	BM-405	1/4	1 1/4	3/8	3 1/8	0.37500	3 Flute
	BM-406	1/4	1 1/2	3/8	3 1/4	0.40723	3 Flute
	BM-409	1/4	2 1/4	1/2	4 1/4	0.48585	3 Flute
	BM-410	1/4	2 1/2	1/2	4 1/2	0.51205	3 Flute
	BM-413	1/4	3 1/4	1/2	5 1/2	0.59067	3 Flute
	BM-413A	1/4	3 1/4	5/8	5 1/2	0.59067	3 Flute
	BM-416	1/4	4	3/4	6 1/4	0.66928	3 Flute
	BM-416A	1/4	4	5/8	6 1/4	0.66928	3 Flute
	BM-420	1/4	5	3/4	7 3/8	0.77410	3 Flute
	BM-504	5/16	1	1/2	3 1/8	0.41732	3 Flute
	BM-507	5/16	1 3/4	1/2	3 7/8	0.49594	3 Flute
	BM-605	3/8	1 1/4	1/2	3 1/4	0.50000	3 Flute
	BM-609	3/8	2 1/4	5/8	4 3/8	0.61085	3 Flute
	BM-609A	3/8	2 1/4	1/2	4 3/8	0.61085	3 Flute
	BM-613	3/8	3 1/4	5/8	5 3/8	0.71567	3 Flute
	BM-613A	3/8	3 1/4	3/4	5 3/8	0.71567	3 Flute
	BM-616	3/8	4	3/4	6 1/2	0.79428	3 Flute
	BM-620	3/8	5	3/4	7 1/2	0.89910	3 Flute
	BM-624	3/8	6	1	8 1/2	1.00392	3 Flute
	BM-805	1/2	1 1/4	1/2	3 1/4	0.63103	3 Flute
	BM-809	1/2	2 1/4	3/4	4 1/2	0.73585	3 Flute
	BM-809A	1/2	2 1/4	1/2	4 1/8	0.73585	3 Flute
	BM-809B	1/2	2 1/4	5/8	4 1/4	0.73585	3 Flute
	BM-813	1/2	3 1/4	3/4	5 1/2	0.84067	3 Flute
	BM-816	1/2	4	3/4	6 3/8	0.91928	3 Flute
	BM-820	1/2	5	1	7 1/2	1.02410	3 Flute
	BM-824	1/2	6	1	8 1/2	1.12892	3 Flute
	BM-1009	5/8	2 1/4	3/4	4 1/2	0.86085	3 Flute
	BM-1013	5/8	3 1/4	3/4	5 1/2	0.96567	3 Flute
	BM-1016	5/8	4	1	6 1/2	1.04428	3 Flute
BM-1020	5/8	5	1	7 1/2	1.14910	3 Flute	
BM-1209	3/4	2 1/4	1	4 3/4	0.98585	3 Flute	
BM-1213	3/4	3 1/4	1	5 3/4	1.09067	3 Flute	
BM-1216	3/4	4	1	6 1/2	1.16928	4 Flute	
BM-1220	3/4	5	1	7 1/2	1.27410	4 Flute	
BM-1224	3/4	6	1 1/4	8 1/2	1.37892	4 Flute	
BM-1624	1	6	1 1/4	8 1/2	1.62892	4 Flute	

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Ball Ends

Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	Flutes	Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	Flutes
4 DEG	BN-004	1/16	1	3/8	2 7/8	0.20236	3 Flute	5 DEG	BO-0002	1/32	1/2	3/16	2 5/8	0.11874	2 Flute
	BN-006	1/16	1 1/2	3/8	3 1/4	0.27229	3 Flute		BO-0003	1/32	3/4	3/16	2 5/8	0.16249	2 Flute
	BN-103	3/32	3/4	3/8	2 5/8	0.19865	3 Flute		BO-002	1/16	1/2	3/8	2 5/8	0.14999	3 Flute
	BN-104	3/32	1	3/8	2 7/8	0.23361	3 Flute		BO-003	1/16	3/4	3/8	2 5/8	0.19374	3 Flute
	BN-203	1/8	3/4	3/8	2 5/8	0.22990	3 Flute		BO-004	1/16	1	3/8	2 7/8	0.23748	3 Flute
	BN-204	1/8	1	3/8	2 7/8	0.26486	3 Flute		BO-005	1/16	1 1/4	3/8	3 1/8	0.28123	3 Flute
	BN-206	1/8	1 1/2	3/8	3 1/4	0.33479	3 Flute		BO-006	1/16	1 1/2	3/8	3 1/4	0.32497	3 Flute
	BN-208	1/8	2	1/2	3 7/8	0.40472	3 Flute		BO-056	.070	1 1/2	3/8	3 1/4	0.33247	3 Flute
	BN-210	1/8	2 1/2	1/2	4 1/2	0.47465	3 Flute		BO-102	3/32	1/2	3/8	2 5/8	0.18124	3 Flute
	BN-303	3/16	3/4	3/8	2 5/8	0.29240	3 Flute		BO-103	3/32	3/4	3/8	2 5/8	0.22499	3 Flute
	BN-305	3/16	1 1/4	3/8	3 1/8	0.36233	3 Flute		BO-104	3/32	1	3/8	2 7/8	0.26873	3 Flute
	BN-310	3/16	2 1/2	1/2	4 1/2	0.53715	3 Flute		BO-105	3/32	1 1/4	3/8	3 1/8	0.31248	3 Flute
	BN-313	3/16	3 1/4	5/8	5 1/2	0.64205	3 Flute		BO-106	3/32	1 1/2	3/8	3 1/4	0.35622	3 Flute
	BN-316	3/16	4	3/4	6 1/2	0.74694	3 Flute		BO-108	3/32	2	1/2	4	0.44371	3 Flute
	BN-403	1/4	3/4	3/8	2 1/2	0.35490	3 Flute		BO-108A	3/32	2	3/8	3 7/8	0.44371	3 Flute
	BN-405	1/4	1 1/4	1/2	3 1/4	0.42483	3 Flute		BO-110	3/32	2 1/2	1/2	4 1/2	0.53120	3 Flute
	BN-409	1/4	2 1/4	5/8	4 3/8	0.56469	3 Flute		BO-114	3/32	3 1/2	3/4	5 7/8	0.66244	3 Flute
	BN-413	1/4	3 1/4	3/4	5 1/2	0.70455	3 Flute		BO-154	7/64	1	3/8	2 7/8	0.28436	3 Flute
	BN-416	1/4	4	3/4	6 1/2	0.80944	3 Flute		BO-155	7/64	1 1/4	3/8	3 1/8	0.32810	3 Flute
	BN-605	3/8	1 1/4	1/2	3 1/4	0.54983	3 Flute		BO-156	7/64	1 1/2	3/8	3 5/16	0.37185	3 Flute
	BN-609	3/8	2 1/4	5/8	4 3/8	0.68969	3 Flute		BO-158	7/64	2	1/2	4	0.45934	3 Flute
	BN-613	3/8	3 1/4	3/4	5 1/2	0.82955	3 Flute		BO-203	1/8	3/4	3/8	2 5/8	0.25000	3 Flute
	BN-616	3/8	4	3/4	6 1/2	0.93444	3 Flute		BO-204	1/8	1	3/8	2 7/8	0.29998	3 Flute
	BN-805	1/2	1 1/4	1/2	3 1/4	0.67483	3 Flute		BO-205	1/8	1 1/4	3/8	3 1/8	0.34373	3 Flute
	BN-809	1/2	2 1/4	3/4	4 1/2	0.81469	3 Flute		BO-206	1/8	1 1/2	3/8	3 1/4	0.37500	3 Flute
	BN-813	1/2	3 1/4	3/4	5 5/8	0.95455	3 Flute		BO-208	1/8	2	1/2	4	0.47496	3 Flute
	BN-816	1/2	4	1	6 1/2	1.05944	3 Flute		BO-208A	1/8	2	3/8	4	0.47496	3 Flute
	BN-820	1/2	5	1	7 1/2	1.19930	3 Flute		BO-210	1/8	2 1/2	5/8	4 1/2	0.56245	3 Flute
								BO-210A	1/8	2 1/2	1/2	4 1/2	0.56245	3 Flute	
								BO-212	1/8	3	3/4	5 1/2	0.64994	3 Flute	
								BO-212A	1/8	3	1/2	5 1/2	0.64994	3 Flute	
								BO-254	5/32	1	3/8	2 7/8	0.33123	3 Flute	
								BO-255	5/32	1 1/4	3/8	3 1/8	0.37498	3 Flute	
								BO-256	5/32	1 1/2	1/2	3 5/8	0.41872	3 Flute	
								BO-258	5/32	2	1/2	4	0.50000	3 Flute	
								BO-303	3/16	3/4	3/8	2 9/16	0.31874	3 Flute	
								BO-304	3/16	1	3/8	3	0.36248	3 Flute	
								BO-305	3/16	1 1/4	1/2	3 3/8	0.40623	3 Flute	
								BO-305S	7/32	1 1/4	1/2	3 3/8	0.43748	3 Flute	
								BO-306	3/16	1 1/2	1/2	3 1/2	0.44997	3 Flute	
								BO-308	3/16	2	1/2	4 1/8	0.53746	3 Flute	
								BO-310	3/16	2 1/2	5/8	4 5/8	0.62495	3 Flute	
								BO-310A	3/16	2 1/2	1/2	4 1/2	0.62495	3 Flute	
								BO-312	3/16	3	3/4	5 1/4	0.71244	3 Flute	
								BO-312A	3/16	3	1/2	5 1/4	0.71244	3 Flute	
								BO-313	3/16	3 1/4	3/4	5 1/2	0.75619	3 Flute	

TO ORDER COBALT OR COATINGS,
 Add a suffix to the part number given above.
 for TIN Coated, add the suffix "TIN"
 for Cobalt, add the suffix "CO"
 for Cobalt TIN Coated, add the suffix "CO-TIN"
 If no suffix is given High Speed Steel will ship.



ALL SIZES ARE AVAILABLE
 SOME ARE AVAILABLE WITH EXTENDED SHANKS.
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HIGH SPEED STEEL & COBALT

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
5 DEG	BO-313A	3/16	5 1/2	1/2	5 1/2	0.75619	3 Flute	7 DEG	BR-0004	1/32	1	3/8	2 3/4	0.27681	2 Flute
	BO-316	3/16	4	3/4	6 1/4	0.88742	3 Flute		BR-003	1/16	3/4	3/8	2 5/8	0.24667	3 Flute
	BO-320	3/16	5	1	7 1/2	1.06240	3 Flute		BR-004	1/16	1	3/8	2 7/8	0.30806	3 Flute
	BO-324	3/16	6	1	8 1/2	1.23738	3 Flute		BR-006	1/16	1 1/2	1/2	3 1/4	0.43084	3 Flute
	BO-403	1/4	3/4	3/8	2 1/2	0.38124	3 Flute		BR-0254	.070	1	3/8	2 7/8	0.31556	3 Flute
	BO-404	1/4	1	1/2	3	0.42498	3 Flute		BR-054	5/64	1	3/8	2 7/8	0.32369	3 Flute
	BO-405	1/4	1 1/4	1/2	3 1/4	0.46873	3 Flute		BR-103	3/32	3/4	3/8	2 1/2	0.27792	3 Flute
	BO-406	1/4	1 1/2	1/2	3 1/2	0.51247	3 Flute		BR-104	3/32	1	3/8	2 3/4	0.33931	3 Flute
	BO-409	1/4	2 1/4	5/8	4 3/8	0.64371	3 Flute		BR-105	3/32	1 1/4	1/2	3 1/8	0.40070	3 Flute
	BO-409A	1/4	2 1/4	1/2	4 3/8	0.64371	3 Flute		BR-106	3/32	1 1/2	1/2	3 1/2	0.46209	3 Flute
	BO-410	1/4	2 1/2	5/8	4 1/2	0.68745	3 Flute		BR-203	1/8	3/4	3/8	2 9/16	0.30917	3 Flute
	BO-413	1/4	3 1/4	3/4	5 1/2	0.81869	3 Flute		BR-204	1/8	1	3/8	2 3/4	0.37056	3 Flute
	BO-416	1/4	4	3/4	6 1/4	0.94992	3 Flute		BR-206	1/8	1 1/2	1/2	3 1/2	0.49334	3 Flute
	BO-424	1/4	6	1	8 1/2	1.29988	3 Flute		BR-208	1/8	2	5/8	3 7/8	0.61612	3 Flute
	BO-509	5/16	2 1/4	5/8	4 1/4	0.70621	3 Flute		BR-212	1/8	3	3/4	5 1/4	0.86168	3 Flute
	BO-605	3/8	1 1/4	1/2	3 1/4	0.59373	3 Flute		BR-305	3/16	1 1/4	1/2	3 1/4	0.49445	3 Flute
	BO-609	3/8	2 1/4	3/4	4 1/2	0.76871	3 Flute		BR-312	3/16	3	3/4	5 3/8	0.92418	3 Flute
	BO-613	3/8	3 1/4	3/4	5 1/2	0.94369	3 Flute		BR-403	1/4	3/4	1/2	2 1/2	0.43417	3 Flute
	BO-616	3/8	4	1	6 1/2	1.07492	3 Flute		BR-405	1/4	1 1/4	1/2	3 1/4	0.55695	3 Flute
	BO-620	3/8	5	1 1/4	7 1/2	1.24990	3 Flute		BR-409	1/4	2 1/4	3/4	4 1/2	0.80251	3 Flute
	BO-624	3/8	6	1 1/4	8 1/2	1.42488	3 Flute		BR-413	1/4	3 1/4	1	5 3/4	1.04807	3 Flute
	BO-805	1/2	1 1/4	1/2	3 1/4	0.71873	3 Flute		BR-416	1/4	4	1	6 1/2	1.23224	3 Flute
	BO-809	1/2	2 1/4	3/4	4 1/2	0.89371	3 Flute		BR-513	5/16	3 1/4	1	5 3/4	1.11057	3 Flute
	BO-813	1/2	3 1/4	3/4	5 5/8	1.06869	3 Flute		BR-605	3/8	1 1/4	5/8	3 1/4	0.68195	3 Flute
	BO-816	1/2	4	1	6 1/2	1.19992	3 Flute		BR-609	3/8	2 1/4	3/4	4 1/2	0.92751	3 Flute
	BO-820	1/2	5	1 1/4	7 1/2	1.37490	3 Flute		BR-613	3/8	3 1/4	1	5 5/8	1.17307	3 Flute
	BO-824	1/2	6	1 1/4	8 1/2	1.54988	3 Flute		BR-616	3/8	4	1 1/4	6 1/2	1.35724	3 Flute
	BO-1009	5/8	2 1/4	3/4	4 1/2	1.01871	3 Flute		BR-624	3/8	6	1 1/4	8 1/2	1.84836	4 Flute
	BO-1020	5/8	5	1 1/4	7 1/2	1.49990	4 Flute		BR-805	1/2	1 1/4	3/4	3 1/2	0.80695	3 Flute
	BO-1209	3/4	2 1/4	3/4	4 3/4	1.14371	3 Flute		BR-805A	1/2	1 1/4	5/8	3 3/8	0.80695	3 Flute
	BO-1216	3/4	4	1 1/4	6 1/2	1.44992	4 Flute		BR-809	1/2	2 1/4	1	4 5/8	1.05251	3 Flute
	BO-1220	3/4	5	1 1/4	7 1/2	1.62490	4 Flute		BR-813	1/2	3 1/4	1 1/4	5 3/4	1.29807	3 Flute
	BO-1224	3/4	6	1 1/4	8 1/2	1.79988	4 Flute		BR-816	1/2	4	1 1/4	6 1/2	1.48224	4 Flute
	BO-1620	1	5	1 1/4	7 1/2	1.87490	4 Flute		BR-824	1/2	6	1 1/4	8 1/2	1.97336	4 Flute
	BO-1624	1	6	2	9 1/2	2.04988	4 Flute		BR-1016	5/8	4	1 1/4	6 1/2	1.60724	4 Flute
	6 DEG	BP-004	1/16	1	3/8	2 7/8	0.27271		3 Flute	BR-1020	5/8	5	1 1/4	7 1/2	1.85820
BP-104		3/32	1	3/8	2 7/8	0.30396	3 Flute	BR-1213	3/4	3 1/4	1 1/4	5 3/4	1.54807	4 Flute	
BP-204		1/8	1	3/8	2 7/8	0.33521	3 Flute	BR-1216	3/4	4	1 1/4	6 1/2	1.73224	4 Flute	
BP-206		1/8	1 1/2	3/8	3 1/4	0.44032	3 Flute	BR-1224	3/4	6	2	9 1/2	2.22336	4 Flute	
BP-305		3/16	1 1/4	1/2	3 1/4	0.45030	3 Flute	BR-1624	1	6	2	9 1/2	2.47336	4 Flute	
BP-306		3/16	1 1/2	1/2	3 1/4	0.50282	3 Flute								
BP-406		1/4	1 1/2	5/8	3 1/4	0.56532	3 Flute								
BP-605		3/8	1 1/4	5/8	3 1/4	0.63776	3 Flute								
BP-805	1/2	1 1/4	3/4	3 1/4	0.76276	3 Flute									



A

HIGH SPEED STEEL & COBALT

Ball Ends

Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.		
8 DEG	B8-0002	1/32	1/2	3/8	2 5/8	0.17180	2 Flute	
	B8-003	1/16	3/4	3/8	2 7/8	0.27330	3 Flute	
	B8-004	1/16	1	3/8	2 7/8	0.34360	3 Flute	
	B8-005	1/16	1 1/4	3/8	3 1/8	0.41390	3 Flute	
	B8-006	1/16	1 1/2	3/8	3 1/2	0.48410	3 Flute	
	B8-103	3/32	3/4	3/8	2 5/8	0.30456	3 Flute	
	B8-104	3/32	1	3/8	2 7/8	0.37483	3 Flute	
	B8-203	1/8	3/4	3/8	3	0.33581	3 Flute	
	B8-204	1/8	1	3/8	3	0.40608	3 Flute	
	B8-208	1/8	2	5/8	4	0.68716	3 Flute	
	B8-403	1/4	3/4	1/2	2 7/8	0.46081	3 Flute	
	B8-408	1/4	2	3/4	4 1/8	0.81216	3 Flute	
	B8-603	3/8	3/4	1/2	2 3/4	0.58581	3 Flute	
	B8-803	1/2	3/4	5/8	2 7/8	0.71081	3 Flute	
	10 DEG	BT-0003	1/32	3/4	3/8	2 3/4	0.33756	2 Flute
		BT-002	1/16	1/2	3/8	2 3/8	0.23883	3 Flute
BT-003		1/16	3/4	3/8	2 5/8	0.32700	3 Flute	
BT-004		1/16	1	1/2	2 7/8	0.41516	3 Flute	
BT-102		3/32	1/2	3/8	2 3/8	0.27008	3 Flute	
BT-103		3/32	3/4	3/8	2 7/8	0.35825	3 Flute	
BT-106		3/32	1 1/2	1/2	3 1/2	0.62274	3 Flute	
BT-203		1/8	3/4	3/8	2 5/8	0.38950	3 Flute	
BT-205		1/8	1 1/4	1/2	3 1/4	0.56583	3 Flute	
BT-206		1/8	1 1/2	1/2	3 1/2	0.65399	3 Flute	
BT-254		5/32	1	1/2	3	0.50000	3 Flute	
BT-258		5/32	2	3/4	4 1/4	0.86157	3 Flute	
BT-305		3/16	1 1/4	1/2	3 3/8	0.62500	3 Flute	
BT-309		3/16	2 1/4	3/4	4 1/2	0.98099	3 Flute	
BT-403		1/4	3/4	1/2	2 3/4	0.51450	3 Flute	
BT-405		1/4	1 1/4	1/2	3 1/4	0.69083	3 Flute	
BT-409	1/4	2 1/4	3/4	4 1/2	1.04349	3 Flute		
BT-409A	1/4	2 1/4	1/2	4 1/2	1.04349	3 Flute		
BT-413	1/4	3 1/4	1	5 5/8	1.39615	4 Flute		
BT-605	3/8	1 1/4	5/8	3 1/2	0.81583	3 Flute		
BT-609	3/8	2 1/4	1	4 5/8	1.16849	3 Flute		
BT-613	3/8	3 1/4	1 1/4	5 3/4	1.52115	4 Flute		
BT-805	1/2	1 1/4	3/4	3 1/2	0.94083	3 Flute		
BT-809	1/2	2 1/4	1	4 3/4	1.29349	3 Flute		
BT-813	1/2	3 1/4	1 1/4	5 3/4	1.64615	4 Flute		
BT-816	1/2	4	1 1/4	6 3/8	1.91064	4 Flute		
11 DEG	BTK-0003	1/32	3/4	3/8	2 7/8	0.32282	2 Flute	
	BTK-003	1/16	3/4	3/8	2 7/8	0.35407	3 Flute	
	BTK-004	1/16	1	3/8	2 7/8	0.45126	3 Flute	
	BTK-103	3/32	3/4	3/8	2 7/8	0.38532	3 Flute	
	BTK-203	1/8	3/4	3/8	3	0.41657	3 Flute	
	12 DEG	BTL-103	3/32	3/4	3/8	2 7/8	0.41258	3 Flute
		BTL-204	1/8	1	1/2	3	0.55011	3 Flute
		BTL-205	1/8	1 1/4	1/2	3 1/4	0.65639	3 Flute
		BTL-403	1/4	3/4	1/2	2 7/8	0.56880	3 Flute
	15 DEG	BTL-406	1/4	1 1/2	5/8	3 5/8	0.88765	3 Flute
		BTL-409	1/4	2 1/4	1	4 3/4	1.20650	3 Flute
		BV-0003	1/32	3/4	1/2	2 3/4	0.43318	2 Flute
		BV-003	1/16	3/4	1/2	2 3/4	0.46443	3 Flute
	BV-102	3/32	1/2	3/8	2 3/8	0.36170	3 Flute	
	BV-103	3/32	3/4	1/2	2 7/8	0.49568	3 Flute	
	BV-104	3/32	1	1/2	3	0.62965	3 Flute	
BV-106	3/32	1 1/2	3/4	3 3/4	0.89760	3 Flute		
BV-106A	3/32	1 1/2	1/2	3 3/4	0.89760	3 Flute		
BV-202	1/8	1/2	1/2	2 5/8	0.39295	3 Flute		
BV-202A	1/8	1/2	3/8	2 5/8	0.39295	3 Flute		
BV-203	1/8	3/4	1/2	2 7/8	0.52693	3 Flute		
BV-204	1/8	1	1/2	3 1/8	0.66090	3 Flute		
BV-205	1/8	1 1/4	5/8	3 1/2	0.79488	3 Flute		
BV-205A	1/8	1 1/4	1/2	3 1/2	0.79488	3 Flute		
BV-206A	1/8	1 1/2	1/2	3 5/8	0.92885	3 Flute		
BV-304	3/16	1	1/2	3 1/8	0.72340	3 Flute		
BV-305	3/16	1 1/4	3/4	3 1/2	0.85738	3 Flute		
BV-305A	3/16	1 1/4	1/2	3 1/2	0.85738	3 Flute		
BV-308	3/16	2	1	4 1/2	1.25930	3 Flute		
BV-404	1/4	1	1/2	3 1/8	0.78590	3 Flute		
BV-405	1/4	1 1/4	3/4	3 1/2	0.91988	3 Flute		
BV-405A	1/4	1 1/4	1/2	3 1/2	0.91988	3 Flute		

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for Cobalt, add the suffix "CO"
for Cobalt TIN Coated, add the suffix "CO-TIN"
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ALL SIZES ARE THREE FLUTE

ALL SIZES ARE AVAILABLE
SOME ARE AVAILABLE WITH EXTENDED SHANKS.
CALL FOR AVAILABILITY 1-888-531-0430



HIGH SPEED STEEL & COBALT

Ball Ends



Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
15 DEG	BV-406	1/4	1 1/2	3/4	3 3/4	1.05385	3 Flute
	BV-408	1/4	2	3/4	4 1/2	1.32180	3 Flute
	BV-409	1/4	2 1/4	1	4 3/4	1.45578	4 Flute
	BV-413	1/4	3 1/4	1 1/4	5 3/4	1.99168	4 Flute
	BV-504	5/16	1	3/4	3 1/4	0.84840	3 Flute
	BV-506	5/16	1 1/2	3/4	3 7/8	1.11635	3 Flute
	BV-509	5/16	2 1/4	1	4 7/8	1.51828	4 Flute
	BV-605	3/8	1 1/4	3/4	3 5/8	1.04488	3 Flute
	BV-609	3/8	2 1/4	1 1/4	4 3/4	1.51828	4 Flute
	BV-613	3/8	3 1/4	1 1/4	5 3/4	2.05418	4 Flute
	BV-804	1/2	1	3/4	3 1/4	1.03590	3 Flute
	BV-805	1/2	1 1/4	3/4	3 5/8	1.16988	3 Flute
	BV-807	1/2	1 3/4	1	4 1/4	1.43783	4 Flute
	BV-809	1/2	2 1/4	1 1/4	4 7/8	1.70578	4 Flute
	BV-812	1/2	3	1 1/4	5 1/2	2.10770	4 Flute
BV-813	1/2	3 1/4	1 1/4	6	2.24168	4 Flute	
20 DEG	BW-002	1/16	1/2	3/8	2 1/2	0.42647	3 Flute
	BW-103	3/32	3/4	1/2	2 3/4	0.63971	3 Flute
	BW-202	1/8	1/2	3/8	2 1/2	0.48897	3 Flute
	BW-204	1/8	1	1/2	3 1/8	0.85294	4 Flute
	BW-204C	1/8	1	3/4	3 3/8	0.85294	3 Flute
	BW-304	3/16	1	1/2	3 1/8	0.91544	4 Flute
	BW-306	3/16	1 1/2	3/4	4	1.27941	4 Flute
	BW-404	1/4	1	1/2	3 1/8	0.97794	4 Flute
	BW-406	1/4	1 1/2	3/4	4	1.34191	4 Flute
	BW-504	5/16	1	3/4	3 1/4	1.04044	4 Flute
	BW-506	5/16	1 1/2	3/4	3 7/8	1.40441	4 Flute
	BW-606	3/8	1 1/2	3/4	3 7/8	1.46691	4 Flute
	BW-608	3/8	2	1	4 1/2	1.83088	4 Flute
	BW-809	1/2	2 1/4	1 1/4	4 7/8	2.13787	4 Flute

Taper Per Side	Tool No.	Ball Dia.	Flt. Lgth	Shk Dia.	OAL	Large Dia.	
25 DEG	BX-103	3/32	3/4	1/2	3	0.79322	3 Flute
	BX-202	1/8	1/2	1/2	2 1/2	0.59131	3 Flute
	BX-204A	1/8	1	1/2	3 1/8	1.05762	3 Flute
	BX-204B	1/8	1	5/8	3 1/8	1.05762	3 Flute
	BX-204C	1/8	1	3/4	3 1/8	1.05762	3 Flute
	BX-404	1/4	1	5/8	3 1/4	1.18262	4 Flute
	BX-406	1/4	1 1/2	3/4	4 1/8	1.64893	4 Flute
	BX-503	5/16	3/4	5/8	3	1.01197	4 Flute
	BX-504	5/16	1	3/4	3 3/8	1.24512	4 Flute
	BX-506	5/16	1 1/2	1	4 1/8	1.71143	4 Flute
	BX-603	3/8	3/4	5/8	3	1.07447	4 Flute
	BX-604	3/8	1	3/4	3 1/4	1.30762	4 Flute
	BX-606	3/8	1 1/2	1	4 1/8	1.77393	4 Flute
	BX-805	1/2	1 1/4	1	3 3/4	1.66578	4 Flute
	30 DEG	BZ-002	1/16	1/2	1/2	2 1/2	0.63985
BZ-103		3/32	3/4	1/2	3	0.95978	3 Flute
BZ-202		1/8	1/2	1/2	2 5/8	0.70235	4 Flute
BZ-204		1/8	1	1/2	3 1/8	1.27970	4 Flute
BZ-404		1/4	1	3/4	3 3/8	1.40470	4 Flute
BZ-406		1/4	1 1/2	1	4 1/8	1.98205	4 Flute
BZ-605		3/8	1 1/4	1	3 7/8	1.81838	4 Flute
BZ-606		3/8	1 1/2	1	4 1/4	2.10705	4 Flute
BZ-805		1/2	1 1/4	1	3 3/4	1.94338	4 Flute
BZ-806		1/2	1 1/2	1	4 1/4	2.23205	4 Flute
45 DEG	B45-2015	1/8	5/16	1/2	2 1/2	0.75000	4 Flute
	B45-202	1/8	1/2	1/2	2 5/8	1.12500	4 Flute
	B45-203	1/8	3/4	5/8	3 1/4	1.62500	4 Flute
	B45-204	1/8	1	1	3 3/4	2.12500	4 Flute
	B45-303	3/16	3/4	3/4	3 1/4	1.67850	4 Flute
	B45-304	3/16	1	1	4	2.17850	4 Flute
	B45-305	3/16	1 1/4	1 1/4	4 1/4	2.68750	4 Flute
	B45-403	1/4	3/4	3/4	3 1/4	1.75000	4 Flute
	B45-404	1/4	1	1	4	2.25000	4 Flute
	B45-405	1/4	1 1/4	1 1/4	4 1/4	2.75000	4 Flute
	B45-406	1/4	1 1/2	1 1/4	4 1/2	3.25000	4 Flute
	B45-603	3/8	3/4	3/4	3 1/4	1.87500	4 Flute
	B45-604	3/8	1	1	4	2.37500	4 Flute
	B45-605	3/8	1 1/4	1 1/4	4 1/4	2.87500	6 Flute
	B45-606	3/8	1 1/2	1 1/4	4 1/2	3.37500	6 Flute
	B45-803	1/2	3/4	3/4	3 1/4	2.00000	4 Flute
B45-804	1/2	1	1	4	2.50000	4 Flute	
B45-805	1/2	1 1/4	1 1/4	4 1/4	3.00000	6 Flute	
B45-806	1/2	1 1/2	1 1/4	4 5/8	3.50000	6 Flute	

TO ORDER COBALT OR COATINGS,
 Add a suffix to the part number given above.
 for TIN Coated, add the suffix "TIN"
 for Cobalt, add the suffix "CO"
 for Cobalt TIN Coated, add the suffix "CO-TIN"
 If no suffix is given High Speed Steel will ship.

