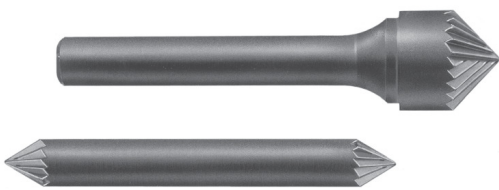


**The Original 6-Flute Threaded  
Chatterless-Countersinks™**

These countersink have a threaded back for use with separately ordered shanks; See Page 100. Ideal for use on radial drills, lathes, and Mills.

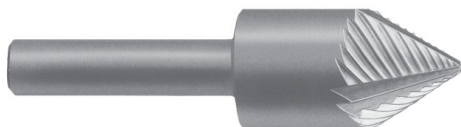
6-FLUTE THREADED CHATTERLESS-COUNTERSINKS High Speed Steel									
HEAD DIA	OVERALL LENGTH	THREAD SIZE	SERIES #	INCLUDED ANGLE					
				60° PART #	82° PART #	90° PART #	100° PART #	110° PART #	120° PART #
3/4"	1-1/2"	3/8"-24	CK-3/4-T	03270	03280	03290	03300	03310	03320
7/8"	1-1/2"	3/8"-24	CK-7/8-T	03271	03281	03291	03301	03311	03321
1"	1-1/2"	1/2"-20	CK-1-T	03272	03282	03292	03302	03312	03322
1-1/4"	1-3/4"	5/8"-18	CK-1-1/4-T	03273	03283	03293	03303	03313	03323
1-1/2"	1-7/8"	3/4"-16	CK-1-1/2-T	03274	03284	03294	03304	03314	03324
1-3/4"	2-1/8"	3/4"-16	CK-1/34-T	03275	03285	03295	03305	03315	03325
2"	2-1/4"	3/4"-16	CK-2-T	03276	03286	03296	03306	03316	03326
2-1/2"	3"	1"-14	CK-2-1/2-T	03277	03287	03297	03307	03317	03327
3"	3-1/4"	1-1/4"-12	CK-3-T	03278	03288	03298	03308	03318	03328

**Multi-Flute Countersinks**



All carbide Inside Deburring Cutters are designed with a pointed nose. Tools with a head diameter measuring 3/32" thru 1/4" are made of solid carbide and are double ended. Inside Deburring Cutters with a head diameter measuring 5/16" thru 1" have solid carbide heads brazed to hardened alloy precision ground shanks.

MULTI- FLUTE COUNTERSINKS Carbide				
HEAD DIA	SHANK DIA	OVERALL LENGTH	60° INCL'D PART#	90° INCL'D PART#
3/32"	3/32"	1-1/2"	3Z-W-DE	3Y-W-DE
1/8"	1/8"	1-1/2"	4Z-W-DE	4Y-W-DE
3/16"	3/16"	2"	6Z-W-DE	6Y-W-DE
1/4"	1/4"	2"	8Z-W-DE	8Y-W-DE
5/16"	1/4"	2-1/4"	ID-5/16-30-W	ID-5/16-45-W
3/8"	1/4"	2-1/4"	ID-3/8-30-W	ID-3/8-45-W
1/2"	1/4"	2-1/4"	ID-1/2-30-W	ID-1/2-45-W
1/2"	3/8"	2-1/8"	ID-1/2-30-W-3/8	ID-1/2-45-W-3/8
5/8"	1/4"	2-3/8"	ID-5/8-30-W	ID-5/8-45-W
5/8"	3/8"	2-3/8"	ID-5/8-30-W-3/8	ID-5/8-45-W-3/8
3/4"	1/2"	2-11/16"	ID-3/4-30-W	ID-3/4-45-W
7/8"	1/2"	2-13/16"	ID-7/8-30-W	ID-7/8-45-W
1"	1/2"	2-13/16"	ID-1-30-W	ID-1-45-W



Inside Chamfering Mills can be depended upon to produce smooth, burrless, chamfers on most machinable materials and are suitable for fairly heavy chamfering. For still heavier chamfering, consider Chatterless™ countersinks

MULTI- FLUTE COUNTERSINKS High Speed Steel					
HEAD DIA	OVERALL LENGTH	NOSE PNT OR FLAT	60° INCL'D PART#	NOSE PNT OR FLAT	90° INCL'D PART#
1/4"	2-1/4"	P	IC-1/4-30	P	IC-1/4-45
5/16"	2-1/4"	1/32"	IC-5/16-30	1/16"	IC-5/16-45
3/8"	2-1/4"	P	IC-3/8-30	P	IC-3/8-45
1/2"	2-1/4"	9/64"	ICS-1/2-30	1/8"	ICS-1/2-45
1/2"	2-1/4"	P	ICL-1/2-30	P	ICL-1/2-45
5/8"	2-1/4"	13/64"	ICS-5/8-30	1/8"	ICS-5/8-45