

# HIGH SPEED STEEL ZERO FLUTE (DEBURRING) COUNTERSINKS

**ICS USA**

**GENERAL PURPOSE**

**RIGHT HAND CUT**

**STRAIGHT SHANK**



**AXIAL RELIEF**

Zero Flute Countersinks are designed for countersinking and deburring operations. The single cutting edge removes stock quickly and prevents chatter. They can be resharpened by using an Axial Relieving Fixture or by using a small mounted grinding wheel and inserting it into the hole.

ITEM NO.		SIZE NO.	SHANK DIA.	OVERALL LENGTH	HOLE SIZE RANGE		POINT ANGLE		
ALPHA PREFIX	NUMERIC SUFFIX (FLUTES & ANGLE)-SIZE				SMALL DIA.	LARGE DIA.	60°	82°	90°
						<b>CSK060</b>	<b>CSK082</b>	<b>CSK090</b>	
<b>CSK</b>	(FLUTE & ANGLE) #0	0	1/4	1-3/4	1/16	15/64	\$12.94	\$ 12.94	\$12.94
<b>CSK</b>	(FLUTE & ANGLE) #1	1	1/4	1-3/4	5/32	13/32	15.02	15.02	15.02
<b>CSK</b>	(FLUTE & ANGLE) #2	2	1/4	2	3/16	17/32	16.20	16.20	16.20
<b>CSK</b>	(FLUTE & ANGLE) #3	3	1/2	2-3/4	5/16	25/32	26.38	26.38	26.38
<b>CSK</b>	(FLUTE & ANGLE) #4	4	1/2	3	9/16	1-1/16	40.18	40.18	40.18
<b>CSK</b>	(FLUTE & ANGLE) #5	5	1/2	3-3/4	5/8	1-15/32	-	64.68	-
<b>CSK</b>	(FLUTE & ANGLE) #6	6	5/8	4	3/4	1-3/4	-	96.78	-
<b>CSK</b>	(FLUTE & ANGLE) #7	7	5/8	4-3/8	1	2	-	116.78	-
<b>CSK</b>	(FLUTE & ANGLE) #8	8	3/4	4-3/4	1-1/4	2-1/2	-	137.54	-

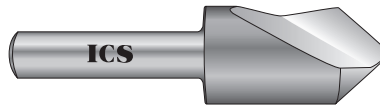
# HIGH SPEED STEEL SINGLE FLUTE COUNTERSINKS

**ICS USA**

**GENERAL PURPOSE**

**RIGHT HAND CUT**

**STRAIGHT SHANK**



**RADIAL RELIEF**

Single flute countersinks should be used when multi-flute countersinks chatter or the hole is too small for a multi-flute countersink to enter. Use for machine and portable work when operating at higher speeds. Drilled hole should be at least 10% of the diameter of countersink. Single flute countersinks are available with 60 degree, 82 degree, 90 degree, 100 degree, 110 degree and 120 degree point angles.

ITEM NO.		SIZE	SHANK DIA.	OVERALL LENGTH	POINT ANGLE					
ALPHA PREFIX	NUMERIC SUFFIX (FLUTES & ANGLE)-SIZE				60°	82°	90°	100°	110°	120°
					<b>CSK160</b>	<b>CSK182</b>	<b>CSK190</b>	<b>CSK100</b>	<b>CSK110</b>	<b>CSK120</b>
<b>CSK</b>	(FLUTE & ANGLE)-008	1/8	1/8	1-1/2	\$ 6.72	\$ 6.72	\$ 6.72	\$ 6.72	\$ 6.72	\$ 6.72
<b>CSK</b>	(FLUTE & ANGLE)-012	3/16	3/16	1-1/2	6.72	6.72	6.72	6.72	6.72	6.72
<b>CSK</b>	(FLUTE & ANGLE)-016	1/4	3/16	1-1/2	6.72	6.72	6.72	6.72	6.72	6.72
<b>CSK</b>	(FLUTE & ANGLE)-020	5/16	1/4	1-7/8	7.26	7.26	7.26	7.26	7.26	7.26
<b>CSK</b>	(FLUTE & ANGLE)-024	3/8	1/4	1-7/8	8.58	8.58	8.58	8.58	8.58	8.58
<b>CSK</b>	(FLUTE & ANGLE)-032	1/2	1/4	2	12.32	12.32	12.32	12.32	12.32	12.32
<b>CSK</b>	(FLUTE & ANGLE)-032A	1/2	3/8	2	12.32	12.32	12.32	12.32	12.32	12.32
<b>CSK</b>	(FLUTE & ANGLE)-040	5/8	3/8	2-1/4	17.14	17.14	17.14	17.14	-	-
<b>CSK</b>	(FLUTE & ANGLE)-048	3/4	3/8	2-1/2	24.08	24.08	24.08	24.08	24.08	24.08
<b>CSK</b>	(FLUTE & ANGLE)-048A	3/4	1/2	2-1/2	22.96	22.96	22.96	22.96	22.96	22.96
<b>CSK</b>	(FLUTE & ANGLE)-056	7/8	1/2	2-1/2	33.28	33.28	33.28	33.28	33.28	33.28
<b>CSK</b>	(FLUTE & ANGLE)-100	1	1/2	2-3/4	36.44	36.44	36.44	36.44	-	36.44
<b>CSK</b>	(FLUTE & ANGLE)-116	1-1/4	1/2	3-3/8	62.40	62.40	62.40	62.40	-	-
<b>CSK</b>	(FLUTE & ANGLE)-116A	1-1/4	3/4	3-3/8	62.40	62.40	62.40	62.40	-	62.40
<b>CSK</b>	(FLUTE & ANGLE)-132	1-1/2	1/2	3-1/2	87.36	87.36	87.36	-	-	87.36
<b>CSK</b>	(FLUTE & ANGLE)-132A	1-1/2	3/4	3-1/2	78.40	78.40	78.40	78.40	-	78.40
<b>CSK</b>	(FLUTE & ANGLE)-200	2	1/2	4	151.46	151.46	151.46	-	-	151.46
<b>CSK</b>	(FLUTE & ANGLE)-200A	2	3/4	4	142.50	142.50	142.50	142.50	-	142.50
<b>CSK</b>	(FLUTE & ANGLE)-232	2-1/2	3/4	5	313.60	313.60	313.60	313.60	-	-
<b>CSK</b>	(FLUTE & ANGLE)-300	3	3/4	5-1/4	392.00	392.00	392.00	392.00	-	-