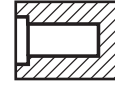


# HIGH SPEED STEEL 90° ANGLE STEP DRILLS

ICS USA

SPECIAL PURPOSE

118° POINT



High Speed Steel 90° Angle Step Drills are designed for drilling and counterboring 90° cap screw clearance holes in one operation, saving machine time and reducing set up time. They can be resharpened or modified for a special length of step and are available in jobber length or taper length drill styles.

## For Drilling 90° Holes and Counterboring Cap Screw Clearance Holes

SCREW SIZE	MINOR DIA.	MAJOR DIA.	STEP LENGTH	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	ITEM NO.	PRICE
#4	.136	7/32	3/8	7/32	2-1/2	3-3/4	SDJL90-#04	12.22
#5	.141	#1	3/8	#1	2-5/8	3-7/8	SDJL90-#05	13.06
#6	.150	1/4	1/2	1/4	2-3/4	4	SDJL90-#06	13.88
#8	.178	"L"	1/2	"L"	2-15/16	4-1/4	SDJL90-#08	15.94
#10	.204	"Q"	5/8	"Q"	3-7/16	4-3/4	SDJL90-#10	17.30
1/4	9/32	13/32	11/16	13/32	3-7/8	5-1/4	SDJL90-016	20.06
5/16	11/32	1/2	3/4	1/2	4-1/2	6	SDJL90-020	48.80
3/8	13/32	19/32	7/8	19/32	5-3/16	7-1/8	SDJL90-024	38.18
7/16	15/32	11/16	1	11/16	5-5/8	7-5/8	SDJL90-028	46.18
*1/2	17/32	25/32	1	25/32	3-1/4	5-1/8	SDJL90-032	53.20
*5/8	21/32	31/32	1	31/32	3-7/8	5-7/8	SDJL90-040	66.68

\*Shorter than jobber length.

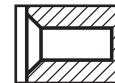
Reduced 1/2" shank available on screw sizes 3/8 to 5/8. (Add \$3.00)

# HIGH SPEED STEEL 45° ANGLE STEP DRILLS

ICS USA

SPECIAL PURPOSE

118° POINT



High Speed Steel 45° Angle Step Drills are designed for drilling 45° chamfered holes to be tapped in one operation. The chamfered hole ensures alignment of tap threads and should always be used with thread forming taps as they displace metal above the mouth of the hole. They can be resharpened or modified for a special length of step and are available in jobber length or taper length drill styles.

## For Drilling 45° Chamfered Holes to be Tapped (to produce approx. 70° thread)

SCREW SIZE	MINOR DIA.	MAJOR DIA.	STEP LENGTH	SHANK DIA.	FLUTE LENGTH	OVERALL LENGTH	ITEM NO.	PRICE
#4-40	.089	.1285	3/8	.1285	1-5/8	2-3/4	SDJL45-#04-40	12.08
#5-40	.101	9/64	1/2	9/64	1-3/4	2-7/8	SDJL45-#05-40	12.92
#6-32	.109	5/32	1/2	5/32	2	3-1/8	SDJL45-#06-32	12.94
#8-32	.136	3/16	1/2	3/16	2-5/16	3-1/2	SDJL45-#08-32	13.26
#8-36	.136	3/16	1/2	3/16	2-5/16	3-1/2	SDJL45-#08-36	13.44
#10-24	.152	1/4	5/8	1/4	2-3/4	4	SDJL45-#10-24	14.28
#10-32	.161	1/4	5/8	1/4	2-3/4	4	SDJL45-#10-24	14.28
#12-24	.179	9/32	11/16	9/32	2-15/16	4-1/4	SDJL45-#12-24	16.36
1/4-20	.204	21/64	13/16	21/64	3-5/16	4-5/8	SDJL45-016-20	17.56
1/4-28	.218	21/64	13/16	21/64	3-5/16	4-5/8	SDJL45-016-28	17.56
5/16-18	.261	13/32	15/16	13/32	3-7/8	5-1/4	SDJL45-020-18	20.06
5/16-24	.272	13/32	15/16	13/32	3-7/8	5-1/4	SDJL45-020-24	20.06
3/8-16	.316	31/64	1	31/64	4-3/8	5-7/8	SDJL45-024-16	26.52
3/8-24	.339	31/64	1	31/64	4-3/8	5-7/8	SDJL45-024-24	26.52
7/16-14	.375	17/32	1-1/16	17/32	4-13/16	6-5/8	SDJL45-028-14	36.52
7/16-20	.390	17/32	1-1/16	17/32	4-13/16	6-5/8	SDJL45-028-20	36.52
1/2-13	.437	5/8	1-1/16	5/8	5-3/16	7-1/8	SDJL45-032-13	43.24
1/2-20	.452	5/8	1-1/16	5/8	5-3/16	7-1/8	SDJL45-032-20	43.24
5/8-11	.531	3/4	1-1/16	3/4	5-5/8	7-5/8	SDJL45-040-11	46.58

Reduced 1/2" shank available on screw sizes 7/16-14 to 5/8-11. (Add \$3.00)