



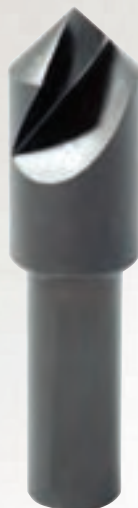
ZERO FLUTE COUNTERSINKS - HSS

- ▶ Designed with a radial relieved single edge for fast removal without chatter.
- ▶ Made from HSS material. Also available in M42 8% cobalt.
- ▶ 3/16" and 1/4" are double end.

SERIES*	SIZE	SHK	OAL	ENDS	ANGLE / EDP #	
					82°	
HS0-3/16	3/16	3/16	1-1/2	DE		19166
HS0-1/4	1/4	1/4	2	DE		19165
HS0-7/16	7/16	1/4	2-1/32	SE		19171
HS0-9/16	9/16	1/4	2	SE		19172
HS0-13/16	13/16	1/2	2-5/8	SE		19173
HS0-1-1/8	1-1/8	1/2	2-7/8	SE		19174
HS0-1-1/2	1-1/2	1/2	3-1/2	SE		19175

SINGLE FLUTE COUNTERSINKS - HSS

- ▶ Radial relief ensures smooth, chatter-free cutting without overfeeding and makes the tool self-centering.
- ▶ Black oxide surface treatment enhances tool life and prevents galling.
- ▶ Excellent countersink for use in hand held applications.
- ▶ Made from HSS. Also available in M42 8% cobalt and solid carbide.



SERIES*	SIZE	SHK	OAL	ENDS	ANGLE / EDP #				
					60°	82°	90°	100°	120°
HS1-1/8	1/8	1/8	1-1/2	SE	18000	18001	18002	18003	18004
HS1-3/16	3/16	3/16	1-1/2	SE	18005	18006	18007	18008	18009
HS1-1/4	1/4	1/4	2	SE	18010	18011	18012	18013	18014
HS1-5/16	5/16	1/4	2	SE	19201	19202	19203	19204	19186
HS1-3/8	3/8	1/4	2	SE	18015	18016	18017	18018	18019
HS1-1/2 (3/8 Shk)	1/2	3/8	2	SE	18020	18021	18022	19100	18024
HS1-1/2 (1/4 Shk)	1/2	1/4	2	SE	19095	19097	19099	18023	19191
HS1-5/8 (3/8 Shk)	5/8	3/8	2-1/4	SE	19188	19200	10967	19205	19209
HS1-5/8 (1/4 Shk)	5/8	1/4	2-1/4	SE	18026	18027	18028	19098	18030
HS1-5/8 (1/2 Shk)	5/8	1/2	2-1/4	SE	19074	19088	19101	18029	11801
HS1-3/4	3/4	1/2	2-3/4	SE	18031	18032	18033	18034	18035
HS1-7/8	7/8	1/2	2-3/4	SE	19206	19207	19208	19198	19187
HS1-1	1	1/2	2-3/4	SE	18036	18037	18038	18039	18040
HS1-1-1/4	1-1/4	1/2	3	SE	18041	18042	18043	19193	19192
** HS1-1-1/2	1-1/2	3/4	3-1/2	SE	18044	18045	18046	19176	19189
** HS1-1-3/4	1-3/4	3/4	4-1/4	SE	19194	19195	19197	19199	19185
** HS1-2	2	3/4	3-3/4	SE	18047	18048	18049	19184	19183
** HS1-2-1/2	2-1/2	3/4	4-3/4	SE	19182	18050	18051	19181	19180
** HS1-3	3	3/4	5	SE	19179	19178	19177	19190	19196

4 FLUTE COUNTERSINKS - HSS

- ▶ 2 + 2 staggered flute design for smooth, chatter-free cutting.
- ▶ Abundant chip clearance to work well in non-ferrous applications such as aluminum and plastic.
- ▶ Made from HSS material. Also available in solid carbide.



SERIES*	SIZE	SHK	OAL	ENDS	ANGLE / EDP #					
					60°	82°	90°	100°	110°	120°
HS4-1/8	1/8	1/8	1-1/2	SE	18567	18569	18571	18573	18575	18577
HS4-3/16	3/16	3/16	1-1/2	SE	18579	18581	18583	18585	18587	18589
HS4-1/4	1/4	1/4	2	SE	18591	18593	18595	18597	18599	18601
HS4-5/16	5/16	1/4	2	SE	18603	18605	18607	18609	18611	18613
HS4-3/8	3/8	1/4	2	SE	18615	18617	18619	18621	18623	18625
HS4-1/2	1/2	3/8	2	SE	18627	18629	18631	18633	18635	18637
HS4-5/8	5/8	3/8	2-1/4	SE	18639	18641	18643	18645	18647	18649
HS4-3/4	3/4	1/2	2-3/4	SE	18651	18653	18655	18657	18659	18661
HS4-7/8	7/8	1/2	2-3/4	SE	18663	18665	18667	18669	18671	18673
HS4-1	1	1/2	2-3/4	SE	18675	18677	18679	18681	18683	18685
HS4-1-1/4	1-1/4	1/2	3	SE	18687	18692	18688	18689	18690	18691
** HS4-1-1/2	1-1/2	3/4	3-1/2	SE	18693	18694	18695	18696	18697	18698
** HS4-2	2	3/4	3-3/4	SE	18699	18700	18701	18702	18703	18704
** HS4-2-1/2	2-1/2	3/4	5	SE	18705	18706	18707	10897	N/A	10901
** HS4-3	3	3/4	5-1/4	SE	18708	18709	18710	10899	N/A	10903

* COUNTERSINKS: To order countersinks, either use the EDP # listed or add the angle to the end of the series name (i.e. HS1-1/2-90). ** Drive tang

