

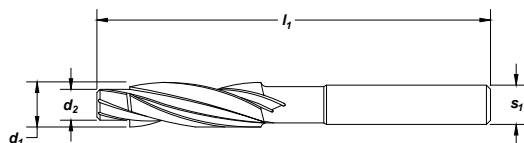
ANSI
SIZESDIN
1897

HSS

Straight
ShankSurface
Treatment

Bright

Counterbore



High Speed Steel

counterbore number	cutter diameter d_1 (in)	pilot diameter d_2 (in)	shank diameter s_1 (in)	overall length l_1 (in)	cap screw size	order no. 183
183-CSS-6	.230	.135	.219	3.000	No. 6	C91695
183-CSS-7	.242	.150	.219	3.000	No. 6	C91696
183-CSS-8	.274	.161	.250	3.000	No. 8	C91697
183-CSS-9	.286	.178	.250	3.000	No. 8	C91698
183-CSS-10	.316	.187	.313	3.500	No. 10	C91699
183-CSS-11	.328	.204	.313	3.500	No. 10	C91700
183-CSS-12	.348	.213	.344	3.500	No. 12	C91701
183-CSS-16	.375	.250	.375	3.500	No. 12	C91703
183-CSS-17	.391	.266	.375	5.750	1/4	C92704
183-CSS-18	.406	.281	.375	5.750	1/4	C92705
183-CSM-6	.433	.268	.438	6.000	6mm	C91830
183-CSS-20	.438	.313	.438	6.000	5/16	C92706
183-CSS-21	.453	.328	.438	6.000	5/16	C92708
183-CSS-20-60	.469	.313	.438	6.000	5/16	C92707
183-CSS-22	.469	.344	.438	6.000	5/16	C91710
183-CSS-21-60	.484	.328	.438	6.000	5/16	C91709
183-CSS-22-60	.500	.344	.438	6.000	5/16	C91711
183-CSS-24	.563	.375	.500	6.500	3/8	C91712
183-CSS-25	.578	.391	.500	6.500	3/8	C91713
183-CSS-26	.594	.406	.500	6.500	3/8	C91714
183-CSS-28	.625	.438	.500	7.000	7/16	C91715
183-CSS-29	.641	.453	.500	7.000	7/16	C91717
183-CSS-30	.656	.469	.500	7.000	7/16	C91719
183-CSS-30-60	.688	.469	.500	7.000	7/16	C91720
183-CSM-10	.709	.433	.500	7.000	10mm	C91832
183-CSS-32	.750	.500	.500	7.250	1/2	C91721
183-CSS-33	.766	.516	.500	7.250	1/2	C91722
183-CSS-34	.781	.531	.500	7.250	1/2	C91723
183-CSM-12	.787	.531	.500	7.000	12mm	C91833
183-CSS-36	.813	.563	.750	7.500	9/16	C91724
183-CSS-40	.875	.625	.750	8.250	5/8	C91726
183-CSS-42	.906	.656	.750	8.250	5/8	C91728
183-CSS-42-60	.969	.656	.750	8.250	5/8	C91729
183-CSM-16	1.024	.689	.750	8.250	16mm	C91834
183-CSS-50	1.031	.781	1.000	8.813	3/4	C91734
183-CSS-50-60	1.156	.781	1.000	8.813	3/4	C91735
183-CSS-52-60	1.188	.813	1.000	8.813	3/4	C91737
183-CSM-20	1.299	.866	1.000	8.813	20mm	C91835
183-CSS-68-60	1.563	1.063	1.000	8.813	1	C91749
183-CSM-24	1.575	1.024	1.000	8.813	24mm	C92836

set number	no. of pieces	size range	order number
183-CSS-1	9	CSS-6, -8, -10, -12, -16, -20, -24, -28, -32	C91750
183-CSS-3	8	CSS-18, -20-60, -21-60, -22-60, -22, -26, -30, -34	C91770


Counterbore
High Speed Steel

Material Reference	Steel (HRc)				Stainless Steel			Cast Iron (HRc)		Aluminum and Non-Ferrous	Hi-Temp Alloy		Hardened Steel (HRc)
	Low Carbon		Alloy		Austenitic	Martensitic	PH	Gray	Nodular		Ni, Co, Fe Based Super Alloy	Titanium	
Hardness	13-38	>38	16-38	> 38	300 Series	400 series		18-22	22-32				>45
Bright	☆		☆					☆	☆				

☆ = Best Performance ◆ = Acceptable