

2018 GENERAL PURPOSE CATALOG



Premium Solid Carbide & Cobalt HSS End Mills, Drills, & Cutting Tools

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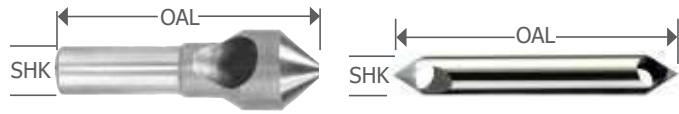
COUNTERSINKS

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0 FLUTE • SINGLE EDGE DOUBLE AND SINGLE END COUNTERSINK



SERIES: HSO



SIZE	SHK	OAL	ENDS	TOOL	EDP
3/16	3/16	1-1/2	DE	HSO-3/16-82	19166
1/4	1/4	2	DE	HSO-1/4-82	19165
7/16	1/4	2-1/32	SE	HSO-7/16-82	19171
9/16	1/4	2	SE	HSO-9/16-82	19172
13/16	1/2	2-5/8	SE	HSO-13/16-82	19173
1-1/8	1/2	2-7/8	SE	HSO-1-1/8-82	19174
1-1/2	1/2	3-1/2	SE	HSO-1-1/2-82	19175

- Designed with a radial relieved single edge for fast removal without chatter.
- 3/16" and 1/4" are double end.

0 FLUTE • SINGLE EDGE DOUBLE AND SINGLE END COUNTERSINK



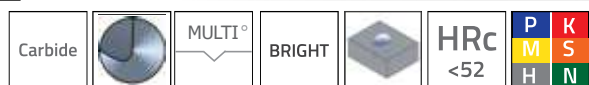
SERIES: HSP0



SIZE	SHK	OAL	ENDS	TOOL	ANGLE/EDP#		
					60°	82°	90°
1/4	1/4	1-1/2	DE	HSP0-1/4	19210	19211	19212
7/16	1/4	2-1/32	SE	HSP0-7/16	19213	19214	19215
9/16	1/4	2	SE	HSP0-9/16	19216	19217	19218
13/16	1/2	2-5/8	SE	HSP0-13/16	19219	19220	19221
1-1/8	1/2	2-7/8	SE	HSP0-1-1/8	19222	19223	19224

- Designed with a radial relieved single edge for fast removal without chatter.
 - Higher heat and abrasion resistance for use on high-tensile alloys, stainless steel, and other hard to machine abrasive materials.
- To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSP0-1/4-90).

1 FLUTE • CARBIDE COUNTERSINK



SERIES: C1



SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/8	1/8	1-1/2	C1-1/8	18328	18329	18330	18331	18332
3/16	3/16	1-1/2	C1-3/16	18333	18334	18335	18336	18337
1/4	1/4	2	C1-1/4	18338	18339	18340	18341	18342
5/16	1/4	2-1/2	C1-5/16	18343	18344	18345	18346	18347
3/8	1/4	2-1/2	C1-3/8	18348	18349	18350	18351	18352
1/2	3/8	2-1/2	C1-1/2	18353	18354	18355	18356	18357
5/8	3/8	2-5/8	C1-5/8	18358	18359	18360	18361	18362
3/4	1/2	2-3/4	C1-3/4	18363	18364	18365	18366	18367
1	1/2	3	C1-1	18493	18494	18495	18496	18497

- For highly abrasive and hard to machine materials. Applications in cast iron, alloy steel, or glass reinforced plastics.
 - Carbide eliminates the high cost of tool changes in production situations.
 - Rigid set up is a must - not suited for hand held applications.
 - Tools 3/8" and larger have solid carbide heads on hardened steel shanks.
- To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. C1-1/4-90).



1 FLUTE • SINGLE FLUTE COUNTERSINKS

SERIES: HS1



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

- 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.

** = Drive tang

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HS1-1/4-90).

1 FLUTE • EXTENDED LENGTH COUNTERSINKS



SERIES: HS1EL

SIZE	SHK	OAL	CORNER	TOOL	EDP
1/8	1/8	4	82°	HS1EL-1/8-82	11945
3/16	3/16	4	82°	HS1EL-3/16-82	11947
1/4	1/4	6	82°	HS1EL-1/4-82	11949
5/16	5/16	6	82°	HS1EL-5/16-82	11951
3/8	3/8	6	82°	HS1EL-3/8-82	11953
1/2	3/8	6	82°	HS1EL-1/2-82	11955
5/8	3/8	6	82°	HS1EL-5/8-82	11979
3/4	1/2	6	82°	HS1EL-3/4-82	11975
1	1/2	6	82°	HS1EL-1-82	11977

- Extended length for hard to reach applications.

COUNTERSINKS

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1 FLUTE • SINGLE FLUTE COUNTERSINK



SERIES: HSP1

SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/8	1/8	1-1/2	HSP1-1/8	11141	11143	11145	19674	19675
3/16	3/16	1-1/2	HSP1-3/16	11147	11149	11151	10260	19676
1/4	1/4	2	HSP1-1/4	11153	11155	11156	10314	19677
3/8	1/4	2	HSP1-3/8	11157	11158	11159	11675	10326
1/2	3/8	2	HSP1-1/2	11160	11161	11162	10248	10246
5/8	3/8	2-1/4	HSP1-5/8	11163	11164	11165	10440	10422
3/4	1/2	2-3/4	HSP1-3/4	11166	11167	11168	11677	10340
1	1/2	2-3/4	HSP1-1	11169	11170	11171	19678	19679
1-1/4	1/2	3	HSP1-1-1/4	11172	11173	11175	19680	19681
1-1/2	3/4	3-1/2	HSP1-1-1/2 **	19682	19683	19684	N/A	19686
1-3/4	3/4	3-1/2	HSP1-1-3/4 **	19687	19688	19689	N/A	N/A
2	3/4	3-3/4	HSP1-2 **	19692	19693	19694	N/A	N/A

** = Drive Tang.

Excellent for countersinking abrasive, high strength, heat resistant, exotic, and other difficult to machine materials.

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSP1-1/4-90).

1 FLUTE • SINGLE FLUTE COUNTERSINK - TiN COATED



SERIES: HSP1-__-T

SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/8	1/8	1-1/2	HSP1-1/8-T	18136	18137	18138	18139	18140
3/16	3/16	1-1/2	HSP1-3/16-T	18141	18142	18143	18144	18145
1/4	1/4	2	HSP1-1/4-T	18146	18147	18148	18149	18150
3/8	1/4	2	HSP1-3/8-T	18151	18152	18153	18154	18155
1/2	3/8	2	HSP1-1/2-T	18156	18157	18158	18159	18160
5/8	3/8	2-1/4	HSP1-5/8-T	18161	18162	18163	18164	18165
3/4	1/2	2-3/4	HSP1-3/4-T	18166	18167	18168	18169	18170
1	1/2	2-3/4	HSP1-1-T	18171	18172	18173	18174	18175
1-1/4	1/2	3	HSP1-1-1/4-T	18176	18177	18178	18179	18181
1-1/2	3/4	3-1/2	HSP1-1-1/2-T *	19630	19631	19632	19633	19634
1-3/4	3/4	4-1/4	HSP1-1-3/4-T *	19635	19636	19637	19638	19639
2	3/4	3-3/4	HSP1-2-T *	19640	19641	19642	19643	N/A

Coating can also help enhance productivity and extend tool life.

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSP1-1/4-T-90).

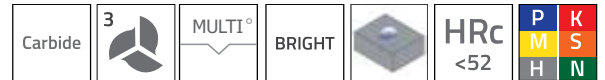
* = Drive Tang.

COUNTERSINKS



3 FLUTE • CARBIDE COUNTERSINK

SERIES: C3



SIZE	SHK	OAL	TOOL	ANGLE/EDP#		
				60°	82°	90°
1/8	1/8	1-1/2	C3-1/8	11393	11394	11395
3/16	3/16	1-1/2	C3-3/16	11399	11416	11424
1/4	1/4	2	C3-1/4	11410	11422	11487
5/16	1/4	2-1/2	C3-5/16	11491	11519	11525
3/8	1/4	2-1/2	C3-3/8	11527	11531	11533
1/2	3/8	2-1/2	C3-1/2	11535	11537	11539
5/8	3/8	2-5/8	C3-5/8	11541	11543	11545
3/4	1/2	2-3/4	C3-3/4	11547	11549	11553
7/8	1/2	3	C3-7/8	11555	11557	11559
1	1/2	3	C3-1	11561	11562	11563

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. C3-1/4-90).



3 FLUTE • HSS COUNTERSINKS

SERIES: HS3



SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/4	1/4	2	HS3-1/4-T	19600	19601	19602	19603	19604
3/8	1/4	2	HS3-3/8-T	19605	19606	19607	19608	19609
1/2	3/8	2	HS3-1/2-T	19610	19611	19612	19613	19614
5/8	3/8	2-1/4	HS3-5/8-T	19615	19616	19617	19618	19619
3/4	1/2	2-3/4	HS3-3/4-T	19620	19621	19622	19623	19624
1	1/2	2-3/4	HS3-1-T	19625	19626	19627	19628	19629

- Used for countersinking holes for centers or enlarging existing holes.
 - Radial relief on the angle contributes to smooth, chatter-free operation.
- To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HS3-1/4-T-90).



3 FLUTE • HSSCo M42 COUNTERSINKS



SERIES: HSP3

SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/4	1/4	2	HSP3-1/4	19697	19698	19699	19700	19701
3/8	1/4	2	HSP3-3/8	19702	19703	19704	19705	19706
1/2	3/8	2	HSP3-1/2	19707	19708	19709	19710	19711
5/8	3/8	2-1/4	HSP3-5/8	19712	19713	19714	19715	19716
3/4	1/2	2-3/4	HSP3-3/4	19717	19718	19719	19720	19721
1	1/2	2-3/4	HSP3-1	19722	19723	19724	19725	19726

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSP3-1/4-90).

COUNTERSINKS

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3 FLUTE • HSSCo M42 TiN COATED COUNTERSINKS



- Used for countersinking holes for centers or enlarging existing holes.
- Radial relief on the angle contributes to smooth, chatter-free operations.



SERIES: HSP3-__-T

SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/4	1/4	2	HSP3-1/4-T	19645	19646	19647	19648	19649
3/8	1/4	2	HSP3-3/8-T	19650	19651	19652	19653	19654
1/2	3/8	2	HSP3-1/2-T	19655	19656	10810	19657	19658
5/8	3/8	2-1/4	HSP3-5/8-T	19659	19660	19661	19662	19663
3/4	1/2	2-3/4	HSP3-3/4-T	19664	19665	19666	19667	19668
1	1/2	2-3/4	HSP3-1-T	19669	19670	19671	19672	19673

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSP3-1/4-T-90).

MULTI FLUTE • CENTER REAMER



SERIES: HSCR

SIZE	SHK	OAL	FLUTE	TOOL	ANGLE/EDP#			
					60°	82°	90°	100°
1/4	1/4	2	3	HSCR-1/4	19076	19078	19080	19082
3/8	1/4	2	3	HSCR-3/8	19084	19086	19075	19090
1/2	3/8	2	3	HSCR-1/2	19092	19094	19096	19093
5/8	3/8	2-1/4	3	HSCR-5/8	19091	19089	19087	19085
3/4	1/2	2-3/4	3	HSCR-3/4	19083	19081	19079	19077
1	1/2	2-3/4	3	HSCR-1	19227	19225	19226	12073
1-1/4	1/2	3	4	HSCR-1-1/4	19233	19232	19231	N/A
1-1/2	3/4	3-1/4	4	HSCR-1-1/2	19236	19235	19234	N/A
1-3/4	3/4	3-1/2	4	HSCR-1-3/4	19230	19229	19228	N/A
2	3/4	3-3/4	4	HSCR-2	19237	19238	19239	N/A

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSCR-1/4-T-90).

4 FLUTE • CARBIDE COUNTERSINK



- For highly abrasive and hard to machine materials.
- Applications in **cast iron, alloy steel, or glass reinforced plastics.**
- Carbide eliminates the high cost of tool changes in production situations.
- Rigid set up is a must - not suited for hand held applications.
- Tools 3/8" and larger have solid carbide heads on hardened steel shanks.
- See page 147 for Nose Diameter



SERIES: C4

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	C4-1/8	18956	18823	18957	18958	18959	18960
3/16	3/16	1-1/2	C4-3/16	N/A	18824	N/A	N/A	N/A	N/A
1/4	1/4	2	C4-1/4	18961	18825	18962	18963	18964	18965
5/16	1/4	2-1/2	C4-5/16	N/A	18826	N/A	N/A	N/A	N/A
3/8	1/4	2-1/2	C4-3/8	18966	18827	18967	18968	18969	18970
1/2	3/8	2-1/2	C4-1/2	18971	18828	18972	18973	18974	18975
5/8	3/8	2-5/8	C4-5/8	18976	18829	18977	18978	18979	18980
3/4	1/2	2-3/4	C4-3/4	18981	18830	18982	18983	18984	18985
1	1/2	3	C4-1	18986	18831	18987	18988	18989	18990

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. C4-1/4-90).



4 FLUTE • HSS COUNTERSINK

• See page 147 for Nose Diameter

SERIES: HS4



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

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HS4-1/4-90).

** = Drive tang



4 FLUTE • DRILL POINT COUNTERSINK

SERIES: HS4DP



SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	HS4DP-1/8	18568	18570	18572	18574	18576	18578
3/16	3/16	1-1/2	HS4DP-3/16	18580	18582	18584	18586	18588	18590
1/4	1/4	2	HS4DP-1/4	18592	18594	18596	18598	18600	18602
5/16	1/4	2	HS4DP-5/16	18604	18606	18608	18610	18612	18614
3/8	1/4	2	HS4DP-3/8	18616	18618	18620	18622	18624	18626
1/2	3/8	2	HS4DP-1/2	18628	18630	18632	18634	18636	18638
5/8	3/8	2-1/4	HS4DP-5/8	18640	18642	18644	18646	18648	18650
3/4	1/2	2-3/4	HS4DP-3/4	18652	18654	18656	18658	18660	18662
7/8	1/2	2-3/4	HS4DP-7/8	18664	18666	18668	18670	18672	18674
1	1/2	2-3/4	HS4DP-1	18676	18678	18680	18682	18684	18686

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HS4DP-1/4-90).



4 FLUTE • MACHINE STYLE COUNTERSINK

SERIES: HSMC



SIZE	SHK	OAL	TOOL	ANGLE/EDP#		
				60°	82°	90°
1/2	1/2	3-7/8	HSMC-1/2	19102	19103	12055
5/8	1/2	4	HSMC-5/8	19104	19105	N/A
3/4	1/2	4-1/4	HSMC-3/4	19106	19107	12783
7/8	1/2	4-1/4	HSMC-7/8	19108	19109	19154
1	1/2	4-3/8	HSMC-1	19110	19111	19255

• Has radial clearance & added shank length for use in turret lathes and screw machine work.

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSMC-1/2-90).

COUNTERSINKS

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6 FLUTE • CARBIDE COUNTERSINK



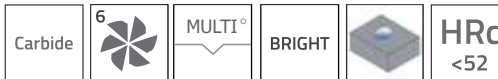
- For highly abrasive and hard to machine materials. Applications in **cast iron, alloy steel, or glass reinforced plastics**.
- Carbide eliminates the high cost of tool changes in production situations.
- Rigid set up is a must - not suited for hand held applications.
- Tools 3/8" and larger have solid carbide heads on hardened steel shanks.
- See page 147 for Nose Diameter

SERIES: C6

SIZE	SHK	OAL	TOOL	ANGLE/EDP#				
				60°	82°	90°	100°	120°
1/8	1/8	1-1/2	C6-1/8	18368	18369	18370	18371	18372
3/16	3/16	1-1/2	C6-3/16	18373	18374	18375	18376	18377
1/4	1/4	2	C6-1/4	18378	18379	18380	18381	18382
5/16	1/4	2-1/2	C6-5/16	18383	18384	18385	18386	18387
3/8	1/4	2-1/2	C6-3/8	18388	18389	18390	18391	18392
1/2	3/8	2-1/2	C6-1/2	18393	18394	18395	18396	18397
5/8	3/8	2-5/8	C6-5/8	18398	18399	18400	18401	18402
3/4	1/2	2-3/4	C6-3/4	18403	18404	18405	18406	18407
7/8	1/2	3	C6-7/8	11565	11567	11569	N/A	N/A
1	1/2	3	C6-1	18488	18489	18490	18491	18492
1-1/4	3/4	3-3/8	C6-1-1/4	10891	10893	10895	N/A	N/A

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. C6-1/4-90).

6 FLUTE • NC - CARBIDE CNC PRECISION COUNTERSINK



- 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**.
- See page 147 for Nose Diameter



SERIES: C6NC

				ANGLE/EDP#					
SIZE	SHK	OAL	TOOL	60°	82°	90°	100°	110°	120°
3/16	3/16	1-1/2	C6NC-3/16	N/A	18807	N/A	N/A	N/A	N/A
1/4	1/4	2	C6NC-1/4	18886	18808	18887	18888	18889	18890
5/16	1/4	2-1/2	C6NC-5/16	N/A	18809	N/A	N/A	N/A	N/A
3/8	1/4	2-1/2	C6NC-3/8	18891	19070	18892	18893	18894	18895
1/2	3/8	2-1/2	C6NC-1/2	18896	18810	18897	18898	18899	18900
5/8	3/8	2-5/8	C6NC-5/8	18901	18811	18902	18903	18904	18905
3/4	1/2	2-3/4	C6NC-3/4	18906	18812	18907	18908	18909	18910
7/8	1/2	3	C6NC-7/8	11441	N/A	N/A	N/A	N/A	N/A
1	1/2	3	C6NC-1	18911	18813	18912	18913	18914	18915

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. C6NC-1/4-90).

6 FLUTE • NC - HSS CNC PRECISION COUNTERSINK



- Drill and countersink with one tool.
- A thin web drill point is blended into 2 flutes of a 4 flute countersink to spot drill and countersink in one operation.
- See page 147 for Nose Diameter



SERIES: HS6NC

				ANGLE/EDP#					
SIZE	SHK	OAL	TOOL	60°	82°	90°	100°	110°	120°
3/16	3/16	1-1/2	HS6NC-3/16	18498	18499	18500	18501	18502	18503
1/4	1/4	2	HS6NC-1/4	18504	18505	18506	18507	18508	18509
5/16	1/4	2	HS6NC-5/16	18510	18511	18512	18513	18515	18516
3/8	1/4	2	HS6NC-3/8	18517	18518	18520	18521	18522	18523
1/2	3/8	2	HS6NC-1/2	18524	18525	18526	18527	18528	18529
5/8	3/8	2-1/4	HS6NC-5/8	18530	18531	18532	18534	18535	18536
3/4	1/2	2-1/4	HS6NC-3/4	18537	18538	18539	18540	18541	18542
7/8	1/2	2-3/4	HS6NC-7/8	18543	18544	18545	18547	18548	18549
1	1/2	2-3/4	HS6NC-1	18550	18551	18552	18553	18554	18555

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HS6NC-1/4-90).



6 FLUTE • HSS COUNTERSINK

• See page 147 for Nose Diameter

HSS

6

MULTI°

Black Oxide

HRC <52

P

M

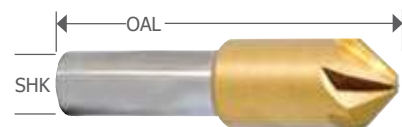
S

N

SERIES: HS6

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	HS6-1/8	18052	18053	18054	18055	18056	18057
3/16	3/16	1-1/2	HS6-3/16	18058	18059	18060	18061	18062	18063
1/4	1/4	2	HS6-1/4	18064	18065	18066	18067	18068	18069
5/16	1/4	2	HS6-5/16	18070	18071	18072	18073	18074	18075
3/8	1/4	2	HS6-3/8	18076	18077	18078	18079	18080	18081
1/2	3/8	2	HS6-1/2	18082	18083	18084	18085	18086	18087
1/2	1/4	2	HS6-1/2 (1/4)	19310	19311	19312	N/A	N/A	N/A
5/8	1/4	2-1/4	HS6-5/8 (1/4)	N/A	13041	N/A	N/A	N/A	N/A
5/8	3/8	2-1/4	HS6-5/8	18088	18089	18090	18091	18092	18093
5/8	1/2	2-1/4	HS6-5/8 (1/2)	19313	19314	19315	N/A	N/A	N/A
3/4	1/2	2-3/4	HS6-3/4	18094	18095	18096	18097	18098	18099
7/8	1/2	2-3/4	HS6-7/8	18100	18101	18102	18103	18104	18105
1	1/2	2-3/4	HS6-1	18106	18107	18108	18109	18110	18111
1-1/4	1/2	3	HS6-1-1/4	18112	18113	18114	18115	18116	18117
1-1/4	3/4	3	HS6-1-1/4 (3/4)	19316	19317	19318	N/A	N/A	N/A
1-1/2	3/4	3-1/2	HS6-1-1/2 **	18118	18119	18120	18121	18122	18123
1-3/4	1	4-1/4	HS6-1-3/4	19319	19320	19321	N/A	N/A	N/A
2	3/4	3-3/4	HS6-2 **	18124	18125	18126	18127	18128	18129
2-1/2	3/4	5	HS6-2-1/2 **	18130	18131	18132	N/A	N/A	N/A
3	3/4	5-1/4	HS6-3 **	18133	18134	18135	N/A	N/A	N/A
3	1	5-1/4	HS6-3 (1)	10806	N/A	N/A	N/A	N/A	N/A

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HS6-1/4-90).
 **:- Drive Tang



6 FLUTE • HSSCo M42 COUNTERSINK

• See page 147 for Nose Diameter

HSSCo M42

6

MULTI°

TiN

HRC <52

P

M

S

N

SERIES: HSP6-__-T

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	HSP6-1/8-T	18182	18183	18184	18185	18186	18187
3/16	3/16	1-1/2	HSP6-3/16-T	18188	18189	18190	18191	18192	18193
1/4	1/4	2	HSP6-1/4-T	18194	18195	18196	18197	18198	18199
5/16	1/4	2	HSP6-5/16-T	18200	18201	18202	18203	18204	18205
3/8	1/4	2	HSP6-3/8-T	18206	18207	18208	18209	18210	18211
1/2	3/8	2	HSP6-1/2-T	18212	18213	18214	18215	18216	18217
5/8	3/8	2-1/4	HSP6-5/8-T	18218	18219	18220	18221	18222	18223
3/4	1/2	2-3/4	HSP6-3/4-T	18224	18225	18226	18227	18228	18229
7/8	1/2	2-3/4	HSP6-7/8-T	18230	18231	18232	18233	18234	18235
1	1/2	2-3/4	HSP6-1-T	18236	18237	18238	18239	18240	18241
1-1/4	1/2	3	HSP6-1-1/4-T	18242	18243	18244	N/A	N/A	N/A

• Excellent for countersinking abrasive, high-strength, heat resistant, exotic, and other difficult to machine materials.
 To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. HSP6-1/4-T-90).

COUNTERSINKS

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6 FLUTE • EXTENDED LENGTH COUNTERSINK

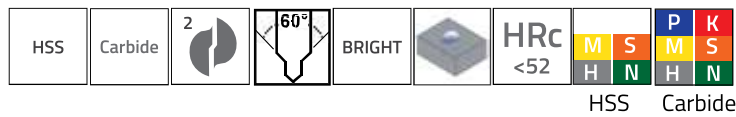


SERIES: HS6EL

SIZE	SHK	OAL	CORNER	TOOL	EDP
1/8	1/8	4	82°	HS6EL-1/8-82	11961
3/16	3/16	4	82°	HS6EL-3/16-82	11963
1/4	1/4	6	82°	HS6EL-1/4-82	11965
5/16	5/16	6	82°	HS6EL-5/16-82	11967
3/8	3/8	6	82°	HS6EL-3/8-82	11969
1/2	3/8	6	82°	HS6EL-1/2-82	11971
5/8	3/8	6	82°	HS6EL-5/8-82	11973
3/4	1/2	6	82°	HS6EL-3/4-82	11957
1	1/2	6	82°	HS6EL-1-82	11959

• Extended length for hard to reach applications.

2 FLUTE • 60° DOUBLE END COMBINED DRILL COUNTERSINK



SERIES: HSCD OR KDR

SIZE	SHK	DRILL DIA	DRILL LENGTH	OAL	HSS TOOL	HSS BRIGHT EDP	CARBIDE TOOL	CARBIDE BRIGHT EDP
00	1/8	0.025	0.030	1-1/2	HSCD-00*	11587	KDR-00	17362
0	1/8	1/32	0.038	1-1/2	HSCD-0*	11589	KDR-0	17363
1	1/8	3/64	3/64	1-1/2	HSCD-1*	11591	KDR-1	17364
2	3/16	5/64	5/64	2	HSCD-2**	11593	KDR-2	17365
3	1/4	7/64	7/64	2	HSCD-3	11595	KDR-3	17366
4	5/16	1/8	1/8	2-1/8	HSCD-4	11597	KDR-4	17367
5	7/16	3/16	3/16	2-3/4	HSCD-5	11599	KDR-5	17368
6	1/2	7/32	7/32	3	HSCD-6	11601	KDR-6	17369
7	5/8	1/4	1/4	3-1/4	HSCD-7	11603	KDR-7	10611
8	3/4	5/16	5/16	3-1/2	HSCD-8	11605	KDR-8	10613

• For centering and spot drilling applications when high accuracy is necessary

* = 1-1/4 OAL

** = 1-7/8 OAL



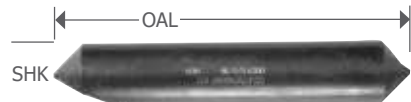
1 FLUTE • DOUBLE END CARBIDE COUNTERSINK



SERIES: DC1

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DC1-1/8	18408	18409	18410	18411	10919	18412
3/16	3/16	2	DC1-3/16	18413	18414	18415	18416	10921	18417
1/4	1/4	2	DC1-1/4	18418	18419	18420	18421	10923	18422
5/16	5/16	2-1/2	DC1-5/16	18423	18424	18425	18426	10925	18427
3/8	3/8	2-1/2	DC1-3/8	18428	18429	18430	18431	10927	18432
1/2	1/2	3	DC1-1/2	18433	18434	18435	18436	10929	18437
5/8	5/8	3-1/2	DC1-5/8	18438	18439	18440	18441	10931	18442
3/4	3/4	4	DC1-3/4	18443	18444	18445	18446	10933	18447

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DC1-1/4-90).



1 FLUTE • DOUBLE END HSS COUNTERSINK



SERIES: DHS1

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DHS1-1/8	18248	18249	18250	18251	10905	18252
3/16	3/16	2	DHS1-3/16	18253	18254	18255	18256	10907	18257
1/4	1/4	2	DHS1-1/4	18258	18259	18260	18261	10909	18262
5/16	5/16	2-1/2	DHS1-5/16	18263	18264	18265	18266	10911	18267
3/8	3/8	2-1/2	DHS1-3/8	18268	18269	18270	18271	10913	18272
1/2	1/2	3	DHS1-1/2	18273	18274	18275	18276	19163	18277
5/8	5/8	3-1/2	DHS1-5/8	18278	18279	18280	18281	10915	18282
3/4	3/4	4	DHS1-3/4	18283	18284	18285	18286	10917	18287

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DHS1-1/4-90).

4 FLUTE • DOUBLE END CARBIDE DRILL POINT COUNTERSINK



SERIES: DC4DP

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DC4DP-1/8	18992	18833	18994	18996	18998	19000
3/16	3/16	2	DC4DP-3/16	19002	18835	19004	19006	19008	19010
1/4	1/4	2	DC4DP-1/4	19012	18837	19014	19016	19018	19020
5/16	5/16	2-1/2	DC4DP-5/16	19022	19071	19024	19026	19028	19030
3/8	3/8	2-1/2	DC4DP-3/8	19032	18840	19034	19036	19038	19040
1/2	1/2	3	DC4DP-1/2	19042	18842	19044	19046	19048	19050
5/8	5/8	3-1/2	DC4DP-5/8	19052	18843	19054	19056	19058	19060
3/4	3/4	4	DC4DP-3/4	19061	18845	19063	19065	19067	19069

- Drill and countersink with one tool.
 - Can save setup and production time by combining two operations into one.
- To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DHS1-1/4-90).

COUNTERSINKS

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4 FLUTE • DOUBLE END CARBIDE COUNTERSINK

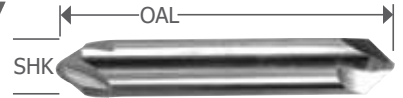


SERIES: DC4

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DC4-1/8	18991	18832	18993	18995	18997	18999
3/16	3/16	2	DC4-3/16	19001	18834	19003	19005	19007	19009
1/4	1/4	2	DC4-1/4	19011	18836	19013	19015	19017	19019
5/16	5/16	2-1/2	DC4-5/16	19021	18838	19023	19025	19027	19029
3/8	3/8	2-1/2	DC4-3/8	19031	18839	19033	19035	19037	19039
1/2	1/2	3	DC4-1/2	19041	18841	19043	19045	19047	19049
5/8	5/8	3-1/2	DC4-5/8	19051	18479	19053	19055	19057	19059
3/4	3/4	4	DC4-3/4	19072	18844	19062	19064	19066	19068

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DC4-1/4-90).

4 FLUTE • DOUBLE END HSS COUNTERSINK



SERIES: DHS4

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DHS4-1/8	18711	18713	18715	18717	18719	18721
3/16	3/16	2	DHS4-3/16	18723	18725	18727	18729	18731	18733
1/4	1/4	2	DHS4-1/4	18735	18737	18739	18741	18743	18745
5/16	5/16	2-1/2	DHS4-5/16	18747	18749	18751	18753	18755	18757
3/8	3/8	2-1/2	DHS4-3/8	18759	18761	18763	18765	18767	18769
1/2	1/2	3	DHS4-1/2	18771	18773	18775	18777	18779	18781
5/8	5/8	3-1/2	DHS4-5/8	18783	18785	18787	18789	18791	18793
3/4	3/4	4	DHS4-3/4	18795	18797	18799	18801	18803	18805

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DHS4-1/4-90).

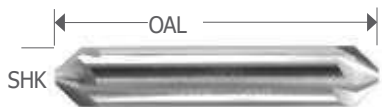
4 FLUTE • DOUBLE END HSS DRILL POINT COUNTERSINK



SERIES: DHS4DP

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DHS4DP-1/8	18712	18714	18716	18718	18720	18722
3/16	3/16	2	DHS4DP-3/16	18724	18726	18728	18730	18732	18734
1/4	1/4	2	DHS4DP-1/4	18736	18738	18740	18742	18744	18746
5/16	5/16	2-1/2	DHS4DP-5/16	18748	18750	18752	18754	18756	18758
3/8	3/8	2-1/2	DHS4DP-3/8	18760	18762	18764	18766	18768	18770
1/2	1/2	3	DHS4DP-1/2	18772	18774	18776	18778	18780	18782
5/8	5/8	3-1/2	DHS4DP-5/8	18784	18786	18788	18790	18792	18794
3/4	3/4	4	DHS4DP-3/4	18796	18798	18800	18802	18804	18806

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DHS4DP 1/4 90).



6 FLUTE • DOUBLE END CARBIDE COUNTERSINK

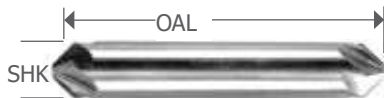
• See page 147 for Nose Diameter



SERIES: DC6

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DC6-1/8	18448	18449	18450	18451	N/A	18452
3/16	3/16	2	DC6-3/16	18453	18454	18455	18456	N/A	18457
1/4	1/4	2	DC6-1/4	18458	18459	18460	18461	19073	18462
5/16	5/16	2-1/2	DC6-5/16	18463	18464	18465	18466	N/A	18467
3/8	3/8	2-1/2	DC6-3/8	18468	18469	18470	18471	N/A	18472
1/2	1/2	3	DC6-1/2	18473	18474	18475	18476	N/A	18477
5/8	5/8	3-1/2	DC6-5/8	18478	18820	18480	18481	N/A	18482
3/4	3/4	4	DC6-3/4	18483	18484	18485	18486	N/A	18487

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DC6-1/4-90).



4 FLUTE • DOUBLE END HSS COUNTERSINK



SERIES: DHS6

SIZE	SHK	OAL	TOOL	ANGLE/EDP#					
				60°	82°	90°	100°	110°	120°
1/8	1/8	1-1/2	DHS6-1/8	18288	18289	18290	18291	19162	18292
3/16	3/16	2	DHS6-3/16	18293	18294	18295	18296	18558	18297
1/4	1/4	2	DHS6-1/4	18298	18299	18300	18301	18560	18302
5/16	5/16	2-1/2	DHS6-5/16	18303	18304	18305	18306	18562	18307
3/8	3/8	2-1/2	DHS6-3/8	18308	18309	18310	18311	N/A	18312
1/2	1/2	3	DHS6-1/2	18313	18314	18315	18316	N/A	18317
5/8	5/8	3-1/2	DHS6-5/8	18318	18319	18320	18321	N/A	18322
3/4	3/4	4	DHS6-3/4	18323	18324	18325	18326	N/A	18327

To order countersinks: Use the EDP # listed or add the angle to the end of the tool name (i.e. DHS6-1/4-90).



COUNTERSINK SETS

HSS					
PCS	ANGLE	FLT	MATERIAL	SIZES	EDP
4	82	0	HSS	1/4, 7/16, 9/16, 13/16"	19170
5	82	1	HSS	1/4 to 1"	19169
5	90	1	HSS	1/4 to 1"	19168
6	82	6	HSS	1/4 to 1"	19167
8	60	6	HSS	1/4 to 1"	90022
8	82	6	HSS	1/4 to 1"	90023
8	90	6	HSS	1/4 to 1"	90021
10	60	6	HSS	1/4 to 1-1/2"	90024
10	82	6	HSS	1/4 to 1-1/2"	90025
10	90	6	HSS	1/4 to 1-1/2"	90020

CARBIDE					
PCS	ANGLE	FLT	MATERIAL	SIZES	EDP
5	60	1	CARBIDE	1/4 to 1"	90026
5	82	1	CARBIDE	1/4 to 1"	90027
5	90	1	CARBIDE	1/4 to 1"	90028
5	60	6	CARBIDE	1/4 to 1"	15545
5	82	6	CARBIDE	1/4 to 1"	15547
5	90	6	CARBIDE	1/4 to 1"	15549
8	60	6	CARBIDE	1/4 to 1"	90029
8	82	6	CARBIDE	1/4 to 1"	90030
8	90	6	CARBIDE	1/4 to 1"	90031