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# HSS JOBBERS LENGTH DRILLS 118° POINT

## DWDN Series - Surface Treated Economy

### D/AN Series - Surface Treated Premium Quality

A dependable, general purpose drill designed to perform in a broad range of materials in the iron and steel families. Ideal for production, maintenance or portable drilling jobs. Surface treated with abrasion-resistant black oxide.



## DWDP Series - Polished Economy

### D/AP Series - Polished Premium Quality

A dependable, general purpose drill used for a variety of materials. Ideal for production, maintenance or portable drilling jobs. Bright finish, which provides superior chip evacuation.



## F R A C T I O N A L   S I Z E S

				DWDN Series	D/AN Series	DWDP Series	D/AP Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number	Part Number
1/64"	.0156	3/16"	3/4"	DWDN1/64	D/AN1/64	DWDP1/64	D/AP1/64
1/32"	.0312	1/2"	1-3/8"	DWDN1/32	D/AN1/32	DWDP1/32	D/AP1/32
3/64"	.0469	3/4"	1-3/4"	DWDN3/64	D/AN3/64	DWDP3/64	D/AP3/64
1/16"	.0625	7/8"	1-7/8"	DWDN1/16	D/AN1/16	DWDP1/16	D/AP1/16
5/64"	.0781	1"	2"	DWDN5/64	D/AN5/64	DWDP5/64	D/AP5/64
3/32"	.0938	1-1/4"	2-1/4"	DWDN3/32	D/AN3/32	DWDP3/32	D/AP3/32
7/64"	.1094	1-1/2"	2-5/8"	DWDN7/64	D/AN7/64	DWDP7/64	D/AP7/64
1/8"	.1250	1-5/8"	2-3/4"	DWDN1/8	D/AN1/8	DWDP1/8	D/AP1/8
9/64"	.1406	1-3/4"	2-7/8"	DWDN9/64	D/AN9/64	DWDP9/64	D/AP9/64
5/32"	.1562	2"	3-1/8"	DWDN5/32	D/AN5/32	DWDP5/32	D/AP5/32
11/64"	.1719	2-1/8"	3-1/4"	DWDN11/64	D/AN11/64	DWDP11/64	D/AP11/64
3/16"	.1875	2-5/16"	3-1/2"	DWDN3/16	D/AN3/16	DWDP3/16	D/AP3/16
13/64"	.2031	2-7/16"	3-5/8"	DWDN13/64	D/AN13/64	DWDP13/64	D/AP13/64
7/32"	.2188	2-1/2"	3-3/4"	DWDN7/32	D/AN7/32	DWDP7/32	D/AP7/32
15/64"	.2344	2-5/8"	3-7/8"	DWDN15/64	D/AN15/64	DWDP15/64	D/AP15/64
1/4"	.2500	2-3/4"	4"	DWDN1/4	D/AN1/4	DWDP1/4	D/AP1/4
17/64"	.2656	2-7/8"	4-1/8"	DWDN17/64	D/AN17/64	DWDP17/64	D/AP17/64
9/32"	.2812	2-15/16"	4-1/4"	DWDN9/32	D/AN9/32	DWDP9/32	D/AP9/32
19/64"	.2969	3-1/16"	4-3/8"	DWDN19/64	D/AN19/64	DWDP19/64	D/AP19/64
5/16"	.3125	3-3/16"	4-1/2"	DWDN5/16	D/AN5/16	DWDP5/16	D/AP5/16
21/64"	.3281	3-5/16"	4-5/8"	DWDN21/64	D/AN21/64	DWDP21/64	D/AP21/64
11/32"	.3438	3-7/16"	4-3/4"	DWDN11/32	D/AN11/32	DWDP11/32	D/AP11/32
23/64"	.3594	3-1/2"	4-7/8"	DWDN23/64	D/AN23/64	DWDP23/64	D/AP23/64
3/8"	.3750	3-5/8"	5"	DWDN3/8	D/AN3/8	DWDP3/8	D/AP3/8
25/64"	.3906	3-3/4"	5-1/8"	DWDN25/64	D/AN25/64	DWDP25/64	D/AP25/64
13/32"	.4062	3-7/8"	5-1/4"	DWDN13/32	D/AN13/32	DWDP13/32	D/AP13/32
27/64"	.4219	3-15/16"	5-3/8"	DWDN27/64	D/AN27/64	DWDP27/64	D/AP27/64
7/16"	.4375	4-1/16"	5-1/2"	DWDN7/16	D/AN7/16	DWDP7/16	D/AP7/16
29/64"	.4531	4-3/16"	5-5/8"	DWDN29/64	D/AN29/64	DWDP29/64	D/AP29/64
15/32"	.4688	4-5/16"	5-3/4"	DWDN15/32	D/AN15/32	DWDP15/32	D/AP15/32
31/64"	.4844	4-3/8"	5-7/8"	DWDN31/64	D/AN31/64	DWDP31/64	D/AP31/64
1/2"	.5000	4-1/2"	6"	DWDN1/2	D/AN1/2	DWDP1/2	D/AP1/2

# HSS JOBBERS LENGTH DRILLS 118° POINT

F R A C T I O N A L S I Z E S O V E R 1 / 2 "

				DWDN Series	D/AN Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
33/64"	.5156	4-13/16"	6-5/8"	DWDN33/64	D/AN33/64
17/32"	.5312	4-13/16"	6-5/8"	DWDN17/32	D/AN17/32
35/64"	.5469	4-13/16"	6-5/8"	DWDN35/64	D/AN35/64
9/16"	.5625	4-13/16"	6-5/8"	DWDN9/16	D/AN9/16
37/64"	.5781	4-13/16"	6-5/8"	DWDN37/64	D/AN37/64
19/32"	.5938	5-3/16"	7-1/8"	DWDN19/32	D/AN19/32
39/64"	.6094	5-3/16"	7-1/8"	DWDN39/64	D/AN39/64
5/8"	.6250	5-3/16"	7-1/8"	DWDN5/8	D/AN5/8
41/64"	.6406	5-3/16"	7-1/8"	DWDN41/64	D/AN41/64
21/32"	.6562	5-3/16"	7-1/8"	DWDN21/32	D/AN21/32
43/64"	.6719	5-5/8"	7-5/8"	DWDN43/64	D/AN43/64
11/16"	.6875	5-5/8"	7-5/8"	DWDN11/16	D/AN11/16

## Package Quantities

#1 – #80	-----	12 pcs per pack
A – O	-----	12 pcs per pack
P – Z	-----	6 pcs per pack
1/64" – 5/16"	-----	12 pcs per pack
21/64" – 1/2"	-----	6 pcs per pack
33/64" & Up	-----	1 pc per pack
.30 – 8MM	-----	12 pcs per pack
8.10 – 13MM	-----	6 pcs per pack
13.5MM & Up	-----	1 pc per pack

L E T T E R S I Z E S

				DWDN Series	D/AN Series	D/AP Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
A	.2340	2-5/8"	3-7/8"	DWDNA	D/ANA	D/APA
B	.2380	2-3/4"	4"	DWDNB	D/ANB	D/APB
C	.2420	2-3/4"	4"	DWDNC	D/ANC	D/APC
D	.2460	2-3/4"	4"	DWDND	D/AND	D/APD
E	.2500	2-3/4"	4"	DWDNE	D/ANE	D/APE
F	.2570	2-7/8"	4-1/8"	DWDNF	D/ANF	D/APF
G	.2610	2-7/8"	4-1/8"	DWDNG	D/ANG	D/APG
H	.2660	2-7/8"	4-1/8"	DWDNH	D/ANH	D/APH
I	.2720	2-7/8"	4-1/8"	DWDNI	D/ANI	D/API
J	.2770	2-7/8"	4-1/8"	DWDNJ	D/ANJ	D/APJ
K	.2810	2-15/16"	4-1/4"	DWDNK	D/ANK	D/APK
L	.2900	2-15/16"	4-1/4"	DWDNL	D/ANL	D/APL
M	.2950	3-1/16"	4-3/8"	DWDNM	D/ANM	D/APM
N	.3020	3-1/16"	4-3/8"	DWDNN	D/ANN	D/APN
O	.3160	3-3/16"	4-1/2"	DWDNO	D/ANO	D/APO
P	.3230	3-5/16"	4-5/8"	DWDNP	D/ANP	D/APP
Q	.3320	3-7/16"	4-3/4"	DWDNQ	D/ANQ	D/APQ
R	.3390	3-7/16"	4-3/4"	DWDNR	D/ANR	D/APR
S	.3480	3-1/2"	4-7/8"	DWDNS	D/ANS	D/APS
T	.3580	3-1/2"	4-7/8"	DWDNT	D/ANT	D/APT
U	.3680	3-5/8"	5"	DWDNU	D/ANU	D/APU
V	.3770	3-5/8"	5"	DWDNV	D/ANV	D/APV
W	.3860	3-3/4"	5-1/8"	DWDNW	D/ANW	D/APW
X	.3970	3-3/4"	5-1/8"	DWDNX	D/ANX	D/APX
Y	.4040	3-7/8"	5-1/4"	DWDNY	D/ANY	D/APY
Z	.4130	3-7/8"	5-1/4"	DWDNZ	D/ANZ	D/APZ



# HSS JOBBERS LENGTH DRILLS

## 118° POINT

WIRE GAUGE SIZES



Size	Dec. Equiv.	Flute Length	O.A.L.	DWDN Series	D/AN Series	D/AP Series
				Part Number	Part Number	Part Number
1	.2280	2-5/8"	3-7/8"	DWDN1	D/AN1	D/AP1
2	.2210	2-5/8"	3-7/8"	DWDN2	D/AN2	D/AP2
3	.2130	2-1/2"	3-3/4"	DWDN3	D/AN3	D/AP3
4	.2090	2-1/2"	3-3/4"	DWDN4	D/AN4	D/AP4
5	.2055	2-1/2"	3-3/4"	DWDN5	D/AN5	D/AP5
6	.2040	2-1/2"	3-3/4"	DWDN6	D/AN6	D/AP6
7	.2010	2-7/16"	3-5/8"	DWDN7	D/AN7	D/AP7
8	.1990	2-7/16"	3-5/8"	DWDN8	D/AN8	D/AP8
9	.1960	2-7/16"	3-5/8"	DWDN9	D/AN9	D/AP9
10	.1935	2-7/16"	3-5/8"	DWDN10	D/AN10	D/AP10
11	.1910	2-5/16"	3-1/2"	DWDN11	D/AN11	D/AP11
12	.1890	2-5/16"	3-1/2"	DWDN12	D/AN12	D/AP12
13	.1850	2-5/16"	3-1/2"	DWDN13	D/AN13	D/AP13
14	.1820	2-3/16"	3-3/8"	DWDN14	D/AN14	D/AP14
15	.1800	2-3/16"	3-3/8"	DWDN15	D/AN15	D/AP15
16	.1770	2-3/16"	3-3/8"	DWDN16	D/AN16	D/AP16
17	.1730	2-3/16"	3-3/8"	DWDN17	D/AN17	D/AP17
18	.1695	2-1/8"	3-1/4"	DWDN18	D/AN18	D/AP18
19	.1660	2-1/8"	3-1/4"	DWDN19	D/AN19	D/AP19
20	.1610	2-1/8"	3-1/4"	DWDN20	D/AN20	D/AP20
21	.1590	2-1/8"	3-1/4"	DWDN21	D/AN21	D/AP21
22	.1570	2"	3-1/8"	DWDN22	D/AN22	D/AP22
23	.1540	2"	3-1/8"	DWDN23	D/AN23	D/AP23
24	.1520	2"	3-1/8"	DWDN24	D/AN24	D/AP24
25	.1495	1-7/8"	3"	DWDN25	D/AN25	D/AP25
26	.1470	1-7/8"	3"	DWDN26	D/AN26	D/AP26
27	.1440	1-7/8"	3"	DWDN27	D/AN27	D/AP27
28	.1405	1-3/4"	2-7/8"	DWDN28	D/AN28	D/AP28
29	.1360	1-3/4"	2-7/8"	DWDN29	D/AN29	D/AP29
30	.1285	1-5/8"	2-3/4"	DWDN30	D/AN30	D/AP30
31	.1200	1-5/8"	2-3/4"	DWDN31	D/AN31	D/AP31
32	.1160	1-5/8"	2-3/4"	DWDN32	D/AN32	D/AP32
33	.1130	1-1/2"	2-5/8"	DWDN33	D/AN33	D/AP33
34	.1110	1-1/2"	2-5/8"	DWDN34	D/AN34	D/AP34
35	.1100	1-1/2"	2-5/8"	DWDN35	D/AN35	D/AP35
36	.1065	1-7/16"	2-1/2"	DWDN36	D/AN36	D/AP36
37	.1040	1-7/16"	2-1/2"	DWDN37	D/AN37	D/AP37
38	.1015	1-7/16"	2-1/2"	DWDN38	D/AN38	D/AP38
39	.0995	1-3/8"	2-3/8"	DWDN39	D/AN39	D/AP39
40	.0980	1-3/8"	2-3/8"	DWDN40	D/AN40	D/AP40

# HSS JOBBERS LENGTH DRILLS 118° POINT

W I R E   G A U G E   S I Z E S



				DWDN Series	D/AN Series	D/AP Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
41	.0960	1-3/8"	2-3/8"	DWDN41	D/AN41	D/AP41
42	.0935	1-1/4"	2-1/4"	DWDN42	D/AN42	D/AP42
43	.0890	1-1/4"	2-1/4"	DWDN43	D/AN43	D/AP43
44	.0860	1-1/8"	2-1/8"	DWDN44	D/AN44	D/AP44
45	.0820	1-1/8"	2-1/8"	DWDN45	D/AN45	D/AP45
46	.0810	1-1/8"	2-1/8"	DWDN46	D/AN46	D/AP46
47	.0785	1"	2"	DWDN47	D/AN47	D/AP47
48	.0760	1"	2"	DWDN48	D/AN48	D/AP48
49	.0730	1"	2"	DWDN49	D/AN49	D/AP49
50	.0700	1"	2"	DWDN50	D/AN50	D/AP50
51	.0670	1"	2"	DWDN51	D/AN51	D/AP51
52	.0635	7/8"	1-7/8"	DWDN52	D/AN52	D/AP52
53	.0595	7/8"	1-7/8"	DWDN53	D/AN53	D/AP53
54	.0550	7/8"	1-7/8"	DWDN54	D/AN54	D/AP54
55	.0520	7/8"	1-7/8"	DWDN55	D/AN55	D/AP55
56	.0465	3/4"	1-3/4"	DWDN56	D/AN56	D/AP56
57	.0430	3/4"	1-3/4"	DWDN57	D/AN57	D/AP57
58	.0420	11/16"	1-5/8"	DWDN58	D/AN58	D/AP58
59	.0410	11/16"	1-5/8"	DWDN59	D/AN59	D/AP59
60	.0400	11/16"	1-5/8"	DWDN60	D/AN60	D/AP60
61	.0390	11/16"	1-5/8"	DWDN61	D/AN61	D/AP61
62	.0380	5/8"	1-1/2"	DWDN62	D/AN62	D/AP62
63	.0370	5/8"	1-1/2"	DWDN63	D/AN63	D/AP63
64	.0360	5/8"	1-1/2"	DWDN64	D/AN64	D/AP64
65	.0350	5/8"	1-1/2"	DWDN65	D/AN65	D/AP65
66	.0330	1/2"	1-3/8"	DWDN66	D/AN66	D/AP66
67	.0320	1/2"	1-3/8"	DWDN67	D/AN67	D/AP67
68	.0310	1/2"	1-3/8"	DWDN68	D/AN68	D/AP68
69	.0292	1/2"	1-3/8"	DWDN69	D/AN69	D/AP69
70	.0280	3/8"	1-1/4"	DWDN70	D/AN70	D/AP70
71	.0260	3/8"	1-1/4"	DWDN71	D/AN71	D/AP71
72	.0250	5/16"	1-1/8"	DWDN72	D/AN72	D/AP72
73	.0240	5/16"	1-1/8"	DWDN73	D/AN73	D/AP73
74	.0225	1/4"	1"	DWDN74	D/AN74	D/AP74
75	.0210	1/4"	1"	DWDN75	D/AN75	D/AP75
76	.0200	3/16"	7/8"	DWDN76	D/AN76	D/AP76
77	.0180	3/16"	7/8"	DWDN77	D/AN77	D/AP77
78	.0160	3/16"	7/8"	DWDN78	D/AN78	D/AP78
79	.0145	1/8"	3/4"	DWDN79	D/AN79	D/AP79
80	.0135	1/8"	3/4"	DWDN80	D/AN80	D/AP80



# HSS JOBBERS LENGTH DRILLS

## 135° SPLIT POINT

### DWDSP Series - Economy

### D/ASP Series - Premium Quality

Manufactured to National Aerospace Standard 907, these drills are ideal for portable or machine drilling of low tensile strength alloy materials. They have a black oxide surface treatment that is abrasion resistant, reduces chip welding and improves chip flow. The 135° split point is self-centering and reduces thrust.



### KFD Series - Premium Quality

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling.

### KFD3F - Contractor Grade

Manufactured from M1 High Speed Steel for use in a wide range of materials such as aluminum, iron and steel. They are gold and black surface treated with a 3-flat shank for extra secure hold in your chuck. Split point tip for self-centering and reducing thrust.

\*Sizes smaller than 3/16" have a round shank.



## F R A C T I O N A L   S I Z E S

				DWDSP Series	D/ASP Series	KFD3F Series	KFD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number	Part Number
1/16"	.0625	7/8"	1-7/8"	DWDSP1/16	D/ASP1/16	*KFD3F1/16	KFD1/16
5/64"	.0781	1"	2"	DWDSP5/64	D/ASP5/64	*KFD3F5/64	KFD5/64
3/32"	.0938	1-1/4"	2-1/4"	DWDSP3/32	D/ASP3/32	*KFD3F3/32	KFD3/32
7/64"	.1094	1-1/2"	2-5/8"	DWDSP7/64	D/ASP7/64	*KFD3F7/64	KFD7/64
1/8"	.1250	1-5/8"	2-3/4"	DWDSP1/8	D/ASP1/8	*KFD3F1/8	KFD1/8
9/64"	.1406	1-3/4"	2-7/8"	DWDSP9/64	D/ASP9/64	*KFD3F9/64	KFD9/64
5/32"	.1562	2"	3-1/8"	DWDSP5/32	D/ASP5/32	*KFD3F5/32	KFD5/32
11/64"	.1719	2-1/8"	3-1/4"	DWDSP11/64	D/ASP11/64	*KFD3F11/64	KFD11/64
3/16"	.1875	2-5/16"	3-1/2"	DWDSP3/16	D/ASP3/16	KFD3F3/16	KFD3/16
13/64"	.2031	2-7/16"	3-5/8"	DWDSP13/64	D/ASP13/64	KFD3F13/64	KFD13/64
7/32"	.2188	2-1/2"	3-3/4"	DWDSP7/32	D/ASP7/32	KFD3F7/32	KFD7/32
15/64"	.2344	2-5/8"	3-7/8"	DWDSP15/64	D/ASP15/64	KFD3F15/64	KFD15/64
1/4"	.2500	2-3/4"	4"	DWDSP1/4	D/ASP1/4	KFD3F1/4	KFD1/4
17/64"	.2656	2-7/8"	4-1/8"	DWDSP17/64	D/ASP17/64	KFD3F17/64	KFD17/64
9/32"	.2812	2-15/16"	4-1/4"	DWDSP9/32	D/ASP9/32	KFD3F9/32	KFD9/32
19/64"	.2969	3-1/16"	4-3/8"	DWDSP19/64	D/ASP19/64	KFD3F19/64	KFD19/64
5/16"	.3125	3-3/16"	4-1/2"	DWDSP5/16	D/ASP5/16	KFD3F5/16	KFD5/16
21/64"	.3281	3-5/16"	4-5/8"	DWDSP21/64	D/ASP21/64	KFD3F21/64	KFD21/64
11/32"	.3438	3-7/16"	4-3/4"	DWDSP11/32	D/ASP11/32	KFD3F11/32	KFD11/32
23/64"	.3594	3-1/2"	4-7/8"	DWDSP23/64	D/ASP23/64	KFD3F23/64	KFD23/64
3/8"	.3750	3-5/8"	5"	DWDSP3/8	D/ASP3/8	KFD3F3/8	KFD3/8
25/64"	.3906	3-3/4"	5-1/8"	DWDSP25/64	D/ASP25/64	KFD3F25/64	KFD25/64
13/32"	.4062	3-7/8"	5-1/4"	DWDSP13/32	D/ASP13/32	KFD3F13/32	KFD13/32
27/64"	.4219	3-15/16"	5-3/8"	DWDSP27/64	D/ASP27/64	KFD3F27/64	KFD27/64
7/16"	.4375	4-1/16"	5-1/2"	DWDSP7/16	D/ASP7/16	KFD3F7/16	KFD7/16
29/64"	.4531	4-3/16"	5-5/8"	DWDSP29/64	D/ASP29/64	KFD3F29/64	KFD29/64
15/32"	.4688	4-5/16"	5-3/4"	DWDSP15/32	D/ASP15/32	KFD3F15/32	KFD15/32
31/64"	.4844	4-3/8"	5-7/8"	DWDSP31/64	D/ASP31/64	KFD3F31/64	KFD31/64
1/2"	.5000	4-1/2"	6"	DWDSP1/2	D/ASP1/2	KFD3F1/2	KFD1/2

# HSS JOBBERS LENGTH DRILLS 135° SPLIT POINT

LETTER SIZES

				DWDSP Series	D/ASP Series	KFD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
A	.2340	2-5/8"	3-7/8"	DWDSPA	D/ASPA	KFDA
B	.2380	2-3/4"	4"	DWDSPB	D/ASPB	KFDB
C	.2420	2-3/4"	4"	DWDSPC	D/ASPC	KFDC
D	.2460	2-3/4"	4"	DWDSPD	D/ASPD	KFDD
E	.2500	2-3/4"	4"	DWDSP E	D/ASPE	KFDE
F	.2570	2-7/8"	4-1/8"	DWDSPF	D/ASPF	KDFD
G	.2610	2-7/8"	4-1/8"	DWDSPG	D/ASPG	KFDG
H	.2660	2-7/8"	4-1/8"	DWDSPH	D/ASPH	KFDH
I	.2720	2-7/8"	4-1/8"	DWDSPI	D/ASPI	KFDI
J	.2770	2-7/8"	4-1/8"	DWDSPJ	D/ASPJ	KFDJ
K	.2810	2-15/16"	4-1/4"	DWDSPK	D/ASPK	KFDK
L	.2900	2-15/16"	4-1/4"	DWDSP L	D/ASPL	KFDL
M	.2950	3-1/16"	4-3/8"	DWDSPM	D/ASPM	KFDM
N	.3020	3-1/16"	4-3/8"	DWDSPN	D/ASPN	KFDN
O	.3160	3-3/16"	4-1/2"	DWDSP O	D/ASPO	KFDO
P	.3230	3-5/16"	4-5/8"	DWDSP P	D/ASPP	KFDP
Q	.3320	3-7/16"	4-3/4"	DWDSPQ	D/ASPQ	KFDQ
R	.3390	3-7/16"	4-3/4"	DWDSPR	D/ASPR	KFDR
S	.3480	3-1/2"	4-7/8"	DWDSP S	D/ASPS	KFDS
T	.3580	3-1/2"	4-7/8"	DWDSP T	D/ASPT	KFDT
U	.3680	3-5/8"	5"	DWDSP U	D/ASPU	KFDU
V	.3770	3-5/8"	5"	DWDSP V	D/ASPV	KFDV
W	.3860	3-3/4"	5-1/8"	DWDSP W	D/ASPW	KFDW
X	.3970	3-3/4"	5-1/8"	DWDSP X	D/ASPX	KFDX
Y	.4040	3-7/8"	5-1/4"	DWDSP Y	D/ASPY	KFDY
Z	.4130	3-7/8"	5-1/4"	DWDSP Z	D/ASPZ	KFDZ



# METRIC JOBBERS DRILLS 135° SPLIT POINT

## KFDMM Series - Metric

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling.



METRIC SIZES

KFDMM Series					KFDMM Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
*1.00	.0394	17	41	KFDMM1.00	7.50	.2953	78	111	KFDMM7.50
*1.50	.0591	22	48	KFDMM1.50	8.00	.3150	81	114	KFDMM8.00
2.00	.0787	25	51	KFDMM2.00	8.50	.3346	87	121	KFDMM8.50
2.50	.0984	35	60	KFDMM2.50	9.00	.3543	89	124	KFDMM9.00
3.00	.1181	41	70	KFDMM3.00	9.50	.3740	92	127	KFDMM9.50
3.50	.1378	48	73	KFDMM3.50	10.00	.3937	95	130	KFDMM10.00
4.00	.1575	54	83	KFDMM4.00	10.50	.4134	98	133	KFDMM10.50
4.50	.1772	56	86	KFDMM4.50	11.00	.4331	103	140	KFDMM11.00
5.00	.1969	62	92	KFDMM5.00	11.50	.4528	106	143	KFDMM11.50
5.50	.2165	64	95	KFDMM5.50	12.00	.4724	111	149	KFDMM12.00
6.00	.2362	70	102	KFDMM6.00	12.50	.4921	114	152	KFDMM12.50
6.50	.2559	73	105	KFDMM6.50	13.00	.5118	114	152	KFDMM13.00
7.00	.2756	73	105	KFDMM7.00					

\*118° Standard Point

# HSS JOBBERS LENGTH DRILLS 135° SPLIT POINT

W I R E G A U G E S I Z E S

Size	Dec. Equiv.	Flute Length	O.A.L.	DWDSF Series	D/ASP Series	KFD Series
				Part Number	Part Number	Part Number
1	.2280	2-5/8"	3-7/8"	DWDSF1	D/ASP1	KFD1
2	.2210	2-5/8"	3-7/8"	DWDSF2	D/ASP2	KFD2
3	.2130	2-1/2"	3-3/4"	DWDSF3	D/ASP3	KFD3
4	.2090	2-1/2"	3-3/4"	DWDSF4	D/ASP4	KFD4
5	.2055	2-1/2"	3-3/4"	DWDSF5	D/ASP5	KFD5
6	.2040	2-1/2"	3-3/4"	DWDSF6	D/ASP6	KFD6
7	.2010	2-7/16"	3-5/8"	DWDSF7	D/ASP7	KFD7
8	.1990	2-7/16"	3-5/8"	DWDSF8	D/ASP8	KFD8
9	.1960	2-7/16"	3-5/8"	DWDSF9	D/ASP9	KFD9
10	.1935	2-7/16"	3-5/8"	DWDSF10	D/ASP10	KFD10
11	.1910	2-5/16"	3-1/2"	DWDSF11	D/ASP11	KFD11
12	.1890	2-5/16"	3-1/2"	DWDSF12	D/ASP12	KFD12
13	.1850	2-5/16"	3-1/2"	DWDSF13	D/ASP13	KFD13
14	.1820	2-3/16"	3-3/8"	DWDSF14	D/ASP14	KFD14
15	.1800	2-3/16"	3-3/8"	DWDSF15	D/ASP15	KFD15
16	.1770	2-3/16"	3-3/8"	DWDSF16	D/ASP16	KFD16
17	.1730	2-3/16"	3-3/8"	DWDSF17	D/ASP17	KFD17
18	.1695	2-1/8"	3-1/4"	DWDSF18	D/ASP18	KFD18
19	.1660	2-1/8"	3-1/4"	DWDSF19	D/ASP19	KFD19
20	.1610	2-1/8"	3-1/4"	DWDSF20	D/ASP20	KFD20
21	.1590	2-1/8"	3-1/4"	DWDSF21	D/ASP21	KFD21
22	.1570	2"	3-1/8"	DWDSF22	D/ASP22	KFD22
23	.1540	2"	3-1/8"	DWDSF23	D/ASP23	KFD23
24	.1520	2"	3-1/8"	DWDSF24	D/ASP24	KFD24
25	.1495	1-7/8"	3"	DWDSF25	D/ASP25	KFD25
26	.1470	1-7/8"	3"	DWDSF26	D/ASP26	KFD26
27	.1440	1-7/8"	3"	DWDSF27	D/ASP27	KFD27
28	.1405	1-3/4"	2-7/8"	DWDSF28	D/ASP28	KFD28
29	.1360	1-3/4"	2-7/8"	DWDSF29	D/ASP29	KFD29
30	.1285	1-5/8"	2-3/4"	DWDSF30	D/ASP30	KFD30
31	.1200	1-5/8"	2-3/4"	DWDSF31	D/ASP31	KFD31
32	.1160	1-5/8"	2-3/4"	DWDSF32	D/ASP32	KFD32
33	.1130	1-1/2"	2-5/8"	DWDSF33	D/ASP33	KFD33
34	.1110	1-1/2"	2-5/8"	DWDSF34	D/ASP34	KFD34
35	.1100	1-1/2"	2-5/8"	DWDSF35	D/ASP35	KFD35
36	.1065	1-7/16"	2-1/2"	DWDSF36	D/ASP36	KFD36
37	.1040	1-7/16"	2-1/2"	DWDSF37	D/ASP37	KFD37
38	.1015	1-7/16"	2-1/2"	DWDSF38	D/ASP38	KFD38
39	.0995	1-3/8"	2-3/8"	DWDSF39	D/ASP39	KFD39
40	.0980	1-3/8"	2-3/8"	DWDSF40	D/ASP40	KFD40
41	.0960	1-3/8"	2-3/8"	DWDSF41	D/ASP41	KFD41
42	.0935	1-1/4"	2-1/4"	DWDSF42	D/ASP42	KFD42
43	.0890	1-1/4"	2-1/4"	DWDSF43	D/ASP43	KFD43
44	.0860	1-1/8"	2-1/8"	DWDSF44	D/ASP44	KFD44
45	.0820	1-1/8"	2-1/8"	DWDSF45	D/ASP45	KFD45
46	.0810	1-1/8"	2-1/8"	DWDSF46	D/ASP46	KFD46
47	.0785	1"	2"	DWDSF47	D/ASP47	KFD47
48	.0760	1"	2"	DWDSF48	D/ASP48	KFD48
49	.0730	1"	2"	DWDSF49	D/ASP49	KFD49
50	.0700	1"	2"	DWDSF50	D/ASP50	KFD50
51	.0670	1"	2"	DWDSF51	D/ASP51	KFD51
52	.0635	7/8"	1-7/8"	DWDSF52	D/ASP52	KFD52
*53	.0595	7/8"	1-7/8"	-	-	KFD53
*54	.0550	7/8"	1-7/8"	-	-	KFD54
*55	.0520	7/8"	1-7/8"	-	-	KFD55
*56	.0495	3/4"	1-3/4"	-	-	KFD56
*57	.0430	3/4"	1-3/4"	-	-	KFD57
*58	.0420	11/16"	1-5/8"	-	-	KFD58
*59	.0410	11/16"	1-5/8"	-	-	KFD59
*60	.0400	11/16"	1-5/8"	-	-	KFD60



\*118° Standard Point



# COBALT JOBBERS LENGTH DRILLS

## 135° SPLIT POINT

### DWDCO Series - m35 Cobalt

### D/ACO Series - m42 Cobalt

Manufactured to National Aerospace standard 907. Made of heat resistant cobalt, they display higher red hardness which permits speeds upto 30% greater than high speed steel drills and are especially effective in drilling tough, high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 1/16" have the 118° standard point.



### F R A C T I O N A L   S I Z E S

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	
				DWDCO Series	D/ACO Series
*1/64"	.0156	3/16"	3/4"	DWDCO1/64	D/ACO1/64
*1/32"	.0312	1/2"	1-3/8"	DWDCO1/32	D/ACO1/32
*3/64"	.0469	3/4"	1-3/4"	DWDCO3/64	D/ACO3/64
1/16"	.0625	7/8"	1-7/8"	DWDCO1/16	D/ACO1/16
5/64"	.0781	1"	2"	DWDCO5/64	D/ACO5/64
3/32"	.0938	1-1/4"	2-1/4"	DWDCO3/32	D/ACO3/32
7/64"	.1094	1-1/2"	2-5/8"	DWDCO7/64	D/ACO7/64
1/8"	.1250	1-5/8"	2-3/4"	DWDCO1/8	D/ACO1/8
9/64"	.1406	1-3/4"	2-7/8"	DWDCO9/64	D/ACO9/64
5/32"	.1562	2"	3-1/8"	DWDCO5/32	D/ACO5/32
11/64"	.1719	2-1/8"	3-1/4"	DWDCO11/64	D/ACO11/64
3/16"	.1875	2-5/16"	3-1/2"	DWDCO3/16	D/ACO3/16
13/64"	.2031	2-7/16"	3-5/8"	DWDCO13/64	D/ACO13/64
7/32"	.2188	2-1/2"	3-3/4"	DWDCO7/32	D/ACO7/32
15/64"	.2344	2-5/8"	3-7/8"	DWDCO15/64	D/ACO15/64
1/4"	.2500	2-3/4"	4"	DWDCO1/4	D/ACO1/4
17/64"	.2656	2-7/8"	4-1/8"	DWDCO17/64	D/ACO17/64
9/32"	.2812	2-15/16"	4-1/4"	DWDCO9/32	D/ACO9/32
19/64"	.2969	3-1/16"	4-3/8"	DWDCO19/64	D/ACO19/64
5/16"	.3125	3-3/16"	4-1/2"	DWDCO5/16	D/ACO5/16
21/64"	.3281	3-5/16"	4-5/8"	DWDCO21/64	D/ACO21/64
11/32"	.3438	3-7/16"	4-3/4"	DWDCO11/32	D/ACO11/32
23/64"	.3594	3-1/2"	4-7/8"	DWDCO23/64	D/ACO23/64
3/8"	.3750	3-5/8"	5"	DWDCO3/8	D/ACO3/8
25/64"	.3906	3-3/4"	5-1/8"	DWDCO25/64	D/ACO25/64
13/32"	.4062	3-7/8"	5-1/4"	DWDCO13/32	D/ACO13/32
27/64"	.4219	3-15/16"	5-3/8"	DWDCO27/64	D/ACO27/64
7/16"	.4375	4-1/16"	5-1/2"	DWDCO7/16	D/ACO7/16
29/64"	.4531	4-3/16"	5-5/8"	DWDCO29/64	D/ACO29/64
15/32"	.4688	4-5/16"	5-3/4"	DWDCO15/32	D/ACO15/32
31/64"	.4844	4-3/8"	5-7/8"	DWDCO31/64	D/ACO31/64
1/2"	.5000	4-1/2"	6"	DWDCO1/2	D/ACO1/2

\*118° Standard Point

# COBALT JOBBERS LENGTH DRILLS 135° SPLIT POINT

W I R E G A U G E S I Z E S

				DWDCO Series	D/ACO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
1	.2280	2-5/8"	3-7/8"	DWDCO1	D/ACO1
2	.2210	2-5/8"	3-7/8"	DWDCO2	D/ACO2
3	.2130	2-1/2"	3-3/4"	DWDCO3	D/ACO3
4	.2090	2-1/2"	3-3/4"	DWDCO4	D/ACO4
5	.2055	2-1/2"	3-3/4"	DWDCO5	D/ACO5
6	.2040	2-1/2"	3-3/4"	DWDCO6	D/ACO6
7	.2010	2-7/16"	3-5/8"	DWDCO7	D/ACO7
8	.1990	2-7/16"	3-5/8"	DWDCO8	D/ACO8
9	.1960	2-7/16"	3-5/8"	DWDCO9	D/ACO9
10	.1935	2-7/16"	3-5/8"	DWDCO10	D/ACO10
11	.1910	2-5/16"	3-1/2"	DWDCO11	D/ACO11
12	.1890	2-5/16"	3-1/2"	DWDCO12	D/ACO12
13	.1850	2-5/16"	3-1/2"	DWDCO13	D/ACO13
14	.1820	2-3/16"	3-3/8"	DWDCO14	D/ACO14
15	.1800	2-3/16"	3-3/8"	DWDCO15	D/ACO15
16	.1770	2-3/16"	3-3/8"	DWDCO16	D/ACO16
17	.1730	2-3/16"	3-3/8"	DWDCO17	D/ACO17
18	.1695	2-1/8"	3-1/4"	DWDCO18	D/ACO18
19	.1660	2-1/8"	3-1/4"	DWDCO19	D/ACO19
20	.1610	2-1/8"	3-1/4"	DWDCO20	D/ACO20
21	.1590	2-1/8"	3-1/4"	DWDCO21	D/ACO21
22	.1570	2"	3-1/8"	DWDCO22	D/ACO22
23	.1540	2"	3-1/8"	DWDCO23	D/ACO23
24	.1520	2"	3-1/8"	DWDCO24	D/ACO24
25	.1495	1-7/8"	3"	DWDCO25	D/ACO25
26	.1470	1-7/8"	3"	DWDCO26	D/ACO26
27	.1440	1-7/8"	3"	DWDCO27	D/ACO27
28	.1405	1-3/4"	2-7/8"	DWDCO28	D/ACO28
29	.1360	1-3/4"	2-7/8"	DWDCO29	D/ACO29
30	.1285	1-5/8"	2-3/4"	DWDCO30	D/ACO30
31	.1200	1-5/8"	2-3/4"	DWDCO31	D/ACO31
32	.1160	1-5/8"	2-3/4"	DWDCO32	D/ACO32
33	.1130	1-1/2"	2-5/8"	DWDCO33	D/ACO33
34	.1110	1-1/2"	2-5/8"	DWDCO34	D/ACO34
35	.1100	1-1/2"	2-5/8"	DWDCO35	D/ACO35
36	.1065	1-7/16"	2-1/2"	DWDCO36	D/ACO36
37	.1040	1-7/16"	2-1/2"	DWDCO37	D/ACO37
38	.1015	1-7/16"	2-1/2"	DWDCO38	D/ACO38
39	.0995	1-3/8"	2-3/8"	DWDCO39	D/ACO39
40	.0980	1-3/8"	2-3/8"	DWDCO40	D/ACO40
41	.0960	1-3/8"	2-3/8"	DWDCO41	D/ACO41
42	.0935	1-1/4"	2-1/4"	DWDCO42	D/ACO42
43	.0890	1-1/4"	2-1/4"	DWDCO43	D/ACO43
44	.0860	1-1/8"	2-1/8"	DWDCO44	D/ACO44
45	.0820	1-1/8"	2-1/8"	DWDCO45	D/ACO45
46	.0810	1-1/8"	2-1/8"	DWDCO46	D/ACO46
47	.0785	1"	2"	DWDCO47	D/ACO47
48	.0760	1"	2"	DWDCO48	D/ACO48
49	.0730	1"	2"	DWDCO49	D/ACO49
50	.0700	1"	2"	DWDCO50	D/ACO50
51	.0670	1"	2"	DWDCO51	D/ACO51
52	.0635	7/8"	1-7/8"	DWDCO52	D/ACO52
*53	.0595	7/8"	1-7/8"	DWDCO53	D/ACO53
*54	.0550	7/8"	1-7/8"	DWDCO54	D/ACO54
*55	.0520	7/8"	1-7/8"	DWDCO55	D/ACO55
*56	.0465	3/4"	1-3/4"	DWDCO56	D/ACO56
*57	.0430	3/4"	1-3/4"	DWDCO57	D/ACO57
*58	.0420	11/16"	1-5/8"	DWDCO58	D/ACO58
*59	.0410	11/16"	1-5/8"	DWDCO59	D/ACO59
*60	.0400	11/16"	1-5/8"	DWDCO60	D/ACO60



\*118° Standard Point

# COBALT JOBBERS LENGTH DRILLS 135° SPLIT POINT

## WIRE GAUGE SIZES

				DWDCO Series	D/ACO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
*61	.0390	11/16"	1-5/8"	DWDCO61	D/ACO61
*62	.0380	5/8"	1-1/2"	DWDCO62	D/ACO62
*63	.0370	5/8"	1-1/2"	DWDCO63	D/ACO63
*64	.0360	5/8"	1-1/2"	DWDCO64	D/ACO64
*65	.0350	5/8"	1-1/2"	DWDCO65	D/ACO65
*66	.0330	1/2"	1-3/8"	DWDCO66	D/ACO66
*67	.0320	1/2"	1-3/8"	DWDCO67	D/ACO67
*68	.0310	1/2"	1-3/8"	DWDCO68	D/ACO68
*69	.0292	1/2"	1-3/8"	DWDCO69	D/ACO69
*70	.0280	3/8"	1-1/4"	DWDCO70	D/ACO70
*71	.0260	3/8"	1-1/4"	DWDCO71	D/ACO71
*72	.0250	5/16"	1-1/8"	DWDCO72	D/ACO72
*73	.0240	5/16"	1-1/8"	DWDCO73	D/ACO73
*74	.0225	1/4"	1"	DWDCO74	D/ACO74
*75	.0210	1/4"	1"	DWDCO75	D/ACO75
*76	.0200	3/16"	7/8"	DWDCO76	D/ACO76
*77	.0180	3/16"	7/8"	DWDCO77	D/ACO77
*78	.0160	3/16"	7/8"	DWDCO78	D/ACO78
*79	.0145	1/8"	3/4"	DWDCO79	D/ACO79
*80	.0135	1/8"	3/4"	DWDCO80	D/ACO80

\*118° Standard Point

## LETTER SIZES

				DWDCO Series	D/ACO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
A	.2340	2-5/8"	3-7/8"	DWDCOA	D/ACOA
B	.2380	2-3/4"	4"	DWDCOB	D/ACOB
C	.2420	2-3/4"	4"	DWDCOC	D/ACOC
D	.2460	2-3/4"	4"	DWDCOD	D/ACOD
E	.2500	2-3/4"	4"	DWDCOE	D/ACOE
F	.2570	2-7/8"	4-1/8"	DWDCOF	D/ACOF
G	.2610	2-7/8"	4-1/8"	DWDCOG	D/ACOG
H	.2660	2-7/8"	4-1/8"	DWDCOH	D/ACOH
I	.2720	2-7/8"	4-1/8"	DWDCOI	D/ACOI
J	.2770	2-7/8"	4-1/8"	DWDCOJ	D/ACOJ
K	.2810	2-15/16"	4-1/4"	DWDCOK	D/ACOK
L	.2900	2-15/16"	4-1/4"	DWDCOL	D/ACOL
M	.2950	3-1/16"	4-3/8"	DWDCOM	D/ACOM
N	.3020	3-1/16"	4-3/8"	DWDCON	D/ACON
O	.3160	3-3/16"	4-1/2"	DWDCOO	D/ACOO
P	.3230	3-5/16"	4-5/8"	DWDCOP	D/ACOP
Q	.3320	3-7/16"	4-3/4"	DWDCOQ	D/ACOQ
R	.3390	3-7/16"	4-3/4"	DWDCOR	D/ACOR
S	.3480	3-1/2"	4-7/8"	DWDCOS	D/ACOS
T	.3580	3-1/2"	4-7/8"	DWDCOT	D/ACOT
U	.3680	3-5/8"	5"	DWDCOU	D/ACOU
V	.3770	3-5/8"	5"	DWDCOV	D/ACOV
W	.3860	3-3/4"	5-1/8"	DWDCOW	D/ACOW
X	.3970	3-3/4"	5-1/8"	DWDCOX	D/ACOX
Y	.4040	3-7/8"	5-1/4"	DWDCOY	D/ACOY
Z	.4130	3-7/8"	5-1/4"	DWDCOZ	D/ACOZ



# STEPPED POINT COBALT DRILL BITS

## GSC Series - Gold Stepped Point Cobalt Drill Bits

Stepped Point Cobalt Drill Bits start easier, drill faster, increase lifespan and reduce heat compared to standard drill bits. They can be used to enlarge existing holes or to create new, smoother holes in a wide range of materials such as acrylics, steel, metal, brass and other hard metals. These drills have a 135 degree split point tip and a 3 -flat shank to prevent spinning. \*Sizes 11/64" and smaller have a round shank. 29 Piece Set comes in a round plastic case.

GSC Series			
Size	Dec. Equiv.	O.A.L.	SKU
*1/8"	0.1250	2-3/4"	GSC1/8
*9/64"	0.1406	2-7/8"	GSC9/64
*5/32"	0.1562	3-1/8"	GSC5/32
*11/64"	0.1719	3-1/4"	GSC11/64
3/16"	0.1875	3-1/2"	GSC3/16
13/64"	0.2031	3-5/8"	GSC13/64
7/32"	0.2188	3-3/4"	GSC7/32
15/64"	0.2344	3-7/8"	GSC15/64
1/4"	0.2500	4"	GSC1/4
17/64"	0.2656	4-1/8"	GSC17/64
9/32"	0.2812	4-1/4"	GSC9/32
19/64"	0.2969	4-3/8"	GSC19/64
5/16"	0.3125	4-1/2"	GSC5/16
21/64"	0.3281	4-5/8"	GSC21/64
11/32"	0.3438	4-3/4"	GSC11/32
23/64"	0.3594	4-7/8"	GSC23/64
3/8"	0.3750	5"	GSC3/8
25/64"	0.3906	5-1/8"	GSC25/64
13/32"	0.4062	5-1/4"	GSC13/32
27/64"	0.4219	5-3/8"	GSC27/64
7/16"	0.4375	5-1/2"	GSC7/16
29/64"	0.4531	5-5/8"	GSC29/64
15/32"	0.4688	5-3/4"	GSC15/32
31/64"	0.4844	5-7/8"	GSC31/64
1/2"	0.5000	6"	GSC1/2
*Set	--	--	GSC29J-PC



# QUICK CHANGE HEX SHANK DRILL BITS

## KFDHEX Series - HSS Quick Change Hex Shank Drill Bits

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling. 1/4" hex shank can be used in quick change impact drivers.



## COHEX Series - Cobalt Quick Change Hex Shank Drill Bits

Manufactured to National Aerospace standard 907. Made of heat resistant cobalt, they display higher red hardness which permits speeds up to 30% greater than high speed steel drills and are especially effective in drilling tough, high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 1/16" have the 118° standard point. 1/4" hex shank can be used in quick change impact drivers.



				KFDHEX Series	COHEX Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
3/64"	.0469	3/4"	1-3/4"	KFDHEX3/64	COHEX3/64
1/16"	.0625	7/8"	1-7/8"	KFDHEX1/16	COHEX1/16
5/64"	.0781	1"	2"	KFDHEX5/64	COHEX5/64
3/32"	.0938	1-1/4"	2-1/4"	KFDHEX3/32	COHEX3/32
7/64"	.1094	1-1/2"	2-5/8"	KFDHEX7/64	COHEX7/64
1/8"	.1250	1-5/8"	2-3/4"	KFDHEX1/8	COHEX1/8
9/64"	.1406	1-3/4"	2-7/8"	KFDHEX9/64	COHEX9/64
5/32"	.1562	2"	3-1/8"	KFDHEX5/32	COHEX5/32
11/64"	.1719	2-1/8"	3-1/4"	KFDHEX11/64	COHEX11/64
3/16"	.1875	2-5/16"	3-1/2"	KFDHEX3/16	COHEX3/16
13/64"	.2031	2-7/16"	3-5/8"	KFDHEX13/64	COHEX13/64
7/32"	.2188	2-1/2"	3-3/4"	KFDHEX7/32	COHEX7/32
15/64"	.2344	2-5/8"	3-7/8"	KFDHEX15/64	COHEX15/64
1/4"	.2500	2-3/4"	4"	KFDHEX1/4	COHEX1/4
17/64"	.2656	2-7/8"	4-1/8"	KFDHEX17/64	COHEX17/64
9/32"	.2812	2-15/16"	4-1/4"	KFDHEX9/32	COHEX9/32
19/64"	.2969	3-1/16"	4-3/8"	KFDHEX19/64	COHEX19/64
5/16"	.3125	3-3/16"	4-1/2"	KFDHEX5/16	COHEX5/16
21/64"	.3281	3-5/16"	4-5/8"	KFDHEX21/64	COHEX21/64
11/32"	.3438	3-7/16"	4-3/4"	KFDHEX11/32	COHEX11/32
23/64"	.3594	3-1/2"	4-7/8"	KFDHEX23/64	COHEX23/64
3/8"	.3750	3-5/8"	5"	KFDHEX3/8	COHEX3/8
25/64"	.3906	3-3/4"	5-1/8"	KFDHEX25/64	COHEX25/64
13/32"	.4062	3-7/8"	5-1/4"	KFDHEX13/32	COHEX13/32
27/64"	.4219	3-15/16"	5-3/8"	KFDHEX27/64	COHEX27/64
7/16"	.4375	4-1/16"	5-1/2"	KFDHEX7/16	COHEX7/16
29/64"	.4531	4-3/16"	5-5/8"	KFDHEX29/64	COHEX29/64
15/32"	.4688	4-5/16"	5-3/4"	KFDHEX15/32	COHEX15/32
31/64"	.4844	4-3/8"	5-7/8"	KFDHEX31/64	COHEX31/64
1/2"	.5000	4-1/2"	6"	KFDHEX1/2	COHEX1/2
13 PC SET	-	-	-	KFDHEX13-PC	COHEX13-SET
15 PC SET	-	-	-	KFDHEX15-PC	COHEX15-SET
29 PC SET	-	-	-	KFDHEX29-PC	COHEX29-SET



# KFD BLACK & GOLD DRILL BITS IN HANGING SLEEVE

## SLK Series- Point of Purchase KFD Premium Quality Drill Bits

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Black and Gold surface treated for use in stainless steel and other hard metal drilling. Drills come in hanging sleeves in small quantities for point of purchase sale.

SLK Series					
Size	Dec. Equiv.	Flute Length	O.A.L.	Pack Qty	Part Number
1/16"	.0625	7/8"	1-7/8"	3	SLK1/16P3
5/64"	.0781	1"	2"	3	SLK5/64P3
3/32"	.0938	1-1/4"	2-1/4"	3	SLK3/32P3
7/64"	.1094	1-1/2"	2-5/8"	3	SLK7/64P3
1/8"	.1250	1-5/8"	2-3/4"	3	SLK1/8P3
9/64"	.1406	1-3/4"	2-7/8"	2	SLK9/64P2
5/32"	.1562	2"	3-1/8"	2	SLK5/32P2
11/64"	.1719	2-1/8"	3-1/4"	2	SLK11/64P2
3/16"	.1875	2-5/16"	3-1/2"	2	SLK3/16P2
13/64"	.2031	2-7/16"	3-5/8"	2	SLK13/64P2
7/32"	.2188	2-1/2"	3-3/4"	2	SLK7/32P2
15/64"	.2344	2-5/8"	3-7/8"	2	SLK15/64P2
1/4"	.2500	2-3/4"	4"	2	SLK1/4P2
17/64"	.2656	2-7/8"	4-1/8"	1	SLK17/64P1
9/32"	.2812	2-15/16"	4-1/4"	1	SLK9/32P1
19/64"	.2969	3-1/16"	4-3/8"	1	SLK19/64P1
5/16"	.3125	3-3/16"	4-1/2"	1	SLK5/16P1
21/64"	.3281	3-5/16"	4-5/8"	1	SLK21/64P1
11/32"	.3438	3-7/16"	4-3/4"	1	SLK11/32P1
23/64"	.3594	3-1/2"	4-7/8"	1	SLK23/64P1
3/8"	.3750	3-5/8"	5"	1	SLK3/8P1
25/64"	.3906	3-3/4"	5-1/8"	1	SLK25/64P1
13/32"	.4062	3-7/8"	5-1/4"	1	SLK13/32P1
27/64"	.4219	3-15/16"	5-3/8"	1	SLK27/64P1
7/16"	.4375	4-1/16"	5-1/2"	1	SLK7/16P1
29/64"	.4531	4-3/16"	5-5/8"	1	SLK29/64P1
15/32"	.4688	4-5/16"	5-3/4"	1	SLK15/32P1
31/64"	.4844	4-3/8"	5-7/8"	1	SLK31/64P1
1/2"	.5000	4-1/2"	6"	1	SLK1/2P1



# HSS METRIC JOBBERS DRILLS

## 118° POINT

### DWDMM Series - Metric

A dependable, general purpose drill designed to perform in a broad range of materials in the iron and steel families. Ideal for production, maintenance or portable drilling jobs. Surface treated with abrasion-resistant black oxide.



### M E T R I C   S I Z E S

DWDMM Series					DWDMM Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
.30	.0118	3	19	DWDMM.30	3.10	.1220	41	65	DWDMM3.10
.35	.0138	3	19	DWDMM.35	3.15	.1240	41	65	DWDMM3.15
.40	.0157	5	20	DWDMM.40	3.20	.1260	41	65	DWDMM3.20
.45	.0177	5	20	DWDMM.45	3.25	.1280	41	65	DWDMM3.25
.50	.0197	5	22	DWDMM.50	3.30	.1299	44	65	DWDMM3.30
.55	.0217	6	24	DWDMM.55	3.35	.1319	44	70	DWDMM3.35
.60	.0236	8	24	DWDMM.60	3.40	.1339	44	70	DWDMM3.40
.65	.0256	10	26	DWDMM.65	3.45	.1358	44	70	DWDMM3.45
.70	.0276	10	28	DWDMM.70	3.50	.1378	44	70	DWDMM3.50
.75	.0295	13	28	DWDMM.75	3.55	.1397	48	70	DWDMM3.55
.80	.0315	13	30	DWDMM.80	3.60	.1417	48	70	DWDMM3.60
.85	.0335	16	30	DWDMM.85	3.65	.1437	48	70	DWDMM3.65
.90	.0354	16	32	DWDMM.90	3.70	.1457	48	70	DWDMM3.70
.95	.0374	16	32	DWDMM.95	3.75	.1476	48	75	DWDMM3.75
1.00	.0394	17	34	DWDMM1.00	3.80	.1496	48	75	DWDMM3.80
1.05	.0413	17	34	DWDMM1.05	3.85	.1516	51	75	DWDMM3.85
1.10	.0433	19	36	DWDMM1.10	3.90	.1535	51	75	DWDMM3.90
1.15	.0453	19	36	DWDMM1.15	3.95	.1555	51	75	DWDMM3.95
1.20	.0472	22	38	DWDMM1.20	4.00	.1575	54	75	DWDMM4.00
1.25	.0492	22	38	DWDMM1.25	4.05	.1594	54	75	DWDMM4.05
1.30	.0512	22	38	DWDMM1.30	4.10	.1614	54	75	DWDMM4.10
1.35	.0531	22	40	DWDMM1.35	4.20	.1654	54	75	DWDMM4.20
1.40	.0551	22	40	DWDMM1.40	4.25	.1673	54	80	DWDMM4.25
1.45	.0571	22	40	DWDMM1.45	4.30	.1693	54	80	DWDMM4.30
1.50	.0591	22	40	DWDMM1.50	4.35	.1713	54	80	DWDMM4.35
1.55	.0610	22	43	DWDMM1.55	4.40	.1732	56	80	DWDMM4.40
1.60	.0630	22	43	DWDMM1.60	4.50	.1772	56	80	DWDMM4.50
1.65	.0650	25	43	DWDMM1.65	4.60	.1811	56	80	DWDMM4.60
1.70	.0669	25	43	DWDMM1.70	4.65	.1831	56	80	DWDMM4.65
1.75	.0689	25	46	DWDMM1.75	4.70	.1850	59	80	DWDMM4.70
1.80	.0709	25	46	DWDMM1.80	4.75	.1870	59	86	DWDMM4.75
1.85	.0728	25	46	DWDMM1.85	4.80	.1890	59	86	DWDMM4.80
1.90	.0748	25	46	DWDMM1.90	4.85	.1909	62	86	DWDMM4.85
1.95	.0768	25	49	DWDMM1.95	4.90	.1929	62	86	DWDMM4.90
2.00	.0787	25	49	DWDMM2.00	5.00	.1969	62	86	DWDMM5.00
2.05	.0807	29	49	DWDMM2.05	5.10	.2008	62	86	DWDMM5.10
2.10	.0827	29	49	DWDMM2.10	5.20	.2047	64	86	DWDMM5.20
2.15	.0846	29	53	DWDMM2.15	5.25	.2067	64	86	DWDMM5.25
2.20	.0866	32	53	DWDMM2.20	5.30	.2087	64	86	DWDMM5.30
2.25	.0886	32	53	DWDMM2.25	5.40	.2126	64	93	DWDMM5.40
2.30	.0906	32	53	DWDMM2.30	5.50	.2165	64	93	DWDMM5.50
2.35	.0925	32	53	DWDMM2.35	5.60	.2205	67	93	DWDMM5.60
2.40	.0945	35	57	DWDMM2.40	5.70	.2244	67	93	DWDMM5.70
2.45	.0965	35	57	DWDMM2.45	5.75	.2264	67	93	DWDMM5.75
2.50	.0984	35	57	DWDMM2.50	5.80	.2283	67	93	DWDMM5.80
2.55	.1003	35	57	DWDMM2.55	5.90	.2323	67	93	DWDMM5.90
2.60	.1024	37	57	DWDMM2.60	6.00	.2362	70	93	DWDMM6.00
2.65	.1043	37	57	DWDMM2.65	6.10	.2402	70	101	DWDMM6.10
2.70	.1063	37	61	DWDMM2.70	6.20	.2441	70	101	DWDMM6.20
2.75	.1083	37	61	DWDMM2.75	6.25	.2461	70	101	DWDMM6.25
2.80	.1102	38	61	DWDMM2.80	6.30	.2480	70	101	DWDMM6.30
2.85	.1122	38	61	DWDMM2.85	6.40	.2520	73	101	DWDMM6.40
2.90	.1142	41	61	DWDMM2.90	6.50	.2559	73	101	DWDMM6.50
2.95	.1161	41	61	DWDMM2.95	6.60	.2598	73	101	DWDMM6.60
3.00	.1181	41	61	DWDMM3.00	6.70	.2638	73	101	DWDMM6.70
3.05	.1201	41	65	DWDMM3.05	6.75	.2657	73	109	DWDMM6.75

# HSS METRIC JOBBER DRILLS

## 118° POINT

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
6.80	.2677	73	109	DWDMM6.80
6.90	.2717	73	109	DWDMM6.90
7.00	.2756	73	109	DWDMM7.00
7.10	.2795	75	109	DWDMM7.10
7.20	.2835	75	109	DWDMM7.20
7.25	.2854	75	109	DWDMM7.25
7.30	.2874	75	109	DWDMM7.30
7.40	.2913	78	109	DWDMM7.40
7.50	.2953	78	109	DWDMM7.50
7.60	.2992	78	117	DWDMM7.60
7.70	.3031	81	117	DWDMM7.70
7.75	.3051	81	117	DWDMM7.75
7.80	.3071	81	117	DWDMM7.80
7.90	.3110	81	117	DWDMM7.90
8.00	.3150	81	117	DWDMM8.00
8.10	.3189	84	117	DWDMM8.10
8.20	.3228	84	117	DWDMM8.20
8.25	.3248	84	117	DWDMM8.25
8.30	.3268	84	117	DWDMM8.30
8.40	.3307	87	117	DWDMM8.40
8.50	.3346	87	117	DWDMM8.50
8.60	.3386	87	125	DWDMM8.60
8.70	.3425	87	125	DWDMM8.70
8.75	.3445	87	125	DWDMM8.75
8.80	.3465	89	125	DWDMM8.80
8.90	.3504	89	125	DWDMM8.90
9.00	.3543	89	125	DWDMM9.00
9.10	.3583	89	125	DWDMM9.10
9.20	.3622	92	125	DWDMM9.20
9.25	.3642	92	125	DWDMM9.25
9.30	.3661	92	125	DWDMM9.30
9.40	.3701	92	125	DWDMM9.40
9.50	.3740	92	125	DWDMM9.50

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
9.60	.3780	95	133	DWDMM9.60
9.70	.3819	95	133	DWDMM9.70
9.75	.3839	95	133	DWDMM9.75
9.80	.3858	95	133	DWDMM9.80
9.90	.3898	95	133	DWDMM9.90
10.00	.3937	95	133	DWDMM10.00
10.20	.4016	98	133	DWDMM10.20
10.25	.4035	98	133	DWDMM10.25
10.50	.4134	98	133	DWDMM10.50
10.70	.4213	100	142	DWDMM10.70
10.75	.4232	101	142	DWDMM10.75
10.80	.4252	103	142	DWDMM10.80
11.00	.4331	103	142	DWDMM11.00
11.50	.4528	106	142	DWDMM11.50
11.70	.4606	110	142	DWDMM11.70
12.00	.4724	111	151	DWDMM12.00
12.50	.4921	114	151	DWDMM12.50
12.80	.5039	114	151	DWDMM12.80
13.00	.5118	114	151	DWDMM13.00
13.50	.5315	122	160	DWDMM13.50
14.00	.5512	122	160	DWDMM14.00
14.50	.5709	122	169	DWDMM14.50
15.00	.5906	132	169	DWDMM15.00
15.50	.6102	132	178	DWDMM15.50
16.00	.6299	132	178	DWDMM16.00
16.50	.6496	132	184	DWDMM16.50
17.00	.6693	143	184	DWDMM17.00
17.50	.6890	143	191	DWDMM17.50
18.00	.7087	145	191	DWDMM18.00
18.50	.7283	149	198	DWDMM18.50
19.00	.7480	149	198	DWDMM19.00
19.50	.7677	154	205	DWDMM19.50
20.00	.7874	154	205	DWDMM20.00

# COBALT METRIC JOBBERS DRILLS

## 135° SPLIT POINT

### D/AMMCO Series - Metric Cobalt

Manufactured to National Aerospace standard 907. Made of heat resistant cobalt, they display higher red hardness which permits speeds upto 30% greater than high speed steel drills and are especially effective in drilling tough, high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 2mm have the 118° standard point.



### M E T R I C   S I Z E S

D/AMMCO Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
*1.00	.0394	17	41	D/AMMCO1.00
*1.50	.0591	22	48	D/AMMCO1.50
2.00	.0787	25	51	D/AMMCO2.00
2.50	.0984	35	60	D/AMMCO2.50
3.00	.1181	41	70	D/AMMCO3.00
3.50	.1378	48	73	D/AMMCO3.50
4.00	.1575	54	83	D/AMMCO4.00
4.50	.1772	56	86	D/AMMCO4.50
5.00	.1969	62	92	D/AMMCO5.00
5.50	.2165	64	95	D/AMMCO5.50
6.00	.2362	70	102	D/AMMCO6.00
6.50	.2559	73	105	D/AMMCO6.50
7.00	.2756	73	105	D/AMMCO7.00

D/AMMCO Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
7.50	.2953	78	111	D/AMMCO7.50
8.00	.3150	81	114	D/AMMCO8.00
8.50	.3346	87	121	D/AMMCO8.50
9.00	.3543	89	124	D/AMMCO9.00
9.50	.3740	92	127	D/AMMCO9.50
10.00	.3937	95	130	D/AMMCO10.00
10.50	.4134	98	133	D/AMMCO10.50
11.00	.4331	103	140	D/AMMCO11.00
11.50	.4528	106	143	D/AMMCO11.50
12.00	.4724	111	149	D/AMMCO12.00
12.50	.4921	114	152	D/AMMCO12.50
13.00	.5118	114	152	D/AMMCO13.00

\*118° Standard Point

# HSS TIN-COATED JOBBER DRILLS 118° POINT

## DWDTN Series - TIN Coated

Superhard titanium nitride surface treatment improves drill life, chip ejection, and productivity; decreases horsepower requirements. Ideal for hard metals, work hardened stainless and other difficult to drill materials.



### FRACTIONAL SIZES

DWDTN Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/16"	.0625	7/8"	1-7/8"	DWDTN1/16
5/64"	.0781	1"	2"	DWDTN5/64
3/32"	.0938	1-1/4"	2-1/4"	DWDTN3/32
7/64"	.1094	1-1/2"	2-5/8"	DWDTN7/64
1/8"	.1250	1-5/8"	2-3/4"	DWDTN1/8
9/64"	.1406	1-3/4"	2-7/8"	DWDTN9/64
5/32"	.1562	2"	3-1/8"	DWDTN5/32
11/64"	.1719	2-1/8"	3-1/4"	DWDTN11/64
3/16"	.1875	2-5/16"	3-1/2"	DWDTN3/16
13/64"	.2031	2-7/16"	3-5/8"	DWDTN13/64
7/32"	.2188	2-1/2"	3-3/4"	DWDTN7/32
15/64"	.2344	2-5/8"	3-7/8"	DWDTN15/64
1/4"	.2500	2-3/4"	4"	DWDTN1/4
17/64"	.2656	2-7/8"	4-1/8"	DWDTN17/64
9/32"	.2812	2-15/16"	4-1/4"	DWDTN9/32
19/64"	.2969	3-1/16"	4-3/8"	DWDTN19/64
5/16"	.3125	3-3/16"	4-1/2"	DWDTN5/16
21/64"	.3281	3-5/16"	4-5/8"	DWDTN21/64
11/32"	.3438	3-7/16"	4-3/4"	DWDTN11/32
23/64"	.3594	3-1/2"	4-7/8"	DWDTN23/64
3/8"	.3750	3-5/8"	5"	DWDTN3/8
25/64"	.3906	3-3/4"	5-1/8"	DWDTN25/64
13/32"	.4062	3-7/8"	5-1/4"	DWDTN13/32
27/64"	.4219	3-15/16"	5-3/8"	DWDTN27/64
7/16"	.4375	4-1/16"	5-1/2"	DWDTN7/16
29/64"	.4531	4-3/16"	5-5/8"	DWDTN29/64
15/32"	.4688	4-5/16"	5-3/4"	DWDTN15/32
31/64"	.4844	4-3/8"	5-7/8"	DWDTN31/64
1/2"	.5000	4-1/2"	6"	DWDTN1/2

### WIRE GAUGE SIZES

DWDTN Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1	.2280	2-5/8"	3-7/8"	DWDTN1
2	.2210	2-5/8"	3-7/8"	DWDTN2
3	.2130	2-1/2"	3-3/4"	DWDTN3
4	.2090	2-1/2"	3-3/4"	DWDTN4
5	.2055	2-1/2"	3-3/4"	DWDTN5
6	.2040	2-1/2"	3-3/4"	DWDTN6
7	.2010	2-7/16"	3-5/8"	DWDTN7
8	.1990	2-7/16"	3-5/8"	DWDTN8
9	.1960	2-7/16"	3-5/8"	DWDTN9
10	.1935	2-7/16"	3-5/8"	DWDTN10
11	.1910	2-5/16"	3-1/2"	DWDTN11
12	.1890	2-5/16"	3-1/2"	DWDTN12
13	.1850	2-5/16"	3-1/2"	DWDTN13
14	.1820	2-3/16"	3-3/8"	DWDTN14
15	.1800	2-3/16"	3-3/8"	DWDTN15
16	.1770	2-3/16"	3-3/8"	DWDTN16
17	.1730	2-3/16"	3-3/8"	DWDTN17
18	.1695	2-1/8"	3-1/4"	DWDTN18
19	.1660	2-1/8"	3-1/4"	DWDTN19
20	.1610	2-1/8"	3-1/4"	DWDTN20
21	.1590	2-1/8"	3-1/4"	DWDTN21
22	.1570	2"	3-1/8"	DWDTN22
23	.1540	2"	3-1/8"	DWDTN23
24	.1520	2"	3-1/8"	DWDTN24
25	.1495	1-7/8"	3"	DWDTN25
26	.1470	1-7/8"	3"	DWDTN26
27	.1440	1-7/8"	3"	DWDTN27
28	.1405	1-3/4"	2-7/8"	DWDTN28
29	.1360	1-3/4"	2-7/8"	DWDTN29
30	.1285	1-5/8"	2-3/4"	DWDTN30
31	.1200	1-5/8"	2-3/4"	DWDTN31
32	.1160	1-5/8"	2-3/4"	DWDTN32
33	.1130	1-1/2"	2-5/8"	DWDTN33
34	.1110	1-1/2"	2-5/8"	DWDTN34
35	.1100	1-1/2"	2-5/8"	DWDTN35
36	.1065	1-7/16"	2-1/2"	DWDTN36
37	.1040	1-7/16"	2-1/2"	DWDTN37
38	.1015	1-7/16"	2-1/2"	DWDTN38
39	.0995	1-3/8"	2-3/8"	DWDTN39
40	.0980	1-3/8"	2-3/8"	DWDTN40

# HSS LEFT HAND JOBBER DRILLS

## 118° POINT

### DWDLH Series - Left Hand

General purpose drill construction. Features a left hand helix for applications where spindles rotate counterclockwise. Left hand drills can also be used to drill out broken bolts.



### F R A C T I O N A L   S I Z E S

DWDLH Series					DWDLH Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/32"	.0312	1/2"	1-3/8"	DWDLH1/32	9/32"	.2812	2-15/16"	4-1/4"	DWDLH9/32
3/64"	.0469	3/4"	1-3/4"	DWDLH3/64	19/64"	.2969	3-1/16"	4-3/8"	DWDLH19/64
1/16"	.0625	7/8"	1-7/8"	DWDLH1/16	5/16"	.3125	3-3/16"	4-1/2"	DWDLH5/16
5/64"	.0781	1"	2"	DWDLH5/64	21/64"	.3281	3-5/16"	4-5/8"	DWDLH21/64
3/32"	.0938	1-1/4"	2-1/4"	DWDLH3/32	11/32"	.3438	3-7/16"	4-3/4"	DWDLH11/32
7/64"	.1094	1-1/2"	2-5/8"	DWDLH7/64	23/64"	.3594	3-1/2"	4-7/8"	DWDLH23/64
1/8"	.1250	1-5/8"	2-3/4"	DWDLH1/8	3/8"	.3750	3-5/8"	5"	DWDLH3/8
9/64"	.1406	1-3/4"	2-7/8"	DWDLH9/64	25/64"	.3906	3-3/4"	5-1/8"	DWDLH25/64
5/32"	.1562	2"	3-1/8"	DWDLH5/32	13/32"	.4062	3-7/8"	5-1/4"	DWDLH13/32
11/64"	.1719	2-1/8"	3-1/4"	DWDLH11/64	27/64"	.4219	3-15/16"	5-3/8"	DWDLH27/64
3/16"	.1875	2-5/16"	3-1/2"	DWDLH3/16	7/16"	.4375	4-1/16"	5-1/2"	DWDLH7/16
13/64"	.2031	2-7/16"	3-5/8"	DWDLH13/64	29/64"	.4531	4-3/16"	5-5/8"	DWDLH29/64
7/32"	.2188	2-1/2"	3-3/4"	DWDLH7/32	15/32"	.4688	4-5/16"	5-3/4"	DWDLH15/32
15/64"	.2344	2-5/8"	3-7/8"	DWDLH15/64	31/64"	.4844	4-3/8"	5-7/8"	DWDLH31/64
1/4"	.2500	2-3/4"	4"	DWDLH1/4	1/2"	.5000	4-1/2"	6"	DWDLH1/2
17/64"	.2656	2-7/8"	4-1/8"	DWDLH17/64					

### W I R E   G A U G E   S I Z E S

DWDLH Series					DWDLH Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1	.2280	2-5/8"	3-7/8"	DWDLH1	31	.1200	1-5/8"	2-3/4"	DWDLH31
2	.2210	2-5/8"	3-7/8"	DWDLH2	32	.1160	1-5/8"	2-3/4"	DWDLH32
3	.2130	2-1/2"	3-3/4"	DWDLH3	33	.1130	1-1/2"	2-5/8"	DWDLH33
4	.2090	2-1/2"	3-3/4"	DWDLH4	34	.1110	1-1/2"	2-5/8"	DWDLH34
5	.2055	2-1/2"	3-3/4"	DWDLH5	35	.1100	1-1/2"	2-5/8"	DWDLH35
6	.2040	2-1/2"	3-3/4"	DWDLH6	36	.1065	1-7/16"	2-1/2"	DWDLH36
7	.2010	2-7/16"	3-5/8"	DWDLH7	37	.1040	1-7/16"	2-1/2"	DWDLH37
8	.1990	2-7/16"	3-5/8"	DWDLH8	38	.1015	1-7/16"	2-1/2"	DWDLH38
9	.1960	2-7/16"	3-5/8"	DWDLH9	39	.0995	1-3/8"	2-3/8"	DWDLH39
10	.1935	2-7/16"	3-5/8"	DWDLH10	40	.0980	1-3/8"	2-3/8"	DWDLH40
11	.1910	2-5/16"	3-1/2"	DWDLH11	41	.0960	1-3/8"	2-3/8"	DWDLH41
12	.1890	2-5/16"	3-1/2"	DWDLH12	42	.0935	1-1/4"	2-1/4"	DWDLH42
13	.1850	2-5/16"	3-1/2"	DWDLH13	43	.0890	1-1/4"	2-1/4"	DWDLH43
14	.1820	2-3/16"	3-3/8"	DWDLH14	44	.0860	1-1/8"	2-1/8"	DWDLH44
15	.1800	2-3/16"	3-3/8"	DWDLH15	45	.0820	1-1/8"	2-1/8"	DWDLH45
16	.1770	2-3/16"	3-3/8"	DWDLH16	46	.0810	1-1/8"	2-1/8"	DWDLH46
17	.1730	2-3/16"	3-3/8"	DWDLH17	47	.0785	1"	2"	DWDLH47
18	.1695	2-1/8"	3-1/4"	DWDLH18	48	.0760	1"	2"	DWDLH48
19	.1660	2-1/8"	3-1/4"	DWDLH19	49	.0730	1"	2"	DWDLH49
20	.1610	2-1/8"	3-1/4"	DWDLH20	50	.0700	1"	2"	DWDLH50
21	.1590	2-1/8"	3-1/4"	DWDLH21	51	.0670	1"	2"	DWDLH51
22	.1570	2"	3-1/8"	DWDLH22	52	.0635	7/8"	1-7/8"	DWDLH52
23	.1540	2"	3-1/8"	DWDLH23	53	.0595	7/8"	1-7/8"	DWDLH53
24	.1520	2"	3-1/8"	DWDLH24	54	.0550	7/8"	1-7/8"	DWDLH54
25	.1495	1-7/8"	3"	DWDLH25	55	.0520	7/8"	1-7/8"	DWDLH55
26	.1470	1-7/8"	3"	DWDLH26	56	.0465	3/4"	1-3/4"	DWDLH56
27	.1440	1-7/8"	3"	DWDLH27	57	.0430	3/4"	1-3/4"	DWDLH57
28	.1405	1-3/4"	2-7/8"	DWDLH28	58	.0420	11/16"	1-5/8"	DWDLH58
29	.1360	1-3/4"	2-7/8"	DWDLH29	59	.0410	11/16"	1-5/8"	DWDLH59
30	.1285	1-5/8"	2-3/4"	DWDLH30	60	.0400	11/16"	1-5/8"	DWDLH60



# HSS LEFT HAND JOBBER DRILLS

## 118° POINT



### LETTER SIZES

DWDLH Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
A	.2340	2-5/8"	3-7/8"	DWDLHA
B	.2380	2-3/4"	4"	DWDLHB
C	.2420	2-3/4"	4"	DWDLHC
D	.2460	2-3/4"	4"	DWDLHD
E	.2500	2-3/4"	4"	DWDLHE
F	.2570	2-7/8"	4-1/8"	DWDLHF
G	.2610	2-7/8"	4-1/8"	DWDLHG
H	.2660	2-7/8"	4-1/8"	DWDLHH
I	.2720	2-7/8"	4-1/8"	DWDLHI
J	.2770	2-7/8"	4-1/8"	DWDLHJ
K	.2810	2-15/16"	4-1/4"	DWDLHK
L	.2900	2-15/16"	4-1/4"	DWDLHL
M	.2950	3-1/16"	4-3/8"	DWDLHM

DWDLH Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
N	.3020	3-1/16"	4-3/8"	DWDLHN
O	.3160	3-3/16"	4-1/2"	DWDLHO
P	.3230	3-5/16"	4-5/8"	DWDLHP
Q	.3320	3-7/16"	4-3/4"	DWDLHQ
R	.3390	3-7/16"	4-3/4"	DWDLHR
S	.3480	3-1/2"	4-7/8"	DWDLHS
T	.3580	3-1/2"	4-7/8"	DWDLHT
U	.3680	3-5/8"	5"	DWDLHU
V	.3770	3-5/8"	5"	DWDLHV
W	.3860	3-3/4"	5-1/8"	DWDLHW
X	.3970	3-3/4"	5-1/8"	DWDLHX
Y	.4040	3-7/8"	5-1/4"	DWDLHY
Z	.4130	3-7/8"	5-1/4"	DWDLHZ

# HSS DRILL BLANK

## DWDBL Series - Blanks

Bright finish, Hardened and ground, blanks are often used as gauges to check hole size and drill bushing size. Can often be used as guide pins for die sets or modified as punches.



### FRACTIONAL SIZES

DWDBL Series			
Size	Dec. Equiv.	O.A.L.	Part Number
1/64"	.0156	3/4"	DWDBL1/64
1/32"	.0312	1-3/8"	DWDBL1/32
3/64"	.0469	1-3/4"	DWDBL3/64
1/16"	.0625	1-7/8"	DWDBL1/16
5/64"	.0781	2"	DWDBL5/64
3/32"	.0938	2-1/4"	DWDBL3/32
7/64"	.1094	2-5/8"	DWDBL7/64
1/8"	.1250	2-3/4"	DWDBL1/8
9/64"	.1406	2-7/8"	DWDBL9/64
5/32"	.1562	3-1/8"	DWDBL5/32
11/64"	.1719	3-1/4"	DWDBL11/64
3/16"	.1875	3-1/2"	DWDBL3/16
13/64"	.2031	3-5/8"	DWDBL13/64
7/32"	.2188	3-3/4"	DWDBL7/32
15/64"	.2344	3-7/8"	DWDBL15/64
1/4"	.2500	4"	DWDBL1/4
17/64"	.2656	4-1/8"	DWDBL17/64
9/32"	.2812	4-1/4"	DWDBL9/32
19/64"	.2969	4-3/8"	DWDBL19/64
5/16"	.3125	4-1/2"	DWDBL5/16
21/64"	.3281	4-5/8"	DWDBL21/64
11/32"	.3438	4-3/4"	DWDBL11/32
23/64"	.3594	4-7/8"	DWDBL23/64
3/8"	.3750	5"	DWDBL3/8
25/64"	.3906	5-1/8"	DWDBL25/64
13/32"	.4062	5-1/4"	DWDBL13/32
27/64"	.4219	5-3/8"	DWDBL27/64
7/16"	.4375	5-1/2"	DWDBL7/16
29/64"	.4531	5-5/8"	DWDBL29/64
15/32"	.4688	5-3/4"	DWDBL15/32
31/64"	.4844	5-7/8"	DWDBL31/64
1/2"	.5000	6"	DWDBL1/2

DWDBL Series			
Size	Dec. Equiv.	O.A.L.	Part Number
33/64"	.5156	6"	DWDBL33/64
17/32"	.5312	6"	DWDBL17/32
35/64"	.5469	6"	DWDBL35/64
9/16"	.5625	6"	DWDBL9/16
37/64"	.5781	6"	DWDBL37/64
19/32"	.5938	6"	DWDBL19/32
39/64"	.6094	6"	DWDBL39/64
5/8"	.6250	6"	DWDBL5/8
41/64"	.6406	6"	DWDBL41/64
21/32"	.6562	6"	DWDBL21/32
43/64"	.6719	6"	DWDBL43/64
11/16"	.6875	6"	DWDBL11/16
45/64"	.7031	6"	DWDBL45/64
23/32"	.7188	6"	DWDBL23/32
47/64"	.7344	6"	DWDBL47/64
3/4"	.7500	6"	DWDBL3/4
49/64"	.7656	6"	DWDBL49/64
25/32"	.7813	6"	DWDBL25/32
51/64"	.7969	6"	DWDBL51/64
13/16"	.8125	6"	DWDBL13/16
53/64"	.8281	6"	DWDBL53/64
27/32"	.8438	6"	DWDBL27/32
55/64"	.8594	6"	DWDBL55/64
7/8"	.8750	6"	DWDBL7/8
57/64"	.8906	6"	DWDBL57/64
29/32"	.9063	6"	DWDBL29/32
59/64"	.9219	6"	DWDBL59/64
15/16"	.9375	6"	DWDBL15/16
61/64"	.9531	6"	DWDBL61/64
31/32"	.9688	6"	DWDBL31/32
63/64"	.9844	6"	DWDBL63/64
1"	1.0000	6"	DWDBL1INCH

# SCREW MACHINE LENGTH DRILLS

## 135° SPLIT POINT

### DWDST Series - High Speed Economy

### D/AST Series - High Speed Premium Quality

Manufactured to National Aerospace Standard 907. 135° split point is self-centering and reduces thrust. Ideal for portable or machine drilling. Short, rugged construction performs well in a broad range of materials in the iron and steel families. Screw machine drills are popular in the automotive and construction industries. They are often used in screw machine setup where spindle clearance is limited. Sizes smaller than 1/16" or #52, and larger than 1/2" have the 118° standard point.



### KFDST Series - Black & Gold HSS Contractor Grade

Contractor grade drills are manufactured from M1 High Speed Steel for use in a wide range of materials such as aluminum, iron and steel. Screw machine drills are popular in the automotive and construction industries. They are often used in screw machine setup where spindle clearance is limited. The 135° split point is self-centering and reduces thrust.

### D/ASTCO Series - Cobalt Premium Quality

Manufactured to National Aerospace Standard 907. 135° split point is self-centering and reduces thrust. Ideal for portable or machine drilling. Short, rugged construction performs well in high tensile strength materials like PH stainless steel, inconel, and titanium. The 135° split point is self-centering and reduces thrust. Sizes smaller than 1/16" have the 118° standard point.



## F R A C T I O N A L   S I Z E S

				DWDST Series	KFDST Series	D/AST Series	D/ASTCO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number	Part Number
*3/64"	.0469	1/2"	1-3/8"	DWDST3/64	-	D/AST3/64	D/ASTCO3/64
1/16"	.0625	5/8"	1-5/8"	DWDST1/16	KFDST1/16	D/AST1/16	D/ASTCO1/16
5/64"	.0781	11/16"	1-11/16"	DWDST5/64	KFDST5/64	D/AST5/64	D/ASTCO5/64
3/32"	.0938	3/4"	1-3/4"	DWDST3/32	KFDST3/32	D/AST3/32	D/ASTCO3/32
7/64"	.1094	13/16"	1-13/16"	DWDST7/64	KFDST7/64	D/AST7/64	D/ASTCO7/64
1/8"	.1250	7/8"	1-7/8"	DWDST1/8	KFDST1/8	D/AST1/8	D/ASTCO1/8
9/64"	.1406	15/16"	1-15/16"	DWDST9/64	KFDST9/64	D/AST9/64	D/ASTCO9/64
5/32"	.1562	1"	2-1/16"	DWDST5/32	KFDST5/32	D/AST5/32	D/ASTCO5/32
11/64"	.1719	1-1/16"	2-1/8"	DWDST11/64	KFDST11/64	D/AST11/64	D/ASTCO11/64
3/16"	.1875	1-1/8"	2-3/16"	DWDST3/16	KFDST3/16	D/AST3/16	D/ASTCO3/16
13/64"	.2031	1-3/16"	2-1/4"	DWDST13/64	KFDST13/64	D/AST13/64	D/ASTCO13/64
7/32"	.2188	1-1/4"	2-3/8"	DWDST7/32	KFDST7/32	D/AST7/32	D/ASTCO7/32
15/64"	.2344	1-5/16"	2-7/16"	DWDST15/64	KFDST15/64	D/AST15/64	D/ASTCO15/64
1/4"	.2500	1-3/8"	2-1/2"	DWDST1/4	KFDST1/4	D/AST1/4	D/ASTCO1/4
17/64"	.2656	1-7/16"	2-5/8"	DWDST17/64	KFDST17/64	D/AST17/64	D/ASTCO17/64
9/32"	.2813	1-1/2"	2-11/16"	DWDST9/32	KFDST9/32	D/AST9/32	D/ASTCO9/32
19/64"	.2969	1-9/16"	2-3/4"	DWDST19/64	KFDST19/64	D/AST19/64	D/ASTCO19/64
5/16"	.3125	1-5/8"	2-13/16"	DWDST5/16	KFDST5/16	D/AST5/16	D/ASTCO5/16
21/64"	.3281	1-11/16"	2-15/16"	DWDST21/64	KFDST21/64	D/AST21/64	D/ASTCO21/64
11/32"	.3438	1-11/16"	3"	DWDST11/32	KFDST11/32	D/AST11/32	D/ASTCO11/32
23/64"	.3594	1-3/4"	3-1/16"	DWDST23/64	KFDST23/64	D/AST23/64	D/ASTCO23/64
3/8"	.3750	1-13/16"	3-1/8"	DWDST3/8	KFDST3/8	D/AST3/8	D/ASTCO3/8
25/64"	.3906	1-7/8"	3-1/4"	DWDST25/64	KFDST25/64	D/AST25/64	D/ASTCO25/64
13/32"	.4062	1-15/16"	3-5/16"	DWDST13/32	KFDST13/32	D/AST13/32	D/ASTCO13/32
27/64"	.4219	2"	3-3/8"	DWDST27/64	KFDST27/64	D/AST27/64	D/ASTCO27/64
7/16"	.4375	2-1/16"	3-7/16"	DWDST7/16	KFDST7/16	D/AST7/16	D/ASTCO7/16
29/64"	.4531	2-1/8"	3-9/16"	DWDST29/64	KFDST29/64	D/AST29/64	D/ASTCO29/64
15/32"	.4688	2-1/8"	3-5/8"	DWDST15/32	KFDST15/32	D/AST15/32	D/ASTCO15/32
31/64"	.4844	2-3/16"	3-11/16"	DWDST31/64	KFDST31/64	D/AST31/64	D/ASTCO31/64
1/2"	.5000	2-1/4"	3-3/4"	DWDST1/2	KFDST1/2	D/AST1/2	D/ASTCO1/2

\*118° Standard Point

# SCREW MACHINE LENGTH DRILLS 118° POINT

F R A C T I O N A L   S I Z E S   O V E R   1 / 2 "

				DWDST Series	D/ASTCO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
33/64"	.5156	2-3/8"	3-7/8"	DWDST33/64	D/ASTCO33/64
17/32"	.5312	2-3/8"	3-7/8"	DWDST17/32	D/ASTCO17/32
35/64"	.5469	2-1/2"	4"	DWDST35/64	D/ASTCO35/64
9/16"	.5625	2-1/2"	4"	DWDST9/16	D/ASTCO9/16
37/64"	.5781	2-5/8"	4-1/8"	DWDST37/64	D/ASTCO37/64
19/32"	.5938	2-5/8"	4-1/8"	DWDST19/32	D/ASTCO19/32
39/64"	.6094	2-3/4"	4-1/4"	DWDST39/64	D/ASTCO39/64
5/8"	.6250	2-3/4"	4-1/4"	DWDST5/8	D/ASTCO5/8
41/64"	.6406	2-7/8"	4-1/2"	DWDST41/64	D/ASTCO41/64
21/32"	.6562	2-7/8"	4-1/2"	DWDST21/32	D/ASTCO21/32
43/64"	.6719	2-7/8"	4-5/8"	DWDST43/64	D/ASTCO43/64
11/16"	.6875	2-7/8"	4-5/8"	DWDST11/16	D/ASTCO11/16
45/64"	.7031	3"	4-3/4"	DWDST45/64	D/ASTCO45/64
23/32"	.7188	3"	4-3/4"	DWDST23/32	D/ASTCO23/32
47/64"	.7344	3-1/8"	5"	DWDST47/64	D/ASTCO47/64
3/4"	.7500	3-1/8"	5"	DWDST3/4	D/ASTCO3/4
49/64"	.7656	3-1/4"	5-1/8"	DWDST49/64	D/ASTCO49/64
25/32"	.7812	3-1/4"	5-1/8"	DWDST25/32	D/ASTCO25/32
51/64"	.7969	3-3/8"	5-1/4"	DWDST51/64	D/ASTCO51/64
13/16"	.8125	3-3/8"	5-1/4"	DWDST13/16	D/ASTCO13/16
53/64"	.8281	3-1/2"	5-3/8"	DWDST53/64	D/ASTCO53/64
27/32"	.8438	3-1/2"	5-3/8"	DWDST27/32	D/ASTCO27/32
55/64"	.8594	3-1/2"	5-1/2"	DWDST55/64	D/ASTCO55/64
7/8"	.8750	3-1/2"	5-1/2"	DWDST7/8	D/ASTCO7/8
57/64"	.8906	3-5/8"	5-5/8"	DWDST57/64	D/ASTCO57/64
29/32"	.9062	3-5/8"	5-5/8"	DWDST29/32	D/ASTCO29/32
59/64"	.9219	3-3/4"	5-3/4"	DWDST59/64	D/ASTCO59/64
15/16"	.9375	3-3/4"	5-3/4"	DWDST15/16	D/ASTCO15/16
61/64"	.9531	3-7/8"	5-7/8"	DWDST61/64	D/ASTCO61/64
31/32"	.9688	3-7/8"	5-7/8"	DWDST31/32	D/ASTCO31/32
63/64"	.9844	4"	6"	DWDST63/64	D/ASTCO63/64
1"	1.0000	4"	6"	DWDST1INCH	D/ASTCO1INCH
1-1/64"	1.0156	4"	6"	DWDST1-1/64	
1-1/32"	1.0312	4"	6-1/4"	DWDST1-1/32	
1-3/64"	1.0469	4"	6-1/4"	DWDST1-3/64	
1-1/16"	1.0625	4"	6-1/4"	DWDST1-1/16	
1-5/64"	1.0781	4"	6-1/4"	DWDST1-5/64	
1-3/32"	1.0938	4"	6-1/4"	DWDST1-3/32	
1-7/64"	1.1094	4"	6-1/4"	DWDST1-7/64	
1-1/8"	1.1250	4"	6-3/8"	DWDST1-1/8	
1-9/64"	1.1406	4"	6-3/8"	DWDST1-9/64	
1-5/32"	1.1562	4-1/4"	6-5/8"	DWDST1-5/32	
1-11/64"	1.1719	4-1/4"	6-5/8"	DWDST1-11/64	
1-3/16"	1.1875	4-1/4"	6-5/8"	DWDST1-3/16	
1-1/4"	1.2500	4-3/8"	6-3/4"	DWDST1-1/4	
1-9/32"	1.2813	4-3/8"	7"	DWDST1-9/32	
1-5/16"	1.3125	4-3/8"	7"	DWDST1-5/16	
1-3/8"	1.3750	4-1/2"	7-1/8"	DWDST1-3/8	
1-13/32"	1.4062	4-3/4"	7-3/8"	DWDST1-13/32	
1-7/16"	1.4375	4-3/4"	7-3/8"	DWDST1-7/16	
1-1/2"	1.5000	4-7/8"	7-1/2"	DWDST1-1/2	
2"	2.0000	5-5/8"	8-1/2"	DWDST2INCH	



# SCREW MACHINE LENGTH DRILLS

## 135° SPLIT POINT

W I R E G A U G E S I Z E S



				DWDST Series	D/AST Series	D/ASTCO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
1	.2280	1-5/16"	2-7/16"	DWDST1	D/AST1	D/ASTCO1
2	.2210	1-5/16"	2-7/16"	DWDST2	D/AST2	D/ASTCO2
3	.2130	1-1/4"	2-3/8"	DWDST3	D/AST3	D/ASTCO3
4	.2090	1-1/4"	2-3/8"	DWDST4	D/AST4	D/ASTCO4
5	.2055	1-1/4"	2-3/8"	DWDST5	D/AST5	D/ASTCO5
6	.2040	1-1/4"	2-3/8"	DWDST6	D/AST6	D/ASTCO6
7	.2010	1-3/16"	2-1/4"	DWDST7	D/AST7	D/ASTCO7
8	.1990	1-3/16"	2-1/4"	DWDST8	D/AST8	D/ASTCO8
9	.1960	1-3/16"	2-1/4"	DWDST9	D/AST9	D/ASTCO9
10	.1935	1-3/16"	2-1/4"	DWDST10	D/AST10	D/ASTCO10
11	.1910	1-3/16"	2-1/4"	DWDST11	D/AST11	D/ASTCO11
12	.1890	1-3/16"	2-1/4"	DWDST12	D/AST12	D/ASTCO12
13	.1850	1-1/8"	2-3/16"	DWDST13	D/AST13	D/ASTCO13
14	.1820	1-1/8"	2-3/16"	DWDST14	D/AST14	D/ASTCO14
15	.1800	1-1/8"	2-3/16"	DWDST15	D/AST15	D/ASTCO15
16	.1770	1-1/8"	2-3/16"	DWDST16	D/AST16	D/ASTCO16
17	.1730	1-1/8"	2-3/16"	DWDST17	D/AST17	D/ASTCO17
18	.1695	1-1/16"	2-1/8"	DWDST18	D/AST18	D/ASTCO18
19	.1660	1-1/16"	2-1/8"	DWDST19	D/AST19	D/ASTCO19
20	.1610	1-1/16"	2-1/8"	DWDST20	D/AST20	D/ASTCO20
21	.1590	1-1/16"	2-1/8"	DWDST21	D/AST21	D/ASTCO21
22	.1570	1-1/16"	2-1/8"	DWDST22	D/AST22	D/ASTCO22
23	.1540	1"	2-1/16"	DWDST23	D/AST23	D/ASTCO23
24	.1520	1"	2-1/16"	DWDST24	D/AST24	D/ASTCO24
25	.1495	1"	2-1/16"	DWDST25	D/AST25	D/ASTCO25
26	.1470	1"	2-1/16"	DWDST26	D/AST26	D/ASTCO26
27	.1440	1"	2-1/16"	DWDST27	D/AST27	D/ASTCO27
28	.1405	15/16"	1-15/16"	DWDST28	D/AST28	D/ASTCO28
29	.1360	15/16"	1-15/16"	DWDST29	D/AST29	D/ASTCO29
30	.1285	15/16"	1-15/16"	DWDST30	D/AST30	D/ASTCO30
31	.1200	7/8"	1-7/8"	DWDST31	D/AST31	D/ASTCO31
32	.1160	7/8"	1-7/8"	DWDST32	D/AST32	D/ASTCO32
33	.1130	7/8"	1-7/8"	DWDST33	D/AST33	D/ASTCO33
34	.1110	7/8"	1-7/8"	DWDST34	D/AST34	D/ASTCO34
35	.1100	7/8"	1-7/8"	DWDST35	D/AST35	D/ASTCO35
36	.1065	13/16"	1-13/16"	DWDST36	D/AST36	D/ASTCO36
37	.1040	13/16"	1-13/16"	DWDST37	D/AST37	D/ASTCO37
38	.1015	13/16"	1-13/16"	DWDST38	D/AST38	D/ASTCO38
39	.0995	13/16"	1-13/16"	DWDST39	D/AST39	D/ASTCO39
40	.0980	13/16"	1-13/16"	DWDST40	D/AST40	D/ASTCO40
41	.0960	13/16"	1-13/16"	DWDST41	D/AST41	D/ASTCO41
42	.0935	3/4"	1-3/4"	DWDST42	D/AST42	D/ASTCO42
43	.0890	3/4"	1-3/4"	DWDST43	D/AST43	D/ASTCO43
44	.0860	3/4"	1-3/4"	DWDST44	D/AST44	D/ASTCO44
45	.0820	3/4"	1-3/4"	DWDST45	D/AST45	D/ASTCO45
46	.0810	3/4"	1-3/4"	DWDST46	D/AST46	D/ASTCO46
47	.0785	11/16"	1-11/16"	DWDST47	D/AST47	D/ASTCO47
48	.0760	11/16"	1-11/16"	DWDST48	D/AST48	D/ASTCO48
49	.0730	11/16"	1-11/16"	DWDST49	D/AST49	D/ASTCO49
50	.0700	11/16"	1-11/16"	DWDST50	D/AST50	D/ASTCO50
51	.0670	11/16"	1-11/16"	DWDST51	D/AST51	D/ASTCO51
52	.0635	11/16"	1-11/16"	DWDST52	D/AST52	D/ASTCO52
*53	.0595	5/8"	1-5/8"	DWDST53	D/AST53	D/ASTCO53
*54	.0550	5/8"	1-5/8"	DWDST54	D/AST54	D/ASTCO54
*55	.0520	5/8"	1-5/8"	DWDST55	D/AST55	D/ASTCO55
*56	.0465	1/2"	1-3/8"	DWDST56	D/AST56	D/ASTCO56
*57	.0430	1/2"	1-3/8"	DWDST57	D/AST57	D/ASTCO57
*58	.0420	1/2"	1-3/8"	DWDST58	D/AST58	D/ASTCO58
*59	.0410	1/2"	1-3/8"	DWDST59	D/AST59	D/ASTCO59
*60	.0400	1/2"	1-3/8"	DWDST60	D/AST60	D/ASTCO60

\*118° Standard Point

# SCREW MACHINE LENGTH DRILLS 135° SPLIT POINT

LETTER SIZES



				DWDST Series	D/AST Series	D/ASTCO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
A	.2340	1-5/16"	2-7/16"	DWDSTA	D/ASTA	D/ASTCOA
B	.2380	1-3/8"	2-1/2"	DWDSTB	D/ASTB	D/ASTCOB
C	.2420	1-3/8"	2-1/2"	DWDSTC	D/ASTC	D/ASTCOC
D	.2460	1-3/8"	2-1/2"	DWDSTD	D/ASTD	D/ASTCOD
E	.2500	1-3/8"	2-1/2"	DWDSTE	D/ASTE	D/ASTCOE
F	.2570	1-7/16"	2-5/8"	DWDSTF	D/ASTF	D/ASTCOF
G	.2610	1-7/16"	2-5/8"	DWDSTG	D/ASTG	D/ASTCOG
H	.2660	1-1/2"	2-11/16"	DWDSTH	D/ASTH	D/ASTCOH
I	.2720	1-1/2"	2-11/16"	DWDSTI	D/ASTI	D/ASTCOI
J	.2770	1-1/2"	2-11/16"	DWDSTJ	D/ASTJ	D/ASTCOJ
K	.2810	1-1/2"	2-11/16"	DWDSTK	D/ASTK	D/ASTCOK
L	.2900	1-9/16"	2-3/4"	DWDSTL	D/ASTL	D/ASTCOL
M	.2950	1-9/16"	2-3/4"	DWDSTM	D/ASTM	D/ASTCOM
N	.3020	1-5/8"	2-13/16"	DWDSTN	D/ASTN	D/ASTCON
O	.3160	1-11/16"	2-15/16"	DWDSTO	D/ASTO	D/ASTCOO
P	.3230	1-11/16"	2-15/16"	DWDSTP	D/ASTP	D/ASTCOP
Q	.3320	1-11/16"	3"	DWDSTQ	D/ASTQ	D/ASTCOQ
R	.3390	1-11/16"	3"	DWDSTR	D/ASTR	D/ASTCOR
S	.3480	1-3/4"	3-1/16"	DWDSTS	D/ASTS	D/ASTCOS
T	.3580	1-3/4"	3-1/16"	DWDSTT	D/ASTT	D/ASTCOT
U	.3680	1-13/16"	3-1/8"	DWDSTU	D/ASTU	D/ASTCOU
V	.3770	1-7/8"	3-1/4"	DWDSTV	D/ASTV	D/ASTCOV
W	.3860	1-7/8"	3-1/4"	DWDSTW	D/ASTW	D/ASTCOW
X	.3970	1-15/16"	3-5/16"	DWDSTX	D/ASTX	D/ASTCOX
Y	.4040	1-15/16"	3-5/16"	DWDSTY	D/ASTY	D/ASTCOY
Z	.4130	2"	3-3/8"	DWDSTZ	D/ASTZ	D/ASTCOZ

## BLUE DIAMOND SEGMENT

DIA Series - Diamond Bits



Size	Part Number
1/4"	DIA1/4
5/16"	DIA5/16
3/8"	DIA3/8
1/2"	DIA1/2

SHARPENING STONE  
DIA416





# KFD MECHANICS LENGTH DRILLS 135° SPLIT POINT

## KFDML Series - KFD Mechanics Length

Manufactured from premium grade high speed steel, Killer Force Drills have a heavy duty 135° split point for self-centering and reducing thrust. Gold and black surface treated for use in stainless steel and other hard metal drilling. \*Sizes 1/16" - 11/64" have a round shank.



### F R A C T I O N A L   S I Z E S

KFDML Series					KFDML Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
*1/16"	.0625	7/8"	1-7/8"	KFDML1/16	19/64"	.2969	2-1/4"	3-3/4"	KFDML19/64
*5/64"	.0781	1"	2"	KFDML5/64	5/16"	.3125	2-3/8"	4"	KFDML5/16
*3/32"	.0938	1-1/8"	2-1/4"	KFDML3/32	21/64"	.3281	2-1/2"	4-1/16"	KFDML21/64
*7/64"	.1094	1-1/8"	2-3/8"	KFDML7/64	11/32"	.3438	2-9/16"	4-1/8"	KFDML11/32
*1/8"	.1250	1-3/16"	2-1/2"	KFDML1/8	23/64"	.3594	2-9/16"	4-3/16"	KFDML23/64
*9/64"	.1406	1-3/8"	2-5/8"	KFDML9/64	3/8"	.3750	2-5/8"	4-1/4"	KFDML3/8
*5/32"	.1562	1-1/2"	2-3/4"	KFDML5/32	25/64"	.3906	2-5/8"	4-5/16"	KFDML25/64
*11/64"	.1719	1-9/16"	2-7/8"	KFDML11/64	13/32"	.4062	2-11/16"	4-3/8"	KFDML13/32
3/16"	.1875	1-5/8"	3"	KFDML3/16	27/64"	.4219	2-3/4"	4-7/16"	KFDML27/64
13/64"	.2031	1-11/16"	3-1/8"	KFDML13/64	7/16"	.4375	2-7/8"	4-1/2"	KFDML7/16
7/32"	.2188	1-3/4"	3-1/4"	KFDML7/32	29/64"	.4531	2-15/16"	4-5/8"	KFDML29/64
15/64"	.2344	1-7/8"	3-3/8"	KFDML15/64	15/32"	.4688	3"	4-3/4"	KFDML15/32
1/4"	.2500	2"	3-1/2"	KFDML1/4	31/64"	.4844	3-1/8"	4-7/8"	KFDML31/64
17/64"	.2656	2"	3-5/8"	KFDML17/64	1/2"	.5000	3-1/4"	5"	KFDML1/2
9/32"	.2812	2-3/16"	3-5/8"	KFDML9/32					

# HSS DOUBLE END DRILLS 135° SPLIT POINT

## DWDDE - Economy

## D/ADE - Premium Quality

Used for drilling truck and auto bodies, or any thin sheet metal. Popular for pop rivet drilling applications. 135° self-centering split point aids in penetration.



				DWDDE Series	D/ADE Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
7/64"	.1094	1/2"	1-7/8"	DWDDE7/64	D/ADE7/64
1/8"	.1250	1/2"	2"	DWDDE1/8	D/ADE1/8
30	.1285	1/2"	2"	DWDDE30	D/ADE30
9/64"	.1406	1/2"	2"	DWDDE9/64	D/ADE9/64
5/32"	.1563	1/2"	2-1/16"	DWDDE5/32	D/ADE5/32
20	.1610	1/2"	2-1/8"	DWDDE20	D/ADE20
3/16"	.1875	1/2"	2-3/16"	DWDDE3/16	D/ADE3/16
11	.1910	1/2"	2-1/4"	DWDDE11	D/ADE11
7/32"	.2188	1/2"	2-3/8"	DWDDE7/32	D/ADE7/32
1/4"	.2500	1/2"	2-1/2"	DWDDE1/4	D/ADE1/4

# SOLID CARBIDE DRILLS 118° POINT

## DMOD Series - Solid Carbide Drills

Solid carbide drills are designed for drilling abrasive materials when drilling accuracy must be maintained and/or when used in high temperature drilling applications. Solid Carbide drills are used on materials such as cast iron, the non-ferrous alloys, high silicon aluminum, copper, plastics, bronze, hard rubber, plexiglass, and other similar materials.

### F R A C T I O N A L   S I Z E S

DMOD Series					DMOD Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/32"	.0312	1/2"	1-1/4"	DMOD1/32	9/32"	.2813	2-1/8"	3-1/2"	DMOD9/32
3/64"	.0469	3/4"	1-1/2"	DMOD3/64	19/64"	.2969	2-3/8"	3-3/4"	DMOD19/64
1/16"	.0625	3/4"	1-1/2"	DMOD1/16	5/16"	.3125	2-3/8"	3-3/4"	DMOD5/16
5/64"	.0781	7/8"	1-3/4"	DMOD5/64	21/64"	.3281	2-1/2"	4"	DMOD21/64
3/32"	.0938	1"	2"	DMOD3/32	11/32"	.3438	2-1/2"	4"	DMOD11/32
7/64"	.1094	1-1/4"	2-1/4"	DMOD7/64	23/64"	.3594	2-3/4"	4-1/4"	DMOD23/64
1/8"	.1250	1-1/4"	2-1/4"	DMOD1/8	3/8"	.3750	2-3/4"	4-1/4"	DMOD3/8
9/64"	.1406	1-3/8"	2-1/2"	DMOD9/64	25/64"	.3906	2-7/8"	4-1/2"	DMOD25/64
5/32"	.1563	1-3/8"	2-1/2"	DMOD5/32	13/32"	.4063	2-7/8"	4-1/2"	DMOD13/32
11/64"	.1719	1-5/8"	2-3/4"	DMOD11/64	27/64"	.4219	2-7/8"	4-1/2"	DMOD27/64
3/16"	.1875	1-5/8"	2-3/4"	DMOD3/16	7/16"	.4375	2-7/8"	4-1/2"	DMOD7/16
13/64"	.2031	1-3/4"	3"	DMOD13/64	29/64"	.4531	3"	4-3/4"	DMOD29/64
7/32"	.2188	1-3/4"	3"	DMOD7/32	15/32"	.4688	3"	4-3/4"	DMOD15/32
15/64"	.2344	2"	3-1/4"	DMOD15/64	31/64"	.4844	3"	4-3/4"	DMOD31/64
1/4"	.2500	2"	3-1/4"	DMOD1/4	1/2"	.5000	3"	4-3/4"	DMOD1/2
17/64"	.2656	2-1/8"	3-1/2"	DMOD17/64					



### W I R E   G A U G E   S I Z E S

DMOD Series					DMOD Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1	.2280	1-3/4"	3"	DMOD1	31	.1200	1-1/4"	2-1/4"	DMOD31
2	.2210	1-3/4"	3"	DMOD2	32	.1160	1-1/4"	2-1/4"	DMOD32
3	.2130	1-3/4"	3"	DMOD3	33	.1130	1-1/4"	2-1/4"	DMOD33
4	.2090	1-3/4"	3"	DMOD4	34	.1110	1-1/4"	2-1/4"	DMOD34
5	.2055	1-3/4"	3"	DMOD5	35	.1100	1-1/4"	2-1/4"	DMOD35
6	.2040	1-3/4"	3"	DMOD6	36	.1065	1-1/4"	2-1/4"	DMOD36
7	.2010	1-3/4"	3"	DMOD7	37	.1040	1-1/4"	2-1/4"	DMOD37
8	.1990	1-3/4"	3"	DMOD8	38	.1015	1-1/4"	2-1/4"	DMOD38
9	.1960	1-3/4"	3"	DMOD9	39	.0995	1-1/4"	2-1/4"	DMOD39
10	.1935	1-5/8"	2-3/4"	DMOD10	40	.0980	1"	2"	DMOD40
11	.1910	1-5/8"	2-3/4"	DMOD11	41	.0960	1"	2"	DMOD41
12	.1890	1-5/8"	2-3/4"	DMOD12	42	.0935	1"	2"	DMOD42
13	.1850	1-5/8"	2-3/4"	DMOD13	43	.0890	1"	2"	DMOD43
14	.1820	1-5/8"	2-3/4"	DMOD14	44	.0860	1"	2"	DMOD44
15	.1800	1-5/8"	2-3/4"	DMOD15	45	.0820	7/8"	1-3/4"	DMOD45
16	.1770	1-5/8"	2-3/4"	DMOD16	46	.0810	7/8"	1-3/4"	DMOD46
17	.1730	1-5/8"	2-3/4"	DMOD17	47	.0785	7/8"	1-3/4"	DMOD47
18	.1695	1-5/8"	2-3/4"	DMOD18	48	.0760	7/8"	1-3/4"	DMOD48
19	.1660	1-5/8"	2-3/4"	DMOD19	49	.0730	7/8"	1-3/4"	DMOD49
20	.1610	1-3/8"	2-1/2"	DMOD20	50	.0700	7/8"	1-3/4"	DMOD50
21	.1590	1-3/8"	2-1/2"	DMOD21	51	.0670	3/4"	1-1/2"	DMOD51
22	.1570	1-3/8"	2-1/2"	DMOD22	52	.0635	3/4"	1-1/2"	DMOD52
23	.1540	1-3/8"	2-1/2"	DMOD23	53	.0595	3/4"	1-1/2"	DMOD53
24	.1520	1-3/8"	2-1/2"	DMOD24	54	.0550	3/4"	1-1/2"	DMOD54
25	.1495	1-3/8"	2-1/2"	DMOD25	55	.0520	3/4"	1-1/2"	DMOD55
26	.1470	1-3/8"	2-1/2"	DMOD26	56	.0465	3/4"	1-1/2"	DMOD56
27	.1440	1-3/8"	2-1/2"	DMOD27	57	.0430	3/4"	1-1/2"	DMOD57
28	.1405	1-3/8"	2-1/2"	DMOD28	58	.0420	3/4"	1-1/2"	DMOD58
29	.1360	1-3/8"	2-1/2"	DMOD29	59	.0410	3/4"	1-1/2"	DMOD59
30	.1285	1-1/4"	2-1/4"	DMOD30	60	.0400	3/4"	1-1/2"	DMOD60

# SOLID CARBIDE DRILLS

## 118° POINT

LETTER SIZES

### DMOD Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
A	.2340	2"	3-1/4"	DMODA
B	.2380	2"	3-1/4"	DMODB
C	.2420	2"	3-1/4"	DMODC
D	.2460	2"	3-1/4"	DMODD
E	.2500	2"	3-1/4"	DMODE
F	.2570	2"	3-1/4"	DMODF
G	.2610	2-1/8"	3-1/2"	DMODG
H	.2660	2-1/8"	3-1/2"	DMODH
I	.2720	2-1/8"	3-1/2"	DMODI
J	.2770	2-1/8"	3-1/2"	DMODJ
K	.2810	2-1/8"	3-1/2"	DMODK
L	.2900	2-1/8"	3-1/2"	DMODL
M	.2950	2-3/8"	3-3/4"	DMODM

### DMOD Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
N	.3020	2-3/8"	3-3/4"	DMODN
O	.3160	2-3/8"	3-3/4"	DMODO
P	.3230	2-3/8"	3-3/4"	DMODP
Q	.3320	2-1/2"	4"	DMODQ
R	.3390	2-1/2"	4"	DMODR
S	.3480	2-1/2"	4"	DMODS
T	.3580	2-3/4"	4-1/4"	DMODT
U	.3680	2-3/4"	4-1/4"	DMODU
V	.3770	2-3/4"	4-1/4"	DMODV
W	.3860	2-7/8"	4-1/2"	DMODW
X	.3970	2-7/8"	4-1/2"	DMODX
Y	.4040	2-7/8"	4-1/2"	DMODY
Z	.4130	2-7/8"	4-1/2"	DMODZ

## DIE DRILLS

### D/ADIE Series - Carbide Tipped Die Drills

Run at 75 to 100 surface feet per minute with steady hand feed. It is good practice to clear the drill from the hole to allow coolant to wash away the chips. Designed for drilling hardened steels in the range of 45-65 Rc. Note: Sizes under 11/64" are solid carbide spade construction.

### D/ADIE Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/16"	.0625	15/32"	2"	D/ADIE1/16
3/32"	.0938	17/32"	2"	D/ADIE3/32
1/8"	.1250	21/32"	2"	D/ADIE1/8
5/32"	.1562	21/32"	2"	D/ADIE5/32
11/64"	.1719	1-1/2"	3-1/2"	D/ADIE11/64
3/16"	.1875	1-1/2"	3-1/2"	D/ADIE3/16
13/64"	.2031	1-3/4"	3-3/4"	D/ADIE13/64
7/32"	.2188	1-3/4"	3-3/4"	D/ADIE7/32
15/64"	.2344	2"	4"	D/ADIE15/64
1/4"	.2500	2"	4"	D/ADIE1/4
17/64"	.2656	2-1/4"	4-1/4"	D/ADIE17/64
9/32"	.2812	2-1/4"	4-1/4"	D/ADIE9/32
19/64"	.2969	2-1/2"	4-1/2"	D/ADIE19/64
5/16"	.3125	2-1/2"	4-1/2"	D/ADIE5/16
21/64"	.3281	2-3/4"	4-3/4"	D/ADIE21/64
11/32"	.3438	2-3/4"	4-3/4"	D/ADIE11/32
23/64"	.3594	3"	5"	D/ADIE23/64
3/8"	.3750	3"	5"	D/ADIE3/8
25/64"	.3906	3"	5-1/4"	D/ADIE25/64
13/32"	.4062	3"	5-1/4"	D/ADIE13/32

### D/ADIE Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
27/64"	.4219	3"	5-1/2"	D/ADIE27/64
7/16"	.4375	3"	5-1/2"	D/ADIE7/16
29/64"	.4531	3-1/4"	5-3/4"	D/ADIE29/64
15/32"	.4688	3-1/4"	5-3/4"	D/ADIE15/32
31/64"	.4844	3-1/2"	6"	D/ADIE31/64
1/2"	.5000	3-1/2"	6"	D/ADIE1/2
17/32"	.5312	3-1/2"	6"	D/ADIE17/32
9/16"	.5625	3-1/2"	6"	D/ADIE9/16
19/32"	.5938	4"	7"	D/ADIE19/32
5/8"	.6250	4"	7"	D/ADIE5/8
21/32"	.6562	4-1/2"	7-1/2"	D/ADIE21/32
11/16"	.6875	4-1/2"	7-1/2"	D/ADIE11/16
23/32"	.7188	4-3/4"	8"	D/ADIE23/32
3/4"	.7500	4-3/4"	8"	D/ADIE3/4

## CARBIDE SPADE DRILLS

### DMOSPADE Series - Carbide Spade Drills

### DMOSPADE Series

Size	Dec. Equiv.	O.A.L.	Part Number
1/16"	0.0625	1-1/2"	DMO1/16SPADE
3/32"	0.0938	1-1/2"	DMO3/32SPADE
7/64"	0.1094	1-1/2"	DMO7/64SPADE
1/8"	0.1250	1-1/2"	DMO1/8SPADE
9/64"	0.1406	1-1/2"	DMO9/64SPADE
5/32"	0.1563	2"	DMO5/32SPADE
11/64"	0.1719	2"	DMO11/64SPADE
3/16"	0.1875	2"	DMO3/16SPADE
7/32"	0.2188	2"	DMO7/32SPADE
1/4"	0.2500	2"	DMO1/4SPADE

### DMOSPADE Series

Size	Dec. Equiv.	O.A.L.	Part Number
9/32"	0.2813	2"	DMO9/32SPADE
5/16"	0.3125	2-1/2"	DMO5/16SPADE
11/32"	0.3438	2-1/2"	DMO11/32SPADE
3/8"	0.3750	2-1/2"	DMO3/8SPADE
13/32"	0.4063	2-1/2"	DMO13/32SPADE
7/16"	0.4375	2-3/4"	DMO7/16SPADE
15/32"	0.4688	2-1/2"	DMO15/32SPADE
1/2"	0.5000	3"	DMO1/2SPADE

# CARBIDE TIPPED JOBBER DRILLS

## 118° POINT

### D/ACT Series - Carbide Tipped

Features heavy-duty construction and heat treated body for optimum wear resistance and support of the carbide tip. Used in the production of cast iron, non-ferrous metals, and many composite materials such as hard rubber or copper alloys NOT RECOMMENDED FOR DRILLING STEEL.



### FRACTIONAL SIZES

### WIRE GAUGE SIZES

D/ACT Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/8"	.1250	1-5/8"	2-3/4"	D/ACT1/8
9/64"	.1406	1-3/4"	2-7/8"	D/ACT9/64
5/32"	.1562	2"	3-1/8"	D/ACT5/32
11/64"	.1719	2-1/8"	3-1/4"	D/ACT11/64
3/16"	.1875	2-5/16"	3-1/2"	D/ACT3/16
13/64"	.2031	2-7/16"	3-5/8"	D/ACT13/64
7/32"	.2188	2-1/2"	3-3/4"	D/ACT7/32
15/64"	.2344	2-5/8"	3-7/8"	D/ACT15/64
1/4"	.2500	2-3/4"	4"	D/ACT1/4
17/64"	.2656	2-7/8"	4-1/8"	D/ACT17/64
9/32"	.2812	2-15/16"	4-1/4"	D/ACT9/32
19/64"	.2969	3-1/16"	4-3/8"	D/ACT19/64
5/16"	.3125	3-3/16"	4-1/2"	D/ACT5/16
21/64"	.3281	3-5/16"	4-5/8"	D/ACT21/64
11/32"	.3438	3-7/16"	4-3/4"	D/ACT11/32
23/64"	.3594	3-1/2"	4-7/8"	D/ACT23/64
3/8"	.3750	3-5/8"	5"	D/ACT3/8
25/64"	.3906	3-3/4"	5-1/8"	D/ACT25/64
13/32"	.4062	3-7/8"	5-1/4"	D/ACT13/32
27/64"	.4219	3-15/16"	5-3/8"	D/ACT27/64
7/16"	.4375	4-1/16"	5-1/2"	D/ACT7/16
29/64"	.4531	4-3/16"	5-5/8"	D/ACT29/64
15/32"	.4688	4-5/16"	5-3/4"	D/ACT15/32
31/64"	.4844	4-3/8"	5-7/8"	D/ACT31/64
1/2"	.5000	4-1/2"	6"	D/ACT1/2

D/ACT Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1	.2280	2-5/8"	3-7/8"	D/ACT1
2	.2210	2-5/8"	3-7/8"	D/ACT2
3	.2130	2-1/2"	3-3/4"	D/ACT3
4	.2090	2-1/2"	3-3/4"	D/ACT4
5	.2055	2-1/2"	3-3/4"	D/ACT5
6	.2040	2-1/2"	3-3/4"	D/ACT6
7	.2010	2-7/16"	3-5/8"	D/ACT7
8	.1990	2-7/16"	3-5/8"	D/ACT8
9	.1960	2-7/16"	3-5/8"	D/ACT9
10	.1935	2-7/16"	3-5/8"	D/ACT10
11	.1910	2-5/16"	3-1/2"	D/ACT11
12	.1890	2-5/16"	3-1/2"	D/ACT12
13	.1850	2-5/16"	3-1/2"	D/ACT13
14	.1820	2-3/16"	3-3/8"	D/ACT14
15	.1800	2-3/16"	3-3/8"	D/ACT15
16	.1770	2-3/16"	3-3/8"	D/ACT16
17	.1730	2-3/16"	3-3/8"	D/ACT17
18	.1695	2-1/8"	3-1/4"	D/ACT18
19	.1660	2-1/8"	3-1/4"	D/ACT19
20	.1610	2-1/8"	3-1/4"	D/ACT20
21	.1590	2-1/8"	3-1/4"	D/ACT21
22	.1570	2"	3-1/8"	D/ACT22
23	.1540	2"	3-1/8"	D/ACT23
24	.1520	2"	3-1/8"	D/ACT24
25	.1495	1-7/8"	3"	D/ACT25
26	.1470	1-7/8"	3"	D/ACT26
27	.1440	1-7/8"	3"	D/ACT27
28	.1405	1-3/4"	2-7/8"	D/ACT28
29	.1360	1-3/4"	2-7/8"	D/ACT29
30	.1285	1-5/8"	2-3/4"	D/ACT30
31	.1200	1-5/8"	2-3/4"	D/ACT31
32	.1160	1-5/8"	2-3/4"	D/ACT32

### LETTER SIZES

D/ACT Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
A	.2340	2-5/8"	3-7/8"	D/ACTA
B	.2380	2-3/4"	4"	D/ACTB
C	.2420	2-3/4"	4"	D/ACTC
D	.2460	2-3/4"	4"	D/ACTD
E	.2500	2-3/4"	4"	D/ACTE
F	.2570	2-7/8"	4-1/8"	D/ACTF
G	.2610	2-7/8"	4-1/8"	D/ACTG
H	.2660	2-7/8"	4-1/8"	D/ACTH
I	.2720	2-7/8"	4-1/8"	D/ACTI
J	.2770	2-7/8"	4-1/8"	D/ACTJ
K	.2810	2-15/16"	4-1/4"	D/ACTK
L	.2900	2-15/16"	4-1/4"	D/ACTL
M	.2950	3-1/16"	4-3/8"	D/ACTM

D/ACT Series				
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
N	.3020	3-1/16"	4-3/8"	D/ACTN
O	.3160	3-3/16"	4-1/2"	D/ACTO
P	.3230	3-5/16"	4-5/8"	D/ACTP
Q	.3320	3-7/16"	4-3/4"	D/ACTQ
R	.3390	3-7/16"	4-3/4"	D/ACTR
S	.3480	3-1/2"	4-7/8"	D/ACTS
T	.3580	3-1/2"	4-7/8"	D/ACTT
U	.3680	3-5/8"	5"	D/ACTU
V	.3770	3-5/8"	5"	D/ACTV
W	.3860	3-3/4"	5-1/8"	D/ACTW
X	.3970	3-3/4"	5-1/8"	D/ACTX
Y	.4040	3-7/8"	5-1/4"	D/ACTY
Z	.4130	3-7/8"	5-1/4"	D/ACTZ

# HSS REDUCED SHANK DRILLS

DWDRSD Series - High Speed Steel Economy 118° Point

D/ARSD Series - High Speed Steel Premium Quality 118° Point

KFDRSD Series - Black and Gold 135° Split Point

D/ACO Series - Cobalt Premium Quality 135° Split Point

1 / 4 " S H A N K

				DWDRSD Series	D/ARSD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
17/64"	.2656	2-1/4"	3-1/2"	DWDRSD17/64	D/ARSD17/64
9/32"	.2813	2-1/4"	3-9/16"	DWDRSD9/32	D/ARSD9/32
19/64"	.2969	2-3/8"	3-11/16"	DWDRSD19/64	D/ARSD19/64
5/16"	.3125	2-1/2"	3-13/16"	DWDRSD5/16	D/ARSD5/16
21/64"	.3281	2-9/16"	3-13/16"	DWDRSD21/64	D/ARSD21/64
11/32"	.3438	2-5/8"	4"	DWDRSD11/32	D/ARSD11/32
23/64"	.3594	2-3/4"	4-1/8"	DWDRSD23/64	D/ARSD23/64
3/8"	.3750	2-7/8"	4-1/4"	DWDRSD3/8	D/ARSD3/8
25/64"	.3906	3"	4-5/16"	DWDRSD25/64	D/ARSD25/64
13/32"	.4063	3-1/8"	4-7/16"	DWDRSD13/32	D/ARSD13/32
27/64"	.4219	3-1/8"	4-9/16"	DWDRSD27/64	D/ARSD27/64
7/16"	.4375	3-3/8"	4-11/16"	DWDRSD7/16	D/ARSD7/16
29/64"	.4531	3-3/8"	4-3/4"	DWDRSD29/64	D/ARSD29/64
15/32"	.4688	3-1/2"	4-7/8"	DWDRSD15/32	D/ARSD15/32
31/64"	.4844	3-1/2"	5"	DWDRSD31/64	D/ARSD31/64
1/2"	.5000	3-5/8"	5-1/16"	DWDRSD1/2	D/ARSD1/2



3 / 8 " S H A N K

3 " F L U T E L E N G T H 6 " O . A . L .



	DWDRSD Series	D/ARSD Series	KFDRSD Series	D/ACO Series
Size	Part Number	Part Number	Part Number	Part Number
25/64"	DWDRSD3/8X25/64	D/ARSD3/8X25/64	KFDRSD3/8X25/64	D/ACO3/8X25/64
13/32"	DWDRSD3/8X13/32	D/ARSD3/8X13/32	KFDRSD3/8X13/32	D/ACO3/8X13/32
27/64"	DWDRSD3/8X27/64	D/ARSD3/8X27/64	KFDRSD3/8X27/64	D/ACO3/8X27/64
7/16"	DWDRSD3/8X7/16	D/ARSD3/8X7/16	KFDRSD3/8X7/16	D/ACO3/8X7/16
29/64"	DWDRSD3/8X29/64	D/ARSD3/8X29/64	KFDRSD3/8X29/64	D/ACO3/8X29/64
15/32"	DWDRSD3/8X15/32	D/ARSD3/8X15/32	KFDRSD3/8X15/32	D/ACO3/8X15/32
31/64"	DWDRSD3/8X31/64	D/ARSD3/8X31/64	KFDRSD3/8X31/64	D/ACO3/8X31/64
1/2"	DWDRSD3/8X1/2	D/ARSD3/8X1/2	KFDRSD3/8X1/2	D/ACO3/8X1/2
33/64"	DWDRSD3/8X33/64	D/ARSD3/8X33/64	KFDRSD3/8X33/64	D/ACO3/8X33/64
17/32"	DWDRSD3/8X17/32	D/ARSD3/8X17/32	KFDRSD3/8X17/32	D/ACO3/8X17/32
35/64"	DWDRSD3/8X35/64	D/ARSD3/8X35/64	KFDRSD3/8X35/64	D/ACO3/8X35/64
9/16"	DWDRSD3/8X9/16	D/ARSD3/8X9/16	KFDRSD3/8X9/16	D/ACO3/8X9/16
37/64"	DWDRSD3/8X37/64	D/ARSD3/8X37/64	KFDRSD3/8X37/64	D/ACO3/8X37/64
19/32"	DWDRSD3/8X19/32	D/ARSD3/8X19/32	KFDRSD3/8X19/32	D/ACO3/8X19/32
39/64"	DWDRSD3/8X39/64	D/ARSD3/8X39/64	KFDRSD3/8X39/64	D/ACO3/8X39/64
5/8"	DWDRSD3/8X5/8	D/ARSD3/8X5/8	KFDRSD3/8X5/8	D/ACO3/8X5/8
41/64"	DWDRSD3/8X41/64	D/ARSD3/8X41/64	KFDRSD3/8X41/64	D/ACO3/8X41/64
21/32"	DWDRSD3/8X21/32	D/ARSD3/8X21/32	KFDRSD3/8X21/32	D/ACO3/8X21/32
43/64"	DWDRSD3/8X43/64	D/ARSD3/8X43/64	KFDRSD3/8X43/64	D/ACO3/8X43/64
11/16"	DWDRSD3/8X11/16	D/ARSD3/8X11/16	KFDRSD3/8X11/16	D/ACO3/8X11/16
45/64"	DWDRSD3/8X45/64	D/ARSD3/8X45/64	KFDRSD3/8X45/64	D/ACO3/8X45/64
23/32"	DWDRSD3/8X23/32	D/ARSD3/8X23/32	KFDRSD3/8X23/32	D/ACO3/8X23/32
47/64"	DWDRSD3/8X47/64	D/ARSD3/8X47/64	KFDRSD3/8X47/64	D/ACO3/8X47/64
3/4"	DWDRSD3/8X3/4	D/ARSD3/8X3/4	KFDRSD3/8X3/4	D/ACO3/8X3/4



# HSS REDUCED SHANK DRILLS

1 / 2 " S H A N K

				DWDRSD Series	D/ARSD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
33/64"	.5156	3"	6"	DWDRSD33/64	D/ARSD33/64
17/32"	.5313	3"	6"	DWDRSD17/32	D/ARSD17/32
35/64"	.5469	3"	6"	DWDRSD35/64	D/ARSD35/64
9/16"	.5625	3"	6"	DWDRSD9/16	D/ARSD9/16
37/64"	.5781	3"	6"	DWDRSD37/64	D/ARSD37/64
19/32"	.5938	3"	6"	DWDRSD19/32	D/ARSD19/32
39/64"	.6094	3"	6"	DWDRSD39/64	D/ARSD39/64
5/8"	.6250	3"	6"	DWDRSD5/8	D/ARSD5/8
41/64"	.6406	3"	6"	DWDRSD41/64	D/ARSD41/64
21/32"	.6563	3"	6"	DWDRSD21/32	D/ARSD21/32
43/64"	.6719	3"	6"	DWDRSD43/64	D/ARSD43/64
11/16"	.6875	3"	6"	DWDRSD11/16	D/ARSD11/16
45/64"	.7031	3"	6"	DWDRSD45/64	D/ARSD45/64
23/32"	.7188	3"	6"	DWDRSD23/32	D/ARSD23/32
47/64"	.7344	3"	6"	DWDRSD47/64	D/ARSD47/64
3/4"	.7500	3"	6"	DWDRSD3/4	D/ARSD3/4
49/64"	.7656	3"	6"	DWDRSD49/64	D/ARSD49/64
25/32"	.7813	3"	6"	DWDRSD25/32	D/ARSD25/32
51/64"	.7969	3"	6"	DWDRSD51/64	D/ARSD51/64
13/16"	.8125	3"	6"	DWDRSD13/16	D/ARSD13/16
53/64"	.8281	3"	6"	DWDRSD53/64	D/ARSD53/64
27/32"	.8438	3"	6"	DWDRSD27/32	D/ARSD27/32
55/64"	.8594	3"	6"	DWDRSD55/64	D/ARSD55/64
7/8"	.8750	3"	6"	DWDRSD7/8	D/ARSD7/8
57/64"	.8906	3"	6"	DWDRSD57/64	D/ARSD57/64
29/32"	.9063	3"	6"	DWDRSD29/32	D/ARSD29/32
59/64"	.9219	3"	6"	DWDRSD59/64	D/ARSD59/64
15/16"	.9375	3"	6"	DWDRSD15/16	D/ARSD15/16
61/64"	.9531	3"	6"	DWDRSD61/64	D/ARSD61/64
31/32"	.9688	3"	6"	DWDRSD31/32	D/ARSD31/32
63/64"	.9844	3"	6"	DWDRSD63/64	D/ARSD63/64
1"	1.0000	3"	6"	DWDRSD1	D/ARSD1
1-1/64"	1.0156	3"	6"	DWDRSD1-1/64	D/ARSD1-1/64
1-1/32"	1.0313	3"	6"	DWDRSD1-1/32	D/ARSD1-1/32
1-3/64"	1.0469	3"	6"	DWDRSD1-3/64	D/ARSD1-3/64
1-1/16"	1.0625	3"	6"	DWDRSD1-1/16	D/ARSD1-1/16
1-5/64"	1.0781	3"	6"	DWDRSD1-5/64	D/ARSD1-5/64
1-3/32"	1.0938	3"	6"	DWDRSD1-3/32	D/ARSD1-3/32
1-7/64"	1.1094	3"	6"	DWDRSD1-7/64	D/ARSD1-7/64
1-1/8"	1.1250	3"	6"	DWDRSD1-1/8	D/ARSD1-1/8
1-9/64"	1.1406	3"	6"	DWDRSD1-9/64	D/ARSD1-9/64
1-5/32"	1.1563	3"	6"	DWDRSD1-5/32	D/ARSD1-5/32
1-11/64"	1.1719	3"	6"	DWDRSD1-11/64	D/ARSD1-11/64
1-3/16"	1.1875	3"	6"	DWDRSD1-3/16	D/ARSD1-3/16
1-13/64"	1.2031	3"	6"	DWDRSD1-13/64	D/ARSD1-13/64
1-7/32"	1.2188	3"	6"	DWDRSD1-7/32	D/ARSD1-7/32
1-15/64"	1.2344	3"	6"	DWDRSD1-15/64	D/ARSD1-15/64
1-1/4"	1.2500	3"	6"	DWDRSD1-1/4	D/ARSD1-1/4
1-17/64"	1.2656	3"	6"	DWDRSD1-17/64	D/ARSD1-17/64
1-9/32"	1.2813	3"	6"	DWDRSD1-9/32	D/ARSD1-9/32
1-19/64"	1.2969	3"	6"	DWDRSD1-19/64	D/ARSD1-19/64
1-5/16"	1.3125	3"	6"	DWDRSD1-5/16	D/ARSD1-5/16
1-21/64"	1.3281	3"	6"	DWDRSD1-21/64	D/ARSD1-21/64
1-11/32"	1.3438	3"	6"	DWDRSD1-11/32	D/ARSD1-11/32
1-23/64"	1.3594	3"	6"	DWDRSD1-23/64	D/ARSD1-23/64
1-3/8"	1.3750	3"	6"	DWDRSD1-3/8	D/ARSD1-3/8
1-25/64"	1.3906	3"	6"	DWDRSD1-25/64	D/ARSD1-25/64
1-13/32"	1.4063	3"	6"	DWDRSD1-13/32	D/ARSD1-13/32
1-27/64"	1.4219	3"	6"	DWDRSD1-27/64	D/ARSD1-27/64
1-7/16"	1.4375	3"	6"	DWDRSD1-7/16	D/ARSD1-7/16
1-29/64"	1.4531	3"	6"	DWDRSD1-29/64	D/ARSD1-29/64
1-15/32"	1.4688	3"	6"	DWDRSD1-15/32	D/ARSD1-15/32
1-31/64"	1.4844	3"	6"	DWDRSD1-31/64	D/ARSD1-31/64
1-1/2"	1.5000	3"	6"	DWDRSD1-1/2	D/ARSD1-1/2



# METRIC REDUCED SHK DRILLS

				DWDRSD Series	D/AMMCO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
12.5	.4921	3"	6"	DWDRSD12.5MM	-
13.0	.5118	3"	6"	DWDRSD13.0MM	-
13.5	.5315	3"	6"	DWDRSD13.5MM	D/AMMCO13.50
14.0	.5512	3"	6"	DWDRSD14.0MM	D/AMMCO14.00
14.5	.5709	3"	6"	DWDRSD14.5MM	D/AMMCO14.50
15.0	.5906	3"	6"	DWDRSD15.0MM	D/AMMCO15.00
15.5	.6102	3"	6"	DWDRSD15.5MM	D/AMMCO15.50
16.0	.6299	3"	6"	DWDRSD16.0MM	D/AMMCO16.00
16.5	.6496	3"	6"	DWDRSD16.5MM	D/AMMCO16.50
17.0	.6693	3"	6"	DWDRSD17.0MM	D/AMMCO17.00
17.5	.6890	3"	6"	DWDRSD17.5MM	D/AMMCO17.50
18.0	.7087	3"	6"	DWDRSD18.0MM	D/AMMCO18.00
18.5	.7283	3"	6"	DWDRSD18.5MM	D/AMMCO18.50
19.0	.7480	3"	6"	DWDRSD19.0MM	D/AMMCO19.00
19.5	.7677	3"	6"	DWDRSD19.5MM	D/AMMCO19.50
20.0	.7874	3"	6"	DWDRSD20.0MM	D/AMMCO20.00
20.5	.8071	3"	6"	DWDRSD20.5MM	D/AMMCO20.50
21.0	.8268	3"	6"	DWDRSD21.0MM	D/AMMCO21.00
21.5	.8465	3"	6"	DWDRSD21.5MM	D/AMMCO21.50
22.0	.8661	3"	6"	DWDRSD22.0MM	D/AMMCO22.00
22.5	.8858	3"	6"	DWDRSD22.5MM	D/AMMCO22.50
23.0	.9055	3"	6"	DWDRSD23.0MM	D/AMMCO23.00
23.5	.9252	3"	6"	DWDRSD23.5MM	D/AMMCO23.50
24.0	.9449	3"	6"	DWDRSD24.0MM	D/AMMCO24.00
24.5	.9646	3"	6"	DWDRSD24.5MM	D/AMMCO24.50
25.0	.9843	3"	6"	DWDRSD25.0MM	D/AMMCO25.00
25.5	1.0039	3"	6"	DWDRSD25.5MM	
26.0	1.0236	3"	6"	DWDRSD26.0MM	
26.5	1.0433	3"	6"	DWDRSD26.5MM	
27.0	1.0630	3"	6"	DWDRSD27.0MM	
27.5	1.0827	3"	6"	DWDRSD27.5MM	
28.0	1.1024	3"	6"	DWDRSD28.0MM	
28.5	1.1220	3"	6"	DWDRSD28.5MM	
29.0	1.1417	3"	6"	DWDRSD29.0MM	
29.5	1.1614	3"	6"	DWDRSD29.5MM	
30.0	1.1811	3"	6"	DWDRSD30.0MM	
31.0	1.2205	3"	6"	DWDRSD31.0MM	
32.0	1.2598	3"	6"	DWDRSD32.0MM	
33.0	1.2992	3"	6"	DWDRSD33.0MM	
34.0	1.3386	3"	6"	DWDRSD34.0MM	
35.0	1.3780	3"	6"	DWDRSD35.0MM	
36.0	1.4173	3"	6"	DWDRSD36.0MM	
37.0	1.4567	3"	6"	DWDRSD37.0MM	

1 / 2 " S H A N K M E T R I C



3 / 4 " S H A N K

				DWDRSD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1"	1.0000	3"	6"	DWDRSD34X1
1-1/32"	1.0313	3"	6"	DWDRSD34X1-1/32
1-1/16"	1.0625	3"	6"	DWDRSD34X1-1/16
1-3/32"	1.0938	3"	6"	DWDRSD34X1-3/32
1-1/8"	1.1250	3"	6"	DWDRSD34X1-1/8
1-5/32"	1.1563	3"	6"	DWDRSD34X1-5/32
1-3/16"	1.1875	3"	6"	DWDRSD34X1-3/16
1-7/32"	1.2188	3"	6"	DWDRSD34X1-7/32
1-1/4"	1.2500	3"	6"	DWDRSD34X1-1/4
1-9/32"	1.2813	3"	6"	DWDRSD34X1-9/32
1-5/16"	1.3125	3"	6"	DWDRSD34X1-5/16
1-11/32"	1.3438	3"	6"	DWDRSD34X1-11/32
1-23/64"	1.3594	3"	6"	DWDRSD34X1-23/64
1-3/8"	1.3750	3"	6"	DWDRSD34X1-3/8
1-13/32"	1.4063	3"	6"	DWDRSD34X1-13/32
1-7/16"	1.4375	3"	6"	DWDRSD34X1-7/16
1-15/32"	1.4688	3"	6"	DWDRSD34X1-15/32

\*Over 2" POA

				DWDRSD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1-1/2"	1.5000	3"	6"	DWDRSD34X1-1/2
1-17/32"	1.5313	3"	6"	DWDRSD34X1-17/32
1-9/16"	1.5625	3"	6"	DWDRSD34X1-9/16
1-19/32"	1.5938	3"	6"	DWDRSD34X1-19/32
1-5/8"	1.6250	3"	6"	DWDRSD34X1-5/8
1-21/32"	1.6563	3"	6"	DWDRSD34X1-21/32
1-11/16"	1.6875	3"	6"	DWDRSD34X1-11/16
1-23/32"	1.7188	3"	6"	DWDRSD34X1-23/32
1-3/4"	1.7500	3"	6"	DWDRSD34X1-3/4
1-25/32"	1.7813	3"	6"	DWDRSD34X1-25/32
1-13/16"	1.8125	3"	6"	DWDRSD34X1-13/16
1-27/32"	1.8438	3"	6"	DWDRSD34X1-27/32
1-7/8"	1.8750	3"	6"	DWDRSD34X1-7/8
1-29/32"	1.9063	3"	6"	DWDRSD34X1-29/32
1-15/16"	1.9375	3"	6"	DWDRSD34X1-15/16
1-31/32"	1.9688	3"	6"	DWDRSD34X1-31/32
2"	2.0000	3"	6"	DWDRSD34X2

# HSS 3-FLAT REDUCED SHANK DRILLS

D/A3F Series - HSS Premium Quality 118° Point with 3-Flat Shank

KFD3F Series - HSS Black/Gold Contractor Grade 135° Split Point with 3-Flat Shank

KFDRSD Series - HSS Black/Gold Premium Quality 135° Split Point with 3-Flat Shank

				D/A3F Series	KFD3F Series	KFDRSD Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
33/64"	.5156	3"	6"	D/A3F33/64	KFD3F33/64	KFDRSD33/64
17/32"	.5313	3"	6"	D/A3F17/32	KFD3F17/32	KFDRSD17/32
35/64"	.5469	3"	6"	D/A3F35/64	KFD3F35/64	KFDRSD35/64
9/16"	.5625	3"	6"	D/A3F9/16	KFD3F9/16	KFDRSD9/16
37/64"	.5781	3"	6"	D/A3F37/64	KFD3F37/64	KFDRSD37/64
19/32"	.5938	3"	6"	D/A3F19/32	KFD3F19/32	KFDRSD19/32
39/64"	.6094	3"	6"	D/A3F39/64	KFD3F39/64	KFDRSD39/64
5/8"	.6250	3"	6"	D/A3F5/8	KFD3F5/8	KFDRSD5/8
41/64"	.6406	3"	6"	D/A3F41/64	KFD3F41/64	KFDRSD41/64
21/32"	.6563	3"	6"	D/A3F21/32	KFD3F21/32	KFDRSD21/32
43/64"	.6719	3"	6"	D/A3F43/64	KFD3F43/64	KFDRSD43/64
11/16"	.6875	3"	6"	D/A3F11/16	KFD3F11/16	KFDRSD11/16
45/64"	.7031	3"	6"	D/A3F45/64	KFD3F45/64	KFDRSD45/64
23/32"	.7188	3"	6"	D/A3F23/32	KFD3F23/32	KFDRSD23/32
47/64"	.7344	3"	6"	D/A3F47/64	KFD3F47/64	KFDRSD47/64
3/4"	.7500	3"	6"	D/A3F3/4	KFD3F3/4	KFDRSD3/4
49/64"	.7656	3"	6"	D/A3F49/64	KFD3F49/64	KFDRSD49/64
25/32"	.7813	3"	6"	D/A3F25/32	KFD3F25/32	KFDRSD25/32
51/64"	.7969	3"	6"	D/A3F51/64	KFD3F51/64	KFDRSD51/64
13/16"	.8125	3"	6"	D/A3F13/16	KFD3F13/16	KFDRSD13/16
53/64"	.8281	3"	6"	D/A3F53/64	KFD3F53/64	KFDRSD53/64
27/32"	.8438	3"	6"	D/A3F27/32	KFD3F27/32	KFDRSD27/32
55/64"	.8594	3"	6"	D/A3F55/64	KFD3F55/64	KFDRSD55/64
7/8"	.8750	3"	6"	D/A3F7/8	KFD3F7/8	KFDRSD7/8
57/64"	.8906	3"	6"	D/A3F57/64	KFD3F57/64	KFDRSD57/64
29/32"	.9063	3"	6"	D/A3F29/32	KFD3F29/32	KFDRSD29/32
59/64"	.9219	3"	6"	D/A3F59/64	KFD3F59/64	KFDRSD59/64
15/16"	.9375	3"	6"	D/A3F15/16	KFD3F15/16	KFDRSD15/16
61/64"	.9531	3"	6"	D/A3F61/64	KFD3F61/64	KFDRSD61/64
31/32"	.9688	3"	6"	D/A3F31/32	KFD3F31/32	KFDRSD31/32
63/64"	.9844	3"	6"	D/A3F63/64	KFD3F63/64	KFDRSD63/64
1"	1.0000	3"	6"	D/A3F1	KFD3F1INCH	KFDRSD1
1-1/64"	1.0156	3"	6"	-	KFD3F1-1/64	-
1-1/32"	1.0313	3"	6"	D/A3F1-1/32	KFD3F1-1/32	KFDRSD1-1/32
1-3/64"	1.0469	3"	6"	-	KFD3F1-3/64	-
1-1/16"	1.0625	3"	6"	D/A3F1-1/16	KFD3F1-1/16	KFDRSD1-1/16
1-5/64"	1.0781	3"	6"	-	KFD3F1-5/64	-
1-3/32"	1.0938	3"	6"	D/A3F1-3/32	KFD3F1-3/32	KFDRSD1-3/32
1-7/64"	1.1094	3"	6"	-	KFD3F1-7/64	-
1-1/8"	1.1250	3"	6"	D/A3F1-1/8	KFD3F1-1/8	KFDRSD1-1/8
1-9/64"	1.1406	3"	6"	-	KFD3F1-9/64	-
1-5/32"	1.1563	3"	6"	D/A3F1-5/32	KFD3F1-5/32	KFDRSD1-5/32
1-11/64"	1.1719	3"	6"	-	KFD3F1-11/64	-
1-3/16"	1.1875	3"	6"	D/A3F1-3/16	KFD3F1-3/16	KFDRSD1-3/16
1-13/64"	1.2031	3"	6"	-	KFD3F1-13/64	-
1-7/32"	1.2188	3"	6"	D/A3F1-7/32	KFD3F1-7/32	KFDRSD1-7/32
1-15/64"	1.2344	3"	6"	-	KFD3F1-15/64	-
1-1/4"	1.2500	3"	6"	D/A3F1-1/4	KFD3F1-1/4	KFDRSD1-1/4
1-17/64"	1.2656	3"	6"	-	KFD3F1-17/64	-
1-9/32"	1.2813	3"	6"	-	KFD3F1-9/32	-
1-19/64"	1.2969	3"	6"	-	KFD3F1-19/64	-
1-5/16"	1.3125	3"	6"	D/A3F1-5/16	KFD3F1-5/16	KFDRSD1-5/16
1-21/64"	1.3281	3"	6"	-	KFD3F1-21/64	-
1-11/32"	1.3438	3"	6"	-	KFD3F1-11/32	-
1-23/64"	1.3594	3"	6"	-	KFD3F1-23/64	-
1-3/8"	1.3750	3"	6"	D/A3F1-3/8	KFD3F1-3/8	KFDRSD1-3/8
1-25/64"	1.3906	3"	6"	-	KFD3F1-25/64	-
1-13/32"	1.4063	3"	6"	-	KFD3F1-13/32	-
1-27/64"	1.4219	3"	6"	-	KFD3F1-27/64	-
1-7/16"	1.4375	3"	6"	D/A3F1-7/16	KFD3F1-7/16	KFDRSD1-7/16
1-29/64"	1.4531	3"	6"	-	KFD3F1-29/64	-
1-15/32"	1.4688	3"	6"	-	KFD3F1-15/32	-
1-31/64"	1.4844	3"	6"	-	KFD3F1-31/64	-
1-1/2"	1.5000	3"	6"	D/A3F1-1/2	KFD3F1-1/2	KFDRSD1-1/2

# COBALT REDUCED SHANK DRILLS

## DWDCO Series - Economy

## D/ACO Series - Premium Quality

Made of heat resistant cobalt and ground to a heavy duty 135° split point. Common flute and overall length for minimal adjustment during tool changes. Precision ground for high degree of concentricity between shank and body diameter. Ideal for drilling in tough, high tensile strength materials.



1 / 2 " S H A N K

				DWDCO Series	D/ACO Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
33/64"	.5156	3"	6"	DWDCO33/64	D/ACO33/64
17/32"	.5313	3"	6"	DWDCO17/32	D/ACO17/32
35/64"	.5469	3"	6"	DWDCO35/64	D/ACO35/64
9/16"	.5625	3"	6"	DWDCO9/16	D/ACO9/16
37/64"	.5781	3"	6"	DWDCO37/64	D/ACO37/64
19/32"	.5938	3"	6"	DWDCO19/32	D/ACO19/32
39/64"	.6094	3"	6"	DWDCO39/64	D/ACO39/64
5/8"	.6250	3"	6"	DWDCO5/8	D/ACO5/8
41/64"	.6406	3"	6"	DWDCO41/64	D/ACO41/64
21/32"	.6563	3"	6"	DWDCO21/32	D/ACO21/32
43/64"	.6719	3"	6"	DWDCO43/64	D/ACO43/64
11/16"	.6875	3"	6"	DWDCO11/16	D/ACO11/16
45/64"	.7031	3"	6"	DWDCO45/64	D/ACO45/64
23/32"	.7188	3"	6"	DWDCO23/32	D/ACO23/32
47/64"	.7344	3"	6"	DWDCO47/64	D/ACO47/64
3/4"	.7500	3"	6"	DWDCO3/4	D/ACO3/4
49/64"	.7656	3"	6"	DWDCO49/64	D/ACO49/64
25/32"	.7813	3"	6"	DWDCO25/32	D/ACO25/32
51/64"	.7969	3"	6"	DWDCO51/64	D/ACO51/64
13/16"	.8125	3"	6"	DWDCO13/16	D/ACO13/16
53/64"	.8281	3"	6"	DWDCO53/64	D/ACO53/64
27/32"	.8438	3"	6"	DWDCO27/32	D/ACO27/32
55/64"	.8594	3"	6"	DWDCO55/64	D/ACO55/64
7/8"	.8750	3"	6"	DWDCO7/8	D/ACO7/8
57/64"	.8906	3"	6"	DWDCO57/64	D/ACO57/64
29/32"	.9063	3"	6"	DWDCO29/32	D/ACO29/32
59/64"	.9219	3"	6"	DWDCO59/64	D/ACO59/64
15/16"	.9375	3"	6"	DWDCO15/16	D/ACO15/16
61/64"	.9531	3"	6"	DWDCO61/64	D/ACO61/64
31/32"	.9688	3"	6"	DWDCO31/32	D/ACO31/32
63/64"	.9844	3"	6"	DWDCO63/64	D/ACO63/64
1"	1.0000	3"	6"	DWDCO1INCH	D/ACO1INCH
1-1/16"	1.0625	3"	6"	DWDCO1-1/16	D/ACO1-1/16
1-1/8"	1.1250	3"	6"	DWDCO1-1/8	D/ACO1-1/8
1-3/16"	1.1875	3"	6"	DWDCO1-3/16	D/ACO1-3/16
1-1/4"	1.2500	3"	6"	DWDCO1-1/4	D/ACO1-1/4
1-5/16"	1.3125	3"	6"	DWDCO1-5/16	D/ACO1-5/16
1-3/8"	1.3750	3"	6"	DWDCO1-3/8	D/ACO1-3/8
1-7/16"	1.4375	3"	6"	DWDCO1-7/16	D/ACO1-7/16
1-1/2"	1.5000	3"	6"	DWDCO1-1/2	D/ACO1-1/2

# 6" AIRCRAFT EXT. DRILLS

## DWDA/C Series - HSS Economy

## D/AA/C Series - HSS Premium Quality

Manufactured to National Aerospace Standard 907. 135° split point is self-centering and reduces thrust. Ideal for drilling in mild steels where extra length for reach is required. They have a black oxide surface treatment that is abrasion resistant, reduces chip welding and improves chip flow. Sizes smaller than #52 and 1/16" have the 118° standard point.



## GLBCO Series - Cobalt

Manufactured to National Aerospace Standard 907. Made of heat resistant cobalt, the 135° split point is self-centering and reduces thrust. They are especially effective in drilling tough, high tensile strength materials like stainless steel, inconel and titanium.



### F R A C T I O N A L   S I Z E S

			DWDA/C Series	D/AA/C Series	GLBCO Series
Size	Dec. Equiv.	Flute Length	Part Number	Part Number	Part Number
*3/64"	.0469	3/4"	DWDA/CX63/64	D/AA/CX63/64	-
1/16"	.0625	7/8"	DWDA/CX61/16	D/AA/CX61/16	GLBCOX61/16
5/64"	.0781	1"	DWDA/CX65/64	D/AA/CX65/64	GLBCOX65/64
3/32"	.0938	1-1/4"	DWDA/CX63/32	D/AA/CX63/32	GLBCOX63/32
7/64"	.1094	1-1/2"	DWDA/CX67/64	D/AA/CX67/64	GLBCOX67/64
1/8"	.1250	1-5/8"	DWDA/CX61/8	D/AA/CX61/8	GLBCOX61/8
9/64"	.1406	1-3/4"	DWDA/CX69/64	D/AA/CX69/64	GLBCOX69/64
5/32"	.1563	2"	DWDA/CX65/32	D/AA/CX65/32	GLBCOX65/32
11/64"	.1719	2-1/8"	DWDA/CX611/64	D/AA/CX611/64	GLBCOX611/64
3/16"	.1875	2-5/16"	DWDA/CX63/16	D/AA/CX63/16	GLBCOX63/16
13/64"	.2031	2-7/16"	DWDA/CX613/64	D/AA/CX613/64	GLBCOX613/64
7/32"	.2188	2-1/2"	DWDA/CX67/32	D/AA/CX67/32	GLBCOX67/32
15/64"	.2344	2-5/8"	DWDA/CX615/64	D/AA/CX615/64	GLBCOX615/64
1/4"	.2500	2-3/4"	DWDA/CX61/4	D/AA/CX61/4	GLBCOX61/4
17/64"	.2656	2-7/8"	DWDA/CX617/64	D/AA/CX617/64	GLBCOX617/64
9/32"	.2813	2-15/16"	DWDA/CX69/32	D/AA/CX69/32	GLBCOX69/32
19/64"	.2969	3-1/16"	DWDA/CX619/64	D/AA/CX619/64	GLBCOX619/64
5/16"	.3125	3-3/16"	DWDA/CX65/16	D/AA/CX65/16	GLBCOX65/16
21/64"	.3281	3-5/16"	DWDA/CX621/64	D/AA/CX621/64	GLBCOX621/64
11/32"	.3438	3-7/16"	DWDA/CX611/32	D/AA/CX611/32	GLBCOX611/32
23/64"	.3594	3-1/2"	DWDA/CX623/64	D/AA/CX623/64	GLBCOX623/64
3/8"	.3750	3-5/8"	DWDA/CX63/8	D/AA/CX63/8	GLBCOX63/8
25/64"	.3906	3-3/4"	DWDA/CX625/64	D/AA/CX625/64	GLBCOX625/64
13/32"	.4063	3-7/8"	DWDA/CX613/32	D/AA/CX613/32	GLBCOX613/32
27/64"	.4219	3-15/16"	DWDA/CX627/64	D/AA/CX627/64	GLBCOX627/64
7/16"	.4375	4-1/16"	DWDA/CX67/16	D/AA/CX67/16	GLBCOX67/16
29/64"	.4531	4-3/16"	DWDA/CX629/64	D/AA/CX629/64	-
15/32"	.4688	4-5/16"	DWDA/CX615/32	D/AA/CX615/32	-
31/64"	.4844	4-3/8"	DWDA/CX631/64	D/AA/CX631/64	-
1/2"	.5000	4-1/2"	DWDA/CX61/2	D/AA/CX61/2	-

\*118° Standard Point



# 6" AIRCRAFT EXT. DRILLS

DWDA/C Series			
Size	Dec. Equiv.	Flute Length	Part Number
A	.2340	2-5/8"	DWDA/CX6A
B	.2380	2-3/4"	DWDA/CX6B
C	.2420	2-3/4"	DWDA/CX6C
D	.2460	2-3/4"	DWDA/CX6D
E	.2500	2-3/4"	DWDA/CX6E
F	.2570	2-7/8"	DWDA/CX6F
G	.2610	2-7/8"	DWDA/CX6G
H	.2660	2-7/8"	DWDA/CX6H
I	.2720	2-7/8"	DWDA/CX6I
J	.2770	2-7/8"	DWDA/CX6J
K	.2810	2-15/16"	DWDA/CX6K
L	.2900	2-15/16"	DWDA/CX6L
M	.2950	3-1/16"	DWDA/CX6M

DWDA/C Series			
Size	Dec. Equiv.	Flute Length	Part Number
N	.3020	3-1/16"	DWDA/CX6N
O	.3160	3-3/16"	DWDA/CX6O
P	.3230	3-5/16"	DWDA/CX6P
Q	.3320	3-7/16"	DWDA/CX6Q
R	.3390	3-7/16"	DWDA/CX6R
S	.3480	3-1/2"	DWDA/CX6S
T	.3580	3-1/2"	DWDA/CX6T
U	.3680	3-5/8"	DWDA/CX6U
V	.3770	3-5/8"	DWDA/CX6V
W	.3860	3-3/4"	DWDA/CX6W
X	.3970	3-3/4"	DWDA/CX6X
Y	.4040	3-7/8"	DWDA/CX6Y
Z	.4130	3-7/8"	DWDA/CX6Z

DWDA/C Series		GLBCO Series	
Size	Dec. Equiv.	Flute Length	Part Number
1	.2280	2-5/8"	DWDA/CX61
2	.2210	2-5/8"	DWDA/CX62
3	.2130	2-1/2"	DWDA/CX63
4	.2090	2-1/2"	DWDA/CX64
5	.2055	2-1/2"	DWDA/CX65
6	.2040	2-1/2"	DWDA/CX66
7	.2010	2-7/16"	DWDA/CX67
8	.1990	2-7/16"	DWDA/CX68
9	.1960	2-7/16"	DWDA/CX69
10	.1935	2-7/16"	DWDA/CX610
11	.1910	2-5/16"	DWDA/CX611
12	.1890	2-5/16"	DWDA/CX612
13	.1850	2-5/16"	DWDA/CX613
14	.1820	2-3/16"	DWDA/CX614
15	.1800	2-3/16"	DWDA/CX615
16	.1770	2-3/16"	DWDA/CX616
17	.1730	2-3/16"	DWDA/CX617
18	.1695	2-1/8"	DWDA/CX618
19	.1660	2-1/8"	DWDA/CX619
20	.1610	2-1/8"	DWDA/CX620
21	.1590	2-1/8"	DWDA/CX621
22	.1570	2"	DWDA/CX622
23	.1540	2"	DWDA/CX623
24	.1520	2"	DWDA/CX624
25	.1495	1-7/8"	DWDA/CX625
26	.1470	1-7/8"	DWDA/CX626
27	.1440	1-7/8"	DWDA/CX627
28	.1405	1-3/4"	DWDA/CX628
29	.1360	1-3/4"	DWDA/CX629
30	.1285	1-5/8"	DWDA/CX630
31	.1200	1-5/8"	DWDA/CX631
32	.1160	1-5/8"	DWDA/CX632
33	.1130	1-1/2"	DWDA/CX633
34	.1110	1-1/2"	DWDA/CX634
35	.1100	1-1/2"	DWDA/CX635
36	.1065	1-7/16"	DWDA/CX636
37	.1040	1-7/16"	DWDA/CX637
38	.1015	1-7/16"	DWDA/CX638
39	.0995	1-3/8"	DWDA/CX639
40	.0980	1-3/8"	DWDA/CX640
41	.0960	1-3/8"	DWDA/CX641
42	.0935	1-1/4"	DWDA/CX642
43	.0890	1-1/4"	DWDA/CX643

DWDA/C Series			
Size	Dec. Equiv.	Flute Length	Part Number
44	.0860	1-1/8"	DWDA/CX644
45	.0820	1-1/8"	DWDA/CX645
46	.0810	1-1/8"	DWDA/CX646
47	.0785	1"	DWDA/CX647
48	.0760	1"	DWDA/CX648
49	.0730	1"	DWDA/CX649
50	.0700	1"	DWDA/CX650
51	.0670	1"	DWDA/CX651
52	.0635	7/8"	DWDA/CX652
*53	.0595	7/8"	DWDA/CX653
*54	.0550	7/8"	DWDA/CX654
*55	.0520	7/8"	DWDA/CX655
*56	.0465	3/4"	DWDA/CX656
*57	.0430	3/4"	DWDA/CX657
*58	.0420	11/16"	DWDA/CX658
*59	.0410	11/16"	DWDA/CX659
*60	.0400	11/16"	DWDA/CX660

\*118° Standard Point

GLBCO Series			
Size	Dec. Equiv.	Flute Length	Part Number
44	.0860	1-1/8"	GLBCOX644
45	.0820	1-1/8"	GLBCOX645
46	.0810	1-1/8"	GLBCOX646
47	.0785	1"	GLBCOX647
48	.0760	1"	GLBCOX648
49	.0730	1"	GLBCOX649
50	.0700	1"	GLBCOX650
51	.0670	1"	GLBCOX651
52	.0635	7/8"	GLBCOX652

# 12" AIRCRAFT EXT. DRILLS



## F R A C T I O N A L S I Z E S

			DWDA/C Series	D/AA/C Series	GLBCO Series
Size	Dec. Equiv.	Flute Length	Part Number	Part Number	Part Number
1/16"	.0625	7/8"	DWDA/CX121/16	D/AA/CX121/16	GLBCOX121/16
5/64"	.0781	1"	DWDA/CX125/64	D/AA/CX125/64	GLBCOX125/64
3/32"	.0938	1-1/4"	DWDA/CX123/32	D/AA/CX123/32	GLBCOX123/32
7/64"	.1094	1-1/2"	DWDA/CX127/64	D/AA/CX127/64	GLBCOX127/64
1/8"	.1250	1-5/8"	DWDA/CX121/8	D/AA/CX121/8	GLBCOX121/8
9/64"	.1406	1-3/4"	DWDA/CX129/64	D/AA/CX129/64	GLBCOX129/64
5/32"	.1563	2"	DWDA/CX125/32	D/AA/CX125/32	GLBCOX125/32
11/64"	.1719	2-1/8"	DWDA/CX1211/64	D/AA/CX1211/64	GLBCOX1211/64
3/16"	.1875	2-5/16"	DWDA/CX123/16	D/AA/CX123/16	GLBCOX123/16
13/64"	.2031	2-7/16"	DWDA/CX1213/64	D/AA/CX1213/64	GLBCOX1213/64
7/32"	.2188	2-1/2"	DWDA/CX127/32	D/AA/CX127/32	GLBCOX127/32
15/64"	.2344	2-5/8"	DWDA/CX1215/64	D/AA/CX1215/64	GLBCOX1215/64
1/4"	.2500	2-3/4"	DWDA/CX121/4	D/AA/CX121/4	GLBCOX121/4
17/64"	.2656	2-7/8"	DWDA/CX1217/64	D/AA/CX1217/64	GLBCOX1217/64
9/32"	.2813	2-15/16"	DWDA/CX129/32	D/AA/CX129/32	GLBCOX129/32
19/64"	.2969	3-1/16"	DWDA/CX1219/64	D/AA/CX1219/64	GLBCOX1219/64
5/16"	.3125	3-3/16"	DWDA/CX125/16	D/AA/CX125/16	GLBCOX125/16
21/64"	.3281	3-5/16"	DWDA/CX1221/64	D/AA/CX1221/64	GLBCOX1221/64
11/32"	.3438	3-7/16"	DWDA/CX1211/32	D/AA/CX1211/32	GLBCOX1211/32
23/64"	.3594	3-1/2"	DWDA/CX1223/64	D/AA/CX1223/64	GLBCOX1223/64
3/8"	.3750	3-5/8"	DWDA/CX123/8	D/AA/CX123/8	GLBCOX123/8
25/64"	.3906	3-3/4"	DWDA/CX1225/64	D/AA/CX1225/64	GLBCOX1225/64
13/32"	.4063	3-7/8"	DWDA/CX1213/32	D/AA/CX1213/32	GLBCOX1213/32
27/64"	.4219	3-15/16"	DWDA/CX1227/64	D/AA/CX1227/64	GLBCOX1227/64
7/16"	.4375	4-1/16"	DWDA/CX127/16	D/AA/CX127/16	GLBCOX127/16
29/64"	.4531	4-3/16"	DWDA/CX1229/64	D/AA/CX1229/64	GLBCOX1229/64
15/32"	.4688	4-5/16"	DWDA/CX1215/32	D/AA/CX1215/32	GLBCOX1215/32
31/64"	.4844	4-3/8"	DWDA/CX1231/64	D/AA/CX1231/64	GLBCOX1231/64
1/2"	.5000	4-1/2"	DWDA/CX121/2	D/AA/CX121/2	GLBCOX121/2



## L E T T E R S I Z E S

DWDA/C Series			
Size	Dec. Equiv.	Flute Length	Part Number
A	.2340	2-5/8"	DWDA/CX12A
B	.2380	2-3/4"	DWDA/CX12B
C	.2420	2-3/4"	DWDA/CX12C
D	.2460	2-3/4"	DWDA/CX12D
E	.2500	2-3/4"	DWDA/CX12E
F	.2570	2-7/8"	DWDA/CX12F
G	.2610	2-7/8"	DWDA/CX12G
H	.2660	2-7/8"	DWDA/CX12H
I	.2720	2-7/8"	DWDA/CX12I
J	.2770	2-7/8"	DWDA/CX12J
K	.2810	2-15/16"	DWDA/CX12K
L	.2900	2-15/16"	DWDA/CX12L
M	.2950	3-1/16"	DWDA/CX12M

DWDA/C Series			
Size	Dec. Equiv.	Flute Length	Part Number
N	.3020	3-1/16"	DWDA/CX12N
O	.3160	3-3/16"	DWDA/CX12O
P	.3230	3-5/16"	DWDA/CX12P
Q	.3320	3-7/16"	DWDA/CX12Q
R	.3390	3-7/16"	DWDA/CX12R
S	.3480	3-1/2"	DWDA/CX12S
T	.3580	3-1/2"	DWDA/CX12T
U	.3680	3-5/8"	DWDA/CX12U
V	.3770	3-5/8"	DWDA/CX12V
W	.3860	3-3/4"	DWDA/CX12W
X	.3970	3-3/4"	DWDA/CX12X
Y	.4040	3-7/8"	DWDA/CX12Y
Z	.4130	3-7/8"	DWDA/CX12Z

# 12" AIRCRAFT EXT. DRILLS

## WIRE GAUGE SIZES

			DWDA/C Series	GLBCO Series
Size	Dec. Equiv.	Flute Length	Part Number	Part Number
1	.2280	2-5/8"	DWDA/CX121	GLBCOX121
2	.2210	2-5/8"	DWDA/CX122	GLBCOX122
3	.2130	2-1/2"	DWDA/CX123	GLBCOX123
4	.2090	2-1/2"	DWDA/CX124	GLBCOX124
5	.2055	2-1/2"	DWDA/CX125	GLBCOX125
6	.2040	2-1/2"	DWDA/CX126	GLBCOX126
7	.2010	2-7/16"	DWDA/CX127	GLBCOX127
8	.1990	2-7/16"	DWDA/CX128	GLBCOX128
9	.1960	2-7/16"	DWDA/CX129	GLBCOX129
10	.1935	2-7/16"	DWDA/CX1210	GLBCOX1210
11	.1910	2-5/16"	DWDA/CX1211	GLBCOX1211
12	.1890	2-5/16"	DWDA/CX1212	GLBCOX1212
13	.1850	2-5/16"	DWDA/CX1213	GLBCOX1213
14	.1820	2-3/16"	DWDA/CX1214	GLBCOX1214
15	.1800	2-3/16"	DWDA/CX1215	GLBCOX1215
16	.1770	2-3/16"	DWDA/CX1216	GLBCOX1216
17	.1730	2-3/16"	DWDA/CX1217	GLBCOX1217
18	.1695	2-1/8"	DWDA/CX1218	GLBCOX1218
19	.1660	2-1/8"	DWDA/CX1219	GLBCOX1219
20	.1610	2-1/8"	DWDA/CX1220	GLBCOX1220
21	.1590	2-1/8"	DWDA/CX1221	GLBCOX1221
22	.1570	2"	DWDA/CX1222	GLBCOX1222
23	.1540	2"	DWDA/CX1223	GLBCOX1223
24	.1520	2"	DWDA/CX1224	GLBCOX1224
25	.1495	1-7/8"	DWDA/CX1225	GLBCOX1225
26	.1470	1-7/8"	DWDA/CX1226	GLBCOX1226
27	.1440	1-7/8"	DWDA/CX1227	GLBCOX1227
28	.1405	1-3/4"	DWDA/CX1228	GLBCOX1228
29	.1360	1-3/4"	DWDA/CX1229	GLBCOX1229
30	.1285	1-5/8"	DWDA/CX1230	GLBCOX1230
31	.1200	1-5/8"	DWDA/CX1231	GLBCOX1231
32	.1160	1-5/8"	DWDA/CX1232	GLBCOX1232
33	.1130	1-1/2"	DWDA/CX1233	GLBCOX1233
34	.1110	1-1/2"	DWDA/CX1234	GLBCOX1234
35	.1100	1-1/2"	DWDA/CX1235	GLBCOX1235
36	.1065	1-7/16"	DWDA/CX1236	GLBCOX1236
37	.1040	1-7/16"	DWDA/CX1237	GLBCOX1237
38	.1015	1-7/16"	DWDA/CX1238	GLBCOX1238
39	.0995	1-3/8"	DWDA/CX1239	GLBCOX1239
40	.0980	1-3/8"	DWDA/CX1240	GLBCOX1240
41	.0960	1-3/8"	DWDA/CX1241	GLBCOX1241
42	.0935	1-1/4"	DWDA/CX1242	GLBCOX1242
43	.0890	1-1/4"	DWDA/CX1243	GLBCOX1243
44	.0860	1-1/8"	DWDA/CX1244	GLBCOX1244
45	.0820	1-1/8"	DWDA/CX1245	GLBCOX1245
46	.0810	1-1/8"	DWDA/CX1246	GLBCOX1246
47	.0785	1"	DWDA/CX1247	GLBCOX1247
48	.0760	1"	DWDA/CX1248	GLBCOX1248
49	.0730	1"	DWDA/CX1249	GLBCOX1249
50	.0700	1"	DWDA/CX1250	GLBCOX1250
51	.0670	1"	DWDA/CX1251	GLBCOX1251
52	.0635	7/8"	DWDA/CX1252	GLBCOX1252
*53	.0595	7/8"	DWDA/CX1253	-
*54	.0550	7/8"	DWDA/CX1254	-
*55	.0520	7/8"	DWDA/CX1255	-
*56	.0465	3/4"	DWDA/CX1256	-
*57	.0430	3/4"	DWDA/CX1257	-
*58	.0420	11/16"	DWDA/CX1258	-
*59	.0410	11/16"	DWDA/CX1259	-
*60	.0400	11/16"	DWDA/CX1260	-



\*118° Standard Point

# CARBIDE TIPPED MASONRY DRILLS

## DAM Series - Masonry Drills

Engineered with wide flutes to provide fast dust removal in softer materials. Designed for drilling in brick, concrete and sandstone. Carbide tips brazed to tough steel bodies and are larger than the nominal drill size to provide clearance for installation of anchor screws, expansion shields and toggle bolts. Designed for use in portable electric drills.

\*Set includes five sizes: 3/16" x 6", 1/4" x 6", 5/16" x 6", 3/8" x 6" and 1/2" x 6".



### DAM Series

Size	Dec. Equiv.	Shank	O.A.L.	Part Number
1/8"	.1250	1/8"	3"	DAM3X1/8
3/16"	.1875	3/16"	4"	DAM4X3/16
3/16"	.1875	3/16"	6"	DAM6X3/16
7/32"	.2188	7/32"	4"	DAM4X7/32
1/4"	.2500	1/4"	4"	DAM4X1/4
1/4"	.2500	1/4"	6"	DAM6X1/4
1/4"	.2500	1/4"	13"	DAM13X1/4
1/4"	.2500	1/4"	18"	DAM18X1/4
1/4"	.2500	1/4"	24"	DAM24X1/4
1/4"	.2500	1/4"	30"	DAM30X1/4
5/16"	.3125	1/4"	4"	DAM4X5/16
5/16"	.3125	1/4"	6"	DAM6X5/16
5/16"	.3125	1/4"	13"	DAM13X5/16
5/16"	.3125	1/4"	18"	DAM18X5/16
5/16"	.3125	1/4"	24"	DAM24X5/16
5/16"	.3125	1/4"	30"	DAM30X5/16
3/8"	.3750	3/8"	4"	DAM4X3/8
3/8"	.3750	1/4"	6"	DAM6X3/8X1/4
3/8"	.3750	3/8"	6"	DAM6X3/8X3/8
3/8"	.3750	3/8"	13"	DAM13X3/8X3/8
3/8"	.3750	3/8"	18"	DAM18X3/8
3/8"	.3750	3/8"	24"	DAM24X3/8
3/8"	.3750	3/8"	30"	DAM30X3/8
7/16"	.4375	1/4"	4"	DAM4X7/16
7/16"	.4375	1/4"	6"	DAM6X7/16X1/4
7/16"	.4375	3/8"	6"	DAM6X7/16X3/8
7/16"	.4375	3/8"	13"	DAM13X7/16X3/8
7/16"	.4375	3/8"	18"	DAM18X7/16
1/2"	.5000	3/8"	4"	DAM4X1/2
1/2"	.5000	1/4"	6"	DAM6X1/2X1/4
1/2"	.5000	3/8"	6"	DAM6X1/2X3/8
1/2"	.5000	3/8"	13"	DAM13X1/2X3/8
1/2"	.5000	3/8"	18"	DAM18X1/2
1/2"	.5000	3/8"	24"	DAM24X1/2
1/2"	.5000	3/8"	30"	DAM30X1/2
9/16"	.5625	3/8"	6"	DAM6X9/16X3/8
9/16"	.5625	1/2"	6"	DAM6X9/16X1/2
9/16"	.5625	3/8"	13"	DAM13X9/16X3/8
9/16"	.5625	1/2"	13"	DAM13X9/16X1/2
9/16"	.5625	1/2"	18"	DAM18X9/16
5/8"	.6250	1/4"	4"	DAM4X5/8
5/8"	.6250	3/8"	6"	DAM6X5/8X3/8
5/8"	.6250	1/2"	6"	DAM6X5/8X1/2
5/8"	.6250	1/2"	13"	DAM13X5/8X1/2
5/8"	.6250	1/2"	18"	DAM18X5/8
5/8"	.6250	1/2"	24"	DAM24X5/8
11/16"	.6875	1/2"	6"	DAM6X11/16
3/4"	.7500	1/2"	6"	DAM6X3/4
3/4"	.7500	1/2"	13"	DAM13X3/4
3/4"	.7500	1/2"	18"	DAM18X3/4
3/4"	.7500	1/2"	24"	DAM24X3/4
7/8"	.8750	1/2"	6"	DAM6X7/8
7/8"	.8750	1/2"	13"	DAM13X7/8
7/8"	.8750	1/2"	18"	DAM18X7/8
1"	1.0000	1/2"	6"	DAM6X1
1"	1.0000	1/2"	13"	DAM13X1
1"	1.0000	1/2"	18"	DAM18X1
*Set	-	-	6"	DAMSET

# SDS DRILLS

## SDS Series

SDS Plus shank hammer bits are especially suited for drilling in stone or concrete. Premium SDS Drill Bits are auto-weld manufactured on first-class German and Swiss equipment with a Japanese-manufactured carbide-tip. \*Set includes five sizes: 3/16" x 6", 1/4" x 4", 1/4" x 6", 3/8" x 6" and 1/2" x 6".



			SDS Series
Size	Flute Length	O.A.L.	Part Number
5/32"	3-3/4"	6"	SDS5326
3/16"	1-3/4"	4"	SDS3164
3/16"	3-3/4"	6"	SDS3166
3/16"	5-1/2"	8"	SDS3168
3/16"	6-1/2"	10"	SDS31610
3/16"	9"	12"	SDS31612
7/32"	3-3/4"	6"	SDS7326
7/32"	5-1/2"	8"	SDS7328
1/4"	1-3/4"	4"	SDS144
1/4"	3-3/4"	6"	SDS146
1/4"	5-1/2"	8"	SDS148
1/4"	9"	12"	SDS1412
5/16"	3-3/4"	6"	SDS5166
5/16"	9"	12"	SDS51612
3/8"	3-3/4"	6"	SDS386
3/8"	5-1/2"	8"	SDS388
3/8"	9"	12"	SDS3812
3/8"	14"	18"	SDS3818
7/16"	3-3/4"	6"	SDS7166
1/2"	3-3/4"	6"	SDS126
1/2"	9"	12"	SDS1212
1/2"	14"	18"	SDS1218
9/16"	3-3/4"	6"	SDS9166
5/8"	5-1/2"	8"	SDS588
5/8"	9"	12"	SDS5812
5/8"	14"	18"	SDS5818
3/4"	5-1/2"	8"	SDS348
3/4"	9"	12"	SDS3412
3/4"	14"	18"	SDS3418
7/8"	6-1/2"	10"	SDS7810
7/8"	14"	18"	SDS7818
1"	6-1/2"	10"	SDS110
1"	14"	18"	SDS118
*Set	-	-	SDSSET





# CONCRETE SCREW ANCHOR DRILLS

## DAM Series - DAM Tapcon Drills

Screw anchor bits insure precise drilling of pilot holes when installing Tapcon anchors.

### Regular Shank

DAM Series			
Size	Flute Length	O.A.L.	Part Number
5/32"	2"	3-1/2"	DAM532312
5/32"	3"	4-1/2"	DAM532412
5/32"	3-1/2"	5-1/2"	DAM532512
5/32"	4"	6-1/2"	DAM532612
5/32"	4-1/2"	7-1/2"	DAM532712
3/16"	2"	3-1/2"	DAM316312
3/16"	3"	4-1/2"	DAM316412
3/16"	3- 1/2"	5-1/2"	DAM316512
3/16"	4"	6-1/2"	DAM316612
3/16"	4"	7-1/2"	DAM316712



## SDS Series - SDS Tapcon Drills

SDS Shank screw anchor bits allow for drilling pilot holes when installing Tapcon anchors using an SDS hammer drill.

### SDS Shank

SDS Series			
Size	Flute Length	O.A.L.	Part Number
5/32"	2-1/2"	5-1/2"	SDS532512TAPCON
5/32"	4"	7"	SDS5327TAPCON
3/16"	2-1/2"	5-1/2"	SDS316512TAPCON
3/16"	4"	7"	SDS3167TAPCON



# GLASS & TILE DRILLS

## DWDGD Series - Round Shank Glass & Tile Drills

Provide smooth, accurate drilling in ceramic tile, marble, china, and glass

### DWDGD Series

Size	O.A.L.	Part Number
1/8"	2-1/2"	DWDGD1/8
3/16"	2-1/2"	DWDGD3/16
1/4"	2-1/2"	DWDGD1/4
5/16"	2-1/2"	DWDGD5/16
3/8"	3"	DWDGD3/8
1/2"	3"	DWDGD1/2
5 Pc Set		DWDGD-SET



## DWDGDHEX Series - Hex Shank Glass & Tile Drills

Provide smooth, accurate drilling in ceramic tile, marble, china, and glass. Quick change hex shank can be used in quick change impact drivers.

### DWDGDHEX Series

Size	O.A.L.	Part Number
1/8"	2-1/2"	DWDGD1/8HEX
3/16"	2-1/2"	DWDGD3/16HEX
1/4"	2-1/2"	DWDGD1/4HEX
5/16"	2-1/2"	DWDGD5/16HEX
3/8"	3"	DWDGD3/8HEX
1/2"	3"	DWDGD1/2HEX



## DWD4FGD Series - 4-Flute Glass & Tile Drills

4 flute carbide tipped glass and tile drill bits improve speed, longevity and accuracy compared to standard spear-tipped glass and tile drills. They have a tungsten carbide tip suitable for drilling glass, mirrors and very hard ceramic tile.

### DWD4FGD Series

Size	O.A.L.	Part Number
1/8"	2-1/2"	DWD4FGD1/8
3/16"	2-1/2"	DWD4FGD3/16
1/4"	2-1/2"	DWD4FGD1/4
5/16"	2-1/2"	DWD4FGD5/16
3/8"	3"	DWD4FGD3/8
1/2"	3"	DWD4FGD1/2
5 Pc Set		DWD4FGD-SET



## DWD4FGD Hex Series - 4-Flute Glass & Tile Drills with Quick Change Hex Shank

4 flute carbide tipped glass and tile drill bits improve speed, longevity and accuracy compared to standard spear-tipped glass and tile drills. They have a tungsten carbide tip suitable for drilling glass, mirrors and very hard ceramic tile. Quick change hex shank can be used in quick change impact drivers.

### DWD4FGDHEX Series

Size	O.A.L.	Part Number
1/8"	2-1/2"	DWD4FGD1/8HEX
3/16"	2-1/2"	DWD4FGD3/16HEX
1/4"	2-1/2"	DWD4FGD1/4HEX
5/16"	2-1/2"	DWD4FGD5/16HEX
3/8"	3"	DWD4FGD3/8HEX
1/2"	3"	DWD4FGD1/2HEX



# STEP DRILLS

## STE Series - Step Drills

### STEHX Series - Step Drills

Step Drills are commonly used on sheet metal and general construction. These black and gold surface treated bits can be used for drilling a wide range of hole sizes in metal, plastic and wood. They have a round shank for use in a wide range of tool holding systems and are packaged individually in hanging clamshell packaging. STEHXX Series have a 1/4" quick change hex shank.



# of Steps	Range	STE Series		STEHX Series	
		Item Code	Item Code	Item Code	Item Code
13	1/8" - 1/2" x 32nds	STE1		STE1HEX	
6	3/16" - 1/2" x 16ths	STE2		STE2HEX	
9	1/4" - 3/4" x 16ths	STE3		STE3HEX	
12	3/16" - 7/8" x 16ths	STE4		STE4HEX	
12	1/4" - 1-3/8" x 8ths	STE5		STE5HEX	
	3 Piece Set #1, 2 & 3	STE1-3SET		STE1-3HEX-SET	
	5 Piece Set #1, 2, 3, 4 & 5	STE1-5SET		STE1-5HEX-SET	

## VAC Series - Step Drills

### VACHEX Series - Step Drills

Step Drills are commonly used on sheet metal and general construction. They have a bright finish and are packaged in plastic tubes. VACHEX Series have a 1/4" quick change hex shank.



# of Steps	Range	VAC Series		VACHEX Series	
		Item Code	Item Code	Item Code	Item Code
13	1/8" - 1/2" x 32nds	VAC1		VAC1HEX	
6	3/16" - 1/2" x 16ths	VAC2		VAC2HEX	
9	1/4" - 3/4" x 16ths	VAC3		VAC3HEX	
12	3/16" - 7/8" x 16ths	VAC4		VAC4HEX	
12	1/4" - 1-3/8" x 8ths	VAC5		-	-
	3 Piece Set #1, 2 & 3	VACSET		-	-
	5 Piece Set #1, 2, 3, 4 & 5	VAC1-5SET		-	-

# HSS TAPER SHANK DRILLS

## DWDTs Series - Taper Shank Drills

Made to fit Morse tapered holders. Designed to perform in a broad range of materials in the iron and steel families. They have a black oxide surface treatment that is abrasion resistant, reduces chip welding and improves chip flow



DWDTs Series				
Size	Flute Length	O.A.L.	Shank Taper	Part Number
1/8"	1-7/8"	5-1/8"	1MT	DWDTs1/8
9/64"	2-1/8"	5-3/8"	1MT	DWDTs9/64
5/32"	2-1/8"	5-3/8"	1MT	DWDTs5/32
11/64"	2-1/2"	5-3/4"	1MT	DWDTs11/64
3/16"	2-1/2"	5-3/4"	1MT	DWDTs3/16
13/64"	2-3/4"	6"	1MT	DWDTs13/64
7/32"	2-3/4"	6"	1MT	DWDTs7/32
15/64"	2-7/8"	6-1/8"	1MT	DWDTs15/64
1/4"	2-7/8"	6-1/8"	1MT	DWDTs1/4
17/64"	3"	6-1/4"	1MT	DWDTs17/64
9/32"	3"	6-1/4"	1MT	DWDTs9/32
19/64"	3-1/8"	6-3/8"	1MT	DWDTs19/64
5/16"	3-1/8"	6-3/8"	1MT	DWDTs5/16
21/64"	3-1/4"	6-1/2"	1MT	DWDTs21/64
11/32"	3-1/4"	6-1/2"	1MT	DWDTs11/32
23/64"	3-1/2"	6-3/4"	1MT	DWDTs23/64
3/8"	3-1/2"	6-3/4"	1MT	DWDTs3/8
25/64"	3-5/8"	7"	1MT	DWDTs25/64
13/32"	3-5/8"	7"	1MT	DWDTs13/32
27/64"	3-7/8"	7-1/4"	1MT	DWDTs27/64
7/16"	3-7/8"	7-1/4"	1MT	DWDTs7/16
29/64"	4-1/8"	7-1/2"	1MT	DWDTs29/64
15/32"	4-1/8"	7-1/2"	1MT	DWDTs15/32
31/64"	4-3/8"	8-1/4"	2MT	DWDTs31/64
1/2"	4-3/8"	8-1/4"	2MT	DWDTs1/2
33/64"	4-5/8"	8-1/2"	2MT	DWDTs33/64
17/32"	4-5/8"	8-1/2"	2MT	DWDTs17/32
35/64"	4-7/8"	8-3/4"	2MT	DWDTs35/64
9/16"	4-7/8"	8-3/4"	2MT	DWDTs9/16
37/64"	4-7/8"	8-3/4"	2MT	DWDTs37/64
19/32"	4-7/8"	8-3/4"	2MT	DWDTs19/32
39/64"	4-7/8"	8-3/4"	2MT	DWDTs39/64
5/8"	4-7/8"	8-3/4"	2MT	DWDTs5/8
41/64"	5-1/8"	9"	2MT	DWDTs41/64
21/32"	5-1/8"	9"	2MT	DWDTs21/32
43/64"	5-3/8"	9-1/4"	2MT	DWDTs43/64
11/16"	5-3/8"	9-1/4"	2MT	DWDTs11/16
45/64"	5-5/8"	9-1/2"	2MT	DWDTs45/64
23/32"	5-5/8"	9-1/2"	2MT	DWDTs23/32
47/64"	5-7/8"	9-3/4"	2MT	DWDTs47/64
3/4"	5-7/8"	9-3/4"	2MT	DWDTs3/4
49/64"	6"	9-7/8"	2MT	DWDTs49/64
25/32"	6"	9-7/8"	2MT	DWDTs25/32
51/64"	6-1/8"	10-3/4"	3MT	DWDTs51/64
13/16"	6-1/8"	10-3/4"	3MT	DWDTs13/16
53/64"	6-1/8"	10-3/4"	3MT	DWDTs53/64
27/32"	6-1/8"	10-3/4"	3MT	DWDTs27/32
55/64"	6-1/8"	10-3/4"	3MT	DWDTs55/64
7/8"	6-1/8"	10-3/4"	3MT	DWDTs7/8
57/64"	6-1/8"	10-3/4"	3MT	DWDTs57/64
29/32"	6-1/8"	10-3/4"	3MT	DWDTs29/32
59/64"	6-1/8"	10-3/4"	3MT	DWDTs59/64
15/16"	6-1/8"	10-3/4"	3MT	DWDTs15/16
61/64"	6-3/8"	11"	3MT	DWDTs61/64
31/32"	6-3/8"	11"	3MT	DWDTs31/32
63/64"	6-3/8"	11"	3MT	DWDTs63/64
1"	6-3/8"	11"	3MT	DWDTs1INCH

DWDTs Series				
Size	Flute Length	O.A.L.	Shank Taper	Part Number
1-1/64"	6-1/2"	11-1/8"	3MT	DWDTs1-1/64
1-1/32"	6-1/2"	11-1/8"	3MT	DWDTs1-1/32
1-3/64"	6-5/8"	11-1/4"	3MT	DWDTs1-3/64
1-1/16"	6-5/8"	11-1/4"	3MT	DWDTs1-1/16
1-5/64"	6-7/8"	12-1/2"	4MT	DWDTs1-5/64
1-3/32"	6-7/8"	12-1/2"	4MT	DWDTs1-3/32
1-7/64"	7-1/8"	12-3/4"	4MT	DWDTs1-7/64
1-1/8"	7-1/8"	12-3/4"	4MT	DWDTs1-1/8
1-9/64"	7-1/4"	12-7/8"	4MT	DWDTs1-9/64
1-5/32"	7-1/4"	12-7/8"	4MT	DWDTs1-5/32
1-11/64"	7-3/8"	13"	4MT	DWDTs1-11/64
1-3/16"	7-3/8"	13"	4MT	DWDTs1-3/16
1-13/64"	7-1/2"	13-1/8"	4MT	DWDTs1-13/64
1-7/32"	7-1/2"	13-1/8"	4MT	DWDTs1-7/32
1-15/64"	7-7/8"	13-1/2"	4MT	DWDTs1-15/64
1-1/4"	7-7/8"	13-1/2"	4MT	DWDTs1-1/4
1-17/64"	8-1/2"	14-1/8"	4MT	DWDTs1-17/64
1-9/32"	8-1/2"	14-1/8"	4MT	DWDTs1-9/32
1-19/64"	8-5/8"	14-1/4"	4MT	DWDTs1-19/64
1-5/16"	8-5/8"	14-1/4"	4MT	DWDTs1-5/16
1-21/64"	8-3/4"	14-3/8"	4MT	DWDTs1-21/64
1-11/32"	8-3/4"	14-3/8"	4MT	DWDTs1-11/32
1-23/64"	8-7/8"	14-1/2"	4MT	DWDTs1-23/64
1-3/8"	8-7/8"	14-1/2"	4MT	DWDTs1-3/8
1-25/64"	9"	14-5/8"	4MT	DWDTs1-25/64
1-13/32"	9"	14-5/8"	4MT	DWDTs1-13/32
1-27/64"	9-1/8"	14-3/4"	4MT	DWDTs1-27/64
1-7/16"	9-1/8"	14-3/4"	4MT	DWDTs1-7/16
1-29/64"	9-1/4"	14-7/8"	4MT	DWDTs1-29/64
1-15/32"	9-1/4"	14-7/8"	4MT	DWDTs1-15/32
1-31/64"	9-3/8"	15"	4MT	DWDTs1-31/64
1-1/2"	9-3/8"	15"	4MT	DWDTs1-1/2
1-33/64"	9-3/8"	16-3/8"	5MT	DWDTs1-33/64
1-17/32"	9-3/8"	16-3/8"	5MT	DWDTs1-17/32
1-35/64"	9-5/8"	16-5/8"	5MT	DWDTs1-35/64
1-9/16"	9-5/8"	16-5/8"	5MT	DWDTs1-9/16
1-37/64"	9-5/8"	16-7/8"	5MT	DWDTs1-37/64
1-19/32"	9-7/8"	16-7/8"	5MT	DWDTs1-19/32
1-39/64"	10"	17"	5MT	DWDTs1-39/64
1-5/8"	10"	17"	5MT	DWDTs1-5/8
1-41/64"	10-1/8"	17-1/8"	5MT	DWDTs1-41/64
1-21/32"	10-1/8"	17-1/8"	5MT	DWDTs1-21/32
1-43/64"	10-1/8"	17-1/8"	5MT	DWDTs1-43/64
1-11/16"	10-1/8"	17-1/8"	5MT	DWDTs1-11/16
1-45/64"	10-1/8"	17-1/8"	5MT	DWDTs1-45/64
1-23/32"	10-1/8"	17-1/8"	5MT	DWDTs1-23/32
1-47/64"	10-1/8"	17-1/8"	5MT	DWDTs1-47/64
1-3/4"	10-1/8"	17-1/8"	5MT	DWDTs1-3/4
1-25/32"	10-1/8"	17-1/8"	5MT	DWDTs1-25/32
1-13/16"	10-1/8"	17-1/8"	5MT	DWDTs1-13/16
1-27/32"	10-1/8"	17-1/8"	5MT	DWDTs1-27/32
1-7/8"	10-3/8"	17-3/8"	5MT	DWDTs1-7/8
1-29/32"	10-3/8"	17-3/8"	5MT	DWDTs1-29/32
1-15/16"	10-3/8"	17-3/8"	5MT	DWDTs1-15/16
1-31/32"	10-3/8"	17-3/8"	5MT	DWDTs1-31/32
2"	10-3/8"	17-3/8"	5MT	DWDTs2INCH
2-1/32"	10-3/8"	17-3/8"	5MT	DWDTs2-1/32

# HSS TAPER SHANK DRILLS

## DWDTs Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
2-1/16"	10-1/4"	17-3/8"	5MT	DWDTs2-1/16
2-3/32"	10-1/4"	17-3/8"	5MT	DWDTs2-3/32
2-1/8"	10-1/4"	17-3/8"	5MT	DWDTs2-1/8
2-5/32"	10-1/4"	17-3/8"	5MT	DWDTs2-5/32
2-3/16"	10-1/4"	17-3/8"	5MT	DWDTs2-3/16
2-7/32"	10-1/8"	17-3/8"	5MT	DWDTs2-7/32
2-1/4"	10-1/8"	17-3/8"	5MT	DWDTs2-1/4
2-5/16"	10-1/8"	17-3/8"	5MT	DWDTs2-5/16
2-3/8"	11-1/4"	17-3/8"	5MT	DWDTs2-3/8
2-7/16"	11-1/4"	18-3/4"	5MT	DWDTs2-7/16
2-1/2"	11-1/4"	18-3/4"	5MT	DWDTs2-1/2
2-9/16"	11-7/8"	19-1/2"	5MT	DWDTs2-9/16
2-5/8"	11-7/8"	19-1/2"	5MT	DWDTs2-5/8
2-11/16"	12-3/4"	20-3/8"	5MT	DWDTs2-11/16

## DWDTs Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
2-3/4"	12-3/4"	20-3/8"	5MT	DWDTs2-3/4
2-13/16"	13-3/8"	21-1/8"	5MT	DWDTs2-13/16
2-7/8"	13-3/8"	21-1/8"	5MT	DWDTs2-7/8
2-15/16"	14"	21-3/4"	5MT	DWDTs2-15/16
3"	14"	21-3/4"	5MT	DWDTs3INCH
3-1/16"	14-5/8"	24-1/2"	6MT	DWDTs3-1/16
3-1/8"	14-5/8"	24-1/2"	6MT	DWDTs3-1/8
3-3/16"	14-5/8"	24-1/2"	6MT	DWDTs3-3/16
3-1/4"	15-1/2"	25-1/2"	6MT	DWDTs3-1/4
3-5/16"	15-1/2"	25-1/2"	6MT	DWDTs3-5/16
3-3/8"	15-1/2"	25-1/2"	6MT	DWDTs3-3/8
3-7/16"	15-1/2"	25-1/2"	6MT	DWDTs3-7/16
3-1/2"	16-3/8"	26-1/2"	6MT	DWDTs3-1/2

# HSS TAPER SHANK DRILLS UNDERSIZED SHANK

## DWDTs Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
<b>1MT</b>				
31/64"	4-3/8"	8-1/4"	1MT	DWDTs31/64-1MT
1/2"	4-3/8"	8-1/4"	1MT	DWDTs1/2-1MT
33/64"	4-5/8"	8-1/2"	1MT	DWDTs33/64-1MT
17/32"	4-5/8"	8-1/2"	1MT	DWDTs17/32-1MT
35/64"	4-7/8"	8-3/4"	1MT	DWDTs35/64-1MT
<b>2MT</b>				
51/64"	6-1/8"	10-3/4"	2MT	DWDTs51/64-2MT
13/16"	6-1/8"	10-3/4"	2MT	DWDTs13/16-2MT
53/64"	6-1/8"	10-3/4"	2MT	DWDTs53/64-2MT
27/32"	6-1/8"	10-3/4"	2MT	DWDTs27/32-2MT
55/64"	6-1/8"	10-3/4"	2MT	DWDTs55/64-2MT
7/8"	6-1/8"	10-3/4"	2MT	DWDTs7/8-2MT
57/64"	6-1/8"	10-3/4"	2MT	DWDTs57/64-2MT
<b>3MT</b>				
1-5/64"	6-7/8"	12-1/2"	3MT	DWDTs1-5/64-3MT
1-3/32"	6-7/8"	12-1/2"	3MT	DWDTs1-3/32-3MT
1-1/8"	7-1/8"	12-3/4"	3MT	DWDTs1-1/8-3MT
1-9/64"	7-1/4"	12-7/8"	3MT	DWDTs1-9/64-3MT
1-5/32"	7-1/4"	12-7/8"	3MT	DWDTs1-5/32-3MT
1-11/64"	7-3/8"	13"	3MT	DWDTs1-11/64-3MT
1-3/16"	7-3/8"	13"	3MT	DWDTs1-3/16-3MT
1-13/64"	7-1/2"	13-1/8"	3MT	DWDTs1-13/64-3MT
1-7/32"	7-1/2"	13-1/8"	3MT	DWDTs1-7/32-3MT
1-15/64"	7-7/8"	13-1/2"	3MT	DWDTs1-15/64-3MT
1-1/4"	7-7/8"	13-1/2"	3MT	DWDTs1-1/4-3MT
1-5/16"	8-5/8"	14-1/4"	3MT	DWDTs1-5/16-3MT
1-3/8"	8-7/8"	14-1/2"	3MT	DWDTs1-3/8-3MT
1-7/16"	9-1/8"	14-3/4"	3MT	DWDTs1-7/16-3MT
1-1/2"	9-3/8"	15"	3MT	DWDTs1-1/2-3MT
<b>4MT</b>				
1-17/32"	9-3/8"	16-3/8"	4MT	DWDTs1-17/32-4MT
1-35/64"	9-5/8"	16-5/8"	4MT	DWDTs1-35/64-4MT
1-9/16"	9-5/8"	16-5/8"	4MT	DWDTs1-9/16-4MT
1-37/64"	9-7/8"	16-7/8"	4MT	DWDTs1-37/64-4MT
1-19/32"	9-7/8"	16-7/8"	4MT	DWDTs1-19/32-4MT
1-39/64"	10"	17"	4MT	DWDTs1-39/64-4MT
1-5/8"	10"	17"	4MT	DWDTs1-5/8-4MT
1-41/64"	10-1/8"	17-1/8"	4MT	DWDTs1-41/64-4MT
1-11/16"	10-1/8"	17-1/8"	4MT	DWDTs1-11/16-4MT
1-45/64"	10-1/8"	17-1/8"	4MT	DWDTs1-45/64-4MT
1-3/4"	10-1/8"	17-1/8"	4MT	DWDTs1-3/4-4MT
1-7/8"	10-3/8"	17-3/8"	4MT	DWDTs1-7/8-4MT
1-15/16"	10-3/8"	17-3/8"	4MT	DWDTs1-15/16-4MT
1-31/32"	10-3/8"	17-3/8"	4MT	DWDTs1-31/32-4MT
2"	10-3/8"	17-3/8"	4MT	DWDTs2INCH-4MT





# HSS TAPER SHANK DRILLS OVERSIZED SHANK

## DWDTs Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
<b>2MT</b>				
3/8"	3-1/2"	7-3/8"	2MT	DWDTs3/8-2MT
25/64"	3-5/8"	7-1/2"	2MT	DWDTs25/64-2MT
13/32"	3-5/8"	7-1/2"	2MT	DWDTs13/32-2MT
27/64"	3-7/8"	7-3/4"	2MT	DWDTs27/64-2MT
7/16"	3-7/8"	7-3/4"	2MT	DWDTs7/16-2MT
29/64"	4-1/8"	8"	2MT	DWDTs29/64-2MT
15/32"	4-1/8"	8"	2MT	DWDTs15/32-2MT
<b>3MT</b>				
21/32"	5-1/8"	9-3/4"	3MT	DWDTs21/32-3MT
43/64"	5-3/8"	10"	3MT	DWDTs43/64-3MT
45/64"	5-5/8"	10-1/4"	3MT	DWDTs45/64-3MT
23/32"	5-5/8"	10-1/4"	3MT	DWDTs23/32-3MT
47/64"	5-7/8"	10-1/2"	3MT	DWDTs47/64-3MT
3/4"	5-7/8"	10-1/2"	3MT	DWDTs3/4-3MT
25/32"	6"	10-5/8"	3MT	DWDTs25/32-3MT

# HSS METRIC TAPER SHANK DRILLS



## DWDTsMM Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
5.00	2-3/4"	6"	1MT	DWDTsMM5.00
5.50	2-3/4"	6"	1MT	DWDTsMM5.50
6.00	2-7/8"	6-1/8"	1MT	DWDTsMM6.00
6.50	2-7/8"	6-1/8"	1MT	DWDTsMM6.50
7.00	3"	6-1/4"	1MT	DWDTsMM7.00
7.50	3-1/8"	6-3/8"	1MT	DWDTsMM7.50
8.00	3-1/8"	6-3/8"	1MT	DWDTsMM8.00
8.50	3-1/4"	6-1/2"	1MT	DWDTsMM8.50
9.00	3-1/2"	6-3/4"	1MT	DWDTsMM9.00
9.50	3-1/2"	6-3/4"	1MT	DWDTsMM9.50
10.00	3-5/8"	7"	1MT	DWDTsMM10.00
10.50	3-7/8"	7-1/4"	1MT	DWDTsMM10.50
11.00	3-7/8"	7-1/4"	1MT	DWDTsMM11.00
11.50	4-1/8"	7-1/2"	1MT	DWDTsMM11.50
12.00	4-1/8"	7-1/2"	2MT	DWDTsMM12.00
12.50	4-3/8"	8-1/4"	2MT	DWDTsMM12.50
13.00	4-5/8"	8-1/2"	2MT	DWDTsMM13.00
13.50	4-5/8"	8-1/2"	2MT	DWDTsMM13.50
14.00	4-7/8"	8-3/4"	2MT	DWDTsMM14.00
14.50	4-7/8"	8-3/4"	2MT	DWDTsMM14.50
15.00	4-7/8"	8-3/4"	2MT	DWDTsMM15.00
15.50	4-7/8"	8-3/4"	2MT	DWDTsMM15.50
16.00	4-7/8"	8-3/4"	2MT	DWDTsMM16.00
16.50	5-1/8"	9"	2MT	DWDTsMM16.50
17.00	5-3/8"	9-1/4"	2MT	DWDTsMM17.00
17.50	5-3/8"	9-1/4"	2MT	DWDTsMM17.50
18.00	5-5/8"	9-1/2"	2MT	DWDTsMM18.00
18.50	5-7/8"	9-3/4"	2MT	DWDTsMM18.50
19.00	5-7/8"	9-3/4"	2MT	DWDTsMM19.00
19.50	6"	9-7/8"	2MT	DWDTsMM19.50
20.00	6"	9-7/8"	3MT	DWDTsMM20.00
20.50	6-1/8"	10-3/4"	3MT	DWDTsMM20.50
21.00	6-1/8"	10-3/4"	3MT	DWDTsMM21.00
21.50	6-1/8"	10-3/4"	3MT	DWDTsMM21.50
22.00	6-1/8"	10-3/4"	3MT	DWDTsMM22.00
22.50	6-1/8"	10-3/4"	3MT	DWDTsMM22.50
23.00	6-1/8"	10-3/4"	3MT	DWDTsMM23.00
23.50	6-1/8"	10-3/4"	3MT	DWDTsMM23.50
24.00	6-1/8"	10-3/4"	3MT	DWDTsMM24.00

## DWDTsMM Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
24.50	6-3/8"	11"	3MT	DWDTsMM24.50
25.00	6-3/8"	11"	3MT	DWDTsMM25.00
25.50	6-3/8"	11"	3MT	DWDTsMM25.50
26.00	6-1/2"	11-1/8"	3MT	DWDTsMM26.00
26.50	6-5/8"	11-1/4"	3MT	DWDTsMM26.50
27.00	6-5/8"	11-1/4"	3MT	DWDTsMM27.00
27.50	6-7/8"	12-1/2"	4MT	DWDTsMM27.50
28.00	7-1/8"	12-3/4"	4MT	DWDTsMM28.00
28.50	7-1/8"	12-3/4"	4MT	DWDTsMM28.50
29.00	7-1/4"	12-7/8"	4MT	DWDTsMM29.00
29.50	7-1/4"	12-7/8"	4MT	DWDTsMM29.50
30.00	7-3/8"	13"	4MT	DWDTsMM30.00
30.50	7-1/2"	13-1/8"	4MT	DWDTsMM30.50
31.00	7-1/2"	13-1/8"	4MT	DWDTsMM31.00
31.50	7-7/8"	13-1/2"	4MT	DWDTsMM31.50
32.00	8-1/2"	14-1/8"	4MT	DWDTsMM32.00
32.50	8-1/2"	14-1/8"	4MT	DWDTsMM32.50
33.00	8-5/8"	14-1/4"	4MT	DWDTsMM33.00
33.50	8-5/8"	14-1/4"	4MT	DWDTsMM33.50
34.00	8-3/4"	14-3/8"	4MT	DWDTsMM34.00
34.50	8-7/8"	14-1/2"	4MT	DWDTsMM34.50
35.00	8-7/8"	14-1/2"	4MT	DWDTsMM35.00
35.50	9"	14-5/8"	4MT	DWDTsMM35.50
36.00	9-1/8"	14-3/4"	4MT	DWDTsMM36.00
37.00	9-1/8"	14-3/4"	4MT	DWDTsMM37.00
38.00	9-3/8"	15"	4MT	DWDTsMM38.00
39.00	9-3/8"	16-3/8"	5MT	DWDTsMM39.00
40.00	9-7/8"	16-7/8"	5MT	DWDTsMM40.00
41.00	10"	17"	5MT	DWDTsMM41.00
42.00	10-1/8"	17-1/8"	5MT	DWDTsMM42.00
43.00	10-1/8"	17-1/8"	5MT	DWDTsMM43.00
44.00	10-1/8"	17-1/8"	5MT	DWDTsMM44.00
45.00	10-1/8"	17-1/8"	5MT	DWDTsMM45.00
46.00	10-1/8"	17-1/8"	5MT	DWDTsMM46.00
47.00	10-1/8"	17-1/8"	5MT	DWDTsMM47.00
48.00	10-3/8"	17-3/8"	5MT	DWDTsMM48.00
49.00	10-3/8"	17-3/8"	5MT	DWDTsMM49.00
50.00	10-3/8"	17-3/8"	5MT	DWDTsMM50.00
51.00	10-3/8"	17-3/8"	5MT	DWDTsMM51.00

# TAPER SHANK DRILLS

## DWDTSCT Series - Carbide Tipped Taper Shank Drills

Features heavy-duty construction and heat treated body for optimum wear resistance and support of the carbide tip. Designed for drilling in cast iron and non-ferrous metals. NOT RECOMMENDED FOR DRILLING STEEL.



### DWDTSCT Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
1/2"	4-3/8"	8-1/4"	2MT	DWDTSCT1/2
33/64"	4-5/8"	8-1/2"	2MT	DWDTSCT33/64
17/32"	4-5/8"	8-1/2"	2MT	DWDTSCT17/32
35/64"	4-7/8"	8-3/4"	2MT	DWDTSCT35/64
9/16"	4-7/8"	8-3/4"	2MT	DWDTSCT9/16
37/64"	4-7/8"	8-3/4"	2MT	DWDTSCT37/64
19/32"	4-7/8"	8-3/4"	2MT	DWDTSCT19/32
39/64"	4-7/8"	8-3/4"	2MT	DWDTSCT39/64
5/8"	4-7/8"	8-3/4"	2MT	DWDTSCT5/8
41/64"	5-1/8"	9"	2MT	DWDTSCT41/64
21/32"	5-1/8"	9"	2MT	DWDTSCT21/32
43/64"	5-3/8"	9-1/4"	2MT	DWDTSCT43/64
11/16"	5-3/8"	9-1/4"	2MT	DWDTSCT11/16
45/64"	5-5/8"	9-1/2"	2MT	DWDTSCT45/64
23/32"	5-5/8"	9-1/2"	2MT	DWDTSCT23/32
47/64"	5-7/8"	9-3/4"	2MT	DWDTSCT47/64
3/4"	5-7/8"	9-3/4"	2MT	DWDTSCT3/4

### DWDTSCT Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
49/64"	6"	9-7/8"	2MT	DWDTSCT49/64
25/32"	6"	9-7/8"	2MT	DWDTSCT25/32
51/64"	6-1/8"	10-3/4"	3MT	DWDTSCT51/64
13/16"	6-1/8"	10-3/4"	3MT	DWDTSCT13/16
53/64"	6-1/8"	10-3/4"	3MT	DWDTSCT53/64
27/32"	6-1/8"	10-3/4"	3MT	DWDTSCT27/32
55/64"	6-1/8"	10-3/4"	3MT	DWDTSCT55/64
7/8"	6-1/8"	10-3/4"	3MT	DWDTSCT7/8
57/64"	6-1/8"	10-3/4"	3MT	DWDTSCT57/64
29/32"	6-1/8"	10-3/4"	3MT	DWDTSCT29/32
59/64"	6-1/8"	10-3/4"	3MT	DWDTSCT59/64
15/16"	6-1/8"	10-3/4"	3MT	DWDTSCT15/16
61/64"	6-3/8"	11"	3MT	DWDTSCT61/64
31/32"	6-3/8"	11"	3MT	DWDTSCT31/32
63/64"	6-3/8"	11"	3MT	DWDTSCT63/64
1"	6-3/8"	11"	3MT	DWDTSCT1INCH

## DWDTSCO Series - Cobalt Taper Shank Drills

Made of heat resistant cobalt. Engineered with heavy-duty construction to perform well in tough, hard-to-machine materials. Notched Point.



### DWDTSCO Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
1/4"	2-7/8"	6-1/8"	1MT	DWDTSCO1/4
5/16"	3-1/8"	6-3/8"	1MT	DWDTSCO5/16
3/8"	3-1/2"	6-3/4"	1MT	DWDTSCO3/8
7/16"	3-7/8"	7-1/4"	1MT	DWDTSCO7/16
1/2"	4-3/8"	8-1/4"	2MT	DWDTSCO1/2
17/32"	4-5/8"	8-1/2"	2MT	DWDTSCO17/32
9/16"	4-7/8"	8-3/4"	2MT	DWDTSCO9/16
19/32"	4-7/8"	8-3/4"	2MT	DWDTSCO19/32
5/8"	4-7/8"	8-3/4"	2MT	DWDTSCO5/8
11/16"	5-3/8"	9-1/4"	2MT	DWDTSCO11/16
3/4"	5-7/8"	9-3/4"	2MT	DWDTSCO3/4

### DWDTSCO Series

Size	Flute Length	O.A.L.	Shank Taper	Part Number
13/16"	6-1/8"	10-3/4"	3MT	DWDTSCO13/16
7/8"	6-1/8"	10-3/4"	3MT	DWDTSCO7/8
15/16"	6-1/8"	10-3/4"	3MT	DWDTSCO15/16
1"	6-3/8"	11"	3MT	DWDTSCO1INCH
1-1/8"	7-1/8"	12-3/4"	4MT	DWDTSCO1-1/8
1-3/16"	7-3/8"	13"	4MT	DWDTSCO1-3/16
1-1/4"	7-7/8"	13-1/2"	4MT	DWDTSCO1-1/4
1-5/16"	8-5/8"	14-1/4"	4MT	DWDTSCO1-5/16
1-3/8"	8-7/8"	14-1/2"	4MT	DWDTSCO1-3/8
1-1/2"	9-3/8"	15"	4MT	DWDTSCO1-1/2

# TAPER LENGTH DRILLS

## DWDTL Series - HSS Taper Length Drills

Designed for general purpose drilling where a length longer than Jobber Length is required. Performs under a variety of normal conditions and in a broad range of materials in the iron and steel families.

## DWDTLCO Series - Cobalt Taper Length Drills

Made of heat resistant cobalt. Features 135° heavy-duty construction for drilling in tough alloy steels, forgings, and castings.

## DWDTLCT Series - Carbide Tipped Taper Length Drills

Features heavy-duty construction and heat treated body for optimum wear resistance and support of the carbide tip. Particularly advantageous when length longer than Jobber Length is required. Used in production drilling of cast iron, non-ferrous metals, and many composites. Tanged shank allows for use with ASA split sleeve drivers. NOT RECOMMENDED FOR DRILLING STEEL.

				DWDTL Series	DWDTLCO Series	DWDTLCT Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
1/64"	.0156	5/16"	1-1/2"	DWDTL1/64	-	-
1/32"	.0312	3/4"	2"	DWDTL1/32	-	-
3/64"	.0469	1-1/8"	2-1/4"	DWDTL3/64	-	-
1/16"	.0625	1-3/4"	3"	DWDTL1/16	DWDTLCO1/16	-
5/64"	.0781	2"	3-3/4"	DWDTL5/64	DWDTLCO5/64	-
3/32"	.0938	2-1/4"	4-1/4"	DWDTL3/32	DWDTLCO3/32	-
7/64"	.1094	2-1/2"	4-5/8"	DWDTL7/64	DWDTLCO7/64	-
1/8"	.1250	2-3/4"	5-1/8"	DWDTL1/8	DWDTLCO1/8	DWDTLCT1/8
9/64"	.1406	3"	5-3/8"	DWDTL9/64	DWDTLCO9/64	DWDTLCT9/64
5/32"	.1562	3"	5-3/8"	DWDTL5/32	DWDTLCO5/32	DWDTLCT5/32
11/64"	.1719	3-3/8"	5-3/4"	DWDTL11/64	DWDTLCO11/64	DWDTLCT11/64
3/16"	.1875	3-3/8"	5-3/4"	DWDTL3/16	DWDTLCO3/16	DWDTLCT3/16
13/64"	.2031	3-5/8"	6"	DWDTL13/64	DWDTLCO13/64	DWDTLCT13/64
7/32"	.2188	3-5/8"	6"	DWDTL7/32	DWDTLCO7/32	DWDTLCT7/32
15/64"	.2344	3-3/4"	6-1/8"	DWDTL15/64	DWDTLCO15/64	DWDTLCT15/64
1/4"	.2500	3-3/4"	6-1/8"	DWDTL1/4	DWDTLCO1/4	DWDTLCT1/4
17/64"	.2656	3-7/8"	6-1/4"	DWDTL17/64	DWDTLCO17/64	DWDTLCT17/64
9/32"	.2812	3-7/8"	6-1/4"	DWDTL9/32	DWDTLCO9/32	DWDTLCT9/32
19/64"	.2969	4"	6-3/8"	DWDTL19/64	DWDTLCO19/64	DWDTLCT19/64
5/16"	.3125	4"	6-3/8"	DWDTL5/16	DWDTLCO5/16	DWDTLCT5/16
21/64"	.3281	4-1/8"	6-1/2"	DWDTL21/64	DWDTLCO21/64	DWDTLCT21/64
11/32"	.3438	4-1/8"	6-1/2"	DWDTL11/32	DWDTLCO11/32	DWDTLCT11/32
23/64"	.3594	4-1/4"	6-3/4"	DWDTL23/64	DWDTLCO23/64	DWDTLCT23/64
3/8"	.3750	4-1/4"	6-3/4"	DWDTL3/8	DWDTLCO3/8	DWDTLCT3/8
25/64"	.3906	4-3/8"	7"	DWDTL25/64	DWDTLCO25/64	DWDTLCT25/64
13/32"	.4062	4-3/8"	7"	DWDTL13/32	DWDTLCO13/32	DWDTLCT13/32
27/64"	.4219	4-5/8"	7-1/4"	DWDTL27/64	DWDTLCO27/64	DWDTLCT27/64
7/16"	.4375	4-5/8"	7-1/4"	DWDTL7/16	DWDTLCO7/16	DWDTLCT7/16
29/64"	.4531	4-3/4"	7-1/2"	DWDTL29/64	DWDTLCO29/64	DWDTLCT29/64
15/32"	.4688	4-3/4"	7-1/2"	DWDTL15/32	DWDTLCO15/32	DWDTLCT15/32
31/64"	.4844	4-3/4"	7-3/4"	DWDTL31/64	DWDTLCO31/64	DWDTLCT31/64
1/2"	.5000	4-3/4"	7-3/4"	DWDTL1/2	DWDTLCO1/2	DWDTLCT1/2
33/64"	.5156	4-3/4"	8"	DWDTL33/64	DWDTLCO33/64	DWDTLCT33/64
17/32"	.5312	4-3/4"	8"	DWDTL17/32	DWDTLCO17/32	DWDTLCT17/32
35/64"	.5469	4-7/8"	8-1/4"	DWDTL35/64	DWDTLCO35/64	DWDTLCT35/64
9/16"	.5625	4-7/8"	8-1/4"	DWDTL9/16	DWDTLCO9/16	DWDTLCT9/16
37/64"	.5781	4-7/8"	8-3/4"	DWDTL37/64	DWDTLCO37/64	DWDTLCT37/64
19/32"	.5938	4-7/8"	8-3/4"	DWDTL19/32	DWDTLCO19/32	DWDTLCT19/32
39/64"	.6094	4-7/8"	8-3/4"	DWDTL39/64	DWDTLCO39/64	DWDTLCT39/64
5/8"	.6250	4-7/8"	8-3/4"	DWDTL5/8	DWDTLCO5/8	DWDTLCT5/8
41/64"	.6406	5-1/8"	9"	DWDTL41/64	DWDTLCO41/64	DWDTLCT41/64
21/32"	.6562	5-3/8"	9"	DWDTL21/32	DWDTLCO21/32	DWDTLCT21/32
43/64"	.6719	5-3/8"	9-1/4"	DWDTL43/64	DWDTLCO43/64	DWDTLCT43/64
11/16"	.6875	5-3/8"	9-1/4"	DWDTL11/16	DWDTLCO11/16	DWDTLCT11/16
45/64"	.7031	5-5/8"	9-1/2"	DWDTL45/64	DWDTLCO45/64	DWDTLCT45/64
23/32"	.7188	5-5/8"	9-1/2"	DWDTL23/32	DWDTLCO23/32	DWDTLCT23/32
47/64"	.7344	5-7/8"	9-3/4"	DWDTL47/64	DWDTLCO47/64	DWDTLCT47/64
3/4"	.7500	5-7/8"	9-3/4"	DWDTL3/4	DWDTLCO3/4	DWDTLCT3/4
49/64"	.7656	6"	9-7/8"	DWDTL49/64	DWDTLCO49/64	DWDTLCT49/64
25/32"	.7812	6"	9-7/8"	DWDTL25/32	DWDTLCO25/32	DWDTLCT25/32

# TAPER LENGTH DRILLS

				DWDTL Series	DWDTLCO Series	DWDTLCT Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number	Part Number
51/64"	.7969	6-1/8"	10"	DWDTL51/64	DWDTLCO51/64	DWDTLCT51/64
13/16"	.8125	6-1/8"	10"	DWDTL13/16	DWDTLCO13/16	DWDTLCT13/16
53/64"	.8281	6-1/8"	10"	DWDTL53/64	DWDTLCO53/64	DWDTLCT53/64
27/32"	.8438	6-1/8"	10"	DWDTL27/32	DWDTLCO27/32	DWDTLCT27/32
55/64"	.8594	6-1/8"	10"	DWDTL55/64	DWDTLCO55/64	DWDTLCT55/64
7/8"	.8750	6-1/8"	10"	DWDTL7/8	DWDTLCO7/8	DWDTLCT7/8
57/64"	.8906	6-1/8"	10"	DWDTL57/64	DWDTLCO57/64	DWDTLCT57/64
29/32"	.9062	6-1/8"	10"	DWDTL29/32	DWDTLCO29/32	DWDTLCT29/32
59/64"	.9219	6-1/8"	10-3/4"	DWDTL59/64	DWDTLCO59/64	DWDTLCT59/64
15/16"	.9375	6-1/8"	10-3/4"	DWDTL15/16	DWDTLCO15/16	DWDTLCT15/16
61/64"	.9531	6-3/8"	11"	DWDTL61/64	DWDTLCO61/64	DWDTLCT61/64
31/32"	.9688	6-3/8"	11"	DWDTL31/32	DWDTLCO31/32	DWDTLCT31/32
63/64"	.9844	6-3/8"	11"	DWDTL63/64	DWDTLCO63/64	DWDTLCT63/64
1"	1.0000	6-3/8"	11"	DWDTL1INCH	DWDTLCO1INCH	DWDTLCT1INCH
1-1/8"	1.1250	7-1/8"	11-3/4"	DWDTL1-1/8		
1-1/4"	1.2500	7-7/8"	12-1/2"	DWDTL1-1/4		
1-3/8"	1.3750	8-7/8"	14-1/2"	DWDTL1-3/8		
1-1/2"	1.5000	9-3/8"	15"	DWDTL1-1/2		

## WIRE GAUGE SIZES



				DWDTL Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1	.2280	3-3/4"	6-1/8"	DWDTL1
2	.2210	3-5/8"	6"	DWDTL2
3	.2130	3-5/8"	6"	DWDTL3
4	.2090	3-5/8"	6"	DWDTL4
5	.2055	3-5/8"	6"	DWDTL5
6	.2040	3-5/8"	6"	DWDTL6
7	.2010	3-5/8"	6"	DWDTL7
8	.1990	3-5/8"	6"	DWDTL8
9	.1960	3-5/8"	6"	DWDTL9
10	.1935	3-5/8"	6"	DWDTL10
11	.1910	3-5/8"	6"	DWDTL11
12	.1890	3-5/8"	6"	DWDTL12
13	.1850	3-3/8"	5-3/4"	DWDTL13
14	.1820	3-3/8"	5-3/4"	DWDTL14
15	.1800	3-3/8"	5-3/4"	DWDTL15
16	.1770	3-3/8"	5-3/4"	DWDTL16
17	.1730	3-3/8"	5-3/4"	DWDTL17
18	.1695	3-3/8"	5-3/4"	DWDTL18
19	.1660	3-3/8"	5-3/4"	DWDTL19
20	.1610	3-3/8"	5-3/4"	DWDTL20
21	.1590	3-3/8"	5-3/4"	DWDTL21
22	.1570	3-3/8"	5-3/4"	DWDTL22
23	.1540	3"	5-3/8"	DWDTL23
24	.1520	3"	5-3/8"	DWDTL24
25	.1495	3"	5-3/8"	DWDTL25
26	.1470	3"	5-3/8"	DWDTL26
27	.1440	3"	5-3/8"	DWDTL27
28	.1405	3"	5-3/8"	DWDTL28
29	.1360	3"	5-3/8"	DWDTL29
30	.1285	3"	5-3/8"	DWDTL30
31	.1200	2-3/4"	5-1/8"	DWDTL31
32	.1160	2-3/4"	5-1/8"	DWDTL32
33	.1130	2-3/4"	5-1/8"	DWDTL33
34	.1110	2-3/4"	5-1/8"	DWDTL34
35	.1100	2-3/4"	5-1/8"	DWDTL35
36	.1065	2-1/2"	4-5/8"	DWDTL36
37	.1040	2-1/2"	4-5/8"	DWDTL37
38	.1015	2-1/2"	4-5/8"	DWDTL38
39	.0995	2-1/2"	4-5/8"	DWDTL39
40	.0980	2-1/2"	4-5/8"	DWDTL40

				DWDTL Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
41	.0960	2-1/2"	4-5/8"	DWDTL41
42	.0935	2-1/4"	4-1/4"	DWDTL42
43	.0890	2-1/4"	4-1/4"	DWDTL43
44	.0860	2-1/4"	4-1/4"	DWDTL44
45	.0820	2-1/4"	4-1/4"	DWDTL45
46	.0810	2-1/4"	4-1/4"	DWDTL46
47	.0785	2-1/4"	4-1/4"	DWDTL47
48	.0760	2"	3-3/4"	DWDTL48
49	.0730	2"	3-3/4"	DWDTL49
50	.0700	2"	3-3/4"	DWDTL50
51	.0670	2"	3-3/4"	DWDTL51
52	.0635	2"	3-3/4"	DWDTL52
53	.0595	1-3/4"	3"	DWDTL53
54	.0550	1-3/4"	3"	DWDTL54
55	.0520	1-3/4"	3"	DWDTL55
56	.0465	1-1/8"	2-1/4"	DWDTL56
57	.0430	1-1/8"	2-1/4"	DWDTL57
58	.0420	1-1/8"	2-1/4"	DWDTL58
59	.0410	1-1/8"	2-1/4"	DWDTL59
60	.0400	1-1/8"	2-1/4"	DWDTL60
61	.0390	1-1/8"	2-1/4"	DWDTL61
62	.0380	3/4"	2"	DWDTL62
63	.0370	3/4"	2"	DWDTL63
64	.0360	3/4"	2"	DWDTL64
65	.0350	3/4"	2"	DWDTL65
66	.0330	3/4"	2"	DWDTL66
67	.0320	3/4"	2"	DWDTL67
68	.0310	3/4"	2"	DWDTL68
69	.0292	3/4"	2"	DWDTL69
70	.0280	3/4"	2"	DWDTL70
71	.0260	3/4"	2"	DWDTL71
72	.0250	5/16"	1-1/2"	DWDTL72
73	.0240	5/16"	1-1/2"	DWDTL73
74	.0225	5/16"	1-1/2"	DWDTL74
75	.0210	5/16"	1-1/2"	DWDTL75
76	.0200	5/16"	1-1/2"	DWDTL76
77	.0180	5/16"	1-1/2"	DWDTL77
78	.0160	5/16"	1-1/2"	DWDTL78
79	.0145	5/16"	1-1/2"	DWDTL79
80	.0135	5/16"	1-1/2"	DWDTL80

# HSS EXTRA LONG DRILLS

## 8" O.A.L. & 12" O.A.L

### DWDDL Series - Long Boy Drills

For general purpose drilling in applications where extra length for reach is required, designed to perform in a broad range of materials in the iron and steel families. 118° standard point. Unless otherwise specified, drill bits (including those over 1/2") have a straight shank.



8 " O . A . L .

#### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
5/64"	.0781	6"	DWDDL8X5/64
7/64"	.1094	6"	DWDDL8X7/64
1/8"	.1250	6"	DWDDL8X1/8
9/64"	.1406	6"	DWDDL8X9/64
5/32"	.1563	6"	DWDDL8X5/32
11/64"	.1719	6"	DWDDL8X11/64
3/16"	.1875	6"	DWDDL8X3/16
13/64"	.2031	6"	DWDDL8X13/64
7/32"	.2188	6"	DWDDL8X7/32
15/64"	.2344	6"	DWDDL8X15/64
1/4"	.2500	6"	DWDDL8X1/4
17/64"	.2656	6"	DWDDL8X17/64

#### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
9/32"	.2813	6"	DWDDL8X9/32
19/64"	.2969	6"	DWDDL8X19/64
5/16"	.3125	6"	DWDDL8X5/16
21/64"	.3281	6"	DWDDL8X21/64
11/32"	.3438	6"	DWDDL8X11/32
23/64"	.3594	6"	DWDDL8X23/64
3/8"	.3750	6"	DWDDL8X3/8
25/64"	.3906	6"	DWDDL8X25/64
13/32"	.4063	6"	DWDDL8X13/32
7/16"	.4375	6"	DWDDL8X7/16
15/32"	.4688	6"	DWDDL8X15/32
31/64"	.4844	6"	DWDDL8X31/64
1/2"	.5000	6"	DWDDL8X1/2

1 2 " O . A . L .

#### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
5/64"	.0781	9"	DWDDL12X5/64
3/32"	.0938	9"	DWDDL12X3/32
7/64"	.1094	9"	DWDDL12X7/64
1/8"	.1250	9"	DWDDL12X1/8
9/64"	.1406	9"	DWDDL12X9/64
5/32"	.1563	9"	DWDDL12X5/32
11/64"	.1719	9"	DWDDL12X11/64
3/16"	.1875	9"	DWDDL12X3/16
13/64"	.2031	9"	DWDDL12X13/64
7/32"	.2188	9"	DWDDL12X7/32
15/64"	.2344	9"	DWDDL12X15/64
1/4"	.2500	9"	DWDDL12X1/4
17/64"	.2656	9"	DWDDL12X17/64
9/32"	.2813	9"	DWDDL12X9/32
19/64"	.2969	9"	DWDDL12X19/64
5/16"	.3125	9"	DWDDL12X5/16
21/64"	.3281	9"	DWDDL12X21/64
11/32"	.3438	9"	DWDDL12X11/32
23/64"	.3594	9"	DWDDL12X23/64
3/8"	.3750	9"	DWDDL12X3/8
25/64"	.3906	9"	DWDDL12X25/64
13/32"	.4063	9"	DWDDL12X13/32

#### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
27/64"	.4219	9"	DWDDL12X27/64
7/16"	.4375	9"	DWDDL12X7/16
29/64"	.4531	9"	DWDDL12X29/64
15/32"	.4688	9"	DWDDL12X15/32
31/64"	.4844	9"	DWDDL12X31/64
1/2"	.5000	9"	DWDDL12X1/2
33/64"	.5156	9"	DWDDL12X33/64
17/32"	.5313	9"	DWDDL12X17/32
35/64"	.5469	9"	DWDDL12X35/64
9/16"	.5625	9"	DWDDL12X9/16
37/64"	.5781	9"	DWDDL12X37/64
19/32"	.5938	9"	DWDDL12X19/32
39/64"	.6094	9"	DWDDL12X39/64
5/8"	.6250	9"	DWDDL12X5/8
41/64"	.6406	9"	DWDDL12X41/64
21/32"	.6563	9"	DWDDL12X21/32
43/64"	.6719	9"	DWDDL12X43/64
11/16"	.6875	9"	DWDDL12X11/16
45/64"	.7031	9"	DWDDL12X45/64
23/32"	.7188	9"	DWDDL12X23/32
47/64"	.7344	9"	DWDDL12X47/64
3/4"	.7500	9"	DWDDL12X3/4



# HSS EXTRA LONG DRILLS

## 18" O.A.L. & 24" O.A.L.

For general purpose drilling in applications where extra length for reach is required, designed to perform in a broad range of materials in the iron and steel families. 118° standard point. Unless otherwise specified, drill bits (including those over 1/2") have a straight shank.



1 8 " O . A . L .

### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
1/8"	.1250	13"	DWDDL18X1/8
9/64"	.1406	13"	DWDDL18X9/64
5/32"	.1563	13"	DWDDL18X5/32
11/64"	.1719	13"	DWDDL18X11/64
3/16"	.1875	13"	DWDDL18X3/16
13/64"	.2031	13"	DWDDL18X13/64
7/32"	.2188	13"	DWDDL18X7/32
15/64"	.2344	13"	DWDDL18X15/64
1/4"	.2500	13"	DWDDL18X1/4
17/64"	.2656	13"	DWDDL18X17/64
9/32"	.2813	13"	DWDDL18X9/32
19/64"	.2969	13"	DWDDL18X19/64
5/16"	.3125	13"	DWDDL18X5/16
21/64"	.3281	13"	DWDDL18X21/64
11/32"	.3438	13"	DWDDL18X11/32
23/64"	.3594	13"	DWDDL18X23/64
3/8"	.3750	13"	DWDDL18X3/8
25/64"	.3906	13"	DWDDL18X25/64
13/32"	.4063	13"	DWDDL18X13/32
27/64"	.4219	13"	DWDDL18X27/64
7/16"	.4375	13"	DWDDL18X7/16
29/64"	.4531	13"	DWDDL18X29/64
15/32"	.4688	13"	DWDDL18X15/32
31/64"	.4844	13"	DWDDL18X31/64
1/2"	.5000	13"	DWDDL18X1/2
33/64"	.5156	13"	DWDDL18X33/64
17/32"	.5313	13"	DWDDL18X17/32
35/64"	.5469	13"	DWDDL18X35/64



### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
9/16"	.5625	13"	DWDDL18X9/16
37/64"	.5781	13"	DWDDL18X37/64
19/32"	.5938	13"	DWDDL18X19/32
39/64"	.6094	13"	DWDDL18X39/64
5/8"	.6250	13"	DWDDL18X5/8
41/64"	.6406	13"	DWDDL18X41/64
21/32"	.6563	13"	DWDDL18X21/32
43/64"	.6719	13"	DWDDL18X43/64
11/16"	.6875	13"	DWDDL18X11/16
45/64"	.7031	13"	DWDDL18X45/64
23/32"	.7188	13"	DWDDL18X23/32
47/64"	.7344	13"	DWDDL18X47/64
3/4"	.7500	13"	DWDDL18X3/4
49/64"	.7656	13"	DWDDL18X49/64
25/32"	.7813	13"	DWDDL18X25/32
51/64"	.7969	13"	DWDDL18X51/64
13/16"	.8125	13"	DWDDL18X13/16
53/64"	.8281	13"	DWDDL18X53/64
27/32"	.8438	13"	DWDDL18X27/32
55/64"	.8594	13"	DWDDL18X55/64
7/8"	.8750	13"	DWDDL18X7/8
57/64"	.8906	13"	DWDDL18X57/64
29/32"	.9063	13"	DWDDL18X29/32
59/64"	.9219	13"	DWDDL18X59/64
15/16"	.9375	13"	DWDDL18X15/16
61/64"	.9531	13"	DWDDL18X61/64
31/32"	.9688	13"	DWDDL18X31/32
63/64"	.9844	13"	DWDDL18X63/64
1"	1.0000	13"	DWDDL18X1INCH

2 4 " O . A . L .

### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
1/4"	.2500	18"	DWDDL24X1/4
5/16"	.3125	18"	DWDDL24X5/16
11/32"	.3437	18"	DWDDL24X11/32
3/8"	.3750	18"	DWDDL24X3/8
13/32"	.4062	18"	DWDDL24X13/32
7/16"	.4375	18"	DWDDL24X7/16
1/2"	.5000	18"	DWDDL24X1/2
17/32"	.5312	18"	DWDDL24X17/32

### DWDDL Series

Size	Dec. Equiv.	Flute Length	Part Number
9/16"	.5625	18"	DWDDL24X9/16
5/8"	.6250	18"	DWDDL24X5/8
11/16"	.6875	18"	DWDDL24X11/16
3/4"	.7500	18"	DWDDL24X3/4
13/16"	.8125	18"	DWDDL24X13/16
7/8"	.8750	18"	DWDDL24X7/8
15/16"	.9375	18"	DWDDL24X15/16
1"	1.0000	18"	DWDDL24X1INCH

# HSS EXTRA LONG REDUCED SHANK DRILLS

For general purpose drilling in applications where extra length for reach is required, designed to perform in a broad range of materials in the iron and steel families. 118° standard point. Reduced Shank Drills expand the size range capacity of a drill chuck.



1 2 " O . A . L .

**NEW**

DWDDL Series				
Size	Dec. Equiv.	Flute Length	Shank Size	Part Number
33/64"	.5156	9"	1/2"	DWDDL12X33/64X1/2
17/32"	.5313	9"	1/2"	DWDDL12X17/32X1/2
35/64"	.5469	9"	1/2"	DWDDL12X35/64X1/2
9/16"	.5625	9"	1/2"	DWDDL12X9/16X1/2
37/64"	.5781	9"	1/2"	DWDDL12X37/64X1/2
19/32"	.5938	9"	1/2"	DWDDL12X19/32X1/2
39/64"	.6094	9"	1/2"	DWDDL12X39/64X1/2
5/8"	.6250	9"	1/2"	DWDDL12X5/8X1/2
41/64"	.6406	9"	1/2"	DWDDL12X41/64X1/2
21/32"	.6563	9"	1/2"	DWDDL12X21/32X1/2
43/64"	.6719	9"	1/2"	DWDDL12X43/64X1/2
11/16"	.6875	9"	1/2"	DWDDL12X11/16X1/2
45/64"	.7031	9"	1/2"	DWDDL12X45/64X1/2
23/32"	.7188	9"	1/2"	DWDDL12X23/32X1/2
47/64"	.7344	9"	1/2"	DWDDL12X47/64X1/2
3/4"	.7500	9"	1/2"	DWDDL12X3/4X1/2
49/64"	.7656	9"	1/2"	DWDDL12X49/64X1/2
25/32"	.7813	9"	1/2"	DWDDL12X25/32X1/2

DWDDL Series				
Size	Dec. Equiv.	Flute Length	Shank Size	Part Number
51/64"	.7969	9"	1/2"	DWDDL12X51/64X1/2
13/16"	.8125	9"	1/2"	DWDDL12X13/16X1/2
53/64"	.8281	9"	1/2"	DWDDL12X53/64X1/2
27/32"	.8438	9"	1/2"	DWDDL12X27/32X1/2
55/64"	.8594	9"	1/2"	DWDDL12X55/64X1/2
7/8"	.8750	9"	1/2"	DWDDL12X7/8X1/2
57/64"	.8906	9"	1/2"	DWDDL12X57/64X1/2
29/32"	.9063	9"	1/2"	DWDDL12X29/32X1/2
59/64"	.9219	9"	1/2"	DWDDL12X59/64X1/2
15/16"	.9375	9"	1/2"	DWDDL12X15/16X1/2
61/64"	.9531	9"	1/2"	DWDDL12X61/64X1/2
31/32"	.9688	9"	1/2"	DWDDL12X31/32X1/2
63/64"	.9844	9"	1/2"	DWDDL12X63/64X1/2
1"	1.000	9"	1/2"	DWDDL12X1INCHX1/2
1-1/8"	1.125	9"	3/4"	DWDDL12X1-1/8X3/4
1-3/16"	1.187	9"	3/4"	DWDDL12X1-3/16X3/4
1-1/4"	1.250	9"	3/4"	DWDDL12X1-1/4X3/4

1 8 " O . A . L .

**NEW**

DWDDL Series				
Size	Dec. Equiv.	Flute Length	Shank Size	Part Number
17/32"	.5313	13"	1/2"	DWDDL18X17/32X1/2
9/16"	.5625	13"	1/2"	DWDDL18X9/16X1/2
19/32"	.5938	13"	1/2"	DWDDL18X19/32X1/2
5/8"	.6250	13"	1/2"	DWDDL18X5/8X1/2
21/32"	.6563	13"	1/2"	DWDDL18X21/32X1/2
11/16"	.6875	13"	1/2"	DWDDL18X11/16X1/2
23/32"	.7188	13"	1/2"	DWDDL18X23/32X1/2
3/4"	.7500	13"	1/2"	DWDDL18X3/4X1/2
25/32"	.7813	13"	1/2"	DWDDL18X25/32X1/2
13/16"	.8125	13"	1/2"	DWDDL18X13/16X1/2

DWDDL Series				
Size	Dec. Equiv.	Flute Length	Shank Size	Part Number
27/32"	.8438	13"	1/2"	DWDDL18X27/32X1/2
7/8"	.8750	13"	1/2"	DWDDL18X7/8X1/2
29/32"	.9063	13"	1/2"	DWDDL18X29/32X1/2
15/16"	.9375	13"	1/2"	DWDDL18X15/16X1/2
31/32"	.9688	13"	1/2"	DWDDL18X31/32X1/2
1"	1.000	13"	1/2"	DWDDL18X1INCHX1/2
1-1/8"	1.125	13"	3/4"	DWDDL18X1-1/8X3/4
1-3/16"	1.187	13"	3/4"	DWDDL18X1-3/16X3/4
1-1/4"	1.250	13"	3/4"	DWDDL18X1-1/4X3/4

2 4 " O . A . L .

**NEW**

DWDDL Series				
Size	Dec. Equiv.	Flute Length	Shank Size	Part Number
1"	1.000	18"	1/2"	DWDDL24X1INCHX1/2
1-1/8"	1.125	18"	3/4"	DWDDL24X1-1/8X3/4

DWDDL Series				
Size	Dec. Equiv.	Flute Length	Shank Size	Part Number
1-3/16"	1.187	18"	3/4"	DWDDL24X1-3/16X3/4
1-1/4"	1.250	18"	3/4"	DWDDL24X1-1/4X3/4

# DRILL BIT SETS IN ROUND PLASTIC CASE

## PC Series - BIT Cooler Drill Sets

Drill America Bit Cooler Drill Bit Sets come in a rust resistant, water resistant round plastic case. They are available in jobber length sizes in high speed steel and cobalt in 29 piece (fractional) and 25 piece (metric) sets.

Size	Pieces	Description	Part Number
1/16" - 1/2" x 64ths	29	KFD Black & Gold m2 HSS w/135° Split Point Tip	KFD29J-PC
1/16" - 1/2" x 64ths	29	Qualtech M35 Gold Finish Cobalt w/135° Split Point Tip	DWD29J-CO-PC
1/16" - 1/2" x 64ths	29	Drill America M42 Gold Finish Cobalt w/135° Split Point Tip	D/A29J-CO-PC
1/16" - 1/2" x 64ths	29	Drill America HSS Black Oxide w/118° Conventional Tip	D/A29J-PC
1/16" - 1/2" x 64ths	29	Qualtech HSS Black Oxide w/118° Conventional Tip	DWD29J-PC
1/16" - 1/2" x 64ths	29	Cobalt Stepped Point w/135° Split Point and Gold Finish	GSC29J-PC
1/16" - 1/2" x 64ths	29	Drill America HSS Black Oxide w/135° Split Point Tip	D/A29J-SP-PC
1/16" - 1/2" x 64ths	29	Black & Gold Contractor HSS w/135° Split Point Tip and 3-Flat Shank KFD29J-3F-PC	KFD29J-3F-PC
1/16" - 1/2" x 64ths	29	KFD Black & Gold m2 HSS w/135° Split Point Tip and 3/8" Shank KFD29JX3/8-PC	KFD29JX3/8-PC
1mm - 13mm x .5mm	25	KFD Black & Gold m2 HSS w/135° Split Point Tip	KFD4025-PC
1mm - 13mm x .5mm	25	Qualtech M35 Gold Finish Cobalt w/135° Split Point Tip	D/A4025-CO-PC
1mm - 13mm x .5mm	25	Qualtech HSS Black Oxide w/118° Conventional Tip	DWD4025-PC



# DRILL SETS

29 PIECE 1/16" - 1/2" X 64THS

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A29J-SET	Drill America HSS Surface Treated Jobbers
D/A29J-P-SET	Drill America HSS Polished Jobbers
D/A29J-PC	Drill America HSS Surface Treated Jobbers in Plastic Case
DWD29J-SET	Qualtech HSS Surface Treated Jobbers
DWD29J-P-SET	Qualtech HSS Polished Jobbers
DWD29J-PC	Qualtech HSS Surface Treated Jobbers in Plastic Case
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A29J-SP-SET	Drill America Split Point Jobbers
D/A29J-SP-PC	Drill America Split Point Jobbers in Plastic Case
DWD29J-SP-SET	Qualtech Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A29J-CO-SET	Drill America Cobalt Jobbers
D/A29J-CO-PC	Drill America Cobalt Jobbers in Plastic Case
D/A29JX3/8-CO-SET	Drill America Cobalt Jobbers with 3/8 Shank
DWD29J-CO-SET	Qualtech Cobalt Jobbers
DWD29J-CO-PC	Qualtech Cobalt Jobbers in Plastic Case
DWD29JX3/8-CO-SET	Qualtech Cobalt Jobbers with 3/8 Shank
COHEX29-SET	Cobalt Quick Change Drill Bit Set in Plastic Case
GSC29J-PC	Cobalt Stepped Drill Bit Set in Plastic Case
<b>135° Heavy Duty HSS Black and Gold Jobbers Length</b>	
KFD29J-SET	KFD HSS Black and Gold Jobbers
KFD29J-PC	KFD HSS Black and Gold Jobbers in Plastic Case
KFD29J-3F-SET	HSS Contractor Black and Gold Jobbers Set
KFD29J-3F-PC	HSS Contractor Black and Gold Jobbers in Plastic Case
KFD29JX3/8-SET	KFD Black and Gold Jobbers with 3/8 Shank
KFD29JX3/8-PC	KFD Black and Gold Jobbers with 3/8 Shank in Plastic Case
KFDHEX29-PC	HSS KFD Quick Change Black and Gold Jobbers in Plastic Case
<b>135° Heavy Duty Split Point Screw Machine Length</b>	
D/A29S-SET	Drill America HSS Split Point Screw Machine
DWD29S-SET	Qualtech HSS Split Point Screw Machine
D/A29S-CO-SET	Drill America Cobalt Split Point Screw Machine
KFD29S-SET	HSS Contractor Black and Gold Screw Machine
<b>135° Heavy Duty HSS Black and Gold Mechanics Length</b>	
KFD29ML-PC	KFD HSS Black and Gold Mechanics Length in Plastic Case
KFD29ML-SET	KFD HSS Black and Gold Mechanics Length
<b>118° General Purpose 1/4" and 3/8" Reduced Shank</b>	
D/A29JX1/4-SET	Drill America HSS Surface Treated Jobbers with 1/4 Shank
DWD29JX1/4-SET	Qualtech HSS Surface Treated Jobbers with 1/4 Shank
D/A29JX3/8-SET	Drill America HSS Surface Treated Jobbers with 3/8 Shank
DWD29JX3/8-SET	Qualtech HSS Surface Treated Jobbers with 3/8 Shank
<b>118° General Purpose Miscellaneous</b>	
D/A29J-LH-SET	Drill America HSS Left Hand Jobbers
DWD29J-LH-SET	Qualtech HSS Left Hand Jobbers
DWD29J-TN-SET	Qualtech HSS TIN Coated Jobbers
<b>Miscellaneous</b>	
DWD29J-DB-SET	Qualtech Drill Blanks





# DRILL SETS

1 3 P I E C E 1 / 1 6 " - 1 / 4 " X 6 4 T H S

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A13J-SET	Drill America HSS Surface Treated Jobbers
D/A13J-P-SET	Drill America HSS Polished Jobbers
DWD13J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A13J-SP-SET	Drill America HSS Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A13J-CO-SET	Drill America Cobalt Jobbers
DWD13J-CO-SET	Qualtech Cobalt Jobbers
COHEX13-SET	Cobalt Quick Change Hex Shank Drill Bit Set
<b>135° Heavy Duty Split Point HSS Screw Machine Length</b>	
D/A13S-SET	Drill America HSS Split Point Screw Machine
DWD13S-SET	Qualtech HSS Split Point Screw Machine
<b>135° Heavy Duty HSS Black and Gold Jobber and Mechanics Length</b>	
KFD13J-SET	KFD HSS Black and Gold Jobbers
KFD13ML-SET	KFD HSS Black and Gold Mechanical Length
KFDHEX13-PC	HSS KFD Quick Change Black and Gold Jobbers in Plastic Case
<b>118° General Purpose Miscellaneous</b>	
DWD13J-LH-SET	Qualtech HSS Left Hand Jobbers
DWD13J-TN-SET	Qualtech HSS TIN Coated Jobbers

1 5 P I E C E 1 / 1 6 " - 1 / 2 " X 3 2 N D S

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A15J-SET	Drill America HSS Surface Treated Jobbers
D/A15J-P-SET	Drill America HSS Polished Jobbers
DWD15J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A15J-SP-SET	Drill America HSS Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A15J-CO-SET	Drill America Cobalt Jobbers
DWD15J-CO-SET	Qualtech Cobalt Jobbers
COHEX15-SET	Cobalt Quick Change Hex Shank Drill Bit Set
<b>135° Heavy Duty Split Point HSS Screw Machine Length</b>	
D/A15S-SET	Drill America HSS Split Point Screw Machine
DWD15S-SET	Qualtech HSS Split Point Screw Machine
<b>135° Heavy Duty HSS Black and Gold Jobber and Mechanics Length</b>	
KFD15J-SET	KFD HSS Black and Gold Jobbers
KFD15ML-SET	KFD HSS Black and Gold Mechanical Length
KFDHEX15-PC	HSS KFD Quick Change Black and Gold Jobbers in Plastic Case
<b>118° General Purpose Miscellaneous</b>	
DWD15J-LH-SET	Qualtech HSS Left Hand Jobbers
DWD15J-TN-SET	Qualtech HSS TIN Coated Jobbers





# DRILL SETS

2 1 P I E C E 1 / 1 6 " - 3 / 8 " X 6 4 T H S

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A21J-SET	Drill America HSS Surface Treated Jobbers
D/A21J-P-SET	Drill America HSS Polished Jobbers
DWD21J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A21J-SP-SET	Drill America HSS Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A21J-CO-SET	Drill America Cobalt Jobbers
DWD21J-CO-SET	Qualtech Cobalt Jobbers
<b>135° Heavy Duty Split Point HSS Screw Machine Length</b>	
D/A21S-SET	Drill America HSS Split Point Screw Machine
DWD21S-SET	Qualtech HSS Split Point Screw Machine
<b>135° Heavy Duty HSS Black and Gold Jobbers and Mechanics Length</b>	
KFD21J-SET	KFD HSS Black and Gold Jobbers
KFD21ML-SET	KFD HSS Black and Gold Mechanical Length
<b>118° General Purpose Miscellaneous</b>	
DWD21J-LH-SET	Qualtech HSS Left Hand Jobbers
DWD21J-TN-SET	Qualtech HSS TIN Coated Jobbers

6 0 P I E C E # 1 - 6 0 W I R E G A U G E S I Z E S

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A60J-SET	Drill America HSS Surface Treated Jobbers
D/A60J-P-SET	Drill America HSS Polished Jobbers
DWD60J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A60J-SP-SET	Drill America HSS Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A60J-CO-SET	Drill America Cobalt Jobbers
DWD60J-CO-SET	Qualtech Cobalt Jobbers
<b>135° Heavy Duty Split Point Screw Machine Length</b>	
D/A60S-SET	Drill America HSS Split Point Screw Machine
DWD60S-SET	Qualtech HSS Split Point Screw Machine
D/A60S-CO-SET	Drill America Cobalt Split Point Screw Machine
<b>135° Heavy Duty HSS Black and Gold Jobbers Length</b>	
KFD60J-SET	KFD HSS Black and Gold Jobbers
<b>118° HSS Left Hand Jobbers</b>	
DWD60J-LH-SET	Qualtech HSS Left Hand Jobbers
<b>Miscellaneous</b>	
DWD60J-DB-SET	Qualtech Drill Blanks

2 0 P I E C E # 6 1 - 8 0 W I R E G A U G E S I Z E S

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A20J-SET	Drill America HSS Surface Treated Jobbers
DWD20J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A20J-CO-SET	Drill America Cobalt Jobbers

# DRILL SETS

2 6 P I E C E A - Z - L E T T E R S I Z E S

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A26J-SET	Drill America HSS Surface Treated Jobbers
DWD26J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A26J-SP-SET	Drill America HSS Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A26J-CO-SET	Drill America Cobalt Jobbers
DWD26J-CO-SET	Qualtech Cobalt Jobbers
<b>135° Heavy Duty Split Point Screw Machine Length</b>	
D/A26S-SET	Drill America HSS Split Point Screw Machine
D/A26S-CO-SET	Drill America Cobalt Split Point Screw Machine
DWD26S-SET	Qualtech HSS Split Point Screw Machine
<b>135° Heavy Duty HSS Black and Gold Jobbers Length</b>	
KFD26J-SET	KFD HSS Black and Gold Jobbers

1 1 5 P I E C E F R A C , L E T T E R , W I R E G A U G E  
CONTAINS SIZES 1/16" - 1/2" X 64THS, A-Z, #1-#60 COMBINED

Part Number	Description
<b>118° General Purpose HSS Jobbers Length</b>	
D/A115J-SET	Drill America HSS Surface Treated Jobbers
D/A115J-P-SET	Drill America HSS Polished Jobbers
DWD115J-SET	Qualtech HSS Surface Treated Jobbers
<b>135° Heavy Duty Split Point HSS Jobbers Length</b>	
D/A115J-SP-SET	Drill America HSS Split Point Jobbers
<b>135° Heavy Duty Split Point Cobalt Jobbers Length</b>	
D/A115J-CO-SET	Drill America Cobalt Jobbers
DWD115J-CO-SET	Qualtech Cobalt Jobbers
<b>118° HSS TIN Coated Jobbers</b>	
DWD115J-TN-SET	Qualtech HSS TIN Coated Jobbers
<b>135° Heavy Duty HSS Black and Gold Jobbers Length</b>	
KFD115J-SET	KFD HSS Black and Gold Jobbers
<b>Miscellaneous</b>	
DWD115J-DB-SET	Qualtech Drill Blanks



# DRILL SETS

## M E T R I C J O B B E R S

Part Number	Description
DWD4011-SET	Qualtech HSS Surface Treated Jobbers 1 - 6 mm x 0.5 mm 11 Piece
DWD4013-SET	Qualtech HSS Surface Treated Jobbers 1 - 7 mm x 0.5 mm 13 Piece
DWD4019-SET	Qualtech HSS Surface Treated Jobbers 1 - 10 mm x 0.5 mm 19 Piece
D/A4025-SET	Drill America HSS Surface Treated Jobbers 1 - 13 mm x 0.5 mm 25 Piece
DWD4025-SET	Qualtech HSS Surface Treated Jobbers 1 - 13 mm x 0.5 mm 25 Piece
DWD4025-PC	Qualtech HSS Surface Treated Jobbers 1 - 13 mm x 0.5 mm 25 Piece Plastic Case
D/A4025-CO-SET	Drill America Cobalt Jobbers 1 - 13 mm x 0.5 mm 25 Piece
D/A4025-CO-PC	Drill America Cobalt Jobbers 1 - 13 mm x 0.5 mm 25 Piece Plastic Case
KFD4025-SET	KFD HSS Black and Gold Jobbers 1 - 13 mm x 0.5 mm 25 Piece
KFD4025-PC	KFD HSS Black and Gold Jobbers 1 - 13 mm x 0.5 mm 25 Piece Plastic Case

# S&D SETS

5 P I E C E S E T W / 1 / 2 " S H A N K  
C O N T A I N S S I Z E S 9 / 1 6 " , 5 / 8 " , 3 / 4 " , 7 / 8 " , 1 "

Part Number	Description
D/ASWD	Drill America HSS S&D Drills in Metal Case
DWDSWD	Qualtech HSS S&D Drills in Metal Case

8 P I E C E S E T W / 1 / 2 " S H A N K  
9 / 1 6 " - 1 " X 1 6 T H S

Part Number	Description
D/A1008-SET	Drill America HSS S&D Drills in Metal Case
DWD1008-SET	Qualtech HSS S&D Drills in Metal Case
D/A1008-CO-SET	Drill America Cobalt S&D Drills in Metal Case
DWD1008-CO-SET	Qualtech Cobalt S&D Drills in Metal Case
KFD1008-SET	KFD HSS Black and Gold S&D Drills in Metal Case

3 3 P I E C E S E T W / 1 / 2 " S H A N K  
1 / 2 " - 1 " X 6 4 T H S

Part Number	Description
D/A833SD-SET	Drill America HSS S&D Drills in Metal Stand
DWD833SD-SET	Qualtech HSS S&D Drills in Metal Stand
DWD833SD-WOOD	Qualtech HSS S&D Drills in Wood Case
D/A833SD-CO-SET	Drill America Cobalt S&D Drills in Metal Stand
DWD833SD-CO-WOOD	Qualtech Cobalt S&D Drills in Wood Case
DWD833SD-CO-SET	Qualtech Cobalt S&D Drills in Metal Stand
KFD833SD-SET	KFD HSS Black and Gold S&D Drills in Metal Stand
KFD833SD-WOOD	KFD HSS Black and Gold S&D Drills in Wood Case

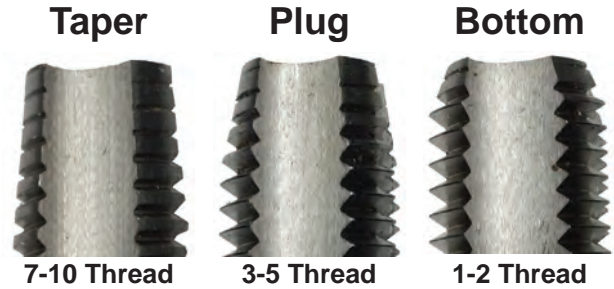
## D R I L L A N D T A P S E T S

Part Number	Description
DWDTD99	18 PIECE TAP AND DRILL BIT SET #6 - 1/2 National Coarse
DWDTD99-NF	18 PIECE TAP AND DRILL BIT SET #6 - 1/2 National Fine
DWDTD4099	18 PIECE TAP AND DRILL BIT SET M2 - M12 National Coarse

# HSS HAND TAPS

## T/A Series - High Speed Hand Taps

Hand Taps are the most versatile taps for hand use. They are also appropriate for tapping the vast majority of materials in through or blind holed conditions. **Taper Style** - Starts the thread square with the workpiece. **Plug Style** - Generally used in thru holes. **Bottom Style** - Generates the thread to the bottom of the hole.



T/A Series			MACHINE AND FRACTIONAL SIZES			
Size	Limit	No. of Flutes	Taper	Plug	Bottom	Set
0-80	H1	2	T/A54025	T/A54026	T/A54027	T/A54028
1-64	H1	2	T/A54055	T/A54056	T/A54057	T/A54058
1-72	H1	2	T/A54060	T/A54061	T/A54062	T/A54063
2-56	H2	3	T/A54089	T/A54090	T/A54091	T/A54092
2-64	H2	3	T/A54093	T/A54094	T/A54095	T/A54096
3-48	H2	3	T/A54115	T/A54116	T/A54117	T/A54118
3-56	H2	3	T/A54120	T/A54121	T/A54122	T/A54123
4-36	H2	3	T/A54139	T/A54140	T/A54141	T/A54137
4-40	H2	3	T/A54149	T/A54150	T/A54151	T/A54152
4-48	H2	3	T/A54153	T/A54154	T/A54155	T/A54156
5-40	H2	3	T/A54188	T/A54189	T/A54190	T/A54191
5-44	H2	3	T/A54192	T/A54193	T/A54194	T/A54195
6-32	H3	3	T/A54223	T/A54224	T/A54225	T/A54226
6-40	H2	3	T/A54232	T/A54233	T/A54234	T/A54235
8-32	H3	4	T/A54277	T/A54278	T/A54279	T/A54280
8-36	H2	4	T/A54289	T/A54290	T/A54291	T/A54292
10-24	H3	4	T/A54329	T/A54330	T/A54331	T/A54332
10-32	H3	4	T/A54356	T/A54357	T/A54358	T/A54359
12-24	H3	4	T/A54385	T/A54386	T/A54387	T/A54388
12-28	H3	4	T/A54389	T/A54390	T/A54391	T/A54392
1/4"-20	H3	4	T/A54453	T/A54454	T/A54455	T/A54460
1/4"-28	H3	4	T/A54469	T/A54470	T/A54471	T/A54476
5/16"-18	H3	4	T/A54504	T/A54505	T/A54506	T/A54511
5/16"-24	H3	4	T/A54518	T/A54519	T/A54520	T/A54523
3/8"-16	H3	4	T/A54582	T/A54583	T/A54584	T/A54587
3/8"-24	H3	4	T/A54595	T/A54596	T/A54597	T/A54600
7/16"-14	H3	4	T/A54652	T/A54653	T/A54654	T/A54656
7/16"-20	H3	4	T/A54661	T/A54662	T/A54663	T/A54665
1/2"-13	H3	4	T/A54726	T/A54727	T/A54728	T/A54731
1/2"-20	H3	4	T/A54737	T/A54738	T/A54739	T/A54741
9/16"-12	H3	4	T/A54759	T/A54760	T/A54761	T/A54762
9/16"-18	H3	4	T/A54765	T/A54766	T/A54767	T/A54768
5/8"-11	H3	4	T/A54779	T/A54780	T/A54781	T/A54782
5/8"-18	H3	4	T/A54787	T/A54788	T/A54789	T/A54790
11/16"-11	H3	4	T/A54813	T/A54814	T/A54815	T/A54816
11/16"-16	H3	4	T/A54817	T/A54818	T/A54819	T/A54820
3/4"-10	H3	4	T/A54838	T/A54839	T/A54840	T/A54841
3/4"-16	H3	4	T/A54846	T/A54847	T/A54848	T/A54849
7/8"-9	H4	4	T/A54884	T/A54885	T/A54886	T/A54887
7/8"-14	H4	4	T/A54890	T/A54891	T/A54892	T/A54893
1"-8	H4	4	T/A54923	T/A54924	T/A54925	T/A54926
1"-12	H4	4	T/A54928	T/A54929	T/A54930	T/A54931
1"-14	H4	4	T/A54933	T/A54934	T/A54935	T/A54936
1-1/8"-7	H4	4	T/A54965	T/A54966	T/A54967	T/A54944
1-1/8"-12	H4	4	T/A54971	T/A54972	T/A54973	T/A54937
1-1/4"-7	H4	4	T/A54994	T/A54995	T/A54996	T/A54938
1-1/4"-12	H4	6	T/A55000	T/A55001	T/A55002	T/A54939
1-3/8"-6	H4	4	T/A55027	T/A55028	T/A55029	T/A54940
1-3/8"-12	H4	6	T/A55030	T/A55031	T/A55032	T/A54941
1-1/2"-6	H4	4	T/A55057	T/A55058	T/A55059	T/A54942
1-1/2"-12	H4	6	T/A55063	T/A55064	T/A55065	T/A54943

# HSS HAND TAPS

## DWT Series - High Speed Hand Taps



### Taper



7-10 Thread

### Plug



3-5 Thread

### Bottom



1-2 Thread

## DWT Series

Size	No. of Flutes	Taper	Plug	Bottom	Set
0-80	2	DWT54025	DWT54026	DWT54027	DWT54028
1-64	2	DWT54055	DWT54056	DWT54057	DWT54058
1-72	2	DWT54060	DWT54061	DWT54062	DWT54063
2-56	3	DWT54089	DWT54090	DWT54091	DWT54092
2-64	3	DWT54093	DWT54094	DWT54095	DWT54096
3-48	3	DWT54115	DWT54116	DWT54117	DWT54118
3-56	3	DWT54120	DWT54121	DWT54122	DWT54123
4-36	3	DWT54139	DWT54140	DWT54141	DWT54137
4-40	3	DWT54149	DWT54150	DWT54151	DWT54152
4-48	3	DWT54153	DWT54154	DWT54155	DWT54156
5-40	3	DWT54188	DWT54189	DWT54190	DWT54191
5-44	3	DWT54192	DWT54193	DWT54194	DWT54195
6-32	3	DWT54223	DWT54224	DWT54225	DWT54226
6-40	3	DWT54232	DWT54233	DWT54234	DWT54235
8-32	4	DWT54277	DWT54278	DWT54279	DWT54280
8-36	4	DWT54289	DWT54290	DWT54291	DWT54292
10-24	4	DWT54329	DWT54330	DWT54331	DWT54332
10-32	4	DWT54356	DWT54357	DWT54358	DWT54359
12-24	4	DWT54385	DWT54386	DWT54387	DWT54388
12-28	4	DWT54389	DWT54390	DWT54391	DWT54392
14-20	4	DWT54393	DWT54394	DWT54395	DWT54396
14-24	4	DWT54397	DWT54398	DWT54399	DWT54400
1/4"-20	4	DWT54453	DWT54454	DWT54455	DWT54460
1/4"-28	4	DWT54469	DWT54470	DWT54471	DWT54476
5/16"-18	4	DWT54504	DWT54505	DWT54506	DWT54511
5/16"-24	4	DWT54518	DWT54519	DWT54520	DWT54523
3/8"-16	4	DWT54582	DWT54583	DWT54584	DWT54587
3/8"-24	4	DWT54595	DWT54596	DWT54597	DWT54600
7/16"-14	4	DWT54652	DWT54653	DWT54654	DWT54656
7/16"-20	4	DWT54661	DWT54662	DWT54663	DWT54665
1/2"-13	4	DWT54726	DWT54727	DWT54728	DWT54731
1/2"-20	4	DWT54737	DWT54738	DWT54739	DWT54741
9/16"-12	4	DWT54759	DWT54760	DWT54761	DWT54762
9/16"-18	4	DWT54765	DWT54766	DWT54767	DWT54768
5/8"-11	4	DWT54779	DWT54780	DWT54781	DWT54782
5/8"-18	4	DWT54787	DWT54788	DWT54789	DWT54790
11/16"-11	4	DWT54813	DWT54814	DWT54815	DWT54816
11/16"-16	4	DWT54817	DWT54818	DWT54819	DWT54820
3/4"-10	4	DWT54838	DWT54839	DWT54840	DWT54841
3/4"-16	4	DWT54846	DWT54847	DWT54848	DWT54849
7/8"-9	4	DWT54884	DWT54885	DWT54886	DWT54887
7/8"-14	4	DWT54890	DWT54891	DWT54892	DWT54893
1"-8	4	DWT54923	DWT54924	DWT54925	DWT54926
1"-12	4	DWT54928	DWT54929	DWT54930	DWT54931
1"-14	4	DWT54933	DWT54934	DWT54935	DWT54936
1-1/8"-7	4	DWT54965	DWT54966	DWT54967	DWT54944
1-1/8"-12	4	DWT54971	DWT54972	DWT54973	DWT54937
1-1/4"-7	4	DWT54994	DWT54995	DWT54996	DWT54938
1-1/4"-12	6	DWT55000	DWT55001	DWT55002	DWT54939
1-3/8"-6	4	DWT55027	DWT55028	DWT55029	DWT54940
1-3/8"-12	6	DWT55030	DWT55031	DWT55032	DWT54941
1-1/2"-6	4	DWT55057	DWT55058	DWT55059	DWT54942
1-1/2"-12	6	DWT55063	DWT55064	DWT55065	DWT54943



# HSS HAND TAPS

DWT Series - High Speed Plug Taps (Additional Sizes/Taper & Bottoming Available - POA)



## DWT Series

## SPECIAL SIZES

Size	Part Number
4-32	DWTST4-32P
5-36	DWTST5-36P
6-36	DWTST6-36P
6-48	DWTST6-48P
8-30	DWTST8-30P
8-40	DWTST8-40P
8-48	DWTST8-48P
10-28	DWTST10-28P
10-36	DWTST10-36P
10-40	DWTST10-40P
12-32	DWTST12-32P
12-40	DWTST12-40P
5/32"-32	DWTST5/32-32P
3/16"-24	DWTST3/16-24P
3/16"-32	DWTST3/16-32P
7/32"-32	DWTST7/32-32P
1/4"-24	DWTST1/4-24P
1/4"-27	DWTST1/4-27P
1/4"-32	DWTST1/4-32P
1/4"-36	DWTST1/4-36P
1/4"-40	DWTST1/4-40P
1/4"-48	DWTST1/4-48P
9/32"-32	DWTST9/32-32P
9/32"-40	DWTST9/32-40P
5/16"-16	DWTST5/16-16P
5/16"-20	DWTST5/16-20P
5/16"-27	DWTST5/16-27P
5/16"-28	DWTST5/16-28P
5/16"-30	DWTST5/16-30P
5/16"-32	DWTST5/16-32P
5/16"-36	DWTST5/16-36P
5/16"-40	DWTST5/16-40P
5/16"-48	DWTST5/16-48P
11/32"-32	DWTST11/32-32P
3/8"-20	DWTST3/8-20P
3/8"-27	DWTST3/8-27P
3/8"-28	DWTST3/8-28P
3/8"-30	DWTST3/8-30P
3/8"-32	DWTST3/8-32P
3/8"-36	DWTST3/8-36P
3/8"-40	DWTST3/8-40P
3/8"-48	DWTST3/8-48P
7/16"-16	DWTST7/16-16P
7/16"-18	DWTST7/16-18P
7/16"-24	DWTST7/16-24P
7/16"-27	DWTST7/16-27P
7/16"-28	DWTST7/16-28P

Size	Part Number
7/16"-32	DWTST7/16-32P
7/16"-40	DWTST7/16-40P
15/32"-32	DWTST15/32-32P
1/2"-12	DWTST1/2-12P
1/2"-14	DWTST1/2-14P
1/2"-16	DWTST1/2-16P
1/2"-18	DWTST1/2-18P
1/2"-24	DWTST1/2-24P
1/2"-27	DWTST1/2-27P
1/2"-28	DWTST1/2-28P
1/2"-32	DWTST1/2-32P
1/2"-36	DWTST1/2-36P
9/16"-16	DWTST9/16-16P
9/16"-20	DWTST9/16-20P
9/16"-24	DWTST9/16-24P
9/16"-27	DWTST9/16-27P
9/16"-28	DWTST9/16-28P
9/16"-32	DWTST9/16-32P
9/16"-40	DWTST9/16-40P
37/64"-28	DWTST37/64-28P
5/8"-12	DWTST5/8-12P
5/8"-16	DWTST5/8-16P
5/8"-20	DWTST5/8-20P
5/8"-24	DWTST5/8-24P
5/8"-27	DWTST5/8-27P
5/8"-28	DWTST5/8-28P
5/8"-32	DWTST5/8-32P
11/16"-18	DWTST11/16-18P
11/16"-20	DWTST11/16-20P
11/16"-24	DWTST11/16-24P
3/4"-12	DWTST3/4-12P
3/4"-20	DWTST3/4-20P
3/4"-24	DWTST3/4-24P
3/4"-28	DWTST3/4-28P
3/4"-32	DWTST3/4-32P
13/16"-16	DWTST13/16-16P
13/16"-18	DWTST13/16-18P
13/16"-20	DWTST13/16-20P
13/16"-32	DWTST13/16-32P
7/8"-12	DWTST7/8-12P
7/8"-16	DWTST7/8-16P
7/8"-18	DWTST7/8-18P
7/8"-20	DWTST7/8-20P
7/8"-24	DWTST7/8-24P
7/8"-27	DWTST7/8-27P
7/8"-28	DWTST7/8-28P
7/8"-32	DWTST7/8-32P

Size	Part Number
15/16"-16	DWTST15/16-16P
15/16"-20	DWTST15/16-20P
1"-16	DWTST1-16P
1"-18	DWTST1-18P
1"-20	DWTST1-20P
1"-24	DWTST1-24P
1"-28	DWTST1-28P
1"-32	DWTST1-32P
1-1/16"-16	DWTST1-1/16-16P
1-1/16"-18	DWTST1-1/16-18P
1-1/8"-16	DWTST1-1/8-16P
1-1/8"-18	DWTST1-1/8-18P
1-1/8"-20	DWTST1-1/8-20P
1-3/16"-12	DWTST1-3/16-12P
1-3/16"-16	DWTST1-3/16-16P
1-3/16"-24	DWTST1-3/16-24P
1-1/4"-18	DWTST1-1/4-18P
1-1/4"-24	DWTST1-1/4-24P
1-1/4"-27	DWTST1-1/4-27P
1-1/4"-32	DWTST1-1/4-32P
1-5/16"-12	DWTST1-5/16-12P
1-3/8"-14	DWTST1-3/8-14P
1-3/8"-16	DWTST1-3/8-16P
1-3/8"-18	DWTST1-3/8-18P
1-1/2"-16	DWTST1-1/2-16P
1-1/2"-18	DWTST1-1/2-18P
1-5/8"-10	DWTST1-5/8-10P
1-5/8"-12	DWTST1-5/8-12P
1-3/4"-5	DWTST1-3/4-5P
1-3/4"-12	DWTST1-3/4-12P
1-3/4"-16	DWTST1-3/4-16P
1-3/4"-18	DWTST1-3/4-18P
1-3/4"-20	DWTST1-3/4-20P
2"-4 -1/2	DWTST2-4-1/2P
2"-12	DWTST2-12P
2-1/8"-12	DWTST2-1/8-12P
2-1/8"-16	DWTST2-1/8-16P
2-1/4"-12	DWTST2-1/4-12P
2-1/4"-16	DWTST2-1/4-16P
2-1/4"-18	DWTST2-1/4-18P
2-3/8"-12	DWTST2-3/8-12P
2-3/8"-16	DWTST2-3/8-16P
2-1/2"-4	DWTST2-1/2-4P
2-1/2"-12	DWTST2-1/2-12P
2-3/4"-12	DWTST2-3/4-12P
2-7/8"-12	DWTST2-7/8-12P
3"-12	DWTST3-12P

## 8 PITCH SIZES

Size	Part Number
1-1/16"-8	DWTST1-1/16-8P
1-1/8"-8	DWTST1-1/8-8P
1-3/16"-8	DWTST1-3/16-8P
1-1/4"-8	DWTST1-1/4-8P
1-5/16"-8	DWTST1-5/16-8P
1-3/8"-8	DWTST1-3/8-8P
1-7/16"-8	DWTST1-7/16-8P
1-1/2"-8	DWTST1-1/2-8P
1-5/8"-8	DWTST1-5/8-8P
1-3/4"-8	DWTST1-3/4-8P

Size	Part Number
1-7/8"-8	DWTST1-7/8-8P
2"-8	DWTST2-8P
2-1/8"-8	DWTST2-1/8-8P
2-1/4"-8	DWTST2-1/4-8P
2-3/8"-8	DWTST2-3/8-8P
2-1/2"-8	DWTST2-1/2-8P
2-5/8"-8	DWTST2-5/8-8P
2-3/4"-8	DWTST2-3/4-8P
2-7/8"-8	DWTST2-7/8-8P
3"-8	DWTST3-8P

Size	Part Number
3-1/8"-8	DWTST3-1/8-8P
3-1/4"-8	DWTST3-1/4-8P
3-3/8"-8	DWTST3-3/8-8P
3-1/2"-8	DWTST3-1/2-8P
3-5/8"-8	DWTST3-5/8-8P
3-3/4"-8	DWTST3-3/4-8P
3-7/8"-8	DWTST3-7/8-8P
4"-8	DWTST4-8P

# HSS METRIC HAND TAPS

## DWT Series - High Speed Metric Hand Taps



### DWT Series

Size	No. of Flutes	Taper	Plug	Bottom	Set
1.6x0.35	2	DWTT1.6X.35	DWTP1.6X.35	DWTB1.6X.35	DWTS1.6X.35
1.8x0.35	2	DWTT1.8X.35	DWTP1.8X.35	DWTB1.8X.35	DWTS1.8X.35
2x0.4	3	DWTT2X.4	DWTP2X.4	DWTB2X.4	DWTS2X.4
2.2x0.45	3	DWTT2.2X.45	DWTP2.2X.45	DWTB2.2X.45	DWTS2.2X.45
2.5x0.45	3	DWTT2.5X.45	DWTP2.5X.45	DWTB2.5X.45	DWTS2.5X.45
3x0.5	3	DWTT3X.5	DWTP3X.5	DWTB3X.5	DWTS3X.5
3.5x0.6	3	DWTT3.5X.6	DWTP3.5X.6	DWTB3.5X.6	DWTS3.5X.6
4x0.7	4	DWTT4X.7	DWTP4X.7	DWTB4X.7	DWTS4X.7
4.5x0.75	4	DWTT4.5X.75	DWTP4.5X.75	DWTB4.5X.75	DWTS4.5X.75
5x0.8	4	DWTT5X.8	DWTP5X.8	DWTB5X.8	DWTS5X.8
6x1	4	DWTT6X1	DWTP6X1	DWTB6X1	DWTS6X1
7x1	4	DWTT7X1	DWTP7X1	DWTB7X1	DWTS7X1
8x1	4	DWTT8X1	DWTP8X1	DWTB8X1	DWTS8X1
8x1.25	4	DWTT8X1.25	DWTP8X1.25	DWTB8X1.25	DWTS8X1.25
10x1.25	4	DWTT10X1.25	DWTP10X1.25	DWTB10X1.25	DWTS10X1.25
10x1.5	4	DWTT10X1.5	DWTP10X1.5	DWTB10X1.5	DWTS10X1.5
12x1.25	4	DWTT12X1.25	DWTP12X1.25	DWTB12X1.25	DWTS12X1.25
12x1.75	4	DWTT12X1.75	DWTP12X1.75	DWTB12X1.75	DWTS12X1.75
14x1.25	4	DWTT14X1.25	DWTP14X1.25	DWTB14X1.25	DWTS14X1.25
14x1.5	4	DWTT14X1.5	DWTP14X1.5	DWTB14X1.5	DWTS14X1.5
14x2	4	DWTT14X2	DWTP14X2	DWTB14X2	DWTS14X2
16x1.5	4	DWTT16X1.5	DWTP16X1.5	DWTB16X1.5	DWTS16X1.5
16x2	4	DWTT16X2	DWTP16X2	DWTB16X2	DWTS16X2
18x1.5	4	DWTT18X1.5	DWTP18X1.5	DWTB18X1.5	DWTS18X1.5
18x2.5	4	DWTT18X2.5	DWTP18X2.5	DWTB18X2.5	DWTS18X2.5
20x1.5	4	DWTT20X1.5	DWTP20X1.5	DWTB20X1.5	DWTS20X1.5
20x2.5	4	DWTT20X2.5	DWTP20X2.5	DWTB20X2.5	DWTS20X2.5
22x1.5	4	DWTT22X1.5	DWTP22X1.5	DWTB22X1.5	DWTS22X1.5
22x2.5	4	DWTT22X2.5	DWTP22X2.5	DWTB22X2.5	DWTS22X2.5
24x2	4	DWTT24X2	DWTP24X2	DWTB24X2	DWTS24X2
24x3	4	DWTT24X3	DWTP24X3	DWTB24X3	DWTS24X3
27x2	4	DWTT27X2	DWTP27X2	DWTB27X2	DWTS27X2
27x3	4	DWTT27X3	DWTP27X3	DWTB27X3	DWTS27X3
30x2	4	DWTT30X2	DWTP30X2	DWTB30X2	DWTS30X2
30x3.5	4	DWTT30X3.5	DWTP30X3.5	DWTB30X3.5	DWTS30X3.5
33x2	4	DWTT33X2	DWTP33X2	DWTB33X2	DWTS33X2
33x3.5	4	DWTT33X3.5	DWTP33X3.5	DWTB33X3.5	DWTS33X3.5
36x3	4	DWTT36X3	DWTP36X3	DWTB36X3	DWTS36X3
36x4	4	DWTT36X4	DWTP36X4	DWTB36X4	DWTS36X4
39x3	6	DWTT39X3	DWTP39X3	DWTB39X3	DWTS39X3
39x4	6	DWTT39X4	DWTP39X4	DWTB39X4	DWTS39X4

### T/A Series

## T/A Series - High Speed Metric Hand Taps

Size	No. of Flutes	Taper	Plug	Bottom	Set
3x.5	3	T/AT3X.5	T/AP3X.5	T/AB3X.5	T/AS3X.5
4x.7	4	T/AT4X.7	T/AP4X.7	T/AB4X.7	T/AS4X.7
5x.8	4	T/AT5X.8	T/AP5X.8	T/AB5X.8	T/AS5X.8
6x1	4	T/AT6X1	T/AP6X1	T/AB6X1	T/AS6X1
7x1	4	T/AT7X1	T/AP7X1	T/AB7X1	T/AS7X1
8x1.25	4	T/AT8X1.25	T/AP8X1.25	T/AB8X1.25	T/AS8X1.25
10x1.5	4	T/AT10X1.5	T/AP10X1.5	T/AB10X1.5	T/AS10X1.5
12x1.75	4	T/AT12X1.75	T/AP12X1.75	T/AB12X1.75	T/AS12X1.75
14x2	4	T/AT14X2	T/AP14X2	T/AB14X2	T/AS14X2
16x2	4	T/AT16X2	T/AP16X2	T/AB16X2	T/AS16X2
18x2.5	4	T/AT18X2.5	T/AP18X2.5	T/AB18X2.5	T/AS18X2.5
20x2.5	4	T/AT20X2.5	T/AP20X2.5	T/AB20X2.5	T/AS20X2.5
24x3	4	T/AT24X3	T/AP24X3	T/AB24X3	T/AS24X3

# HSS METRIC HAND TAPS

DWT Series - High Speed Metric Taps (Additional Sizes Available - POA)

## DWT Series

## SPECIAL METRIC SIZES



Size	Part Number	Size	Part Number	Size	Part Number
1x.20	DWTSMT1X.2	12x.50	DWTSMT12X.5	22x1	DWTSMT22X1
1x.25	DWTSMT1X.25	12x.75	DWTSMT12X.75	22x1.25	DWTSMT22X1.25
1.2x.20	DWTSMT1.2X.2	12x1	DWTSMT12X1	22x1.75	DWTSMT22X1.75
1.2x.25	DWTSMT1.2X.25	12x1.50	DWTSMT12X1.5	22x2	DWTSMT22X2
1.4x.20	DWTSMT1.4X.2	12x2	DWTSMT12X2	23x1	DWTSMT23X1
1.4x.30	DWTSMT1.4X.3	13x.50	DWTSMT13X.5	23x1.50	DWTSMT23X1.5
1.5x.35	DWTSMT1.5X.35	13x1	DWTSMT13X1	23x2	DWTSMT23X2
1.6x.20	DWTSMT1.6X.2	13x1.25	DWTSMT13X1.25	23x2.50	DWTSMT23X2.5
1.7x.20	DWTSMT1.7X.2	13x1.50	DWTSMT13X1.5	24x1	DWTSMT24X1
1.7x.35	DWTSMT1.7X.35	13x2	DWTSMT13X2	24x1.25	DWTSMT24X1.25
1.8x.20	DWTSMT1.8X.2	14x.50	DWTSMT14X.5	24x1.50	DWTSMT24X1.5
2x.20	DWTSMT2X.2	14x.75	DWTSMT14X.75	24x2.50	DWTSMT24X2.5
2x.25	DWTSMT2X.25	14x1	DWTSMT14X1	25x1	DWTSMT25X1
2x.45	DWTSMT2X.45	14x1.75	DWTSMT14X1.75	25x1.25	DWTSMT25X1.25
2.3x.40	DWTSMT2.3X.4	15x.50	DWTSMT15X.5	25x1.50	DWTSMT25X1.5
2.5x.50	DWTSMT2.5X.5	15x1	DWTSMT15X1	25x3	DWTSMT25X3
2.6x.35	DWTSMT2.6X.35	15x1.25	DWTSMT15X1.25	26x1.50	DWTSMT26X1.5
2.6x.45	DWTSMT2.6X.45	15x1.50	DWTSMT15X1.5	26x2	DWTSMT26X2
3x.35	DWTSMT3X.35	15x2	DWTSMT15X2	26x2.50	DWTSMT26X2.5
3x.60	DWTSMT3X.6	16x.50	DWTSMT16X.5	26x3	DWTSMT26X3
3.5x.50	DWTSMT3.5X.5	16x.75	DWTSMT16X.75	27x1	DWTSMT27X1
4x.50	DWTSMT4X.5	16x1	DWTSMT16X1	27x1.25	DWTSMT27X1.25
4x.75	DWTSMT4X.75	16x1.25	DWTSMT16X1.25	27x1.50	DWTSMT27X1.5
4.5x.50	DWTSMT4.5X.5	16x1.75	DWTSMT16X1.75	27x2.50	DWTSMT27X2.5
5x.50	DWTSMT5X.5	16x2.50	DWTSMT16X2.5	28x1	DWTSMT28X1
5x.70	DWTSMT5X.7	17x.50	DWTSMT17X.5	28x1.50	DWTSMT28X1.5
5x.75	DWTSMT5X.75	17x1	DWTSMT17X1	28x2	DWTSMT28X2
5x.90	DWTSMT5X.9	17x1.50	DWTSMT17X1.5	28x2.50	DWTSMT28X2.5
5x1	DWTSMT5X1	17x1.75	DWTSMT17X1.75	28x3	DWTSMT28X3
5.5x.90	DWTSMT5.5X.9	17x2	DWTSMT17X2	30x1	DWTSMT30X1
6x.50	DWTSMT6X.5	18x.50	DWTSMT18X.5	30x1.25	DWTSMT30X1.25
6x.75	DWTSMT6X.75	18x.75	DWTSMT18X.75	30x1.50	DWTSMT30X1.5
6x1.25	DWTSMT6X1.25	18x1	DWTSMT18X1	30x2.50	DWTSMT30X2.5
6.3x1	DWTSMT6.3X1	18x1.25	DWTSMT18X1.25	30x3	DWTSMT30X3
7x.50	DWTSMT7X.5	18x1.75	DWTSMT18X1.75	32x1.50	DWTSMT32X1.5
7x.75	DWTSMT7X.75	18x2	DWTSMT18X2	32x2.50	DWTSMT32X2.5
7x1.25	DWTSMT7X1.25	19x1	DWTSMT19X1	33x1	DWTSMT33X1
8x.50	DWTSMT8X.5	19x1.50	DWTSMT19X1.5	33x1.50	DWTSMT33X1.5
8x.75	DWTSMT8X.75	19x1.75	DWTSMT19X1.75	33x3	DWTSMT33X3
8x1.50	DWTSMT8X1.5	19x2.50	DWTSMT19X2.5	34x1.50	DWTSMT34X1.5
9x.75	DWTSMT9X.75	20x.50	DWTSMT20X.5	35x3	DWTSMT35X3
9x1	DWTSMT9X1	20x.75	DWTSMT20X.75	36x1.50	DWTSMT36X1.5
9x1.25	DWTSMT9X1.25	20x1	DWTSMT20X1	38x1.50	DWTSMT38X1.5
9x1.50	DWTSMT9X1.5	20x1.25	DWTSMT20X1.25	38x3	DWTSMT38X3
10x.50	DWTSMT10X.5	20x1.75	DWTSMT20X1.75	38x4	DWTSMT38X4
10x.75	DWTSMT10X.75	20x2	DWTSMT20X2	39x1.50	DWTSMT39X1.5
10x1	DWTSMT10X1	21x1	DWTSMT21X1	40x4	DWTSMT40X4
10x1.75	DWTSMT10X1.75	21x1.25	DWTSMT21X1.25	42x1.50	DWTSMT42X1.5
11x.50	DWTSMT11X.5	21x1.50	DWTSMT21X1.5	42x3	DWTSMT42X3
11x.75	DWTSMT11X.75	21x1.75	DWTSMT21X1.75	45x1.50	DWTSMT45X1.5
11x1	DWTSMT11X1	21x2	DWTSMT21X2	45x4.50	DWTSMT45X4.5
11x1.25	DWTSMT11X1.25	21x2.50	DWTSMT21X2.5	46x4.50	DWTSMT46X4.5
11x1.50	DWTSMT11X1.5	22x.50	DWTSMT22X.5	48x5	DWTSMT48X5
11x1.75	DWTSMT11X1.75	22x.75	DWTSMT22X.75		

# HAND TAP AND DRILL SETS IN POUCH

## POU Series Hand Tap and Drill Set

Each set comes with one DWT high speed steel tap (plug style) and matching DWDN high speed steel black oxide drill bit in a plastic pouch. Sets with a drill bit over 1/2" come with a DWDRSD reduced shank drill bit with a 1/2" shank.

### POU Series

Part Number	HSS Plug Tap	HSS Drill
POU0-80	#0-80	3-64"
POU1-64	#1-64	#53
POU1-72	#1-72	#53
POU2-56	#2-56	#51
POU2-64	#2-64	#50
POU3-48	#3-48	#47
POU3-56	#3-56	#45
POU4-36	#4-36	#44
POU4-40	#4-40	#43
POU4-48	#4-48	#42
POU5-40	#5-40	#38
POU5-44	#5-44	#37
POU6-32	#6-32	#36
POU6-40	#6-40	#33
POU8-32	#8-32	#29
POU10-24	#10-24	#25
POU10-32	#10-32	#21
POU12-24	#12-24	#16
POU1/4-20	1/4"-20	#7
POU1/4-28	1/4"-28	#3
POU5/16-18	5/16"-18	"F"
POU5/16-24	5/16"-24	"I"
POU3/8-16	3/8"-16	5/16"
POU3/8-24	3/8"-24	"Q"
POU7/16-14	7/16"-14	"U"
POU7/16-20	7/16"-20	25/64"
POU1/2-13	1/2"-13	27/64"
POU1/2-20	1/2"-20	29/64"
POU9/16-12	9/16"-12	31/64"
POU9/16-18	9/16"-18	33/64" X 1/2" Shank
POU5/8-11	5/8"-11	17/32" X 1/2" Shank
POU5/8-18	5/8"-18	37/64" X 1/2" Shank
POU11/16-11	11/16"-11	19/32" X 1/2" Shank
POU11/16-16	11/16"-16	5/8" X 1/2" Shank
POU3/4-10	3/4"-10	21/32" X 1/2" Shank
POU3/4-16	3/4"-16	11/16" X 1/2" Shank
POU7/8-9	7/8"-9	49/64" X 1/2" Shank
POU7/8-14	7/8"-14	13/16" X 1/2" Shank
POU1-8	1"-8	7/8" X 1/2" Shank
POU1-12	1"-12	59/64" X 1/2" Shank
POU1-14	1"-14	15/16" X 1/2" Shank
POU1-1/8-7	1-1/8"-7	63/64" X 1/2" Shank
POU1-1/8-12	1-1/8"-12	1-3/64" X 1/2" Shank
POU1-1/4-7	1-1/4"-7	1-7/64" X 1/2" Shank
POU1-1/4-12	1-1/4"-12	1-11/64" X 1/2" Shank
POU1-3/8-6	1-3/8"-6	1-7/32" X 1/2" Shank
POU1-3/8-12	1-3/8"-12	1-19/64" X 1/2" Shank
POU1-1/2-6	1-1/2"-6	1-11/32" X 1/2" Shank
POU1-1/2-12	1-1/2"-12	1-27/64" X 1/2" Shank





# METRIC HAND TAP AND DRILL SETS IN POUCH

## POU Series Hand Tap and Drill Set

Each set comes with one DWT high speed steel tap (plug style) and matching DWDN high speed steel black oxide drill bit in a plastic pouch. Sets with a drill bit over 1/2" come with a DWDRSD reduced shank drill bit with a 1/2" shank.

POU Series		
Part Number	HSS Plug Tap	HSS Drill
POUM1.6X.35	m1.6x.35	1.25 mm
POUM1.8X.35	m1.8x.35	1.45 mm
POUM2X.4	m2x.4	1.60 mm
POUM2.2X.45	m2.2x.45	1.75 mm
POUM2.5X.45	m2.5x.45	2.05 mm
POUM3X.5	m3x.5	2.50 mm
POUM3.5X.6	m3.5x.6	2.90 mm
POUM4X.7	m4x.7	3.30 mm
POUM4.5X.75	m4.5x.75	3.75 mm
POUM5X.8	m5x.8	4.20 mm
POUM6X1	m6x1	5.00 mm
POUM7X1	m7x1	6.00 mm
POUM8X1	m8x1	7.00 mm
POUM8X1.25	m8x1.25	6.75 mm
POUM10X1.25	m10x1.25	8.75 mm
POUM10X1.5	m10x1.5	8.50 mm
POUM12X1.25	m12x1.25	10.75 mm
POUM12X1.75	m12x1.75	10.25 mm
POUM14X1.5	m14x1.5	12.50 mm
POUM14X2	m14x2	12.00 mm
POUM16X1.5	m16x1.5	14.50 mm x 1/2" Shank
POUM16X2	m16x2	14.00 mm x 1/2" Shank
POUM18X1.5	m18x1.5	16.50 mm x 1/2" Shank
POUM18X2.5	m18x2.5	15.50 mm x 1/2" Shank
POUM20X1.5	m20x1.5	18.50 mm x 1/2" Shank
POUM20X2.5	m20x2.5	17.50 mm x 1/2" Shank
POUM22X1.5	m22x1.5	20.50 mm x 1/2" Shank
POUM22X2.5	m22x2.5	19.50 mm x 1/2" Shank
POUM24X2	m24x2	22.00 mm x 1/2" Shank
POUM24X3	m24x3	21.00 mm x 1/2" Shank
POUM27X2	m27x2	25.00 mm x 1/2" Shank
POUM27X3	m27x3	24.00 mm x 1/2" Shank
POUM30X2	m30x2	28.00 mm x 1/2" Shank
POUM30X3.5	m30x3.5	26.50 mm x 1/2" Shank
POUM33X2	m33x2	31.00 mm x 1/2" Shank
POUM33X3.5	m33x3.5	29.50 mm x 1/2" Shank
POUM36X3	m36x3	33.00 mm x 1/2" Shank
POUM36X4	m36x4	32.00 mm x 1/2" Shank





# HSS SPIRAL POINTED TAPS

## DWT Series - High Speed Gun Taps

Spiral-Pointed taps, or Machine Taps, were originated to solve the problem of tap breakage in through hole tapping. The Machine Tap shoots chips ahead of the cutting action, thus reducing loading and clogging in the flutes. They are recommended for use in through or blind holes which allow for chip accumulation in the bottom of the hole. Ideal for threading a wide variety of ductile materials, copper and copper alloys, brass and non-metallics.

DWT Series		
Size	No. of Flutes	Part Number
0-80	2	DWT57009
1-64	2	DWT57021
1-72	2	DWT57023
2-56	2	DWT57031
2-64	2	DWT57033
3-48	2	DWT57038
3-56	2	DWT57041
4-36	2	DWT57046
4-40	2	DWT57048
4-48	2	DWT57051
5-40	2	DWT57062
5-44	2	DWT57064
6-32	2	DWT57072
6-40	2	DWT57076
8-32	2	DWT57085
8-36	2	DWT57089
10-24	2	DWT57097
10-32	2	DWT57104
12-24	2	DWT57112
12-28	2	DWT57114
14-24	2	DWT57115
1/4"-20	2	DWT57129

Size	No. of Flutes	Part Number
1/4"-28	2	DWT57139
5/16"-18	2	DWT57151
5/16"-24	2	DWT57160
3/8"-16	3	DWT57176
3/8"-24	3	DWT57181
7/16"-14	3	DWT57192
7/16"-20	3	DWT57195
1/2"-13	3	DWT57215
1/2"-20	3	DWT57220
9/16"-12	3	DWT91612
9/16"-18	3	DWT91618
5/8"-11	3	DWT57230
5/8"-18	3	DWT57555
11/16"-11	3	DWT111611
11/16"-16	3	DWT111616
3/4"-10	3	DWT57246
3/4"-16	3	DWT60999
7/8"-9	3	DWT789
7/8"-14	3	DWT7814
1"-8	3	DWT18
1"-12	3	DWT112
1"-14	3	DWT114



T/A Series			
Size	Limit	No. of Flutes	Part Number
0-80	H1	2	T/A57009
1-64	H1	2	T/A57021
1-72	H1	2	T/A57023
2-56	H2	2	T/A57031
2-64	H2	2	T/A57033
3-48	H2	2	T/A57038
3-56	H2	2	T/A57041
4-36	H2	2	T/A57046
4-40	H2	2	T/A57048
4-48	H2	2	T/A57051
5-40	H2	2	T/A57062
5-44	H2	2	T/A57064
6-32	H3	2	T/A57072
6-40	H2	2	T/A57076
8-32	H3	2	T/A57085
8-36	H2	2	T/A57089
10-24	H3	2	T/A57097
10-32	H3	2	T/A57104

## T/A Series - High Speed Gun Taps

Size	Limit	No. of Flutes	Part Number
12-24	H3	2	T/A57112
12-28	H3	2	T/A57114
1/4"-20	H3	2	T/A57129
1/4"-28	H3	2	T/A57139
5/16"-18H3		2	T/A57151
5/16"-24H3		2	T/A57160
3/8"-16 H3		3	T/A57176
3/8"-24 H3		3	T/A57181
7/16"-14H3		3	T/A57192
7/16"-20H3		3	T/A57195
1/2"-13 H3		3	T/A57215
1/2"-20 H3		3	T/A57220
9/16"-12H3		3	T/A91612
9/16"-18H3		3	T/A91618
5/8"-11 H3		3	T/A57230
5/8"-18 H3		3	T/A57555
3/4"-10 H3		3	T/A57246
3/4"-16 H3		3	T/A60999

DWT Series		
Size	No. of Flutes	Part Number
1.6x.35	2	DWTG1.6X.35
1.8x.35	2	DWTG1.8X.35
2x.4	2	DWTG2X.4
2.2x.45	2	DWTG2.2X.45
2.5x.45	2	DWTG2.5X.45
3x.5	2	DWTG3X.5
3.5x.6	2	DWTG3.5X.6
4x.7	2	DWTG4X.7
4.5x.75	2	DWTG4.5X.75
5x.8	2	DWTG5X.8

## DWT Series - High Speed Metric Gun Taps

Size	No. of Flutes	Part Number
6x1	2	DWTG6X1
7x1	2	DWTG7X1
8x1	2	DWTG8X1
8x1.25	2	DWTG8X1.25
10x1.25	3	DWTG10X1.25
10x1.5	3	DWTG10X1.5
12x1.25	3	DWTG12X1.25
12x1.75	3	DWTG12X1.75
14x1.25	3	DWTG14X1.25
14x1.5	3	DWTG14X1.5

Size	No. of Flutes	Part Number
14x2	3	DWTG14X2
16x1.5	3	DWTG16X1.5
16x2	3	DWTG16X2
18x1.5	3	DWTG18X1.5
18x2.5	3	DWTG18X2.5
20x1.5	3	DWTG20X1.5
20x2.5	3	DWTG20X2.5
22x2.5	3	DWTG22X2.5

# TIN-COATED TAPS

## T/A Series - TIN Coated Plug Taps

T/A Series			
Size	Limit	No. of Flutes	Part Number
6-32	H3	3	T/A54224TN
8-32	H3	4	T/A54278TN
10-24	H3	4	T/A54330TN
10-32	H3	4	T/A54357TN
12-24	H3	4	T/A54386TN
1/4"-20	H3	4	T/A54454TN
1/4"-28	H3	4	T/A54470TN
5/16"-18	H3	4	T/A54505TN
5/16"-24	H3	4	T/A54519TN
3/8"-16	H3	4	T/A54583TN
3/8"-24	H3	4	T/A54596TN
7/16"-14	H3	4	T/A54653TN

Size	Limit	No. of Flutes	Part Number
7/16"-20	H3	4	T/A54662TN
1/2"-13	H3	4	T/A54727TN
1/2"-20	H3	4	T/A54738TN
5/8"-11	H3	4	T/A54780TN
5/8"-18	H3	4	T/A54788TN
3/4"-10	H3	4	T/A54839TN
3/4"-16	H3	4	T/A54847TN
7/8"-9	H3	4	T/A54885TN
7/8"-14	H3	4	T/A54891TN
1"-8	H3	4	T/A54924TN
1"-12	H3	4	T/A54929TN
1"-14	H3	4	T/A54934TN



## T/A Series - TIN Coated Gun Taps

T/A Series			
Size	Limit	No. of Flutes	Part Number
0-80	H1	2	T/A57009TN
1-64	H1	2	T/A57021TN
1-72	H1	2	T/A57023TN
2-56	H2	2	T/A57031TN
2-64	H2	2	T/A57033TN
3-48	H2	2	T/A57038TN
3-56	H2	2	T/A57041TN
4-40	H2	2	T/A57048TN
4-48	H2	2	T/A57051TN
5-40	H2	2	T/A57062TN
5-44	H2	2	T/A57064TN
6-32	H3	2	T/A57072TN
6-40	H2	2	T/A57076TN
8-32	H3	2	T/A57085TN
8-36	H2	2	T/A57089TN
10-24	H3	2	T/A57097TN
10-32	H3	2	T/A57104TN
12-24	H3	2	T/A57112TN

Size	Limit	No. of Flutes	Part Number
12-28	H3	2	T/A57114TN
1/4"-20	H3	2	T/A57129TN
1/4"-28	H3	2	T/A57139TN
5/16"-18	H3	2	T/A57151TN
5/16"-24	H3	2	T/A57160TN
3/8"-16	H3	3	T/A57176TN
3/8"-24	H3	3	T/A57181TN
7/16"-14	H3	3	T/A57192TN
7/16"-20	H3	3	T/A57195TN
1/2"-13	H3	3	T/A57215TN
1/2"-20	H3	3	T/A57220TN
9/16"-12	H3	3	T/A91612TN
9/16"-18	H3	3	T/A91618TN
5/8"-11	H3	3	T/A57230TN
5/8"-18	H3	3	T/A57555TN
3/4"-10	H3	3	T/A57246TN
3/4"-16	H3	3	T/A60999TN



# CARBON STEEL HAND TAPS

## DWT Series - Carbon Steel Hand Taps

Carbon Steel Hand Taps are used to re-thread damaged and/or jammed threads. Carbon Steel Hand Taps may also be used to thread mild steels. **Taper Style** - Starts the thread square with the workpiece. **Plug Style** - Generally used in thru holes. **Bottom Style** - Generates the thread to the bottom of the hole.



### DWT Series

Size	No. of Flutes	Taper	Plug	Bottom	Set
0-80	2	DWTT0-80	DWTP0-80	DWTB0-80	DWTS0-80
1-64	2	DWTT1-64	DWTP1-64	DWTB1-64	DWTS1-64
1-72	2	DWTT1-72	DWTP1-72	DWTB1-72	DWTS1-72
2-56	3	DWTT2-56	DWTP2-56	DWTB2-56	DWTS2-56
2-64	3	DWTT2-64	DWTP2-64	DWTB2-64	DWTS2-64
3-48	3	DWTT3-48	DWTP3-48	DWTB3-48	DWTS3-48
3-56	3	DWTT3-56	DWTP3-56	DWTB3-56	DWTS3-56
4-36	3	DWTT4-36	DWTP4-36	DWTB4-36	DWTS4-36
4-40	3	DWTT4-40	DWTP4-40	DWTB4-40	DWTS4-40
5-40	3	DWTT5-40	DWTP5-40	DWTB5-40	DWTS5-40
5-44	3	DWTT5-44	DWTP5-44	DWTB5-44	DWTS5-44
6-32	3	DWTT6-32	DWTP6-32	DWTB6-32	DWTS6-32
6-40	3	DWTT6-40	DWTP6-40	DWTB6-40	DWTS6-40
8-32	4	DWTT8-32	DWTP8-32	DWTB8-32	DWTS8-32
8-36	4	DWTT8-36	DWTP8-36	DWTB8-36	DWTS8-36
10-24	4	DWTT10-24	DWTP10-24	DWTB10-24	DWTS10-24
10-32	4	DWTT10-32	DWTP10-32	DWTB10-32	DWTS10-32
12-24	4	DWTT12-24	DWTP12-24	DWTB12-24	DWTS12-24
12-28	4	DWTT12-28	DWTP12-28	DWTB12-28	DWTS12-28
1/4"-20	4	DWTT1/4-20	DWTP1/4-20	DWTB1/4-20	DWTS1/4-20
1/4"-28	4	DWTT1/4-28	DWTP1/4-28	DWTB1/4-28	DWTS1/4-28
5/16"-18	4	DWTT5/16-18	DWTP5/16-18	DWTB5/16-18	DWTS5/16-18
5/16"-24	4	DWTT5/16-24	DWTP5/16-24	DWTB5/16-24	DWTS5/16-24
3/8"-16	4	DWTT3/8-16	DWTP3/8-16	DWTB3/8-16	DWTS3/8-16
3/8"-24	4	DWTT3/8-24	DWTP3/8-24	DWTB3/8-24	DWTS3/8-24
7/16"-14	4	DWTT7/16-14	DWTP7/16-14	DWTB7/16-14	DWTS7/16-14
7/16"-20	4	DWTT7/16-20	DWTP7/16-20	DWTB7/16-20	DWTS7/16-20
1/2"-13	4	DWTT1/2-13	DWTP1/2-13	DWTB1/2-13	DWTS1/2-13
1/2"-20	4	DWTT1/2-20	DWTP1/2-20	DWTB1/2-20	DWTS1/2-20
9/16"-12	4	DWTT9/16-12	DWTP9/16-12	DWTB9/16-12	DWTS9/16-12
9/16"-18	4	DWTT9/16-18	DWTP9/16-18	DWTB9/16-18	DWTS9/16-18
5/8"-11	4	DWTT5/8-11	DWTP5/8-11	DWTB5/8-11	DWTS5/8-11
5/8"-18	4	DWTT5/8-18	DWTP5/8-18	DWTB5/8-18	DWTS5/8-18
11/16"-11	4	DWTT11/16-11	DWTP11/16-11	DWTB11/16-11	DWTS11/16-11
11/16"-16	4	DWTT11/16-16	DWTP11/16-16	DWTB11/16-16	DWTS11/16-16
3/4"-10	4	DWTT3/4-10	DWTP3/4-10	DWTB3/4-10	DWTS3/4-10
3/4"-16	4	DWTT3/4-16	DWTP3/4-16	DWTB3/4-16	DWTS3/4-16
7/8"-9	4	DWTT7/8-9	DWTP7/8-9	DWTB7/8-9	DWTS7/8-9
7/8"-14	4	DWTT7/8-14	DWTP7/8-14	DWTB7/8-14	DWTS7/8-14
1"-8	4	DWTT1-8	DWTP1-8	DWTB1-8	DWTS1-8
1"-12	4	DWTT1-12	DWTP1-12	DWTB1-12	DWTS1-12
1"-14	4	DWTT1-14	DWTP1-14	DWTB1-14	DWTS1-14
1-1/8"-7	4	DWTT1-1/8-7	DWTP1-1/8-7	DWTB1-1/8-7	DWTS1-1/8-7
1-1/8"-12	4	DWTT1-1/8-12	DWTP1-1/8-12	DWTB1-1/8-12	DWTS1-1/8-12
1-1/4"-7	4	DWTT1-1/4-7	DWTP1-1/4-7	DWTB1-1/4-7	DWTS1-1/4-7
1-1/4"-12	6	DWTT1-1/4-12	DWTP1-1/4-12	DWTB1-1/4-12	DWTS1-1/4-12
1-3/8"-6	4	DWTT1-3/8-6	DWTP1-3/8-6	DWTB1-3/8-6	DWTS1-3/8-6
1-3/8"-12	6	DWTT1-3/8-12	DWTP1-3/8-12	DWTB1-3/8-12	DWTS1-3/8-12
1-1/2"-6	4	DWTT1-1/2-6	DWTP1-1/2-6	DWTB1-1/2-6	DWTS1-1/2-6
1-1/2"-12	6	DWTT1-1/2-12	DWTP1-1/2-12	DWTB1-1/2-12	DWTS1-1/2-12
1-3/4"-5	6	DWTT1-3/4-5	DWTP1-3/4-5	DWTB1-3/4-5	DWTS1-3/4-5

# TAPS

## DWT Series - High Speed Left Hand Taps

DWT Series					
Size	No. of Flutes	Taper	Plug	Bottom	Set
6-32	3	DWT60705	DWT60706	DWT60707	DWT60708
8-32	4	DWT60716	DWT60717	DWT60718	DWT60719
10-24	4	DWT60727	DWT60728	DWT60729	DWT60730
10-32	4	DWT60731	DWT60732	DWT60733	DWT60734
1/4"-20	4	DWT60747	DWT60748	DWT60749	DWT60750
1/4"-28	4	DWT60751	DWT60752	DWT60753	DWT60754
5/16"-18	4	DWT60759	DWT60760	DWT60761	DWT60762
5/16"-24	4	DWT60763	DWT60764	DWT60765	DWT60766
3/8"-16	4	DWT60775	DWT60776	DWT60777	DWT60778
3/8"-24	4	DWT60779	DWT60780	DWT60781	DWT60782
7/16"-14	4	DWT60791	DWT60792	DWT60793	DWT60794
7/16"-20	4	DWT60795	DWT60796	DWT60797	DWT60798
1/2"-13	4	DWT60807	DWT60808	DWT60809	DWT60810
1/2"-20	4	DWT60811	DWT60812	DWT60813	DWT60814
9/16"-12	4	DWT60823	DWT60824	DWT60825	DWT60826
9/16"-18	4	DWT60827	DWT60828	DWT60829	DWT60830
5/8"-11	4	DWT60831	DWT60832	DWT60833	DWT60834
5/8"-18	4	DWT60835	DWT60836	DWT60837	DWT60838
3/4"-10	4	DWT60861	DWT60862	DWT60863	DWT60864
3/4"-16	4	DWT60865	DWT60866	DWT60867	DWT60868
7/8"-9	4	DWT60885	DWT60886	DWT60887	DWT60888
7/8"-14	4	DWT60889	DWT60890	DWT60891	DWT60892
1"-8	4	DWT60901	DWT60902	DWT60903	DWT60904
1"-12	4	DWT60905	DWT60906	DWT60907	DWT60908
1"-14	4	DWT60909	DWT60910	DWT60911	DWT60912

## P U L L E Y T A P S

### DWTET Series - High Speed Pulley Taps

Extension Taps are used for tapping the hubs of pulleys for oil caps or set screws. The long shank is also ideal for reaching holes inaccessible with standard length taps. Extension Taps are furnished in several different overall lengths. Available in PLUG chamfer only.



### DWTET Series 6" O.A.L.

Size	Part Number
6-32	DWTET6X6-32
8-32	DWTET6X8-32
10-24	DWTET6X10-24
10-32	DWTET6X10-32
12-24	DWTET6X12-24
1/4"-20	DWTET6X1/4-20
1/4"-28	DWTET6X1/4-28
5/16"-18	DWTET6X5/16-18
5/16"-24	DWTET6X5/16-24
3/8"-16	DWTET6X3/8-16
3/8"-24	DWTET6X3/8-24
7/16"-14	DWTET6X7/16-14
7/16"-20	DWTET6X7/16-20
1/2"-13	DWTET6X1/2-13
1/2"-20	DWTET6X1/2-20
5/8"-11	DWTET6X5/8-11
5/8"-18	DWTET6X5/8-18
3/4"-10	DWTET6X3/4-10
3/4"-16	DWTET6X3/4-16
7/8"-9	DWTET6X7/8-9

### 8" O.A.L.

Size	Part Number
1/4"-20	DWTET8X1/4-20
5/16"-18	DWTET8X5/16-18
3/8"-16	DWTET8X3/8-16
7/16"-14	DWTET8X7/16-14
7/16"-20	DWTET8X7/16-20
9/16"-18	DWTET8X9/16-18
5/8"-11	DWTET8X5/8-11
3/4"-10	DWTET8X3/4-10
1"-14	DWTET8X1-14



## G U N T A P S

### 6" O.A.L.

### DWTGT Series

Size	Part Number
6-32	DWTGT6X6-32
8-32	DWTGT6X8-32
10-24	DWTGT6X10-24
10-32	DWTGT6X10-32
12-24	DWTGT6X12-24
1/4"-20	DWTGT6X1/4-20
1/4"-28	DWTGT6X1/4-28
5/16"-18	DWTGT6X5/16-18
5/16"-24	DWTGT6X5/16-24
3/8"-16	DWTGT6X3/8-16
3/8"-24	DWTGT6X3/8-24
7/16"-14	DWTGT6X7/16-14
1/2"-13	DWTGT6X1/2-13
1/2"-20	DWTGT6X1/2-20

## N U T T A P S

### DWTNT Series

Size	Part Number
10-32	DWTNT10-32
1/4"-20	DWTNT1/4-20
5/16"-18	DWTNT5/16-18
3/8"-16	DWTNT3/8-16
3/8"-24	DWTNT3/8-24
7/16"-20	DWTNT7/16-20
9/16"-12	DWTNT9/16-12
9/16"-18	DWTNT9/16-18

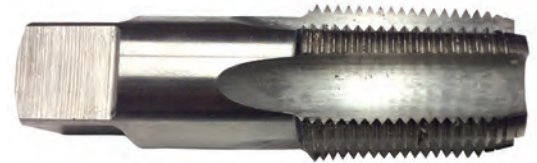
# PIPE TAPS

## DWT Series - High Speed NPT Taps

## T/A Series - High Speed NPT Taps

National Pipe Taper Taps are appropriate for threading a wide variety of materials both ferrous and non-ferrous. The nominal size of a Pipe Tap is that of the pipe fitting to be tapped, not the actual size of the tap. The thread tapers 3/4" of an inch per foot. All Pipe Taps furnished with a 2-1/2" to 3-1/2" thread chamfer. NPT threads require the use of a "sealer" like teflon tape or pipe compound.

Size	No. of Flutes	DWT Series	T/A Series
		Part Number	Part Number
1/16"-27	4	DWT64003	T/A64003
1/8"-27	4	DWT64005	T/A64005
1/4"-18	4	DWT64006	T/A64006
3/8"-18	4	DWT64007	T/A64007
1/2"-14	4	DWT64008	T/A64008
3/4"-14	5	DWT64009	T/A64009
1"-11-1/2	5	DWT64010	T/A64010
1-1/4"-11-1/2	5	DWT64011	T/A64011
1-1/2"-11-1/2	7	DWT64012	T/A64012
2"-11-1/2	7	DWT64013	T/A64013
2-1/2"-8	8	DWT64014	
3"-8	8	DWT64015	
3-1/2"-8	8	DWT64016	
4"-8	8	DWT64017	



## DWTPT Series - Carbon Steel NPT Taps

Carbon Steel Pipe Taps are designed to clean and/or re-thread damaged or jammed pipe threads.

DWTPT Series	
Size	Part Number
1/8"-27	DWTPT1/8
1/4"-18	DWTPT1/4
3/8"-18	DWTPT3/8
1/2"-14	DWTPT1/2
3/4"-14	DWTPT3/4
1"-11-1/2	DWTPT1INCH
1-1/4"-11-1/2	DWTPT1-1/4
1-1/2"-11-1/2	DWTPT1-1/2
2"-11-1/2	DWTPT2INCH
2-1/2"-8	DWTPT2-1/2
3"-8	DWTPT3INCH
3-1/2"-8	DWTPT3-1/2
4"-8	DWTPT4INCH
5"-8	DWTPT5INCH
6"-8	DWTPT6INCH



## INTERRUPTED THREAD

Special Purpose Pipe Tap, appropriate for threading a wide variety of materials both ferrous and non-ferrous where chip disposal is a problem. The first few threads on an Interrupted Thread Pipe Tap are full. The balance of the threads are interrupted to reduce drag while taper pipe threading.

DWT Series	
Size	Part Number
1/8"-27	DWT64224
1/4"-18	DWT64225
3/8"-18	DWT64226
1/2"-14	DWT64227
3/4"-14	DWT64228
1"-11-1/2	DWT64229
1-1/4"-11-1/2	DWT64230
1-1/2"-11-1/2	DWT64231
2"-11-1/2	DWT64232



## N P S T A P S

National Pipe Straight Taps marked NPS are suitable for tapping holes, or couplings, for low pressure work to assemble with taper threaded pipe or fittings to secure a tight joint when a sealer is used. They are suitable for NPSC and NPSM work.

DWT Series		
Size	No. of Flutes	Part Number
1/16"-27	4	DWT64115
1/8"-27	4	DWT64116
1/4"-18	4	DWT64117
3/8"-18	4	DWT64118
1/2"-14	4	DWT64119
3/4"-14	5	DWT64120
1"-11-1/2	5	DWT64121
1-1/4"-11-1/2	5	DWT64122
1-1/2"-11-1/2	7	DWT64123
2"-11-1/2	7	DWT64124



# NPT PIPE TAP SETS

## POUNPT Series - NPT Tap and Drill Sets

Each set comes with one DWTPT carbon steel NPT Pipe Tap and corresponding DWDN high speed steel black oxide drill bit in a plastic pouch. Sets with a drill bit larger than 1/2" come with a DWDRSD reduced shank drill bit with a 1/2" shank.

## POUCS Series - NPT Tap Sets

Each set comes with DWTPT carbon steel NPT Pipe Taps in a plastic pouch.

## DWT Series - NPT Tap and Die Sets in Wood Case

Assortment of NPT Pipe Tap and Die Sets in wood cases.

### NPT TAP & DRILL SETS

#### POUNPT Series

NPT Tap Size	HSS Drill Size	Part Number
1/16"	"D"	POU1/16NPTW/DRILL
1/8"	"R"	POU1/8NPTW/DRILL
1/4"	7/16"	POU1/4NPTW/DRILL
3/8"	37/64"	POU3/8NPTW/DRILL
1/2"	23/32"	POU1/2NPTW/DRILL
3/4"	59/64"	POU3/4NPTW/DRILL
1"	1-5/32"	POU1NPTW/DRILL



### CARBON NPT TAP SETS

#### POUCS Series

Size	NPT Tap Sizes	Part Number
5 PC SET	1/8", 1/4", 3/8", 1/2", 3/4"	POUCSNPT5
3 PC SET	1", 1-1/4", 1-1/2"	POUCSNPT3



### NPT TAP/DIE SETS

#### DWT Series

Size	NPT Sizes	Material	Part Number
6 PC TAP	1/8", 1/4", 3/8", 1/2", 3/4", 1"	High Speed Steel	DWTHS1/8-1SET
6 PC TAP	1/4", 3/8", 1/2", 3/4", 1", 1-1/4"	High Speed Steel	DWTHS1/4-1-1/4SET
6 PC TAP	1/8", 1/4", 3/8", 1/2", 3/4", 1"	Carbon Steel	DWTPT1/8-1SET
6 PC TAP	1/4", 3/8", 1/2", 3/4", 1", 1-1/4"	Carbon Steel	DWTPT1/4-1-1/4SET
6 PC TAP	1/8", 1/4", 3/8", 1/2", 3/4", 1"	Carbon Steel	DWTHXNPT-SET
12 PC TAP/DIE	1/8", 1/4", 3/8", 1/2", 3/4", 1"	Carbon Steel	DWTNPT-SET



# TAPS & ACCESORIES

## TAP AND DIE SETS

### DWT Series

Description	Part Number
#4-1/2" CS Tap & Die Set with Hex Dies	DWT40PC-HEX
#4-1/2" CS Tap & Die Set with Round Dies	DWT40PC-ROUND
3-12 mm CS Tap & Die Set with Hex Dies	DWT40PC-MM-HEX
3-12 mm CS Tap & Die Set with Round Dies	DWT40PC-MM-ROUND
#4-1/2" HS Tap & Die Set with Round Dies	DWT40PC-HS-ROUND
3-12mm HS Tap & Die Set with Round Dies	DWT40PC-HS-MM-ROUND
6-24mm NC & NF CS Tap & Die Set	DWT45PC-MM-SET
1/4"-1" NC & NF CS Tap & Die Set	DWT45PC-SET

## COMBINED DRILL AND TAP

### DWT Series

Size	Part Number
4-40	DWT4-40DRAP
6-32	DWT6-32DRAP
8-32	DWT8-32DRAP
10-24	DWT10-24DRAP
10-32	DWT10-32DRAP
12-24	DWT12-24DRAP
1/4"-20	DWT1/4-20DRAP
5/16"-18	DWT5/16-18DRAP
3/8"-16	DWT3/8-16DRAP
7/16"-14	DWT7/16-14DRAP
1/2"-13	DWT1/2-13DRAP
9/16"-12	DWT9/16-12DRAP
5/8"-11	DWT5/8-11DRAP
*Set	DWTDRAP-SET

### DWT Series - Combined Drill and Tap

Designed to drill and tap in one operation. Can be used on multi-spindle or hand held operations.

\*Set contains #6-32, #8-32, #10-32, #10-24, #12-24 and 1/4"-20 with Hex Shanks in a plastic case.



# TAP WRENCHES

## ADJUSTABLE TAP WRENCHES

### DWTTW Series - Adjustable Tap Wrenches



Capacity				DWTTW Series	
Hand Taps	Screw Machine	Pipe	Hand Reamer	O.A.L.	Part Number
1/16"-1/4"	0-14	-	1/8"-21/64"	7"	DWTTW0
1/16"-3/8"	0-14	-	1/8"-25/64"	9"	DWTTW4
5/32"-1/2"	7-14	1/8"	11/64"-7/16"	11"	DWTTW5
5/32"-3/4"	7-14	1/8"-1/4"	11/64"-41/64"	15"	DWTTW6
1/4"-1-1/8"	-	1/8"-3/4"	9/32"-29/32"	19"	DWTTW7
1/2"-1-3/8"	-	1/8"-1"	3/8"-1-5/32"	31"	DWTTW7-1/2
3/4"-1-5/8"	-	3/8"-1-1/4"	37/64"-1-11/32"	40"	DWTTW8
1"-2-1/2"	-	3/4"-2"	7/8"-2-1/8"		DWTTW22
1-3/4"-4"	-	1-1/2"-4"	1-7/16"-3"		DWTTW24

## T-HANDLE TAP WRENCHES

### DWTD Series - T-Handle Tap Wrenches

Capacity			DWTD Series	
Size	Fractional Taps	Screw Machine	O.A.L.	Part Number
Plain	1/16"-1/4"	0-14	2-3/4"	DWTD328
Plain	7/32"-1/2"	12-14	3-5/8"	DWTD332
Ratchet	1/16"-1/4"	0-14	3-3/4"	DWTD338R
Ratchet	7/32"-1/2"	12-14	5"	DWTD339R



# TAPS & DIES

## DWT Series - Acme Taps

Single pass acme taps produce threads from 10° to 30° in a single pass without a lead screw



DWT Series				
Size	Decimal Equiv.	Thread Length	O.A.L.	Part Number
3/8"-12	.3750	2"	4"	DWT3/8-12ACME
7/16"-12	.4375	2-1/4"	4-1/2"	DWT7/16-12ACME
1/2"-10	.5000	2-9/16"	5"	DWT1/2-10ACME
5/8"-8	.6250	3-3/16"	6-1/4"	DWT5/8-8ACME
3/4"-6	.7500	4-5/16"	7-15/16"	DWT3/4-6ACME
7/8"-6	.8750	4-3/8"	8-5/8"	DWT7/8-6ACME
1"-5	1.0000	5-1/4"	10-1/8"	DWT1-5ACME
1-1/4"-5	1.2500	5-1/4"	11-1/8"	DWT1-1/4-5ACME
1-1/2"-4	1.5000	5-7/8"	12-5/8"	DWT1-1/2-4ACME

## GARDEN HOSE NGH TAP AND DIE

### DWTNGH Series - HSS Garden Hose Tap and Die

For making new threads or re-threading existing NGH threads

DWTNGH Series	
Size	Part Number
3/4"-11-1/2 NGH	DWTNGH3/4TAP
3/4"-11-1/2 NGH	DWTNGH3/4DIE



## CARBON STEEL SQUARE DIES

### DWT Series - Carbon Steel Square Dies

Designed for rethreading jammed or damaged bolt threads.

#### BOLT SIZES

#### NPT SIZES

DWTSQ Series	
Size	Part Number
1/4"-20	DWTSQ1420
5/16"-18	DWTSQ51618
3/8"-16	DWTSQ3816
7/16"-14	DWTSQ71614
1/2"-13	DWTSQ1213
5/8"-11	DWTSQ5811
3/4"-10	DWTSQ3410
7/8"-9	DWTSQ789
1"-8	DWTSQ18
1-1/8"-7	DWTSQ1187
1-1/4"-7	DWTSQ1147
1-3/8"-6	DWTSQ1386
1-1/2"-6	DWTSQ1126
1-3/4"-5	DWTSQ1345
2"-4-1/2	DWTSQ2412



Size	Part Number
1/8"x2"SQ	DWTSQNPT18X2
1/8"x2-1/2"SQ	DWTSQNPT18X212
1/4"x2"SQ	DWTSQNPT14X2
1/4"x2-1/2"SQ	DWTSQNPT14X212
3/8"x2"SQ	DWTSQNPT38X2
3/8"x2-1/2"SQ	DWTSQNPT38X212
1/2"x2"SQ	DWTSQNPT12X2
1/2"x2-1/2"SQ	DWTSQNPT12X212
1/2"x3"SQ	DWTSQNPT12X3
3/4"x2-1/2"SQ	DWTSQNPT34X212
3/4"x3"SQ	DWTSQNPT34X3
1"x2-1/2"SQ	DWTSQNPT1X212
1"x3"SQ	DWTSQNPT1X3
1"x4"SQ	DWTSQNPT1X4
1-1/4"x3"SQ	DWTSQNPT114X3
1-1/4"x4"SQ	DWTSQNPT114X4
1-1/2"x4"SQ	DWTSQNPT112X4
2"x4"SQ	DWTSQNPT2X4
2-1/2"x5"SQ	DWTSQNPT212X5
3"x5"SQ	DWTSQNPT3X5

# HEX DIES

## DWT Series - Hex Dies

Carbon Steel Hex Dies are for dressing over bruised or rusty threads, they are the most cost effective rethreading tool available. No special holder is required for this type of die, any wrench large enough will suffice. Ideal for maintenance in the shop or field.

### M A C H I N E   A N D   F R A C T I O N A L   S I Z E S

#### DWTHX Series

Size	Part Number
4-40	DWTHX440
5-40	DWTHX540
6-32	DWTHX632
8-32	DWTHX832
10-24	DWTHX1024
10-32	DWTHX1032
12-24	DWTHX1224
1/4"-20	DWTHX1420
1/4"-28	DWTHX1428
5/16"-18	DWTHX51618
5/16"-24	DWTHX51624
3/8"-16	DWTHX3816
3/8"-24	DWTHX3824

Size	Part Number
7/16"-14	DWTHX71614
7/16"-20	DWTHX71620
1/2"-13	DWTHX1213
1/2"-20	DWTHX1220
9/16"-12	DWTHX91612
9/16"-18	DWTHX91618
5/8"-11	DWTHX5811
5/8"-18	DWTHX5818
11/16"-11	DWTHX111611
11/16"-16	DWTHX111616
3/4"-10	DWTHX3410
3/4"-16	DWTHX3416
7/8"-9	DWTHX789

Size	Part Number
7/8"-14	DWTHX7814
1"-8	DWTHX18
1"-12	DWTHX112
1"-14	DWTHX114
1-1/8"-7	DWTHX1187
1-1/8"-12	DWTHX11812
1-1/4"-7	DWTHX1147
1-1/4"-12	DWTHX11412
1-3/8"-6	DWTHX1386
1-3/8"-12	DWTHX13812
1-1/2"-6	DWTHX1126
1-1/2"-12	DWTHX11212

### N P T   P I P E   S I Z E S

#### DWTHXNPT Series

Size	Part Number
1/8"NPT	DWTHXNPT18
1/4"NPT	DWTHXNPT14
3/8"NPT	DWTHXNPT38
1/2"NPT	DWTHXNPT12
3/4"NPT	DWTHXNPT34
1"NPT	DWTHXNPT1INCH
1-1/4"NPT	DWTHXNPT114

Size	Part Number
1-1/2"NPT	DWTHXNPT112
2"NPT	DWTHXNPT2INCH
2-1/2"NPT	DWTHXNPT212
3"NPT	DWTHXNPT3INCH
3-1/2"NPT	DWTHXNPT312
4"NPT	DWTHXNPT4INCH



### H S S   F R A C T I O N A L   S I Z E S

#### DWTHSHEX Series

Size	Part Number
1/4"-20	DWTHSHEX1420
1/4"-28	DWTHSHEX1428
5/16"-18	DWTHSHEX51618
5/16"-24	DWTHSHEX51624
3/8"-16	DWTHSHEX3816
3/8"-24	DWTHSHEX3824
7/16"-14	DWTHSHEX71614
7/16"-20	DWTHSHEX71620
1/2"-13	DWTHSHEX1213
1/2"-20	DWTHSHEX1220
9/16"-12	DWTHSHEX91612
9/16"-18	DWTHSHEX91618
5/8"-11	DWTHSHEX5811
5/8"-18	DWTHSHEX5818
11/16"-11	DWTHSHEX111611
11/16"-16	DWTHSHEX111616

Size	Part Number
3/4"-10	DWTHSHEX3410
3/4"-16	DWTHSHEX3416
7/8"-9	DWTHSHEX789
7/8"-14	DWTHSHEX7814
1"-8	DWTHSHEX18
1"-12	DWTHSHEX112
1"-14	DWTHSHEX114
1-1/8"-7	DWTHSHEX1187
1-1/8"-12	DWTHSHEX11812
1-1/4"-7	DWTHSHEX1147
1-1/4"-12	DWTHSHEX11412
1-3/8"-6	DWTHSHEX1386
1-3/8"-12	DWTHSHEX13812
1-1/2"-6	DWTHSHEX1126
1-1/2"-12	DWTHSHEX11212



# HEX DIES

## LEFT HAND FRACTIONAL SIZES

### DWTHX Series

Size	Part Number
1/4"-20	DWTHX1420LH
1/4"-28	DWTHX1428LH
5/16"-18	DWTHX51618LH
5/16"-24	DWTHX51624LH
3/8"-16	DWTHX3816LH
3/8"-24	DWTHX3824LH
7/16"-14	DWTHX71614LH
7/16"-20	DWTHX71620LH
1/2"-13	DWTHX1213LH
1/2"-20	DWTHX1220LH
9/16"-12	DWTHX91612LH
9/16"-18	DWTHX91618LH
5/8"-11	DWTHX5811LH
5/8"-18	DWTHX5818LH
11/16"-11	DWTHX111611LH
11/16"-16	DWTHX111616LH

Size	Part Number
3/4"-10	DWTHX3410LH
3/4"-16	DWTHX3416LH
7/8"-9	DWTHX789LH
7/8"-14	DWTHX7814LH
1"-8	DWTHX18LH
1"-12	DWTHX112LH
1"-14	DWTHX114LH
1-1/8"-7	DWTHX1187LH
1-1/8"-12	DWTHX11812LH
1-1/4"-7	DWTHX1147LH
1-1/4"-12	DWTHX11412LH
1-3/8"-6	DWTHX1386LH
1-3/8"-12	DWTHX13812LH
1-1/2"-6	DWTHX1126LH
1-1/2"-12	DWTHX11212LH



## SPECIAL THREAD FRACTIONAL SIZES

### DWTSH Series

Size	Part Number
1/4"-24	DWTSH1/4-24
1/4"-27	DWTSH1/4-27
1/4"-32	DWTSH1/4-32
1/4"-36	DWTSH1/4-36
1/4"-40	DWTSH1/4-40
1/4"-48	DWTSH1/4-48
5/16"-20	DWTSH5/16-20
5/16"-27	DWTSH5/16-27
5/16"-32	DWTSH5/16-32
5/16"-40	DWTSH5/16-40
3/8"-20	DWTSH3/8-20
3/8"-27	DWTSH3/8-27
3/8"-28	DWTSH3/8-28
3/8"-32	DWTSH3/8-32
3/8"-40	DWTSH3/8-40
7/16"-18	DWTSH7/16-18
7/16"-24	DWTSH7/16-24
7/16"-28	DWTSH7/16-28
7/16"-32	DWTSH7/16-32
7/16"-40	DWTSH7/16-40
1/2"-12	DWTSH1/2-12
1/2"-16	DWTSH1/2-16
1/2"-18	DWTSH1/2-18
1/2"-24	DWTSH1/2-24
1/2"-27	DWTSH1/2-27
1/2"-28	DWTSH1/2-28
1/2"-32	DWTSH1/2-32
1/2"-36	DWTSH1/2-36
9/16"-16	DWTSH9/16-16
9/16"-20	DWTSH9/16-20

Size	Part Number
9/16"-24	DWTSH9/16-24
9/16"-32	DWTSH9/16-32
5/8"-16	DWTSH5/8-16
5/8"-20	DWTSH5/8-20
5/8"-24	DWTSH5/8-24
5/8"-32	DWTSH5/8-32
11/16"-18	DWTSH11/16-18
11/16"-24	DWTSH11/16-24
3/4"-12	DWTSH3/4-12
3/4"-20	DWTSH3/4-20
3/4"-24	DWTSH3/4-24
3/4"-28	DWTSH3/4-28
3/4"-32	DWTSH3/4-32
7/8"-16	DWTSH7/8-16
7/8"-18	DWTSH7/8-18
7/8"-20	DWTSH7/8-20
7/8"-24	DWTSH7/8-24
7/8"-28	DWTSH7/8-28
7/8"-32	DWTSH7/8-32
15/16"-16	DWTSH15/16-16
15/16"-20	DWTSH15/16-20
1"-16	DWTSH1-16
1"-18	DWTSH1-18
1"-20	DWTSH1-20
1"-24	DWTSH1-24
1-1/16"-16	DWTSH1-1/16-16
1-1/16"-18	DWTSH1-1/16-18
1-1/8"-16	DWTSH1-1/8-16
1-1/8"-18	DWTSH1-1/8-18
1-3/16"-12	DWTSH1-3/16-12

Size	Part Number
1-3/16"-16	DWTSH1-3/16-16
1-1/4"-18	DWTSH1-1/4-18
1-1/4"-24	DWTSH1-1/4-24
1-5/16"-12	DWTSH1-5/16-12
1-3/8"-16	DWTSH1-3/8-16
1-3/8"-18	DWTSH1-3/8-18
1-1/2"-16	DWTSH1-1/2-16
1-1/2"-18	DWTSH1-1/2-18
1-5/8"-12	DWTSH1-5/8-12
1-3/4"-5	DWTSH1-3/4-5
1-3/4"-12	DWTSH1-3/4-12
1-3/4"-16	DWTSH1-3/4-16
1-3/4"-18	DWTSH1-3/4-18
1-3/4"-20	DWTSH1-3/4-20
2"-4-1/2	DWTSH2-4-1/2
2"-12	DWTSH2-12
2-1/8"-12	DWTSH2-1/8-12
2-1/4"-12	DWTSH2-1/4-12
2-1/4"-16	DWTSH2-1/4-16
2-1/4"-18	DWTSH2-1/4-18
2-3/8"-12	DWTSH2-3/8-12
2-3/8"-16	DWTSH2-3/8-16
2-1/2"-4	DWTSH2-1/2-4
2-1/2"-12	DWTSH2-1/2-12
2-3/4"-12	DWTSH2-3/4-12
2-7/8"-12	DWTSH2-7/8-12
3"-12	DWTSH3-12



# HEX DIES

## SPECIAL THREAD - 8 PITCH SIZES

### DWTSH Series

Size	Part Number
1-1/8"-8	DWTSH1-1/8-8
1-1/4"-8	DWTSH1-1/4-8
1-3/8"-8	DWTSH1-3/8-8
1-1/2"-8	DWTSH1-1/2-8
1-5/8"-8	DWTSH1-5/8-8
1-3/4"-8	DWTSH1-3/4-8
1-7/8"-8	DWTSH1-7/8-8
2"-8	DWTSH2-8
2-1/8"-8	DWTSH2-1/8-8
2-1/4"-8	DWTSH2-1/4-8

Size	Part Number
2-3/8"-8	DWTSH2-3/8-8
2-1/2"-8	DWTSH2-1/2-8
2-5/8"-8	DWTSH2-5/8-8
2-3/4"-8	DWTSH2-3/4-8
2-7/8"-8	DWTSH2-7/8-8
3"-8	DWTSH3-8
3-1/4"-8	DWTSH3-1/4-8
3-1/2"-8	DWTSH3-1/2-8
3-3/4"-8	DWTSH3-3/4-8
4"-8	DWTSH4-8



## STANDARD METRIC SIZES

### DWTMHX Series

Size	Part Number
1.6x.35	DWTMHX1.6X.35
1.8x.35	DWTMHX1.8X.35
2x.4	DWTMHX2X.4
2.2x.45	DWTMHX2.2X.45
2.5x.45	DWTMHX2.5X.45
3x.5	DWTMHX3X.5
3.5x.6	DWTMHX3.5X.6
4x.7	DWTMHX4X.7
4.5x.75	DWTMHX4.5X.75
5x.8	DWTMHX5X.8
6x1	DWTMHX6X1
7x1	DWTMHX7X1
8x1	DWTMHX8X1
8x1.25	DWTMHX8X1.25

Size	Part Number
10x1.25	DWTMHX10X1.25
10x1.5	DWTMHX10X1.5
12x1.25	DWTMHX12X1.25
12x1.75	DWTMHX12X1.75
14x1.25	DWTMHX14X1.25
14x1.5	DWTMHX14X1.5
14x2	DWTMHX14X2
16x1.5	DWTMHX16X1.5
16x2	DWTMHX16X2
18x1.5	DWTMHX18X1.5
18x2.5	DWTMHX18X2.5
20x1.5	DWTMHX20X1.5
20x2.5	DWTMHX20X2.5
22x1.5	DWTMHX22X1.5

Size	Part Number
22x2.5	DWTMHX22X2.5
24x2	DWTMHX24X2
24x3	DWTMHX24X3
27x2	DWTMHX27X2
27x3	DWTMHX27X3
30x2	DWTMHX30X2
30x3.5	DWTMHX30X3.5
33x2	DWTMHX33X2
33x3.5	DWTMHX33X3.5
36x3	DWTMHX36X3
36x4	DWTMHX36X4
39x3	DWTMHX39X3
39x4	DWTMHX39X4

## SPECIAL THREAD METRIC SIZES

### DWTSMH Series

Size	Part Number
3x.6	DWTSMH3X.6
4x.5	DWTSMH4X.5
4x.75	DWTSMH4X.75
5x.5	DWTSMH5X.5
5x.75	DWTSMH5X.75
5x.9	DWTSMH5X.9
6x.5	DWTSMH6X.5
6x.75	DWTSMH6X.75
6x1.25	DWTSMH6X1.25
6.3x1	DWTSMH6.3X1
7x.75	DWTSMH7X.75
8x.5	DWTSMH8X.5
8x.75	DWTSMH8X.75
8x1.5	DWTSMH8X1.5
9x.75	DWTSMH9X.75
9x1	DWTSMH9X1
9x1.25	DWTSMH9X1.25
10x.75	DWTSMH10X.75
10x1	DWTSMH10X1
11x.75	DWTSMH11X.75
11x1	DWTSMH11X1

Size	Part Number
11x1.25	DWTSMH11X1.25
11x1.5	DWTSMH11X1.5
12x.75	DWTSMH12X.75
12x1	DWTSMH12X1
12x1.5	DWTSMH12X1.5
13x.5	DWTSMH13X.5
13x1.25	DWTSMH13X1.25
13x1.5	DWTSMH13X1.5
13x2	DWTSMH13X2
14x1	DWTSMH14X1
14x1.75	DWTSMH14X1.75
15x1	DWTSMH15X1
15x1.5	DWTSMH15X1.5
16x1	DWTSMH16X1
16x1.75	DWTSMH16X1.75
18x1	DWTSMH18X1
18x1.25	DWTSMH18X1.25
18x2	DWTSMH18X2
19x1	DWTSMH19X1
19x1.5	DWTSMH19X1.5
19x2.5	DWTSMH19X2.5

Size	Part Number
20x1	DWTSMH20X1
20x1.25	DWTSMH20X1.25
20x2	DWTSMH20X2
22x2	DWTSMH22X2
24x1	DWTSMH24X1
24x1.5	DWTSMH24X1.5
26x1	DWTSMH26X1
26x1.5	DWTSMH26X1.5
26x2	DWTSMH26X2
26x2.5	DWTSMH26X2.5
26x3	DWTSMH26X3
27x1.5	DWTSMH27X1.5
27x2.5	DWTSMH27X2.5
30x1	DWTSMH30X1
30x1.5	DWTSMH30X1.5
35x1.5	DWTSMH35X1.5
36x1.5	DWTSMH36X1.5
36x2	DWTSMH36X2
42x4.5	DWTSMH42X4.5
48x5	DWTSMH48X5

# ROUND DIES

## HSS ROUND STANDARD SIZES

### DWT Series - High Speed Adjustable Round Dies

For threading, a High Speed Steel Round Adjustable Die is desired for improved wear life. Round Dies are chamfered on both faces. One side has a 2 to 3 thread chamfer for threading, the other side has a 1" to 1-1/2" thread chamfer for threading close to a shoulder. Adjustment is obtained by a fine pitch screw which forces the sides of the die apart, or allows them to spring together. The slot is beveled so that when the dies are used in a machine holder the adjusting screw can be removed and adjustment made by the adjusting screws in the holder.

#### 13 / 16" OD DWT Series

Size	Part Number
0-80	DWTH1316-080
1-64	DWTH1316-164
1-72	DWTH1316-172
2-56	DWTH1316-256
2-64	DWTH1316-264
3-48	DWTH1316-348
3-56	DWTH1316-356
4-36	DWTH1316-436
4-40	DWTH1316-440
4-48	DWTH1316-448
5-40	DWTH1316-540
5-44	DWTH1316-544
6-32	DWTH1316-632
6-40	DWTH1316-640
8-32	DWTH1316-832
8-36	DWTH1316-836
10-24	DWTH1316-1024
10-32	DWTH1316-1032
12-24	DWTH1316-1224
12-28	DWTH1316-1228
1/4"-20	DWTH1316-1420
1/4"-28	DWTH1316-1428
5/16"-18	DWTH1316-51618
5/16"-24	DWTH1316-51624

#### 1" OD DWT Series

Size	Part Number
2-56	DWTH1-256
3-56	DWTH1-356
4-36	DWTH1-436
4-40	DWTH1-440
4-48	DWTH1-448
5-40	DWTH1-540
5-44	DWTH1-544
6-32	DWTH1-632
6-40	DWTH1-640
8-32	DWTH1-832
8-36	DWTH1-836
10-24	DWTH1-1024
10-32	DWTH1-1032
12-24	DWTH1-1224
12-28	DWTH1-1228
1/4"-20	DWTH1-1420
1/4"-28	DWTH1-1428
5/16"-18	DWTH1-51618
5/16"-24	DWTH1-51624
3/8"-16	DWTH1-3816
3/8"-24	DWTH1-3824
7/16"-14	DWTH1-71614
7/16"-20	DWTH1-71620
1/2"-13	DWTH1-1213
1/2"-20	DWTH1-1220

#### 1-1/2" OD DWT Series

Size	Part Number
1/4"-20	DWTH112-1420
1/4"-28	DWTH112-1428
5/16"-18	DWTH112-51618
5/16"-24	DWTH112-51624
3/8"-16	DWTH112-3816
3/8"-24	DWTH112-3824
7/16"-14	DWTH112-71614
7/16"-20	DWTH112-71620
1/2"-13	DWTH112-1213
1/2"-20	DWTH112-1220
9/16"-12	DWTH112-91612
9/16"-18	DWTH112-91618
5/8"-11	DWTH112-5811
5/8"-18	DWTH112-5818
11/16"-11	DWTH112-111611
11/16"-16	DWTH112-111616
3/4"-10	DWTH112-3410
3/4"-16	DWTH112-3416

#### 2" OD DWT Series

Size	Part Number
1/4"-20	DWTH2-1420
1/4"-28	DWTH2-1428
5/16"-18	DWTH2-51618
5/16"-24	DWTH2-51624
3/8"-16	DWTH2-3816
3/8"-24	DWTH2-3824
7/16"-14	DWTH2-71614
7/16"-20	DWTH2-71620
1/2"-13	DWTH2-1213
1/2"-20	DWTH2-1220
9/16"-12	DWTH2-91612
9/16"-18	DWTH2-91618
5/8"-11	DWTH2-5811
5/8"-18	DWTH2-5818
11/16"-11	DWTH2-111611
3/4"-10	DWTH2-3410
3/4"-16	DWTH2-3416
7/8"-9	DWTH2-789
7/8"-14	DWTH2-7814
1"-8	DWTH2-18
1"-12	DWTH2-112
1"-14	DWTH2-114

#### 2-1/2" OD DWT Series

Size	Part Number
7/8"-9	DWTH212-789
7/8"-14	DWTH212-7814
1"-8	DWTH212-18
1"-12	DWTH212-112
1"-14	DWTH212-114
1-1/8"-7	DWTH212-1187
1-1/8"-12	DWTH212-11812
1-1/4"-7	DWTH212-1147
1-1/4"-12	DWTH212-11412
1-3/8"-6	DWTH212-1386
1-3/8"-12	DWTH212-13812
1-1/2"-6	DWTH212-1126
1-1/2"-12	DWTH212-11212

#### 3" OD DWT Series

Size	Part Number
1-1/8"-7	DWTH3-1187
1-1/8"-12	DWTH3-11812
1-1/4"-7	DWTH3-1147
1-1/4"-12	DWTH3-11412
1-3/8"-6	DWTH3-1386
1-3/8"-12	DWTH3-13812
1-1/2"-6	DWTH3-1126
1-1/2"-12	DWTH3-11212



# ROUND DIES

HSS ROUND SPECIAL SIZES



## 13 / 16" OD DWT Series

Size	Part Number
1-56	DWTSR1316-156
4-32	DWTSR1316-432
4-60	DWTSR1316-460
4-64	DWTSR1316-464
5-36	DWTSR1316-536
5-48	DWTSR1316-548
6-36	DWTSR1316-636
6-48	DWTSR1316-648
6-56	DWTSR1316-656

Size	Part Number
8-24	DWTSR1316-824
8-48	DWTSR1316-848
10-36	DWTSR1316-1036
12-32	DWTSR1316-1232
12-36	DWTSR1316-1236
12-40	DWTSR1316-1240
12-48	DWTSR1316-1248
5/32"-32	DWTSR1316-53232
5/32"-36	DWTSR1316-53236

Size	Part Number
3/16"-24	DWTSR1316-31624
3/16"-32	DWTSR1316-31632
7/32"-24	DWTSR1316-73224
1/4"-27	DWTSR1316-1427
1/4"-32	DWTSR1316-1432
1/4"-40	DWTSR1316-1440
5/16"-27	DWTSR1316-51627
5/16"-36	DWTSR1316-51636

## 1" OD DWT Series

Size	Part Number
6-36	DWTSR1-636
6-48	DWTSR1-648
10-28	DWTSR1-1028
10-56	DWTSR1-1056
5/32"-32	DWTSR1-53232
3/16"-24	DWTSR1-31624
3/16"-32	DWTSR1-31632
7/32"-24	DWTSR1-73224
7/32"-40	DWTSR1-73240
1/4"-16	DWTSR1-1416
1/4"-18	DWTSR1-1418
1/4"-22	DWTSR1-1422
1/4"-24	DWTSR1-1424
1/4"-26	DWTSR1-1426
1/4"-27	DWTSR1-1427
1/4"-30	DWTSR1-1430
1/4"-32	DWTSR1-1432
1/4"-36	DWTSR1-1436
1/4"-40	DWTSR1-1440
1/4"-48	DWTSR1-1448
1/4"-56	DWTSR1-1456
1/4"-60	DWTSR1-1460
1/4"-64	DWTSR1-1464
1/4"-72	DWTSR1-1472
1/4"-80	DWTSR1-1480

Size	Part Number
9/32"-32	DWTSR1-93232
5/16"-16	DWTSR1-51616
5/16"-20	DWTSR1-51620
5/16"-22	DWTSR1-51622
5/16"-27	DWTSR1-51627
5/16"-28	DWTSR1-51628
5/16"-30	DWTSR1-51630
5/16"-32	DWTSR1-51632
5/16"-36	DWTSR1-51636
5/16"-40	DWTSR1-51640
5/16"-48	DWTSR1-51648
5/16"-56	DWTSR1-51656
5/16"-64	DWTSR1-51664
5/16"-72	DWTSR1-51672
3/8"-14	DWTSR1-3814
3/8"-18	DWTSR1-3818
3/8"-20	DWTSR1-3820
3/8"-26	DWTSR1-3826
3/8"-32	DWTSR1-3832
3/8"-36	DWTSR1-3836
3/8"-40	DWTSR1-3840
3/8"-48	DWTSR1-3848
3/8"-56	DWTSR1-3856
3/8"-64	DWTSR1-3864
3/8"-72	DWTSR1-3872

Size	Part Number
3/8"-80	DWTSR1-3880
7/16"-12	DWTSR1-71612
7/16"-16	DWTSR1-71616
7/16"-18	DWTSR1-71618
7/16"-24	DWTSR1-71624
7/16"-27	DWTSR1-71627
7/16"-32	DWTSR1-71632
7/16"-36	DWTSR1-71636
7/16"-40	DWTSR1-71640
7/16"-48	DWTSR1-71648
7/16"-56	DWTSR1-71656
7/16"-64	DWTSR1-71664
7/16"-72	DWTSR1-71672
7/16"-80	DWTSR1-71680
1/2"-14	DWTSR1-1214
1/2"-16	DWTSR1-1216
1/2"-18	DWTSR1-1218
1/2"-24	DWTSR1-1224
1/2"-27	DWTSR1-1227
1/2"-28	DWTSR1-1228
1/2"-32	DWTSR1-1232
1/2"-36	DWTSR1-1236
1/2"-40	DWTSR1-1240
1/2"-48	DWTSR1-1248

## 1 - 1/2" OD DWT Series

Size	Part Number
1/4"-32	DWTSR112-1432
1/4"-48	DWTSR112-1448
5/16"-16	DWTSR112-51616
5/16"-27	DWTSR112-51627
5/16"-30	DWTSR112-51630
3/8"-27	DWTSR112-3827
3/8"-28	DWTSR112-3828
3/8"-32	DWTSR112-3832
3/8"-48	DWTSR112-3848
7/16"-24	DWTSR112-71624
7/16"-27	DWTSR112-71627
7/16"-28	DWTSR112-71628
15/32"-32	DWTSR112-153232

Size	Part Number
1/2"-24	DWTSR112-1224
1/2"-40	DWTSR112-1240
9/16"-16	DWTSR112-91616
9/16"-20	DWTSR112-91620
9/16"-24	DWTSR112-91624
9/16"-27	DWTSR112-91627
9/16"-36	DWTSR112-91636
9/16"-40	DWTSR112-91640
5/8"-12	DWTSR112-5812
5/8"-20	DWTSR112-5820
5/8"-24	DWTSR112-5824
5/8"-27	DWTSR112-5827
5/8"-28	DWTSR112-5828

Size	Part Number
5/8"-32	DWTSR112-5832
5/8"-40	DWTSR112-5840
11/16"-18	DWTSR112-111618
3/4"-12	DWTSR112-3412
3/4"-14	DWTSR112-3414
3/4"-18	DWTSR112-3418
3/4"-20	DWTSR112-3420
3/4"-24	DWTSR112-3424
3/4"-27	DWTSR112-3427
3/4"-32	DWTSR112-3432
3/4"-40	DWTSR112-3440
13/16"-32	DWTSR112-131632

# ROUND DIES

## HSS SPECIAL SIZES

### 2" OD DWT Series

Size	Part Number
13/16"-16	DWTSR2-131616
7/8"-10	DWTSR2-7810
7/8"-16	DWTSR2-7816
7/8"-18	DWTSR2-7818
7/8"-20	DWTSR2-7820
7/8"-24	DWTSR2-7824
7/8"-27	DWTSR2-7827
15/16"-20	DWTSR2-151620
1"-16	DWTSR2-116
1"-18	DWTSR2-118
1"-20	DWTSR2-120
1"-24	DWTSR2-124
1"-32	DWTSR2-132

### 2 - 1/2" OD DWT Series

Size	Part Number
1-1/16"-20	DWTSR212-111620
1-1/16"-24	DWTSR212-111624
1-1/8"-8	DWTSR212-1188
1-1/8"-20	DWTSR212-11820
1-3/16"-8	DWTSR212-13168
1-3/16"-18	DWTSR212-131618
1-3/16"-20	DWTSR212-131620
1-1/4"-8	DWTSR212-1148
1-5/16"-8	DWTSR212-15168
1-5/16"-12	DWTSR212-151612
1-5/16"-24	DWTSR212-151624
1-3/8"-18	DWTSR212-13818
1-3/8"-24	DWTSR212-13824

### 3" OD DWT Series

Size	Part Number
1-3/4"-5	DWTSR3-1345
1-3/4"-8	DWTSR3-1348
1-3/4"-12	DWTSR3-13412
1-7/8"-8	DWTSR3-1788
1-7/8"-12	DWTSR3-17812
2"-4-1/2	DWTSR3-2412
2"-8	DWTSR3-28
2"-12	DWTSR3-212

## HSS METRIC STANDARD SIZES

### 13/16" OD DWT Series

Size	Part Number
1.6x.35	DWTMR1316-1.6X.35
1.8x.35	DWTMR1316-1.8X.35
2x.4	DWTMR1316-2X.4
2.2x.45	DWTMR1316-2.2X.45
2.5x.45	DWTMR1316-2.5X.45
3x.5	DWTMR1316-3X.5
3.5x.6	DWTMR1316-3.5X.6
4x.7	DWTMR1316-4X.7
4.5x.75	DWTMR1316-4.5X.75
5x.8	DWTMR1316-5X.8
6x1	DWTMR1316-6X1
7x1	DWTMR1316-7X1

### 1" OD DWT Series

Size	Part Number
3x.5	DWTMR1-3X.5
3.5x.6	DWTMR1-3.5X.6
4x.7	DWTMR1-4X.7
4.5x.75	DWTMR1-4.5X.75
5x.8	DWTMR1-5X.8
6x1	DWTMR1-6X1
7x1	DWTMR1-7X1
8x1	DWTMR1-8X1
8x1.25	DWTMR1-8X1.25
10x1.25	DWTMR1-10X1.25
10x1.5	DWTMR1-10X1.5
12x1.25	DWTMR1-12X1.25
12x1.75	DWTMR1-12X1.75

### 1 - 1/2" OD DWT Series

Size	Part Number
6x1	DWTMR112-6X1
7x1	DWTMR112-7X1
8x1	DWTMR112-8X1
8x1.25	DWTMR112-8X1.25
10x1.25	DWTMR112-10X1.25
10x1.5	DWTMR112-10X1.5
12x1.25	DWTMR112-12X1.25
12x1.75	DWTMR112-12X1.75
14x1.25	DWTMR112-14X1.25
14x1.5	DWTMR112-14X1.5
14x2	DWTMR112-14X2
16x1.5	DWTMR112-16X1.5
16x2	DWTMR112-16X2
18x1.5	DWTMR112-18X1.5
18x2.5	DWTMR112-18X2.5
20x1.5	DWTMR112-20X1.5
20x2.5	DWTMR112-20X2.5

### 2" OD DWT Series

Size	Part Number
6x1	DWTMR2-6X1
7x1	DWTMR2-7X1
8x1.25	DWTMR2-8X1.25
10x1.25	DWTMR2-10X1.25
12x1.75	DWTMR2-12X1.75
14x1.5	DWTMR2-14X1.5
14x2	DWTMR2-14X2
16x1.5	DWTMR2-16X1.5
16x2	DWTMR2-16X2
18x1.5	DWTMR2-18X1.5
18x2.5	DWTMR2-18X2.5
20x1.5	DWTMR2-20X1.5
20x2.5	DWTMR2-20X2.5
22x1.5	DWTMR2-22X1.5
22x2.5	DWTMR2-22X2.5
24x2	DWTMR2-24X2
24x3	DWTMR2-24X3
27x2	DWTMR2-27X2
27x3	DWTMR2-27X3
30x2	DWTMR2-30X2
30x3.5	DWTMR2-30X3.5

### 2 - 1/2" OD DWT Series

Size	Part Number
24x3	DWTMR212-24X3
27x2	DWTMR212-27X2
27x3	DWTMR212-27X3
30x2	DWTMR212-30X2
30x3.5	DWTMR212-30X3.5
33x2	DWTMR212-33X2
33x3.5	DWTMR212-33X3.5
36x3	DWTMR212-36X3
36x4	DWTMR212-36X4
39x3	DWTMR212-39X3

### 3" OD DWT Series

Size	Part Number
33x3.5	DWTMR3-33X3.5
36x3	DWTMR3-36X3
36x4	DWTMR3-36X4
39x3	DWTMR3-39X3
39x4	DWTMR3-39X4





# ROUND DIES

HSS METRIC SPECIAL SIZES



## 13/16" OD DWT Series

Size	Part Number
1x.25	DWTSMR1316-1X.25
1.2x.2	DWTSMR1316-1.2X.2
1.4x.2	DWTSMR1316-1.4X.2
1.5x.3	DWTSMR1316-1.5X.3
1.7x.2	DWTSMR1316-1.7X.2
2x.25	DWTSMR1316-2X.25

Size	Part Number
2.3x.4	DWTSMR1316-2.3X.4
2.5x.5	DWTSMR1316-2.5X.5
2.6x.45	DWTSMR1316-2.6X.45
3x.6	DWTSMR1316-3X.6
4x.5	DWTSMR1316-4X.5
4x.75	DWTSMR1316-4X.75

Size	Part Number
5x.75	DWTSMR1316-5X.75
5.5x.9	DWTSMR1316-5.5X.9
6x.5	DWTSMR1316-6X.5
7x.75	DWTSMR1316-7X.75
8x1.5	DWTSMR1316-8X1.5

## 1" OD DWT Series

Size	Part Number
3x.6	DWTSMR1-3X.6
3.5x.5	DWTSMR1-3.5X.5
4x.5	DWTSMR1-4X.5
4x.75	DWTSMR1-4X.75
4.5x.5	DWTSMR1-4.5X.5
5x.5	DWTSMR1-5X.5
5x.7	DWTSMR1-5X.7
5x.75	DWTSMR1-5X.75
5x.9	DWTSMR1-5X.9
5x1	DWTSMR1-5X1
5.5x.5	DWTSMR1-5.5X.5
5.5x.9	DWTSMR1-5.5X.9
6x.5	DWTSMR1-6X.5
6x.75	DWTSMR1-6X.75
6x1.25	DWTSMR1-6X1.25

Size	Part Number
6.3x1	DWTSMR1-6.3X1
7x.5	DWTSMR1-7X.5
7x.75	DWTSMR1-7X.75
7x1.25	DWTSMR1-7X1.25
8x.5	DWTSMR1-8X.5
8x.75	DWTSMR1-8X.75
8x1.5	DWTSMR1-8X1.5
8x1.75	DWTSMR1-8X1.75
9x.5	DWTSMR1-9X.5
9x.75	DWTSMR1-9X.75
9x1	DWTSMR1-9X1
9x1.25	DWTSMR1-9X1.25
9x1.5	DWTSMR1-9X1.5
10x.5	DWTSMR1-10X.5
10x.75	DWTSMR1-10X.75

Size	Part Number
10x1	DWTSMR1-10X1
10x1.75	DWTSMR1-10X1.75
11x.5	DWTSMR1-11X.5
11x.75	DWTSMR1-11X.75
11x1	DWTSMR1-11X1
11x1.25	DWTSMR1-11X1.25
11x1.5	DWTSMR1-11X1.5
11x1.75	DWTSMR1-11X1.75
12x.5	DWTSMR1-12X.5
12x.75	DWTSMR1-12X.75
12x1	DWTSMR1-12X1
12x1.5	DWTSMR1-12X1.5
12x2	DWTSMR1-12X2

## 1 - 1/2" OD DWT Series

Size	Part Number
5x1	DWTSMR112-5X1
6x.75	DWTSMR112-6X.75
9x1	DWTSMR112-9X1
9x1.25	DWTSMR112-9X1.25
10x.75	DWTSMR112-10X.75
10x1	DWTSMR112-10X1
11x.75	DWTSMR112-11X.75
11x1	DWTSMR112-11X1
11x1.5	DWTSMR112-11X1.5
12x.75	DWTSMR112-12X.75
12x1	DWTSMR112-12X1
12x1.5	DWTSMR112-12X1.5
12x2	DWTSMR112-12X2
13x.5	DWTSMR112-13X.5
13x1	DWTSMR112-13X1
13x1.25	DWTSMR112-13X1.25
13x1.5	DWTSMR112-13X1.5
13x1.75	DWTSMR112-13X1.75
13x2	DWTSMR112-13X2

Size	Part Number
14x.5	DWTSMR112-14X.5
14x.75	DWTSMR112-14X.75
14x1	DWTSMR112-14X1
14x1.75	DWTSMR112-14X1.75
15x.5	DWTSMR112-15X.5
15x.75	DWTSMR112-15X.75
15x1	DWTSMR112-15X1
15x1.25	DWTSMR112-15X1.25
15x1.5	DWTSMR112-15X1.5
15x1.75	DWTSMR112-15X1.75
15x2	DWTSMR112-15X2
16x.5	DWTSMR112-16X.5
16x.75	DWTSMR112-16X.75
16x1	DWTSMR112-16X1
16x1.75	DWTSMR112-16X1.75
16x2.5	DWTSMR112-16X2.5
17x.5	DWTSMR112-17X.5
17x1	DWTSMR112-17X1
17x1.5	DWTSMR112-17X1.5

Size	Part Number
17x1.75	DWTSMR112-17X1.75
17x2	DWTSMR112-17X2
18x.5	DWTSMR112-18X.5
18x.75	DWTSMR112-18X.75
18x1	DWTSMR112-18X1
18x1.25	DWTSMR112-18X1.25
18x2	DWTSMR112-18X2
19x.5	DWTSMR112-19X.5
19x.75	DWTSMR112-19X.75
19x1	DWTSMR112-19X1
19x1.25	DWTSMR112-19X1.25
19x2	DWTSMR112-19X2
20x.5	DWTSMR112-20X.5
20x.75	DWTSMR112-20X.75
20x1	DWTSMR112-20X1
20x1.25	DWTSMR112-20X1.25
20x1.75	DWTSMR112-20X1.75
20x2	DWTSMR112-20X2



# ROUND DIES

## HSS METRIC SPECIAL SIZES

### 2" OD DWT Series

Size	Part Number
18x1	DWTSMR2-18X1
18x2	DWTSMR2-18X2
20x1	DWTSMR2-20X1
20x2	DWTSMR2-20X2
21x1.5	DWTSMR2-21X1.5
21x1.75	DWTSMR2-21X1.75
21x2	DWTSMR2-21X2
22x1.25	DWTSMR2-22X1.25
22x2	DWTSMR2-22X2
23x1	DWTSMR2-23X1
23x2	DWTSMR2-23X2

Size	Part Number
23x2.5	DWTSMR2-23X2.5
24x1	DWTSMR2-24X1
24x1.5	DWTSMR2-24X1.5
24x2.5	DWTSMR2-24X2.5
25x1	DWTSMR2-25X1
25x1.5	DWTSMR2-25X1.5
25x2.5	DWTSMR2-25X2.5
25x3	DWTSMR2-25X3
26x1	DWTSMR2-26X1
26x1.5	DWTSMR2-26X1.5
26x2	DWTSMR2-26X2

Size	Part Number
26x2.5	DWTSMR2-26X2.5
26x3	DWTSMR2-26X3
27x1	DWTSMR2-27X1
27x1.25	DWTSMR2-27X1.25
27x1.5	DWTSMR2-27X1.5
27x2.5	DWTSMR2-27X2.5
28x2.5	DWTSMR2-28X2.5
30x1.5	DWTSMR2-30X1.5

### 2 - 1/2" OD DWT Series

Size	Part Number
24x1.5	DWTSMR212-24X1.5
26x1	DWTSMR212-26X1
26x1.5	DWTSMR212-26X1.5
27x2.5	DWTSMR212-27X2.5
28x1.5	DWTSMR212-28X1.5
28x2	DWTSMR212-28X2
30x1	DWTSMR212-30X1
30x1.25	DWTSMR212-30X1.25

Size	Part Number
30x1.5	DWTSMR212-30X1.5
30x2.5	DWTSMR212-30X2.5
30x3	DWTSMR212-30X3
32x1.5	DWTSMR212-32X1.5
32x2.5	DWTSMR212-32X2.5
32x3	DWTSMR212-32X3
33x1	DWTSMR212-33X1
34x1.5	DWTSMR212-34X1.5

Size	Part Number
34x3	DWTSMR212-34X3
34x3.5	DWTSMR212-34X3.5
36x1.5	DWTSMR212-36X1.5
36x2	DWTSMR212-36X2
38x1.5	DWTSMR212-38X1.5
38x3	DWTSMR212-38X3
38x4	DWTSMR212-38X4

### 3" OD DWT Series

Size	Part Number
30x1.5	DWTSMR3-30X1.5
39x1.5	DWTSMR3-39X1.5
40x1.5	DWTSMR3-40X1.5
42x1.5	DWTSMR3-42X1.5
42x3	DWTSMR3-42X3
42x4.5	DWTSMR3-42X4.5

Size	Part Number
45x1.5	DWTSMR3-45X1.5
45x3	DWTSMR3-45X3
46x4.5	DWTSMR3-46X4.5
48x3	DWTSMR3-48X3
48x5	DWTSMR3-48X5



# ROUND DIES

H S S L E F T H A N D S T A N D A R D S I Z E S

## 13/16" OD DWT Series

Size	Part Number
2-56	DWTH1316-256LH
4-36	DWTH1316-436LH
4-40	DWTH1316-440LH
4-48	DWTH1316-448LH
5-40	DWTH1316-540LH
5-44	DWTH1316-544LH
6-32	DWTH1316-632LH
6-40	DWTH1316-640LH
8-32	DWTH1316-832LH
8-36	DWTH1316-836LH
10-24	DWTH1316-1024LH
10-32	DWTH1316-1032LH
12-24	DWTH1316-1224LH
12-28	DWTH1316-1228LH
1/4"-20	DWTH1316-1420LH
1/4"-28	DWTH1316-1428LH
5/16"-18	DWTH1316-51618LH
5/16"-24	DWTH1316-51624LH

## 1" OD DWT Series

Size	Part Number
5-44	DWTH1-544LH
6-32	DWTH1-632LH
6-40	DWTH1-640LH
8-32	DWTH1-832LH
8-36	DWTH1-836LH
10-24	DWTH1-1024LH
10-32	DWTH1-1032LH
12-24	DWTH1-1224LH
12-28	DWTH1-1228LH
1/4"-20	DWTH1-1420LH
1/4"-28	DWTH1-1428LH
5/16"-18	DWTH1-51618LH
5/16"-24	DWTH1-51624LH
3/8"-16	DWTH1-3816LH
3/8"-24	DWTH1-3824LH
7/16"-14	DWTH1-71614LH
7/16"-20	DWTH1-71620LH
1/2"-13	DWTH1-1213LH
1/2"-20	DWTH1-1220LH

## 1 - 1/2" OD DWT Series

Size	Part Number
1/4"-20	DWTH112-1420LH
1/4"-28	DWTH112-1428LH
5/16"-18	DWTH112-51618LH
5/16"-24	DWTH112-51624LH
3/8"-16	DWTH112-3816LH
3/8"-24	DWTH112-3824LH
7/16"-14	DWTH112-71614LH
7/16"-20	DWTH112-71620LH
1/2"-13	DWTH112-1213LH
1/2"-20	DWTH112-1220LH
9/16"-12	DWTH112-91612LH
9/16"-18	DWTH112-91618LH
5/8"-11	DWTH112-5811LH
5/8"-18	DWTH112-5818LH
11/16"-11	DWTH112-111611LH
11/16"-16	DWTH112-111616LH
3/4"-10	DWTH112-3410LH
3/4"-16	DWTH112-3416LH

## 2" OD DWT Series

Size	Part Number
9/16"-12	DWTH2-91612LH
9/16"-18	DWTH2-91618LH
5/8"-11	DWTH2-5811LH
5/8"-18	DWTH2-5818LH
3/4"-10	DWTH2-3410LH
3/4"-16	DWTH2-3416LH
7/8"-9	DWTH2-789LH
7/8"-14	DWTH2-7814LH
1"-8	DWTH2-18LH
1"-12	DWTH2-112LH
1"-14	DWTH2-114LH

## 2 - 1/2" OD DWT Series

Size	Part Number
1-1/8"-7	DWTH212-1187LH
1-1/8"-12	DWTH212-11812LH
1-1/4"-7	DWTH212-1147LH
1-1/4"-12	DWTH212-11412LH
1-3/8"-6	DWTH212-1386LH
1-3/8"-12	DWTH212-13812LH
1-1/2"-6	DWTH212-1126LH
1-1/2"-12	DWTH212-11212LH



# ROUND DIES

## HSS NPT THREAD SIZES

### 1" OD DWT Series

Size	Part Number
1/16"NPT	DWTH1-116NPT
1/8"NPT	DWTH1-18NPT

### 1 - 1/2" OD DWT Series

Size	Part Number
1/8"NPT	DWTH112-18NPT
1/4"NPT	DWTH112-14NPT
3/8"NPT	DWTH112-38NPT
1/2"NPT	DWTH112-12NPT

### 2" OD DWT Series

Size	Part Number
3/8"NPT	DWTH2-38NPT
1/2"NPT	DWTH2-12NPT
3/4"NPT	DWTH2-34NPT

### 2 - 1/2" OD DWT Series

Size	Part Number
3/4"NPT	DWTH212-34NPT
1"NPT	DWTH212-1NPT

### 3" OD DWT Series

Size	Part Number
1-1/4"NPT	DWTH3-114NPT
1-1/2"NPT	DWTH3-112NPT



## HSS NPS THREAD SIZES

### 1" OD DWT Series

Size	Part Number
1/16"NPS	DWTH1-116NPS
1/8"NPS	DWTH1-18NPS

### 1 - 1/2" OD DWT Series

Size	Part Number
1/8"NPS	DWTH112-18NPS
1/4"NPS	DWTH112-14NPS
3/8"NPS	DWTH112-38NPS
1/2"NPS	DWTH112-12NPS

### 2" OD DWT Series

Size	Part Number
3/8"NPS	DWTH2-38NPS
1/2"NPS	DWTH2-12NPS
3/4"NPS	DWTH2-34NPS

### 2 - 1/2" OD DWT Series

Size	Part Number
3/4"NPS	DWTH212-34NPS
1"NPS	DWTH212-1NPS

### 3" OD DWT Series

Size	Part Number
1-1/4"NPS	DWTH3-114NPS
1-1/2"NPS	DWTH3-112NPS

### DWT Series

Size	Part Number
5/8"	DWTDS5/8
13/16"	DWTDS13/16
1"	DWTDS1INCH
1-1/2"	DWTDS1-1/2
2"	DWTDS2INCH
2-1/2"	DWTDS2-1/2
3"	DWTDS3INCH

## DIE STOCKS



# CARBIDE TIPPED HOLE CUTTERS

## DMS Series - 3/16" Depth of Cut

## CTH Series - 1" Depth of Cut

Carbide Tipped Hole Cutters provide an easy and efficient way to drill larger diameter holes without requiring large drill bits and extra large chucks.

\*3PC SET (7/8", 1-1/8" and 1-3/8") \*6PC SET (5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 2 Pilot Drills and Allen Keys)

\*8 PC DMS SET (7/8", 1-1/8", 1-3/8", 1-1/2", 2", 2-1/2", Pilot Drill, Hex Key) \*8 PC CTH SET (5/8", 3/4", 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2 Pilot Drills and Allen Keys) \*8mm Pilot - CTH sizes 2-3/8"

Size	DMS Series		CTH Series	
	Part Number	Shank	Part Number	Shank
9/16"	--	--	CTH0562	1/2"
5/8"	DMS04-8016	7/16"	CTH0625	1/2"
11/16"	DMS04-8017	7/16"	CTH0687	1/2"
3/4"	DMS04-8019	7/16"	CTH0750	1/2"
13/16"	DMS04-8021	7/16"	CTH0812	1/2"
7/8"	DMS04-8022	7/16"	CTH0875	1/2"
15/16"	DMS04-8024	7/16"	CTH0937	1/2"
1"	DMS04-8025	7/16"	CTH1000	1/2"
1-1/16"	DMS04-8027	7/16"	CTH1062	1/2"
1-1/8"	DMS04-8028	7/16"	CTH1125	1/2"
1-3/16"	DMS04-8030	7/16"	CTH1187	1/2"
1-1/4"	DMS04-8032	7/16"	CTH1250	1/2"
1-5/16"	DMS04-8033	7/16"	CTH1312	1/2"
1-3/8"	DMS04-8035	7/16"	CTH1375	1/2"
1-7/16"	DMS04-8037	7/16"	CTH1437	1/2"
1-1/2"	DMS04-8038	7/16"	CTH1500	1/2"
1-9/16"	DMS04-8040	7/16"	CTH1562	1/2"
1-5/8"	DMS04-8041	7/16"	CTH1625	1/2"
1-11/16"	DMS04-8043	7/16"	CTH1687	1/2"
1-3/4"	DMS04-8044	7/16"	CTH1750	1/2"
1-13/16"	DMS04-8046	7/16"	CTH1812	1/2"
1-7/8"	DMS04-8048	7/16"	CTH1875	1/2"
1-15/16"	DMS04-8050	7/16"	CTH1937	1/2"
2"	DMS04-8051	7/16"	CTH2000	1/2"
2-1/16"	DMS04-8052	7/16"	CTH2062	1/2"
2-1/8"	DMS04-8054	7/16"	CTH2125	1/2"
2-3/16"	DMS04-8055	7/16"	CTH2187	1/2"
2-1/4"	DMS04-8057	7/16"	CTH2250	1/2"
2-5/16"	DMS04-8059	1/2"	CTH2312	1/2"
2-3/8"	DMS04-8060	1/2"	CTH2375	1/2"
2-7/16"	DMS04-8062	1/2"	CTH2437	1/2"
2-1/2"	DMS04-8064	1/2"	CTH2500	1/2"
2-9/16"	DMS04-8065	1/2"	CTH2562	1/2"
2-5/8"	DMS04-8067	1/2"	CTH2625	1/2"
2-11/16"	DMS04-8068	1/2"	CTH2687	1/2"
2-3/4"	DMS04-8070	1/2"	CTH2750	1/2"
2-13/16"	DMS04-8071	1/2"	CTH2812	1/2"
2-7/8"	DMS04-8073	1/2"	CTH2875	1/2"
2-15/16"	DMS04-8075	1/2"	CTH2937	1/2"
3"	DMS04-8076	1/2"	CTH3000	1/2"
3-1/16"	--	--	CTH3062	1/2"
3-1/8"	--	--	CTH3125	1/2"
3-3/16"	--	--	CTH3187	1/2"
3-1/4"	--	--	CTH3250	1/2"
3-5/16"	--	--	CTH3312	1/2"
3-3/8"	--	--	CTH3375	1/2"
3-7/16"	--	--	CTH3437	1/2"
3-1/2"	--	--	CTH3500	1/2"
3-9/16"	--	--	CTH3562	1/2"
3-5/8"	--	--	CTH3625	1/2"
3-11/16"	--	--	CTH3687	1/2"
3-3/4"	--	--	CTH3750	1/2"
3-13/16"	--	--	CTH3812	1/2"
3-7/8"	--	--	CTH3875	1/2"
3-15/16"	--	--	CTH3937	1/2"
4"	--	--	CTH4000	1/2"
4-1/16"	--	--	CTH4062	1/2"
4-1/8"	--	--	CTH4125	1/2"
4-3/16"	--	--	CTH4187	1/2"
4-1/4"	--	--	CTH4250	1/2"
4-5/16"	--	--	CTH4312	1/2"
4-3/8"	--	--	CTH4375	1/2"
4-7/16"	--	--	CTH4437	1/2"
4-1/2"	--	--	CTH4500	1/2"
4-9/16"	--	--	CTH4562	1/2"
4-5/8"	--	--	CTH4625	1/2"
4-11/16"	--	--	CTH4687	1/2"
*3 PC SET	DMS04-8204	--	--	--
*6 PC SET	DMS04-8206	--	--	--
*8 PC SET	DMS04-8208	--	--	--
6MM PILOT	DMS04-PILOT	--	CTH5000	1/2"
*8MM PILOT	--	--	CTH6MM-PILOT	--
			CTH8MM-PILOT	--



# ANNULAR CUTTERS

## DWC Series - HSS Annular cutters

Designed for fast, efficient hole making. Universal cutters cut only that material necessary to produce a quality hole. Pilot pin included with each cutter. \*Sets include sizes: 9/16", 11/16", 13/16", 15/16" and 1-1/16".

	1" DOC	2" DOC	3" DOC
Size	Part Number	Part Number	Part Number
7/16"	DWC5-530-110	DWC5-530-210	-
1/2"	DWC5-530-111	DWC5-530-211	-
9/16"	DWC5-530-113	DWC5-530-213	-
5/8"	DWC5-530-116	DWC5-530-216	-
11/16"	DWC5-530-119	DWC5-530-219	-
3/4"	DWC5-530-121	DWC5-530-221	-
13/16"	DWC5-530-124	DWC5-530-224	DWC5-530-324
7/8"	DWC5-530-127	DWC5-530-227	DWC5-530-327
15/16"	DWC5-530-130	DWC5-530-230	DWC5-530-330
1"	DWC5-530-133	DWC5-530-233	DWC5-530-333
1-1/16"	DWC5-530-136	DWC5-530-236	DWC5-530-336
1-1/8"	DWC5-530-139	DWC5-530-239	DWC5-530-339
1-3/16"	DWC5-530-142	DWC5-530-242	DWC5-530-342
1-1/4"	DWC5-530-145	DWC5-530-245	DWC5-530-345
1-5/16"	DWC5-530-148	DWC5-530-248	DWC5-530-348
1-3/8"	DWC5-530-151	DWC5-530-251	DWC5-530-351
1-7/16"	DWC5-530-154	DWC5-530-254	DWC5-530-354
1-1/2"	DWC5-530-157	DWC5-530-257	DWC5-530-357
1-9/16"	DWC5-530-160	DWC5-530-260	DWC5-530-360
1-5/8"	DWC5-530-163	DWC5-530-263	DWC5-530-363
1-11/16"	DWC5-530-166	DWC5-530-266	DWC5-530-366
1-3/4"	DWC5-530-169	DWC5-530-269	DWC5-530-369
1-13/16"	DWC5-530-172	DWC5-530-272	DWC5-530-372
1-7/8"	DWC5-530-175	DWC5-530-275	DWC5-530-375
1-15/16"	DWC5-530-178	DWC5-530-278	DWC5-530-378
2"	DWC5-530-181	DWC5-530-281	DWC5-530-381
2-1/16"	DWC5-530-183	DWC5-530-283	DWC5-530-383
Pilot	DWC5-530-905	DWC5-530-915	DWC5-530-925
*Set	DWC5-530-501	DWC5-530-502	-



C A R B I D E T I P P E D

## CTC Series - Carbide Tipped Annular cutters

	1-3/8" DOC	2" DOC	3" DOC
Size	Part Number	Part Number	Part Number
1/2"	CTC5-530-111	-	-
9/16"	CTC5-530-113	CTC5-530-213	-
5/8"	CTC5-530-116	CTC5-530-216	-
11/16"	CTC5-530-119	CTC5-530-219	-
3/4"	CTC5-530-121	CTC5-530-221	CTC5-530-321
13/16"	CTC5-530-124	CTC5-530-224	CTC5-530-324
7/8"	CTC5-530-127	CTC5-530-227	CTC5-530-327
15/16"	CTC5-530-130	CTC5-530-230	CTC5-530-330
1"	CTC5-530-133	CTC5-530-233	CTC5-530-333
1-1/16"	CTC5-530-136	CTC5-530-236	CTC5-530-336
1-1/8"	CTC5-530-139	CTC5-530-239	CTC5-530-339
1-3/16"	CTC5-530-142	CTC5-530-242	CTC5-530-342
1-1/4"	CTC5-530-145	CTC5-530-245	CTC5-530-345
1-5/16"	CTC5-530-148	CTC5-530-248	CTC5-530-348
1-3/8"	CTC5-530-151	CTC5-530-251	CTC5-530-351
1-1/2"	CTC5-530-157	CTC5-530-257	CTC5-530-357
1-5/8"	CTC5-530-163	CTC5-530-263	CTC5-530-363
1-3/4"	CTC5-530-169	CTC5-530-269	CTC5-530-369
2"	CTC5-530-181	CTC5-530-281	CTC5-530-381
Pilot	CTC5-530-905	CTC5-530-915	CTC5-530-925





# HSS nACo NANO-COMPOSITE COATED BLUE ANNULAR CUTTERS WITH PILOT PIN

## ANC Series - nACo Annular Cutters

Drill America ANC Series Annular Cutters are for use with hard materials including steel, cast iron, heated and stainless steels. nACo Nano Coating permits better performance and longevity providing extra protection against oxidation, high heat and tool wear. This micro-thin coating helps keep the tool's sharpness, edge and lubricity. These cutters are made of M2 High Speed Steel, have a 3/4" Weldon Shank for use with most magnetic drill presses and come with a pilot pin. Sets include sizes: 9/16", 11/16", 13/16", 15/16" and 1-1/16".

	1" DOC	2" DOC	3" DOC
Size	Part Number	Part Number	Part Number
7/16"	ANC5-530-110	ANC5-530-210	-
1/2"	ANC5-530-111	ANC5-530-211	-
9/16"	ANC5-530-113	ANC5-530-213	-
5/8"	ANC5-530-116	ANC5-530-216	-
11/16"	ANC5-530-119	ANC5-530-219	-
3/4"	ANC5-530-121	ANC5-530-221	-
13/16"	ANC5-530-124	ANC5-530-224	ANC5-530-324
7/8"	ANC5-530-127	ANC5-530-227	ANC5-530-327
15/16"	ANC5-530-130	ANC5-530-230	ANC5-530-330
1"	ANC5-530-133	ANC5-530-233	ANC5-530-333
1-1/16"	ANC5-530-136	ANC5-530-236	ANC5-530-336
1-1/8"	ANC5-530-139	ANC5-530-239	ANC5-530-339
1-3/16"	ANC5-530-142	ANC5-530-242	ANC5-530-342
1-1/4"	ANC5-530-145	ANC5-530-245	ANC5-530-345
1-5/16"	ANC5-530-148	ANC5-530-248	ANC5-530-348
1-3/8"	ANC5-530-151	ANC5-530-251	ANC5-530-351
1-7/16"	ANC5-530-154	ANC5-530-254	ANC5-530-354
1-1/2"	ANC5-530-157	ANC5-530-257	ANC5-530-357
1-9/16"	ANC5-530-160	ANC5-530-260	ANC5-530-360
1-5/8"	ANC5-530-163	ANC5-530-263	ANC5-530-363
1-11/16"	ANC5-530-166	ANC5-530-266	ANC5-530-366
1-3/4"	ANC5-530-169	ANC5-530-269	ANC5-530-369
1-13/16"	ANC5-530-172	ANC5-530-272	ANC5-530-372
1-7/8"	ANC5-530-175	ANC5-530-275	ANC5-530-375
1-15/16"	ANC5-530-178	ANC5-530-278	ANC5-530-378
2"	ANC5-530-181	ANC5-530-281	ANC5-530-381
2-1/16"	ANC5-530-183	ANC5-530-283	ANC5-530-383
*Set	ANC5-530-501	ANC5-530-502	-



# HOLE SAWS

## BI-METAL HOLE SAWS

### DMS Series

Variable pitch teeth allow for cutting thru any wood, metal or plastic. Can be used in a wide variety of applications.

DMS Series			DMS Series		
Size	Size MM	Part Number	Size	Size MM	Part Number
9/16"	14	DMS04-1014	2-5/16"	59	DMS04-1059
5/8"	16	DMS04-1016	2-3/8"	60	DMS04-1060
11/16"	17	DMS04-1017	2-1/2"	64	DMS04-1064
3/4"	19	DMS04-1019	2-9/16"	65	DMS04-1065
13/16"	21	DMS04-1021	2-5/8"	67	DMS04-1067
7/8"	22	DMS04-1022	2-3/4"	70	DMS04-1070
15/16"	24	DMS04-1024	2-7/8"	73	DMS04-1073
1"	25	DMS04-1025	3"	76	DMS04-1076
1-1/16"	27	DMS04-1027	3-1/8"	79	DMS04-1079
1-1/8"	28	DMS04-1028	3-1/4"	83	DMS04-1083
1-3/16"	30	DMS04-1030	3-3/8"	86	DMS04-1086
1-1/4"	32	DMS04-1032	3-1/2"	89	DMS04-1089
1-5/16"	33	DMS04-1033	3-5/8"	92	DMS04-1092
1-3/8"	35	DMS04-1035	3-3/4"	95	DMS04-1095
1-7/16"	37	DMS04-1037	3-7/8"	98	DMS04-1098
1-1/2"	38	DMS04-1038	4"	102	DMS04-1102
1-9/16"	40	DMS04-1040	4-1/8"	105	DMS04-1105
1-5/8"	41	DMS04-1041	4-1/4"	108	DMS04-1108
1-11/16"	43	DMS04-1043	4-3/8"	111	DMS04-1111
1-3/4"	44	DMS04-1044	4-1/2"	114	DMS04-1114
1-13/16"	46	DMS04-1046	4-3/4"	121	DMS04-1121
1-7/8"	48	DMS04-1048	5"	127	DMS04-1127
2"	51	DMS04-1051	5-1/4"	133	DMS04-1133
2-1/16"	52	DMS04-1052	5-1/2"	140	DMS04-1140
2-1/8"	54	DMS04-1054	5-3/4"	146	DMS04-1146
2-1/4"	57	DMS04-1057	6"	152	DMS04-1152



### ARBORS & PILOTS

ARBORS & PILOTS			DMS Series	
Shank Size	Description	Part Number		
7/16"	Hex Shank Arbor, Fits 1-1/4"-6	DMS04-9002		
3/8"	Hex Shank Quick Lock Arbor, Fits 1-1/4"-6	DMS04-9004		
1/4"	Round Shank Arbor, Fits 9/16"-1-1/8"	DMS04-9005		
3/8"	Hex Shank Arbor, Fits 9/16"-1-1/8"	DMS04-9006		
7/16"	Hex Shank Arbor, Fits 9/16"-1-1/8"	DMS04-9007		
1/4"	4-1/2" O.A.L. Standard Pilot Bit	DMS04-9014		
1/4"	3-1/2" O.A.L. Standard Pilot Bit	DMS04-9015		



### KITS

KITS					DMS Series	
No. of Pieces	No. of Hole Saws	Range	No. of Arbors	No. of Pilots	Part Number	
9	6	7/8"-2-1/2"	2	1	DMS04-9108	
14	11	3/4"-3"	2	1	DMS04-9114	
16	11	7/8"-4-1/2"	3	1	DMS04-9115	
9	6	3/4"-2-1/4"	2	1	DMS04-9308	

### Hole Saw sizes included in Kit

#### ELECTRICIANS KIT 04-9108

7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"

#### MASTER ELECTRICIAN KIT 04-9115

7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 3", 3-5/8", 4-1/8", 4-1/2"

#### INDUSTRIAL KIT 04-9114

3/4", 7/8", 1", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3"

#### PLUMBERS KIT 04-9308

3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4"



# COUNTERBORES

## DEWCBR Series - HSS

Counterboring is the enlargement of a portion of a hole that has previously been formed. If the counterbored portion is shallow (1/8" or less), the operation is usually known as spot-facing; for example, a flat seat for a bolt head or nut. If, on the other hand, the hole is enlarged to a considerable depth, it is designated as counterboring. These counterbores are made of two-piece construction, having an integral shank and counterbore-cutter, and a pilot that is interchangeable, which provides flexibility in the use of the tool.

### STRAIGHT SHANK



\*Pilots can be found on Page 73

#### DEW Series

Size	Shank Size	Pilot Hole	O.A.L.	Part Number
3/16"	15/64"	3/32"	3"	DEWCBR3/16
13/64"	15/64"	3/32"	3"	DEWCBR13/64
7/32"	15/64"	3/32"	3"	DEWCBR7/32
15/64"	15/64"	3/32"	3"	DEWCBR15/64
1/4"	15/64"	3/32"	3-13/16"	DEWCBR1/4
17/64"	17/64"	3/32"	3-13/16"	DEWCBR17/64
9/32"	17/64"	3/32"	3-13/16"	DEWCBR9/32
19/64"	17/64"	3/32"	3-13/16"	DEWCBR19/64
5/16"	19/64"	3/32"	3-13/16"	DEWCBR5/16
21/64"	5/16"	3/32"	3-13/16"	DEWCBR21/64
11/32"	5/16"	3/32"	3-13/16"	DEWCBR11/32
23/64"	5/16"	3/32"	4-1/16"	DEWCBR23/64
3/8"	5/16"	5/32"	4-1/16"	DEWCBR3/8
25/64"	3/8"	5/32"	4-1/16"	DEWCBR25/64
13/32"	3/8"	5/32"	4-1/16"	DEWCBR13/32
27/64"	3/8"	5/32"	4-1/16"	DEWCBR27/64
7/16"	3/8"	5/32"	4-1/16"	DEWCBR7/16
29/64"	7/16"	5/32"	4-5/16"	DEWCBR29/64
15/32"	7/16"	3/16"	4-5/16"	DEWCBR15/32
31/64"	7/16"	3/16"	4-5/16"	DEWCBR31/64
1/2"	7/16"	3/16"	4-5/16"	DEWCBR1/2
33/64"	1/2"	3/16"	4-5/16"	DEWCBR33/64
17/32"	1/2"	3/16"	4-5/16"	DEWCBR17/32
35/64"	1/2"	3/16"	4-5/16"	DEWCBR35/64
9/16"	1/2"	3/16"	4-5/16"	DEWCBR9/16
37/64"	1/2"	3/16"	5-1/8"	DEWCBR37/64
19/32"	1/2"	3/16"	5-1/8"	DEWCBR19/32
39/64"	1/2"	3/16"	5-1/8"	DEWCBR39/64
5/8"	1/2"	3/16"	5-1/8"	DEWCBR5/8
41/64"	1/2"	3/16"	5-1/8"	DEWCBR41/64
21/32"	1/2"	3/16"	5-1/8"	DEWCBR21/32
43/64"	1/2"	3/16"	5-1/8"	DEWCBR43/64
11/16"	1/2"	3/16"	5-1/8"	DEWCBR11/16
45/64"	1/2"	1/4"	5-3/8"	DEWCBR45/64
23/32"	1/2"	1/4"	5-3/8"	DEWCBR23/32
47/64"	1/2"	1/4"	5-3/8"	DEWCBR47/64
3/4"	1/2"	1/4"	5-3/8"	DEWCBR3/4
49/64"	5/8"	1/4"	5-3/8"	DEWCBR49/64
25/32"	5/8"	1/4"	5-3/8"	DEWCBR25/32

Size	Shank Size	Pilot Hole	O.A.L.	Part Number
51/64"	5/8"	1/4"	5-3/8"	DEWCBR51/64
13/16"	5/8"	1/4"	5-3/8"	DEWCBR13/16
53/64"	3/4"	1/4"	5-3/8"	DEWCBR53/64
27/32"	3/4"	1/4"	5-3/8"	DEWCBR27/32
55/64"	3/4"	1/4"	5-3/8"	DEWCBR55/64
7/8"	3/4"	1/4"	5-3/8"	DEWCBR7/8
57/64"	3/4"	1/4"	6-1/8"	DEWCBR57/64
29/32"	3/4"	1/4"	6-1/8"	DEWCBR29/32
59/64"	3/4"	1/4"	6-1/8"	DEWCBR59/64
15/16"	3/4"	1/4"	6-1/8"	DEWCBR15/16
61/64"	3/4"	1/4"	6-3/8"	DEWCBR61/64
31/32"	3/4"	5/16"	6-3/8"	DEWCBR31/32
63/64"	3/4"	5/16"	6-3/8"	DEWCBR63/64
1"	3/4"	5/16"	6-3/8"	DEWCBR1INCH
1-1/16"	3/4"	5/16"	6-3/8"	DEWCBR1-1/16
1-1/8"	1"	5/16"	6-3/8"	DEWCBR1-1/8
1-3/16"	1"	5/16"	6-3/8"	DEWCBR1-3/16
1-1/4"	1"	3/8"	6-5/8"	DEWCBR1-1/4
1-5/16"	1"	3/8"	6-5/8"	DEWCBR1-5/16
1-3/8"	1"	3/8"	6-5/8"	DEWCBR1-3/8
1-7/16"	1-1/4"	3/8"	7-7/8"	DEWCBR1-7/16
1-1/2"	1-1/4"	3/8"	7-7/8"	DEWCBR1-1/2
1-9/16"	1-1/4"	7/16"	8-1/8"	DEWCBR1-9/16
1-5/8"	1-1/4"	7/16"	8-1/8"	DEWCBR1-5/8
1-11/16"	1-1/4"	7/16"	8-1/8"	DEWCBR1-11/16
1-3/4"	1-1/4"	7/16"	8-1/8"	DEWCBR1-3/4
1-13/16"	1-1/4"	7/16"	8-1/8"	DEWCBR1-13/16
1-7/8"	1-1/4"	7/16"	8-1/8"	DEWCBR1-7/8
1-15/16"	1-1/4"	7/16"	8-1/8"	DEWCBR1-15/16
2"	1-1/2"	1/2"	8-3/8"	DEWCBR2INCH
2-1/4"	1-1/2"	1/2"	9-7/8"	DEWCBR2-1/4
2-1/2"	1-3/4"	1/2"	9-7/8"	DEWCBR2-1/2
2-3/4"	1-3/4"	1/2"	9-7/8"	DEWCBR2-3/4
2-7/8"	1-3/4"	1/2"	9-7/8"	DEWCBR2-7/8
3"	1-3/4"	1/2"	9-7/8"	DEWCBR3INCH

### SOLID COUNTERBORES



For fillister head cap screws.

#### MACHINE SCREW

#### DEW Series

Screw Size	Pilot Dia.	Cut Dia.	O.A.L.	Part Number
2	0.085	0.155	2-1/2"	DEWCBRSOL2
3	0.098	0.176	2-1/2"	DEWCBRSOL3
4	0.111	0.198	2-5/8"	DEWCBRSOL4
5	0.124	0.220	2-5/8"	DEWCBRSOL5
6	0.137	0.241	2-5/8"	DEWCBRSOL6
8	0.163	0.285	2-3/4"	DEWCBRSOL8
10	0.189	0.328	2-7/8"	DEWCBRSOL10
12	0.215	0.372	3"	DEWCBRSOL12

#### FRACTIONAL

#### DEW Series

Pilot Dia.	Cut Dia.	Shank Size	O.A.L.	Part Number
1/4"	13/32"	5/16"	3-5/8"	DEWCBRSOL1/4
5/16"	15/32"	3/8"	4"	DEWCBRSOL5/16
3/8"	19/32"	7/16"	4-3/8"	DEWCBRSOL3/8
7/16"	21/32"	1/2"	4-3/4"	DEWCBRSOL7/16
1/2"	25/32"	9/16"	5-1/4"	DEWCBRSOL1/2

# COUNTERBORES

## DEW Series



## TAPER SHANK

Size	Pilot Hole	O.A.L.	Shank Size	Part Number
1/4"	3/32"	3-13/16"	1MT	DEWCBRTS1/4
9/32"	3/32"	3-13/16"	1MT	DEWCBRTS9/32
5/16"	3/32"	3-13/16"	1MT	DEWCBRTS5/16
3/8"	5/32"	4-1/16"	1MT	DEWCBRTS3/8
7/16"	5/32"	4-1/16"	1MT	DEWCBRTS7/16
1/2"	3/16"	4-5/16"	1MT	DEWCBRTS1/2
9/16"	3/16"	4-5/16"	1MT	DEWCBRTS9/16
5/8"	3/16"	5-1/8"	2MT	DEWCBRTS5/8
11/16"	3/16"	5-1/8"	2MT	DEWCBRTS11/16
3/4"	1/4"	5-3/8"	2MT	DEWCBRTS3/4
13/16"	1/4"	5-3/8"	2MT	DEWCBRTS13/16
27/32"	1/4"	5-3/8"	2MT	DEWCBRTS27/32
7/8"	1/4"	5-3/8"	2MT	DEWCBRTS7/8
15/16"	1/4"	6-1/8"	3MT	DEWCBRTS15/16
1"	5/16"	6-3/8"	3MT	DEWCBRTS1INCH
1-1/16"	5/16"	6-3/8"	3MT	DEWCBRTS1-1/16
1-1/8"	5/16"	6-3/8"	3MT	DEWCBRTS1-1/8
1-3/16"	5/16"	6-3/8"	3MT	DEWCBRTS1-3/16
1-1/4"	3/8"	6-5/8"	3MT	DEWCBRTS1-1/4
1-5/16"	3/8"	6-5/8"	3MT	DEWCBRTS1-5/16

Size	Pilot Hole	O.A.L.	Shank Size	Part Number
1-3/8"	3/8"	6-5/8"	3MT	DEWCBRTS1-3/8
1-7/16"	3/8"	7-7/8"	4MT	DEWCBRTS1-7/16
1-1/2"	3/8"	7-7/8"	4MT	DEWCBRTS1-1/2
1-9/16"	7/16"	8-1/8"	4MT	DEWCBRTS1-9/16
1-5/8"	7/16"	8-1/8"	4MT	DEWCBRTS1-5/8
1-11/16"	7/16"	8-1/8"	4MT	DEWCBRTS1-11/16
1-3/4"	7/16"	8-1/8"	4MT	DEWCBRTS1-3/4
1-13/16"	7/16"	8-1/8"	4MT	DEWCBRTS1-13/16
1-7/8"	7/16"	8-1/8"	4MT	DEWCBRTS1-7/8
1-15/16"	7/16"	8-1/8"	4MT	DEWCBRTS1-15/16
2"	1/2"	8-3/8"	4MT	DEWCBRTS2INCH
2-1/8"	1/2"	9-7/8"	5MT	DEWCBRTS2-1/8
2-1/4"	1/2"	9-7/8"	5MT	DEWCBRTS2-1/4
2-3/8"	1/2"	9-7/8"	5MT	DEWCBRTS2-3/8
2-1/2"	1/2"	9-7/8"	5MT	DEWCBRTS2-1/2
2-5/8"	1/2"	9-7/8"	5MT	DEWCBRTS2-5/8
2-3/4"	1/2"	9-7/8"	5MT	DEWCBRTS2-3/4
2-7/8"	1/2"	9-7/8"	5MT	DEWCBRTS2-7/8
3"	1/2"	9-7/8"	5MT	DEWCBRTS3INCH



## DEW Series

## CONTINUOUS PILOT CAPSCREW COUNTERBORES

Size	Pilot Dia.	Cutter Dia.	Shank Dia.	O.A.L.	Part Number
5	0.141	0.221	3/16"	3"	DEWCSCBR5
6	0.15	0.242	7/32"	3"	DEWCSCBR6
8	11/64"	19/64"	1/4"	3"	DEWCSCBR8
10	13/64"	21/64"	5/16"	3-1/2"	DEWCSCBR10
1/4"	9/32"	13/32"	3/8"	5"	DEWCSCBR1/4
5/16"	11/32"	1/2"	7/16"	5"	DEWCSCBR5/16
3/8"	13/32"	19/32"	1/2"	6"	DEWCSCBR3/8

Size	Pilot Dia.	Cutter Dia.	Shank Dia.	O.A.L.	Part Number
7/16"	15/32"	11/16"	1/2"	7"	DEWCSCBR7/16
1/2"	17/32"	25/32"	3/4"	7-1/2"	DEWCSCBR1/2
5/8"	21/32"	31/32"	3/4"	7-1/2"	DEWCSCBR5/8
3/4"	13/16"	1-3/16"	1"	8"	DEWCSCBR3/4
7/8"	15/16"	1-3/8"	1"	8"	DEWCSCBR7/8
1"	1-1/16"	1-9/16"	1"	8"	DEWCSCBR1INCH

## DEW Series

## AIRCRAFT COUNTERBORES (1/4" SHANK)

Size	Decimal Equiv	Pilot Hole	O.A.L.	Part Number
1/4"	0.2500	3/32"	2-3/8"	DEWA/CCBR1/4
9/32"	0.2813	3/32"	2-3/8"	DEWA/CCBR9/32
5/16"	0.3125	3/32"	2-3/8"	DEWA/CCBR5/16
11/32"	0.3438	3/32"	2-3/8"	DEWA/CCBR11/32
3/8"	0.3750	3/32"	2-3/8"	DEWA/CCBR3/8
13/32"	0.4063	1/8"	2-13/16"	DEWA/CCBR13/32
7/16"	0.4375	1/8"	2-13/16"	DEWA/CCBR7/16
15/32"	0.4688	1/8"	2-13/16"	DEWA/CCBR15/32
1/2"	0.5000	1/8"	2-13/16"	DEWA/CCBR1/2
17/32"	0.5313	1/8"	2-13/16"	DEWA/CCBR17/32
9/16"	0.5625	1/8"	2-13/16"	DEWA/CCBR9/16
19/32"	0.5938	1/8"	2-13/16"	DEWA/CCBR19/32
5/8"	0.6250	1/8"	2-13/16"	DEWA/CCBR5/8
21/32"	0.6563	3/16"	3-1/8"	DEWA/CCBR21/32
11/16"	0.6875	3/16"	3-1/8"	DEWA/CCBR11/16
23/32"	0.7188	3/16"	3-1/8"	DEWA/CCBR23/32
3/4"	0.7500	3/16"	3-1/8"	DEWA/CCBR3/4
25/32"	0.7813	3/16"	3-1/8"	DEWA/CCBR25/32
13/16"	0.8125	3/16"	3-1/8"	DEWA/CCBR13/16
27/32"	0.8438	3/16"	3-1/8"	DEWA/CCBR27/32
7/8"	0.8750	3/16"	3-1/8"	DEWA/CCBR7/8
29/32"	0.9063	3/16"	3-1/8"	DEWA/CCBR29/32
15/16"	0.9375	3/16"	3-1/8"	DEWA/CCBR15/16
31/32"	0.9688	3/16"	3-1/8"	DEWA/CCBR31/32
1"	1.0000	3/16"	3-1/8"	DEWA/CCBR1





# PILOTS FOR COUNTERBORES



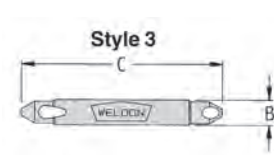
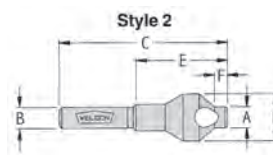
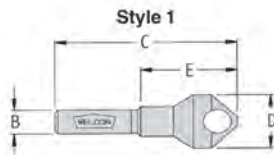
## DEWPIL Series

Size	Shank Dia.	Pilot O.A.L.	Part Number
1/8"	3/32"	1-1/4"	DEWPIL1/8X3/32
1/8"	1/8"	1-1/2"	DEWPIL1/8X1/8
5/32"	3/32"	1-1/4"	DEWPIL5/32X3/32
5/32"	1/8"	1-1/2"	DEWPIL5/32X1/8
5/32"	5/32"	1-1/2"	DEWPIL5/32X5/32
3/16"	3/32"	1-1/4"	DEWPIL3/16X3/32
3/16"	1/8"	1-1/2"	DEWPIL3/16X1/8
3/16"	5/32"	1-1/2"	DEWPIL3/16X5/32
3/16"	3/16"	1-3/4"	DEWPIL3/16X3/16
7/32"	3/32"	1-1/4"	DEWPIL7/32X3/32
7/32"	1/8"	1-1/2"	DEWPIL7/32X1/8
7/32"	5/32"	1-1/2"	DEWPIL7/32X5/32
7/32"	3/16"	1-3/4"	DEWPIL7/32X3/16
1/4"	3/32"	1-1/4"	DEWPIL1/4X3/32
1/4"	1/8"	1-1/2"	DEWPIL1/4X1/8
1/4"	5/32"	1-1/2"	DEWPIL1/4X5/32
1/4"	3/16"	1-3/4"	DEWPIL1/4X3/16
1/4"	1/4"	1-7/8"	DEWPIL1/4X1/4
9/32"	3/32"	1-1/4"	DEWPIL9/32X3/32
9/32"	1/8"	1-1/2"	DEWPIL9/32X1/8
9/32"	5/32"	1-1/2"	DEWPIL9/32X5/32
9/32"	3/16"	1-3/4"	DEWPIL9/32X3/16
5/16"	3/32"	1-1/4"	DEWPIL5/16X3/32
5/16"	1/8"	1-1/2"	DEWPIL5/16X1/8
5/16"	5/32"	1-1/2"	DEWPIL5/16X5/32
5/16"	3/16"	1-3/4"	DEWPIL5/16X3/16
5/16"	1/4"	1-7/8"	DEWPIL5/16X1/4
11/32"	3/32"	1-1/4"	DEWPIL11/32X3/32
11/32"	1/8"	1-1/2"	DEWPIL11/32X1/8
11/32"	3/16"	1-3/4"	DEWPIL11/32X3/16
11/32"	1/4"	1-7/8"	DEWPIL11/32X1/4
3/8"	3/32"	1-1/4"	DEWPIL3/8X3/32
3/8"	1/8"	1-1/2"	DEWPIL3/8X1/8
3/8"	5/32"	1-1/2"	DEWPIL3/8X5/32
3/8"	3/16"	1-3/4"	DEWPIL3/8X3/16
3/8"	1/4"	1-7/8"	DEWPIL3/8X1/4
3/8"	5/16"	2-1/8"	DEWPIL3/8X5/16
13/32"	1/8"	1-1/2"	DEWPIL13/32X1/8
13/32"	5/32"	1-1/2"	DEWPIL13/32X5/32
13/32"	3/16"	1-1/2"	DEWPIL13/32X3/16
13/32"	1/4"	1-7/8"	DEWPIL13/32X1/4
13/32"	5/16"	2-1/8"	DEWPIL13/32X5/16
13/32"	3/8"	2-3/8"	DEWPIL13/32X3/8
7/16"	3/32"	1-1/4"	DEWPIL7/16X3/32
7/16"	1/8"	1-1/2"	DEWPIL7/16X1/8
7/16"	5/32"	1-1/2"	DEWPIL7/16X5/32
7/16"	3/16"	1-3/4"	DEWPIL7/16X3/16
7/16"	1/4"	1-7/8"	DEWPIL7/16X1/4
7/16"	5/16"	2-1/8"	DEWPIL7/16X5/16
7/16"	3/8"	2-3/8"	DEWPIL7/16X3/8
15/32"	1/8"	1-1/2"	DEWPIL15/32X1/8
15/32"	3/16"	1-1/2"	DEWPIL15/32X3/16
15/32"	1/4"	1-7/8"	DEWPIL15/32X1/4
15/32"	5/16"	2-1/8"	DEWPIL15/32X5/16

Size	Shank Dia.	Pilot O.A.L.	Part Number
1/2"	3/32"	1-1/4"	DEWPIL1/2X3/32
1/2"	1/8"	1-1/2"	DEWPIL1/2X1/8
1/2"	5/32"	1-1/2"	DEWPIL1/2X5/32
1/2"	3/16"	1-3/4"	DEWPIL1/2X3/16
1/2"	1/4"	1-7/8"	DEWPIL1/2X1/4
1/2"	5/16"	2-1/8"	DEWPIL1/2X5/16
1/2"	3/8"	2-3/8"	DEWPIL1/2X3/8
1/2"	7/16"	2-5/8"	DEWPIL1/2X7/16
9/16"	3/16"	1-3/4"	DEWPIL9/16X3/16
9/16"	1/4"	1-7/8"	DEWPIL9/16X1/4
9/16"	5/16"	2-1/8"	DEWPIL9/16X5/16
9/16"	3/8"	2-3/8"	DEWPIL9/16X3/8
9/16"	7/16"	2-5/8"	DEWPIL9/16X7/16
9/16"	1/2"	2-3/4"	DEWPIL9/16X1/2
5/8"	3/16"	1-3/4"	DEWPIL5/8X3/16
5/8"	1/4"	1-7/8"	DEWPIL5/8X1/4
5/8"	5/16"	2-1/8"	DEWPIL5/8X5/16
5/8"	3/8"	2-3/8"	DEWPIL5/8X3/8
5/8"	7/16"	2-5/8"	DEWPIL5/8X7/16
5/8"	1/2"	2-3/4"	DEWPIL5/8X1/2
11/16"	1/4"	1-7/8"	DEWPIL11/16X1/4
11/16"	5/16"	2-1/8"	DEWPIL11/16X5/16
11/16"	3/8"	2-3/8"	DEWPIL11/16X3/8
11/16"	1/2"	2-3/4"	DEWPIL11/16X1/2
3/4"	3/16"	1-3/4"	DEWPIL3/4X3/16
3/4"	1/4"	1-7/8"	DEWPIL3/4X1/4
3/4"	5/16"	2-1/8"	DEWPIL3/4X5/16
3/4"	3/8"	2-3/8"	DEWPIL3/4X3/8
3/4"	7/16"	2-5/8"	DEWPIL3/4X7/16
3/4"	1/2"	2-3/4"	DEWPIL3/4X1/2
13/16"	1/4"	1-7/8"	DEWPIL13/16X1/4
13/16"	5/16"	2-1/8"	DEWPIL13/16X5/16
13/16"	3/8"	2-3/8"	DEWPIL13/16X3/8
13/16"	1/2"	2-3/4"	DEWPIL13/16X1/2
7/8"	1/4"	1-7/8"	DEWPIL7/8X1/4
7/8"	5/16"	2-1/8"	DEWPIL7/8X5/16
7/8"	3/8"	2-3/8"	DEWPIL7/8X3/8
7/8"	7/16"	2-5/8"	DEWPIL7/8X7/16
7/8"	1/2"	2-3/4"	DEWPIL7/8X1/2
15/16"	5/16"	2-1/8"	DEWPIL15/16X5/16
15/16"	3/8"	2-3/8"	DEWPIL15/16X3/8
15/16"	7/16"	2-5/8"	DEWPIL15/16X7/16
15/16"	1/2"	2-3/4"	DEWPIL15/16X1/2
1"	1/4"	1-7/8"	DEWPIL1X1/4
1"	5/16"	2-1/8"	DEWPIL1X5/16
1"	3/8"	2-3/8"	DEWPIL1X3/8
1"	7/16"	2-5/8"	DEWPIL1X7/16
1"	1/2"	2-3/4"	DEWPIL1X1/2
1-1/8"	5/16"	2-1/8"	DEWPIL1-1/8X5/16
1-1/8"	3/8"	2-3/8"	DEWPIL1-1/8X3/8
1-1/8"	7/16"	2-5/8"	DEWPIL1-1/8X7/16
1-1/8"	1/2"	2-3/4"	DEWPIL1-1/8X1/2
1-3/16"	7/16"	1-7/8"	DEWPIL1-3/16X7/16
1-3/16"	1/2"	2-1/8"	DEWPIL1-3/16X1/2



# COUNTERSINKS & DEBURRING TOOLS



WELDC Series			60° DEBURRING TOOLS					Part Number
Style	Diameter of cut Min.	Diameter of cut Max.	Shank B	O.A.L. C	D	E		
3	3/32"	11/64"	3/16"	1-1/2"			WELDC-6	
3	1/8"	15/64"	1/4"	1-3/4"			WELDC-8	
1	3/16"	13/32"	1/4"	1-3/4"	7/16"	7/8"	WELDC-14	
1	5/16"	17/32"	1/4"	1-15/16"	9/16"	1-1/16"	WELDC-18	
1	7/16"	25/32"	1/2"	2-11/16"	13/16"	1-7/16"	WELDC-26	
1	7/16"	25/32"	1/4"	2-1/8"	13/16"	1-1/4"	WELDC-26A	
1	11/16"	1-3/32"	1/2"	2-7/8"	1-1/8"	1-5/8"	WELDC-36	

## WELCS Series PILOTED 82° COUNTERSINKS

Style	Screw Size	Pilot A	Shank B	O.A.L. C	D	E	F	Part Number
2	1/4"	1/4"	3/8"	2"	33/64"	1"	5/32"	WELCS8-1
2	1/4"	17/64"	3/8"	2"	33/64"	1"	5/32"	WELCS8-2
2	5/16"	5/16"	3/8"	2-3/16"	41/64"	1-3/16"	5/32"	WELCS10-1
2	5/16"	21/64"	3/8"	2-3/16"	41/64"	1-3/16"	5/32"	WELCS10-2
2	3/8"	3/8"	1/2"	2-5/8"	49/64"	1-3/8"	5/32"	WELCS12-1
2	3/8"	25/64"	1/2"	2-5/8"	49/64"	1-3/8"	5/32"	WELCS12-2
2	7/16"	7/16"	1/2"	2-3/4"	53/64"	1-1/2"	7/32"	WELCS14-1
2	7/16"	29/64"	1/2"	2-3/4"	53/64"	1-1/2"	7/32"	WELCS14-2
2	1/2"	1/2"	1/2"	2-13/16"	15/16"	1-9/16"	1/4"	WELCS16-1
2	1/2"	33/64"	1/2"	2-13/16"	15/16"	1-9/16"	1/4"	WELCS16-2



## WELCS Series PILOTLESS 82° COUNTERSINKS

Style	Diameter of cut Min.	Diameter of cut Max.	Shank B	O.A.L. C	D	E	Part Number
3	.073"	15/64"	1/4"	1-3/4"			WELCS-3S
1	3/16"	17/32"	1/4"	1-7/8"	9/16"	1"	WELCS-18
1	.307"	25/32"	1/2"	2-5/8"	13/16"	1-3/8"	WELCS-26
1	.307"	25/32"	1/4"	2-1/16"	13/16"	1-1/4"	WELCS-26A
1	.431"	7/8"	1/2"	2-13/16"	1-1/8"	1-9/16"	WELCS-36
1	1/2"	1-15/32"	1/2"	3-1/2"	1-1/2"	2-1/8"	WELCS-48

Style	Screw Size	Pilot A	Shank B	O.A.L. C	D	E	Part Number
1	4,5		1/4"	1-1/2"	17/64"	5/8"	WELCS-5S
1	6		1/4"	1-1/2"	19/64"	5/8"	WELCS-6S
1	8		1/4"	1-5/8"	11/32"	3/4"	WELCS-8S
1	10		1/4"	1-5/8"	25/64"	3/4"	WELCS-10S



## WELDB Series 90° DEBURRING TOOLS

Style	Diameter of cut Min.	Diameter of cut Max.	Shank B	O.A.L. C	D	E	Part Number
3	1/64"	11/64"	3/16"	1-1/2"			WELDB-4
3	1/16"	11/64"	3/16"	1-1/2"			WELDB-6
3	1/8"	15/64"	1/4"	1-3/4"			WELDB-8
1	5/32"	13/32"	1/4"	1-11/16"	7/16"	13/16"	WELDB-14
1	3/16"	17/32"	1/4"	1-7/8"	9/16"	1"	WELDB-18
1	5/16"	25/32"	1/2"	2-19/32"	13/16"	1-3/8"	WELDB-26
1	5/16"	25/32"	1/4"	2-1/32"	13/16"	1-5/32"	WELDB-26A
1	9/16"	1-3/32"	1/2"	2-13/16"	1-1/8"	1-9/16"	WELDB-36
1	1/2"	1-15/32"	1/2"	3-1/2"	1-1/2"	2-1/8"	WELDB-48

## WELCSA Series 100° DEBURRING TOOLS

Style	Diameter of cut Min.	Diameter of cut Max.	Shank B	O.A.L. C	D	E	Part Number
1	3/32"	1/4"	1/4"	1-1/2"	17/64"	5/8"	WELCSA-8
1	1/8"	27/64"	1/4"	1-11/16"	7/16"	13/16"	WELCSA-14
1	3/16"	35/64"	1/4"	1-7/8"	9/16"	1"	WELCSA-18

# HSS COUNTERSINKS

## DEWSFC Series - Single Flute Countersinks

Single flute countersinks are ideal for chamfering, deburring, and countersinking. They provide a smooth finish on a variety of materials

## DEWCSK Series - 3 Flute Countersinks

3 - Flute center reamers are designed for countersinking holes for centers or to enlarge existing holes.

## DEWMSK Series - 4 Flute Countersinks

4 - Flute countersinks or machine countersinks are designed for countersinking holes for centers or to enlarge existing holes.

## DEWCHAT Series - 6 Flute Countersinks

6 - Flute or chatterless countersinks are designed to provide more metal removal than the 1, 2, 3, & 4 flute countersinks. They are also more effective on harder materials.



### DEWSFC Series

### S I N G L E F L U T E H S S

Size	Shank		60°		82°		90°		100°		120°	
	Dia.	O.A.L.	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	
3/16"	3/16"	1-1/2"	DEWSFC3/16-60	DEWSFC3/16-82	DEWSFC3/16-90	DEWSFC3/16-100	DEWSFC3/16-120					
1/4"	1/4"	2"	DEWSFC1/4-60	DEWSFC1/4-82	DEWSFC1/4-90	DEWSFC1/4-100	DEWSFC1/4-120					
5/16"	1/4"	2"	DEWSFC5/16-60	DEWSFC5/16-82	DEWSFC5/16-90	DEWSFC5/16-100	DEWSFC5/16-120					
3/8"	1/4"	2"	DEWSFC3/8-60	DEWSFC3/8-82	DEWSFC3/8-90	DEWSFC3/8-100	DEWSFC3/8-120					
1/2"	1/4"	2"	DEWSFC1/2-60	DEWSFC1/2-82	DEWSFC1/2-90	DEWSFC1/2-100	DEWSFC1/2-120					
5/8"	3/8"	2-1/4"	DEWSFC5/8-60	DEWSFC5/8-82	DEWSFC5/8-90	DEWSFC5/8-100	DEWSFC5/8-120					
3/4"	3/8"	2-3/4"	DEWSFC3/4-60	DEWSFC3/4-82	DEWSFC3/4-90	DEWSFC3/4-100	DEWSFC3/4-120					
7/8"	1/2"	2-3/4"	DEWSFC7/8-60	DEWSFC7/8-82	DEWSFC7/8-90	DEWSFC7/8-100	DEWSFC7/8-120					
1"	1/2"	2-3/4"	DEWSFC1-60	DEWSFC1-82	DEWSFC1-90	DEWSFC1-100	DEWSFC1-120					
1-1/4"	3/4"	3-3/8"	DEWSFC1-1/4-60	DEWSFC1-1/4-82	DEWSFC1-1/4-90	DEWSFC1-1/4-100	DEWSFC1-1/4-120					
1-1/2"	3/4"	3-3/8"	DEWSFC1-1/2-60	DEWSFC1-1/2-82	DEWSFC1-1/2-90	DEWSFC1-1/2-100	DEWSFC1-1/2-120					
	2"	3/4"	DEWSFC2-60	DEWSFC2-82	DEWSFC2-90	DEWSFC2-100	DEWSFC2-120					

### DEWCSK Series

### 3 F L U T E H S S ( C E N T E R R E A M E R S )

Size	Shank		60°		82°		90°		100°		120°	
	Dia.	O.A.L.	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	Part #	
1/4"	3/16"	1-1/2"	DEWCSK1/4-60	DEWCSK1/4-82	DEWCSK1/4-90	DEWCSK1/4-100	DEWCSK1/4-120					
3/8"	1/4"	1-3/4"	DEWCSK3/8-60	DEWCSK3/8-82	DEWCSK3/8-90	DEWCSK3/8-100	DEWCSK3/8-120					
1/2"	3/8"	2"	DEWCSK1/2-60	DEWCSK1/2-82	DEWCSK1/2-90	DEWCSK1/2-100	DEWCSK1/2-120					
1/2"	1/4"	2"	-	DEWCSK1/2-82x1/4	-	-	-					
5/8"	3/8"	2-1/4"	DEWCSK5/8-60	DEWCSK5/8-82	DEWCSK5/8-90	DEWCSK5/8-100	DEWCSK5/8-120					
3/4"	1/2"	2-5/8"	DEWCSK3/4-60	DEWCSK3/4-82	DEWCSK3/4-90	DEWCSK3/4-100	DEWCSK3/4-120					
7/8"	1/2"	2-3/4"	DEWCSK7/8-60	DEWCSK7/8-82	DEWCSK7/8-90	DEWCSK7/8-100	DEWCSK7/8-120					
1"	1/2"	3-1/2"	DEWCSK1-60	DEWCSK1-82	DEWCSK1-90	DEWCSK1-100	DEWCSK1-120					
1-1/4"	3/4"	3-1/2"	DEWCSK1-1/4-60	DEWCSK1-1/4-82	-	-	-					
1-1/2"	3/4"	3-1/2"	DEWCSK1-1/2-60	DEWCSK1-1/2-82	-	-	-					

### 4 F L U T E H S S ( M A C H I N E C O U N T E R S I N K S )

### DEWMSK Series

Size	Shank		60°		82°	
	Dia.	O.A.L.	Part #	Part #	Part #	Part #
1/2"	1/2"	3-7/8"	DEWMSK1/2-60	DEWMSK1/2-60		
5/8"	1/2"	4"	DEWMSK5/8-60	DEWMSK5/8-82		
3/4"	1/2"	4-1/8"	DEWMSK3/4-60	DEWMSK3/4-82		
7/8"	1/2"	4-1/4"	DEWMSK7/8-60	DEWMSK7/8-82		
1"	1/2"	4-3/8"	DEWMSK1-60	DEWMSK1-82		
1-1/4"	1/2"	5"	DEWMSK1-1/4-60	DEWMSK1-1/4-82		
1-1/2"	1/2"	5-3/8"	DEWMSK1-1/2-60	DEWMSK1-1/2-82		
	2"	1/2"	DEWMSK2-60	DEWMSK2-82		

# COUNTERSINKS

6 FLUTE HSS  
CHATTERLESS (COUNTERSINKS)

## DEWCHAT Series

Size	Shank		60°		82°		90°	
	Dia.	O.A.L.	Part #	Part #	Part #	Part #		
3/16"	3/16"	1-1/2"	DEWCHAT3/16-60	DEWCHAT3/16-82	DEWCHAT3/16-90			
1/4"	1/4"	2"	DEWCHAT1/4-60	DEWCHAT1/4-82	DEWCHAT1/4-90			
5/16"	1/4"	2"	DEWCHAT5/16-60	DEWCHAT5/16-82	DEWCHAT5/16-90			
3/8"	1/4"	2"	DEWCHAT3/8-60	DEWCHAT3/8-82	DEWCHAT3/8-90			
1/2"	1/4"	2"	DEWCHAT1/2-60	DEWCHAT1/2-82	DEWCHAT1/2-90			
5/8"	1/2"	2-1/2"	DEWCHAT5/8-60	DEWCHAT5/8-82	DEWCHAT5/8-90			
3/4"	1/2"	2-3/4"	DEWCHAT3/4-60	DEWCHAT3/4-82	DEWCHAT3/4-90			
7/8"	1/2"	2-3/4"	DEWCHAT7/8-60	DEWCHAT7/8-82	DEWCHAT7/8-90			
1"	1/2"	2-3/4"	DEWCHAT1-60	DEWCHAT1-82	DEWCHAT1-90			
1-1/4"	3/4"	3-3/8"	DEWCHAT1-1/4-60	DEWCHAT1-1/4-82	DEWCHAT1-1/4-90			
1-1/2"	3/4"	3-1/2"	DEWCHAT1-1/2-60	DEWCHAT1-1/2-82	DEWCHAT1-1/2-90			
1-3/4"	1"	4-1/4"	DEWCHAT1-3/4-60	DEWCHAT1-3/4-82	DEWCHAT1-3/4-90			
2"	1"	4-3/8"	DEWCHAT2-60	DEWCHAT2-82	DEWCHAT2-90			



## DEWCHAT Series

Size	Shank		100°		120°	
	Dia.	O.A.L.	Part #	Part #	Part #	Part #
3/16"	3/16"	1-1/2"	DEWCHAT3/16-100	DEWCHAT3/16-120		
1/4"	1/4"	2"	DEWCHAT1/4-100	DEWCHAT1/4-120		
5/16"	1/4"	2"	DEWCHAT5/16-100	DEWCHAT5/16-120		
3/8"	1/4"	2"	DEWCHAT3/8-100	DEWCHAT3/8-120		
1/2"	1/4"	2"	DEWCHAT1/2-100	DEWCHAT1/2-120		
5/8"	1/2"	2-1/2"	DEWCHAT5/8-100	DEWCHAT5/8-120		
3/4"	1/2"	2-3/4"	DEWCHAT3/4-100	DEWCHAT3/4-120		
7/8"	1/2"	2-3/4"	DEWCHAT7/8-100	DEWCHAT7/8-120		
1"	1/2"	2-3/4"	DEWCHAT1-100	DEWCHAT1-120		
1-1/4"	3/4"	3-3/8"	DEWCHAT1-1/4-100	DEWCHAT1-1/4-120		
1-1/2"	3/4"	3-1/2"	DEWCHAT1-1/2-100	DEWCHAT1-1/2-120		
2"	1"	4-3/8"	DEWCHAT2-100	DEWCHAT2-120		

# COUNTERSINKS

## TSC Series - HSS

Countersink cutters may be used in all popular adjustable or micro-stop countersinking units utilizing a 1/4"-28 threaded shank drive. Made from the finest high speed tool steel. Precision ground to exacting tolerances and form relieved to insure concentricity of 100° countersink angle.

### HSS THREADED SHANK

TSC Series			3/8 Body			TSC Series			7/16 Body			TSC Series			1/2 Body		
Pilot Size	Dec. Equiv.	Part Number	Pilot Size	Dec. Equiv.	Part Number	Pilot Size	Dec. Equiv.	Part Number	Pilot Size	Dec. Equiv.	Part Number	Pilot Size	Dec. Equiv.	Part Number	Pilot Size	Dec. Equiv.	Part Number
40	.0980	TSC3/8-40	40	.0980	TSC7/16-40	3/32"	.0938	TSC1/2-3/32									
30	.1285	TSC3/8-30	1/8"	.1250	TSC7/16-1/8	40	.0980	TSC1/2-40									
27	.1440	TSC3/8-27	30	.1285	TSC7/16-30	1/8"	.1250	TSC1/2-1/8									
26	.1470	TSC3/8-26	27	.1440	TSC7/16-27	30	.1285	TSC1/2-30									
5/32"	.1562	TSC3/8-5/32	5/32"	.1562	TSC7/16-5/32	27	.1440	TSC1/2-27									
22	.1570	TSC3/8-22	21	.1590	TSC7/16-21	5/32"	.1562	TSC1/2-5/32									
21	.1590	TSC3/8-21	19	.1660	TSC7/16-19	21	.1590	TSC1/2-21									
20	.1610	TSC3/8-20	3/16"	.1875	TSC7/16-3/16	20	.1610	TSC1/2-20									
19	.1660	TSC3/8-19	12	.1890	TSC7/16-12	16	.1770	TSC1/2-16									
16	.1770	TSC3/8-16	11	.1910	TSC7/16-11	13	.1850	TSC1/2-13									
13	.1850	TSC3/8-13	10	.1935	TSC7/16-10	3/16"	.1875	TSC1/2-3/16									
3/16"	.1875	TSC3/8-3/16	1/4"	.2500	TSC7/16-1/4	12	.1890	TSC1/2-12									
12	.1890	TSC3/8-12	5/16"	.3125	TSC7/16-5/16	11	.1910	TSC1/2-11									
11	.1910	TSC3/8-11				10	.1935	TSC1/2-10									
10	.1935	TSC3/8-10				8	.1990	TSC1/2-8									
8	.1990	TSC3/8-8				7	.2010	TSC1/2-7									
7	.2010	TSC3/8-7				13/64"	.2031	TSC1/2-13/64									
6	.2040	TSC3/8-6				6	.2040	TSC1/2-6									
1/4"	.2500	TSC3/8-1/4				5	.2055	TSC1/2-5									
5/16"	.3125	TSC3/8-5/16				4	.2090	TSC1/2-4									
						3	.2130	TSC1/2-3									
						7/32"	.2188	TSC1/2-7/32									
						A	.2340	TSC1/2-A									
						D	.2460	TSC1/2-D									
						1/4"	.2500	TSC1/2-1/4									
						G	.2610	TSC1/2-G									
						J	.2770	TSC1/2-J									
						9/32"	.2812	TSC1/2-9/32									
						N	.3020	TSC1/2-N									
						O	.3090	TSC1/2-O									
						5/16"	.3125	TSC1/2-5/16									
						P	.3230	TSC1/2-P									
						R	.3390	TSC1/2-R									
						3/8"	.3750	TSC1/2-3/8									



TSC Series			5/8 Body		
Pilot Size	Dec. Equiv.	Part Number	Pilot Size	Dec. Equiv.	Part Number
40	.0980	TSC5/8-40			
30	.1285	TSC5/8-30			
21	.1590	TSC5/8-21			
13	.1850	TSC5/8-13			
3/16"	.1875	TSC5/8-3/16			
10	.1935	TSC5/8-10			
D	.2460	TSC5/8-D			
1/4"	.2500	TSC5/8-1/4			
G	.2610	TSC5/8-G			
.309	.3090	TSC5/8-.309			

\*Additional sizes available upon request

# HOLLOW CUTTERS

These one piece cutters are used for collar removal on Hi-Shear fasteners. They come with a 1/4"-28" shank.

TSC Series				
Fastener Size	D	A	Fastener Type	Part Number
1/8"	.365	.1240	Hi-Shear	TSC1/8HC
5/32"	.365	.1570	Hi-Shear	TSC5/32HC
3/16"	.438	.1875	Hi-Shear	TSC3/16HC
1/4"	.500	.2470	Hi-Shear	TSC1/4HC
5/16"	.562	.3100	Hi-Shear	TSC5/16HC
3/8"	.625	.3730	Hi-Shear	TSC3/8HC
7/16"	.750	.4340	Hi-Shear	TSC7/16HC



# COMBINED DRILL & C'SINKS

## DEWCCD Series -

60° - Used for producing center holes in work pieces which require machining between centers.

DEWCCD Series		H S S			
Size	Body Dia.	Point Dia.	Point Length	O.A.L.	Part Number
3-0	1/8"	0.020	0.020	1-1/4"	DEWCCD000
2-0	1/8"	0.025	0.025	1-1/4"	DEWCCD00
0	1/8"	1/32"	1/32"	1-1/4"	DEWCCD0
1	1/8"	3/64"	3/64"	1-1/4"	DEWCCD1
2	3/16"	5/64"	5/64"	1-7/8"	DEWCCD2
3	1/4"	7/64"	7/64"	2"	DEWCCD3
4	5/16"	1/8"	1/8"	2-1/8"	DEWCCD4
5	7/16"	3/16"	3/16"	2-3/4"	DEWCCD5
6	1/2"	7/32"	7/32"	2-3/4"	DEWCCD6
7	5/8"	1/4"	1/4"	3-1/4"	DEWCCD7
8	3/4"	5/16"	5/16"	3-1/2"	DEWCCD8
			#1-5	Set	DEWCCDS1-5
			#1-6	Set	DEWCCDS1-6



## H S S L O N G

DEW Series		Part Number
Size	O.A.L.	
1	3"	DEW1X3
1	4"	DEW1X4
1	5"	DEW1X5
1	6"	DEW1X6
2	4"	DEW2X4
2	5"	DEW2X5
2	6"	DEW2X6
3	4"	DEW3X4
3	5"	DEW3X5
3	6"	DEW3X6
4	4"	DEW4X4
4	5"	DEW4X5
4	6"	DEW4X6
5	4"	DEW5X4
5	5"	DEW5X5
5	6"	DEW5X6
6	5"	DEW6X5
6	6"	DEW6X6
7	6"	DEW7X6
8	6"	DEW8X6



DMOCCD Series		S O L I D C A R B I D E		
Size	Body Dia.	Drill Dia.	O.A.L.	Part Number
0	1/32"	1/8"	1-1/4"	DMOCCD0-60
1	3/64"	1/8"	1-1/4"	DMOCCD1-60
2	5/64"	3/16"	1-7/8"	DMOCCD2-60
3	7/64"	1/4"	2"	DMOCCD3-60
4	1/8"	5/16"	2-1/8"	DMOCCD4-60
5	3/16"	7/16"	2-3/4"	DMOCCD5-60
6	7/32"	1/2"	3"	DMOCCD6-60





# SCREW EXTRACTORS

## DEWEZ Spiral Flute Screw Extractors

Screw extractors are used expressly for removing broken or seized screws



### DEWEZ Series

Size	Bolt Size	Pipe Size	Small End	Large End	Flute Length	Drill Size	O.A.L.	Part Number
1	3/16"	-	1/16"	1/8"	1/2"	5/64"	2"	DEWEZ1
2	1/4"	-	3/32"	13/64"	7/8"	7/64"	2-3/8"	DEWEZ2
3	5/16"	-	1/8"	1/4"	1"	5/32"	2-11/16"	DEWEZ3
4	7/16"	-	3/16"	11/32"	1-1/4"	1/4"	3"	DEWEZ4
5	9/16"-3/4"	1/8"-1/4"	1/4"	7/16"	1-1/2"	17/64"	3-3/8"	DEWEZ5
6	3/4"-1"	3/8"	3/8"	19/32"	1-3/4"	13/32"	3-3/4"	DEWEZ6
7	1"-1-3/8"	1/2"	1/2"	25/32"	2-1/4"	17/32"	4-1/8"	DEWEZ7
8	1-3/8"-1-3/4"	3/4"	3/4"	1-1/32"	2-1/4"	13/16"	4-3/8"	DEWEZ8
9	1-3/4"-2-1/8"	1"	1"	1-9/32"	2-1/4"	1-1/16"	4-5/8"	DEWEZ9
10	2-1/8"-2-1/2"	1-1/4"	1-1/4"	1-9/16"	2-1/2"	1-5/16"	5"	DEWEZ10
11	2-1/2"-3"	1-1/2"	1-1/2"	1-7/8"	3"	1-9/16"	5-5/8"	DEWEZ11
12	3"-3-1/2"	2"	1-27/32"	2-5/16"	3-1/2"	1-15/16"	6-1/4"	DEWEZ12

## DEWEZSF Straight Flute Screw Extractors

Straight flute screw extractors are designed for removing broken material such as bolts and screws in softer materials. The straight flute will not enlarge material being removed.

### DEWEZSF Series

Size	Bolt Size	Pipe Size	Drill Size	O.A.L.	Part Number
1	3/16"	-	9/64"	2-1/2"	DEWEZSF1
2	1/4"	-	3/16"	2-5/8"	DEWEZSF2
3	5/16"	-	15/64"	3-1/8"	DEWEZSF3
4	7/16"	-	5/16"	4"	DEWEZSF4
5	9/16"-3/4"	1/8"-1/4"	3/8"	4-7/8"	DEWEZSF5
6	3/4"-1"	3/8"	15/32"	5-3/8"	DEWEZSF6



## POUEZ Spiral Flute Screw Extractor and Drill Bit Kit

## POUEZSF Straight Flute Screw Extractor and Drill Bit Kit

### POUEZ Series

Size	Part Number	Drill Size
1	POUEZ1	5/64"
2	POUEZ2	7/64"
3	POUEZ3	5/32"
4	POUEZ4	1/4"
5	POUEZ5	17/64"
6	POUEZ6	13/32"

### POUEZSF Series

Part Number	Drill Size
POUEZSF1	9/64"
POUEZSF2	3/16"
POUEZSF3	15/64"
POUEZSF4	5/16"
POUEZSF5	3/8"
POUEZSF6	15/32"



## DEWEZ Series Spiral Flute Screw Extractor Sets

### DEWEZ Series

Size Range	Part Number
1-5	DEWEZS1-5
1-6	DEWEZS1-6
6-9	DEWEZS6-9
*1-5	DEWEZS1-5W/DRL
*1-6	DEWEZS1-6W/DRL
1-9	DEWEZS1-9

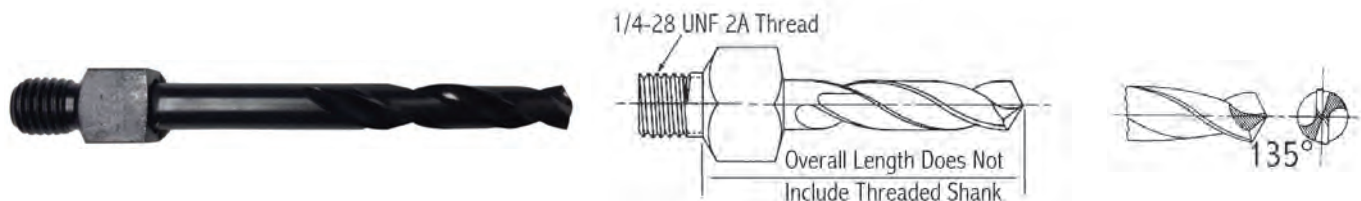


\*Set Includes corresponding drills

# THREADED SHANK DRILLS

## TSD Series

Type "D" adapter drills are made from **M42 8% cobalt high speed steel** and are manufactured to NAS 965 Type "D" specifications with 135° heavy duty split point and surface treated for drilling hard, tough, high tensile strength materials. When drilling low tensile strength materials, the Type "D" cobalt drill will have significantly greater tool life than the NAS 965 Type "B", high speed steel adapter drill, resulting in a much lower cost per hole.



## W I R E G A U G E S I Z E S

TSD Series			Stubby Series		Short Series		Long Series	
Size	Dec. Equiv.	Metric Equiv.	Part Number	O.A.L.	Part Number	O.A.L.	Part Number	O.A.L.
1	.2280	5.79mm	TSD1ST	5/8"	TSD1S	1-1/4"	TSD1L	2-1/8"
2	.2210	5.61mm	TSD2ST	5/8"	TSD2S	1-1/4"	TSD2L	2-1/8"
3	.2130	5.41mm	TSD3ST	5/8"	TSD3S	1-1/4"	TSD3L	2-1/8"
4	.2090	5.31mm	TSD4ST	5/8"	TSD4S	1-1/4"	TSD4L	2-1/8"
5	.2055	5.22mm	TSD5ST	5/8"	TSD5S	1-1/4"	TSD5L	2-1/8"
6	.2040	5.18mm	TSD6ST	5/8"	TSD6S	1-1/4"	TSD6L	2-1/8"
7	.2010	5.11mm	TSD7ST	5/8"	TSD7S	1-1/4"	TSD7L	2-1/8"
8	.1990	5.06mm	TSD8ST	5/8"	TSD8S	1-1/4"	TSD8L	2-1/8"
9	.1960	4.98mm	TSD9ST	5/8"	TSD9S	1-1/4"	TSD9L	2-1/8"
10	.1935	4.92mm	TSD10ST	5/8"	TSD10S	1-1/4"	TSD10L	2-1/8"
11	.1910	4.85mm	TSD11ST	5/8"	TSD11S	1-1/4"	TSD11L	2-1/8"
12	.1890	4.80mm	TSD12ST	5/8"	TSD12S	1-1/4"	TSD12L	2-1/8"
13	.1850	4.70mm	TSD13ST	5/8"	TSD13S	1-1/4"	TSD13L	2-1/8"
14	.1820	4.62mm	TSD14ST	5/8"	TSD14S	1-1/4"	TSD14L	2-1/8"
15	.1800	4.57mm	TSD15ST	5/8"	TSD15S	1-1/4"	TSD15L	2-1/8"
16	.1770	4.50mm	TSD16ST	5/8"	TSD16S	1-1/4"	TSD16L	2-1/8"
17	.1730	4.39mm	TSD17ST	5/8"	TSD17S	1-1/4"	TSD17L	2-1/8"
18	.1695	4.30mm	TSD18ST	5/8"	TSD18S	1-1/4"	TSD18L	2-1/8"
19	.1660	4.22mm	TSD19ST	5/8"	TSD19S	1-1/4"	TSD19L	2-1/8"
20	.1610	4.09mm	TSD20ST	5/8"	TSD20S	1-1/4"	TSD20L	2-1/8"
21	.1590	4.04mm	TSD21ST	5/8"	TSD21S	1-1/4"	TSD21L	2-1/8"
22	.1570	3.99mm	TSD22ST	5/8"	TSD22S	1-1/4"	TSD22L	2-1/8"
23	.1540	3.91mm	TSD23ST	5/8"	TSD23S	1-1/4"	TSD23L	2-1/8"
24	.1520	3.86mm	TSD24ST	5/8"	TSD24S	1-1/4"	TSD24L	2-1/8"
25	.1495	3.80mm	TSD25ST	5/8"	TSD25S	1-1/4"	TSD25L	2-1/8"
26	.1470	3.73mm	TSD26ST	9/16"	TSD26S	1-1/4"	TSD26L	2-1/8"
27	.1440	3.66mm	TSD27ST	9/16"	TSD27S	1-1/4"	TSD27L	2-1/8"
28	.1405	3.57mm	TSD28ST	9/16"	TSD28S	1-1/4"	TSD28L	2-1/8"
29	.1360	3.45mm	TSD29ST	9/16"	TSD29S	1-1/4"	TSD29L	2-1/8"
30	.1285	3.26mm	TSD30ST	9/16"	TSD30S	1-1/4"	TSD30L	2-1/8"
31	.1200	3.05mm	TSD31ST	9/16"	TSD31S	1-1/4"	TSD31L	2-1/8"
32	.1160	2.95mm	TSD32ST	9/16"	TSD32S	1-1/4"	TSD32L	2-1/8"
33	.1130	2.87mm	TSD33ST	9/16"	TSD33S	1-1/4"	TSD33L	2-1/8"
34	.1110	2.82mm	TSD34ST	9/16"	TSD34S	1-1/4"	TSD34L	2-1/8"
35	.1100	2.79mm	TSD35ST	9/16"	TSD35S	1-1/4"	TSD35L	2-1/8"
36	.1065	2.71mm	TSD36ST	9/16"	TSD36S	1-1/4"	TSD36L	2-1/8"
37	.1040	2.64mm	TSD37ST	9/16"	TSD37S	1-1/4"	TSD37L	2-1/8"
38	.1015	2.58mm	TSD38ST	9/16"	TSD38S	1-1/4"	TSD38L	2-1/8"
39	.0995	2.53mm	TSD39ST	9/16"	TSD39S	1-1/4"	TSD39L	2-1/8"
40	.0980	2.49mm	TSD40ST	1/2"	TSD40S	1"	TSD40L	2-1/8"
41	.0960	2.44mm	TSD41ST	1/2"	TSD41S	1"	TSD41L	2-1/8"
42	.0935	2.37mm	TSD42ST	1/2"	TSD42S	1"	TSD42L	2-1/8"
43	.0890	2.26mm	TSD43ST	1/2"	TSD43S	1"	TSD43L	2-1/8"
44	.0860	2.18mm	TSD44ST	1/2"	TSD44S	1"	TSD44L	2-1/8"
45	.0820	2.08mm	TSD45ST	1/2"	TSD45S	1"	TSD45L	2-1/8"
46	.0810	2.06mm	TSD46ST	1/2"	TSD46S	1"	TSD46L	2-1/8"
47	.0785	1.99mm	TSD47ST	1/2"	TSD47S	1"	TSD47L	2-1/8"
48	.0760	1.93mm	TSD48ST	1/2"	TSD48S	1"	TSD48L	2-1/8"
49	.0730	1.85mm	TSD49ST	1/2"	TSD49S	1"	TSD49L	2-1/8"
50	.0700	1.78mm	TSD50ST	1/2"	TSD50S	1"	TSD50L	2-1/8"

# THREADED SHANK DRILLS

## FRACTIONAL SIZES

TSD Series			Stubby Series		Short Series		Long Series	
Size	Dec. Equiv.	Metric Equiv.	Part Number	O.A.L.	Part Number	O.A.L.	Part Number	O.A.L.
1/8"	.1250	3.17mm	TSD1/8ST	1/2"	TSD1/8S	1"	TSD1/8L	2-1/8"
5/32"	.1562	3.97mm	TSD5/32ST	9/16"	TSD5/32S	1-1/4"	TSD5/32L	2-1/8"
3/16"	.1875	4.76mm	TSD3/16ST	9/16"	TSD3/16S	1-1/4"	TSD3/16L	2-1/8"
7/32"	.2188	5.56mm	TSD7/32ST	5/8"	TSD7/32S	1-1/4"	TSD7/32L	2-1/8"
1/4"	.2500	6.35mm	TSD1/4ST	5/8"	TSD1/4S	1-1/4"	TSD1/4L	2-1/8"
5/16"	.3125	7.94mm	TSD5/16ST	5/8"	TSD5/16S	1-1/4"	TSD5/16L	2-1/8"
3/8"	.3750	9.52mm	TSD3/8ST	3/4"	TSD3/8S	1-1/4"	TSD3/8L	2-1/8"

## LETTER SIZES

TSD Series			Stubby Series		Short Series		Long Series	
Size	Dec. Equiv.	Metric Equiv.	Part Number	O.A.L.	Part Number	O.A.L.	Part Number	O.A.L.
C	.2420	6.15mm	TSDCST	5/8"	TSDCS	1-1/4"	TSDCL	2-1/8"
D	.2460	6.25mm	TSDDST	5/8"	TSDDS	1-1/4"	TSDDL	2-1/8"
F	.2570	6.53mm	TSDFST	5/8"	TSDFS	1-1/4"	TSDFL	2-1/8"
G	.2610	6.63mm	TSDGST	5/8"	TSDGS	1-1/4"	TSDGL	2-1/8"
H	.2660	6.75mm	TSDHST	5/8"	TSDHS	1-1/4"	TSDHL	2-1/8"
J	.2770	7.03mm	TSDJST	5/8"	TSDJS	1-1/4"	TSDJL	2-1/8"
K	.2810	7.14mm	TSDKST	5/8"	TSDKS	1-1/4"	TSDKL	2-1/8"
L	.2900	7.37mm	TSDLST	5/8"	TSDLS	1-1/4"	TSDLL	2-1/8"
M	.2950	7.49mm	TSDMST	5/8"	TSDMS	1-1/4"	TSDML	2-1/8"
N	.3020	7.67mm	TSDNST	5/8"	TSDNS	1-1/4"	TSDNL	2-1/8"
O	.3160	8.03mm	TSDOST	5/8"	TSDOS	1-1/4"	TSDOL	2-1/8"

## SPECIAL LENGTHS

TSD Series			Very Stubby Series		Extra Long Series	
Size	Dec. Equiv.	Metric Equiv.	Part Number	O.A.L.	Part Number	O.A.L.
40	.0980	2.49mm	TSD40VS	3/8"	TSD40EL	2-1/2"
30	.1285	3.26mm	TSD30VS	3/8"	TSD30EL	2-3/4"
27	.1440	3.66mm	TSD27VS	3/8"	TSD27EL	3"
21	.1590	4.04mm	TSD21VS	3/8"	TSD21EL	3"
20	.1610	4.09mm	TSD20VS	3/8"	TSD20EL	3"
16	.1770	4.50mm	TSD16VS	3/8"	TSD16EL	3"
13	.1850	4.70mm	TSD13VS	3/8"	TSD13EL	3"
12	.1890	4.80mm	TSD12VS	3/8"	TSD12EL	3"
11	.1910	4.85mm	TSD11VS	3/8"	TSD11EL	3"
10	.1935	4.92mm	TSD10VS	3/8"	TSD10EL	3"
8	.1990	5.06mm	TSD8VS	3/8"	TSD8EL	3"
5	.2055	5.22mm	TSD5VS	3/8"	TSD5EL	3"
1/4"	.2500	6.35mm	TSD1/4VS	3/8"	TSD1/4EL	3"



# AIRCRAFT TAPER ROUTERS

## D/ATR Series

High Speed Steel Aircraft Taper Routers are designed for use in clearance cutting or routing, and are furnished with a right hand helix and right hand cut.



D/ATR Series					
Size	Small End Dia.	Shank Dia.	Flute Length	O.A.L.	Part Number
1	.0810	.0980	13/16"	2"	D/ATR-1
2	.1100	.1280	7/8"	2-1/4"	D/ATR-2
3	.1650	.1875	1-1/16"	2-1/2"	D/ATR-3
4	.2240	.2500	1-1/4"	2-3/4"	D/ATR-4

# CHUCKING REAMERS

## DWRR Series - HSS Straight Shank Straight Flute

## DWRRSP Series - HSS Straight Shank Spiral Flute

Chuckling Reamers are designed for accurate reaming in most materials using all types of equipment including screw machines, turret lathes, drill presses, and machining centers. They are regularly pointed with a 45 chamfer. The straight-flute design is recommended for most general purpose reaming. The right-hand spiral-flute reamer has the smooth, chatter-free action necessary for fine finishes. It is recommended over the straight-flute for more difficult materials, better surface requirements, and applications with interruption such as a keyway or cross hole.

### F R A C T I O N A L   S I Z E S

				DWRR Series	DWRRSP Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
3/64"	.0469	1/2"	2-1/2"	DWRR3/64	-
1/16"	.0625	1/2"	2-1/2"	DWRR1/16	DWRRSP1/16
5/64"	.0781	3/4"	3"	DWRR5/64	DWRRSP5/64
3/32"	.0938	3/4"	3"	DWRR3/32	DWRRSP3/32
7/64"	.1094	7/8"	3-1/2"	DWRR7/64	DWRRSP7/64
1/8"	.1250	7/8"	3-1/2"	DWRR1/8	DWRRSP1/8
9/64"	.1406	1"	4"	DWRR9/64	DWRRSP9/64
5/32"	.1562	1"	4"	DWRR5/32	DWRRSP5/32
11/64"	.1719	1-1/8"	4-1/2"	DWRR11/64	DWRRSP11/64
3/16"	.1875	1-1/8"	4-1/2"	DWRR3/16	DWRRSP3/16
13/64"	.2031	1-1/4"	5"	DWRR13/64	DWRRSP13/64
7/32"	.2188	1-1/4"	5"	DWRR7/32	DWRRSP7/32
15/64"	.2344	1-1/2"	6"	DWRR15/64	DWRRSP15/64
1/4"	.2500	1-1/2"	6"	DWRR1/4	DWRRSP1/4
17/64"	.2656	1-1/2"	6"	DWRR17/64	DWRRSP17/64
9/32"	.2812	1-1/2"	6"	DWRR9/32	DWRRSP9/32
19/64"	.2969	1-1/2"	6"	DWRR19/64	DWRRSP19/64
5/16"	.3125	1-1/2"	6"	DWRR5/16	DWRRSP5/16
21/64"	.3281	1-1/2"	6"	DWRR21/64	DWRRSP21/64
11/32"	.3438	1-1/2"	6"	DWRR11/32	DWRRSP11/32
23/64"	.3594	1-3/4"	7"	DWRR23/64	DWRRSP23/64
3/8"	.3750	1-3/4"	7"	DWRR3/8	DWRRSP3/8
25/64"	.3906	1-3/4"	7"	DWRR25/64	DWRRSP25/64
13/32"	.4062	1-3/4"	7"	DWRR13/32	DWRRSP13/32
27/64"	.4219	1-3/4"	7"	DWRR27/64	DWRRSP27/64
7/16"	.4375	1-3/4"	7"	DWRR7/16	DWRRSP7/16
29/64"	.4531	1-3/4"	7"	DWRR29/64	DWRRSP29/64
15/32"	.4688	1-3/4"	7"	DWRR15/32	DWRRSP15/32
31/64"	.4844	2"	8"	DWRR31/64	DWRRSP31/64
1/2"	.5000	2"	8"	DWRR1/2	DWRRSP1/2
33/64"	.5156	2"	8"	DWRR33/64	DWRRSP33/64
17/32"	.5312	2"	8"	DWRR17/32	DWRRSP17/32
35/64"	.5469	2"	8"	DWRR35/64	DWRRSP35/64
9/16"	.5625	2"	8"	DWRR9/16	DWRRSP9/16
37/64"	.5781	2"	8"	DWRR37/64	DWRRSP37/64
19/32"	.5938	2"	8"	DWRR19/32	DWRRSP19/32
39/64"	.6094	2"	8"	DWRR39/64	DWRRSP39/64
5/8"	.6250	2-1/4"	9"	DWRR5/8	DWRRSP5/8
41/64"	.6406	2-1/4"	9"	DWRR41/64	DWRRSP41/64
21/32"	.6562	2-1/4"	9"	DWRR21/32	DWRRSP21/32
43/64"	.6719	2-1/4"	9"	DWRR43/64	DWRRSP43/64
11/16"	.6875	2-1/4"	9"	DWRR11/16	DWRRSP11/16
45/64"	.7031	2-1/4"	9"	DWRR45/64	DWRRSP45/64
23/32"	.7188	2-1/4"	9"	DWRR23/32	DWRRSP23/32
47/64"	.7344	2-1/2"	9-1/2"	DWRR47/64	DWRRSP47/64
3/4"	.7500	2-1/2"	9-1/2"	DWRR3/4	DWRRSP3/4
49/64"	.7656	2-1/2"	9-1/2"	DWRR49/64	DWRRSP49/64
25/32"	.7812	2-1/2"	9-1/2"	DWRR25/32	DWRRSP25/32
51/64"	.7969	2-1/2"	9-1/2"	DWRR51/64	DWRRSP51/64
13/16"	.8125	2-1/2"	9-1/2"	DWRR13/16	DWRRSP13/16
53/64"	.8281	2-1/2"	9-1/2"	DWRR53/64	DWRRSP53/64
27/32"	.8438	2-1/2"	9-1/2"	DWRR27/32	DWRRSP27/32
55/64"	.8594	2-5/8"	10"	DWRR55/64	DWRRSP55/64
7/8"	.8750	2-5/8"	10"	DWRR7/8	DWRRSP7/8
57/64"	.8906	2-5/8"	10"	DWRR57/64	DWRRSP57/64
29/32"	.9062	2-5/8"	10"	DWRR29/32	DWRRSP29/32
59/64"	.9219	2-5/8"	10"	DWRR59/64	DWRRSP59/64
15/16"	.9375	2-5/8"	10"	DWRR15/16	DWRRSP15/16





# CHUCKING REAMERS

## FRACTIONAL SIZES (CONTINUED)

				DWRR Series	DWRRSP Series
Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number	Part Number
61/64"	.9531"	2-5/8"	10"	DWRR61/64	DWRRSP61/64
31/32"	.9688"	2-5/8"	10"	DWRR31/32	DWRRSP31/32
63/64"	.9844"	2-3/4"	10-1/2"	DWRR63/64	DWRRSP63/64
1"	1.0000"	2-3/4"	10-1/2"	DWRR1INCH	DWRRSP1INCH
1-1/16"	1.0625"	2-3/4"	10-1/2"	DWRR1-1/16	DWRRSP1-1/16
1-1/8"	1.1250"	2-7/8"	11"	DWRR1-1/8	DWRRSP1-1/8
1-3/16"	1.1875"	2-7/8"	11"	DWRR1-3/16	DWRRSP1-3/16
1-1/4"	1.2500"	3"	11-1/2"	DWRR1-1/4	DWRRSP1-1/4
1-5/16"	1.3125"	3"	11-1/2"	DWRR1-5/16	DWRRSP1-5/16
1-3/8"	1.3750"	3-1/4"	12"	DWRR1-3/8	DWRRSP1-3/8
1-7/16"	1.4375"	3-1/4"	12"	DWRR1-7/16	DWRRSP1-7/16
1-1/2"	1.5000"	3-1/2"	12-1/2"	DWRR1-1/2	DWRRSP1-1/2



### DWRR Series

### WIRE GAUGE SIZES

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1	.2280	1-1/2"	6"	DWRR1
2	.2210	1-1/2"	6"	DWRR2
3	.2130	1-1/4"	5"	DWRR3
4	.2090	1-1/4"	5"	DWRR4
5	.2055	1-1/4"	5"	DWRR5
6	.2040	1-1/4"	5"	DWRR6
7	.2010	1-1/4"	5"	DWRR7
8	.1990	1-1/4"	5"	DWRR8
9	.1960	1-1/4"	5"	DWRR9
10	.1935	1-1/4"	5"	DWRR10
11	.1910	1-1/4"	5"	DWRR11
12	.1890	1-1/8"	4-1/2"	DWRR12
13	.1850	1-1/8"	4-1/2"	DWRR13
14	.1820	1-1/8"	4-1/2"	DWRR14
15	.1800	1-1/8"	4-1/2"	DWRR15
16	.1770	1-1/8"	4-1/2"	DWRR16
17	.1730	1-1/8"	4-1/2"	DWRR17
18	.1695	1-1/8"	4-1/2"	DWRR18
19	.1660	1-1/8"	4-1/2"	DWRR19
20	.1610	1-1/8"	4-1/2"	DWRR20
21	.1590	1-1/8"	4-1/2"	DWRR21
22	.1570	1"	4"	DWRR22
23	.1540	1"	4"	DWRR23
24	.1520	1"	4"	DWRR24
25	.1495	1"	4"	DWRR25
26	.1470	1"	4"	DWRR26
27	.1440	1"	4"	DWRR27
28	.1405	1"	4"	DWRR28
29	.1360	1"	4"	DWRR29
30	.1285	7/8"	3-1/2"	DWRR30

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
31	.1200	7/8"	3-1/2"	DWRR31
32	.1160	7/8"	3-1/2"	DWRR32
33	.1130	7/8"	3-1/2"	DWRR33
34	.1110	7/8"	3-1/2"	DWRR34
35	.1100	7/8"	3-1/2"	DWRR35
36	.1065	7/8"	3-1/2"	DWRR36
37	.1040	7/8"	3-1/2"	DWRR37
38	.1015	7/8"	3-1/2"	DWRR38
39	.0995	7/8"	3-1/2"	DWRR39
40	.0980	7/8"	3-1/2"	DWRR40
41	.0960	7/8"	3-1/2"	DWRR41
42	.0935	3/4"	3"	DWRR42
43	.0890	3/4"	3"	DWRR43
44	.0860	3/4"	3"	DWRR44
45	.0820	3/4"	3"	DWRR45
46	.0810	3/4"	3"	DWRR46
47	.0785	3/4"	3"	DWRR47
48	.0760	3/4"	3"	DWRR48
49	.0730	3/4"	3"	DWRR49
50	.0700	3/4"	3"	DWRR50
51	.0670	3/4"	3"	DWRR51
52	.0635	1/2"	2-1/2"	DWRR52
53	.0595	1/2"	2-1/2"	DWRR53
54	.0550	1/2"	2-1/2"	DWRR54
55	.0520	1/2"	2-1/2"	DWRR55
56	.0465	1/2"	2-1/2"	DWRR56
57	.0430	1/2"	2-1/2"	DWRR57
58	.0420	1/2"	2-1/2"	DWRR58
59	.0410	1/2"	2-1/2"	DWRR59
60	.0400	1/2"	2-1/2"	DWRR60

### DWRR Series

### LETTER SIZES

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
A	.2340	1-1/2"	6"	DWRR A
B	.2380	1-1/2"	6"	DWRR B
C	.2420	1-1/2"	6"	DWRR C
D	.2460	1-1/2"	6"	DWRR D
E	.2500	1-1/2"	6"	DWRR E
F	.2570	1-1/2"	6"	DWRR F
G	.2610	1-1/2"	6"	DWRR G
H	.2660	1-1/2"	6"	DWRR H
I	.2720	1-1/2"	6"	DWRR I
J	.2770	1-1/2"	6"	DWRR J
K	.2810	1-1/2"	6"	DWRR K
L	.2900	1-1/2"	6"	DWRR L
M	.2950	1-1/2"	6"	DWRR M

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
N	.3020	1-1/2"	6"	DWRR N
O	.3160	1-1/2"	6"	DWRR O
P	.3230	1-1/2"	6"	DWRR P
Q	.3320	1-1/2"	6"	DWRR Q
R	.3390	1-1/2"	6"	DWRR R
S	.3480	1-3/4"	7"	DWRR S
T	.3580	1-3/4"	7"	DWRR T
U	.3680	1-3/4"	7"	DWRR U
V	.3770	1-3/4"	7"	DWRR V
W	.3860	1-3/4"	7"	DWRR W
X	.3970	1-3/4"	7"	DWRR X
Y	.4040	1-3/4"	7"	DWRR Y
Z	.4130	1-3/4"	7"	DWRR Z



# CHUCKING REAMERS

## METRIC SIZES

### DWRR Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1.5	.0591	1/2"	2-1/2"	DWRR1.5MM
2.0	.0787	3/4"	3"	DWRR2.0MM
2.5	.0984	7/8"	3-1/2"	DWRR2.5MM
3.0	.1181	7/8"	3-1/2"	DWRR3.0MM
3.5	.1378	1"	4"	DWRR3.5MM
4.0	.1575	1-1/8"	4-1/2"	DWRR4.0MM
4.5	.1772	1-1/8"	4-1/2"	DWRR4.5MM
5.0	.1969	1-1/4"	5"	DWRR5.0MM
5.5	.2165	1-1/4"	5"	DWRR5.5MM
6.0	.2362	1-1/2"	6"	DWRR6.0MM
6.5	.2559	1-1/2"	6"	DWRR6.5MM
7.0	.2756	1-1/2"	6"	DWRR7.0MM
7.5	.2953	1-1/2"	6"	DWRR7.5MM
8.0	.3150	1-1/2"	6"	DWRR8.0MM
8.5	.3346	1-1/2"	6"	DWRR8.5MM
9.0	.3543	1-3/4"	7"	DWRR9.0MM
9.5	.3740	1-3/4"	7"	DWRR9.5MM

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
10.0	.3937	1-3/4"	7"	DWRR10.0MM
11.0	.4331	1-3/4"	7"	DWRR11.0MM
12.0	.4724	2"	8"	DWRR12.0MM
13.0	.5118	2"	8"	DWRR13.0MM
14.0	.5512	2"	8"	DWRR14.0MM
15.0	.5906	2"	8"	DWRR15.0MM
16.0	.6299	2-1/4"	9"	DWRR16.0MM
17.0	.6693	2-1/4"	9"	DWRR17.0MM
18.0	.7087	2-1/4"	9"	DWRR18.0MM
19.0	.7480	2-1/2"	9-1/2"	DWRR19.0MM
20.0	.7874	2-1/2"	9-1/2"	DWRR20.0MM
21.0	.8268	2-1/2"	9-1/2"	DWRR21.0MM
22.0	.8661	2-5/8"	10"	DWRR22.0MM
23.0	.9055	2-5/8"	10"	DWRR23.0MM
24.0	.9449	2-3/4"	10-1/2"	DWRR24.0MM
25.0	.9843	2-3/4"	10-1/2"	DWRR25.0MM

### DWRRTS Series - Taper Shank Straight Flute

### DWRRTSSP Series - Taper Shank Spiral Flute

## TAPER SHANK FRACTIONAL SIZES



### DWRRTS Series

### DWRRTSS Series

Size	Dec. Equiv.	Morse Taper	Flute Length	O.A.L.	Part Number	Part Number
1/4"	.2500	1	1-1/2"	6"	DWRRTS1/4	-
9/32"	.2813	1	1-1/2"	6"	DWRRTS9/32	-
5/16"	.3125	1	1-1/2"	6"	DWRRTS5/16	DWRRTSSP5/16
11/32"	.3438	1	1-1/2"	6"	DWRRTS11/32	-
3/8"	.3750	1	1-3/4"	7"	DWRRTS3/8	DWRRTSSP3/8
13/32"	.4063	1	1-3/4"	7"	DWRRTS13/32	DWRRTSSP13/32
7/16"	.4375	1	1-3/4"	7"	DWRRTS7/16	DWRRTSSP7/16
15/32"	.4688	1	1-3/4"	7"	DWRRTS15/32	-
1/2"	.5000	1	2"	8"	DWRRTS1/2	DWRRTSSP1/2
17/32"	.5313	1	2"	8"	DWRRTS17/32	DWRRTSSP17/32
9/16"	.5625	1	2"	8"	DWRRTS9/16	DWRRTSSP9/16
19/32"	.5938	1	2"	8"	DWRRTS19/32	DWRRTSSP19/32
5/8"	.6250	2	2-1/4"	9"	DWRRTS5/8	DWRRTSSP5/8
21/32"	.6563	2	2-1/4"	9"	DWRRTS21/32	DWRRTSSP21/32
11/16"	.6875	2	2-1/4"	9"	DWRRTS11/16	DWRRTSSP11/16
23/32"	.7188	2	2-1/4"	9"	DWRRTS23/32	DWRRTSSP23/32
3/4"	.7500	2	2-1/4"	9-1/2"	DWRRTS3/4	DWRRTSSP3/4
13/16"	.8125	2	2-1/2"	9-1/2"	DWRRTS13/16	DWRRTSSP13/16
7/8"	.8750	2	2-5/8"	10"	DWRRTS7/8	DWRRTSSP7/8
15/16"	.9375	2	2-5/8"	10"	DWRRTS15/16	DWRRTSSP15/16
1"	1.0000	3	2-3/4"	10-1/2"	DWRRTS1INCH	DWRRTSSP1INCH
1-1/16"	1.0625	3	2-3/4"	10-1/2"	DWRRTS1-1/16	DWRRTSSP1-1/16
1-1/8"	1.1250	3	2-7/8"	11"	DWRRTS1-1/8	DWRRTSSP1-1/8
1-3/16"	1.1875	3	2-7/8"	11"	DWRRTS1-3/16	DWRRTSSP1-3/16
1-1/4"	1.2500	4	3"	11-1/2"	DWRRTS1-1/4	DWRRTSSP1-1/4
1-5/16"	1.3125	4	3"	11-1/2"	DWRRTS1-5/16	DWRRTSSP1-5/16
1-3/8"	1.3750	4	3-1/4"	12"	DWRRTS1-3/8	DWRRTSSP1-3/8
1-7/16"	1.4375	4	3-1/4"	12"	DWRRTS1-7/16	DWRRTSSP1-7/16
1-1/2"	1.5000	4	3-1/2"	12-1/2"	DWRRTS1-1/2	DWRRTSSP1-1/2

# REAMERS

## " OVER / UNDER " DOWEL PIN REAMERS

### DWRRDP Series

Size	Flute Length	O.A.L.	Part Number
*.1230	7/8"	3-1/2"	DWRRDP.1230
.1240	7/8"	3-1/2"	DWRRDP.1240
*.1247	7/8"	3-1/2"	DWRRDP.1247
.1260	7/8"	3-1/2"	DWRRDP.1260
*.1855	1-1/8"	4-1/2"	DWRRDP.1855
.1865	1-1/8"	4-1/2"	DWRRDP.1865
*.1870	1-1/8"	4-1/2"	DWRRDP.1870
.1885	1-1/8"	4-1/2"	DWRRDP.1885
*.2480	1-1/2"	6"	DWRRDP.2480
.2490	1-1/2"	6"	DWRRDP.2490
*.2495	1-1/2"	6"	DWRRDP.2495
.2510	1-1/2"	6"	DWRRDP.2510
*.3105	1-1/2"	6"	DWRRDP.3105
.3115	1-1/2"	6"	DWRRDP.3115

Size	Flute Length	O.A.L.	Part Number
*.3120	1-1/2"	6"	DWRRDP.3120
.3135	1-1/2"	6"	DWRRDP.3135
*.3730	1-3/4"	7"	DWRRDP.3730
.3740	1-3/4"	7"	DWRRDP.3740
*.3745	1-3/4"	7"	DWRRDP.3745
.3760	1-3/4"	7"	DWRRDP.3760
*.4355	1-3/4"	7"	DWRRDP.4355
.4365	1-3/4"	7"	DWRRDP.4365
*.4370	1-3/4"	7"	DWRRDP.4370
.4385	1-3/4"	7"	DWRRDP.4385
*.4980	2"	8"	DWRRDP.4980
.4990	2"	8"	DWRRDP.4990
*.4995	2"	8"	DWRRDP.4995
.5010	2"	8"	DWRRDP.5010

\*Dowel Pin Sizes



### SPECIAL DECIMAL SIZES

### DWRR Series

Size Range	
Size	To
DWRR.0400	DWRR.0620
DWRR.0630	DWRR.1245
DWRR.1250	DWRR.1870
DWRR.1880	DWRR.2180
DWRR.2190	DWRR.2500
DWRR.2510	DWRR.2810
DWRR.2820	DWRR.3120
DWRR.3130	DWRR.3740
DWRR.3760	DWRR.4370

Size Range	
Size	To
DWRR.4380	DWRR.5000
DWRR.5010	DWRR.5620
DWRR.5630	DWRR.6250
DWRR.6260	DWRR.6880
DWRR.6890	DWRR.7450
DWRR.7460	DWRR.8110
DWRR.8120	DWRR.8780
DWRR.8790	DWRR1.0030

# REAMERS

## HSS MACHINE EXPANSION REAMERS

### DWRRE Series - Straight Shank

### DWRRETS Series - Taper Shank

An economical high production reamer. Expansion feature permits reamer to be resharpened many times to its original diameter therefore saving on replacement costs. These reamers are NOT for reaming oversized holes. They may be expanded only for the purpose of regrinding to the original size. Misuse of these tools may cause damage to the tool, the workpiece and injury to the operator.



## FRACTIONAL SIZES

					DWRRE Series				DWRRETS Series
Size	Dec. Equiv.	Shank Dia.	Flute Length	O.A.L.	Part Number	Part Number	Shank		
1/4"	.2500	15/64"	5/8"	6"	DWRRE1/4	-	-	-	-
5/16"	.3125	9/32"	11/16"	6"	DWRRE5/16	-	-	-	-
3/8"	.3750	5/16"	3/4"	7"	DWRRE3/8	DWRRETS3/8	1MT		
13/32"	.4063	5/16"	3/4"	7"	DWRRE13/32	DWRRETS13/32	1MT		
7/16"	.4375	3/8"	7/8"	7"	DWRRE7/16	DWRRETS7/16	1MT		
15/32"	.4688	27/64"	7/8"	7"	DWRRE15/32	DWRRETS15/32	1MT		
1/2"	.5000	7/16"	1"	8"	DWRRE1/2	DWRRETS1/2	1MT		
17/32"	.5313	7/16"	1"	8"	DWRRE17/32	DWRRETS17/32	1MT		
9/16"	.5625	7/16"	1-1/8"	8"	DWRRE9/16	DWRRETS9/16	1MT		
19/32"	.5938	7/16"	1-1/8"	8"	DWRRE19/32	DWRRETS19/32	1MT		
5/8"	.6250	9/16"	1-1/4"	9"	DWRRE5/8	DWRRETS5/8	2MT		
21/32"	.6563	9/16"	1-1/4"	9"	DWRRE21/32	DWRRETS21/32	2MT		
11/16"	.6875	9/16"	1-1/4"	9"	DWRRE11/16	DWRRETS11/16	2MT		
23/32"	.7188	9/16"	1-1/4"	9"	DWRRE23/32	DWRRETS23/32	2MT		
3/4"	.7500	5/8"	1-3/4"	9-1/2"	DWRRE3/4	DWRRETS3/4	2MT		
25/32"	.7813	5/8"	1-3/4"	9-1/2"	DWRRE25/32	DWRRETS25/32	2MT		
13/16"	.8125	5/8"	1-3/4"	9-1/2"	DWRRE13/16	DWRRETS13/16	2MT		
27/32"	.8438	5/8"	1-3/4"	9-1/2"	DWRRE27/32	DWRRETS27/32	2MT		
7/8"	.8750	3/4"	1-1/2"	10"	DWRRE7/8	DWRRETS7/8	2MT		
29/32"	.9063	3/4"	1-1/2"	10"	DWRRE29/32	DWRRETS29/32	2MT		
15/16"	.9375	3/4"	1-1/2"	10"	DWRRE15/16	DWRRETS15/16	3MT		
31/32"	.9688	3/4"	1-1/2"	10"	DWRRE31/32	DWRRETS31/32	3MT		
1"	1.0000	7/8"	1-5/8"	10-1/2"	DWRRE1INCH	DWRRETS1INCH	3MT		
1-1/32"	1.0313	7/8"	1-5/8"	10-1/2"	DWRRE1-1/32	DWRRETS1-1/32	3MT		
1-1/16"	1.0625	7/8"	1-5/8"	10-1/2"	DWRRE1-1/16	DWRRETS1-1/16	3MT		
1-3/32"	1.0938	7/8"	1-5/8"	10-1/2"	DWRRE1-3/32	DWRRETS1-3/32	3MT		
1-1/8"	1.1250	7/8"	1-3/4"	11"	DWRRE1-1/8	DWRRETS1-1/8	3MT		
1-5/32"	1.1563	7/8"	1-3/4"	11"	DWRRE1-5/32	DWRRETS1-5/32	3MT		
1-3/16"	1.1875	1"	1-3/4"	11"	DWRRE1-3/16	DWRRETS1-3/16	3MT		
1-7/32"	1.2188	1"	1-3/4"	11"	DWRRE1-7/32	DWRRETS1-7/32	4MT		
1-1/4"	1.2500	1"	1-7/8"	11-1/2"	DWRRE1-1/4	DWRRETS1-1/4	4MT		
1-5/16"	1.3125	1"	1-7/8"	11-1/2"	DWRRE1-5/16	DWRRETS1-5/16	4MT		
1-3/8"	1.3750	1"	2"	12"	DWRRE1-3/8	DWRRETS1-3/8	4MT		
1-7/16"	1.4375	1-1/4"	2"	12"	DWRRE1-7/16	DWRRETS1-7/16	4MT		
1-1/2"	1.5000	1-1/4"	2-1/8"	12-1/2"	DWRRE1-1/2	DWRRETS1-1/2	4MT		
1-9/16"	1.5625	1-1/4"	2-1/8"	12-1/2"	DWRRE1-9/16	DWRRETS1-9/16	4MT		
1-5/8"	1.6250	1-1/4"	2-1/4"	13"	DWRRE1-5/8	DWRRETS1-5/8	4MT		
1-11/16"	1.6875	1-1/4"	2-1/4"	13"	DWRRE1-11/16	DWRRETS1-11/16	4MT		
1-3/4"	1.7500	1-1/4"	2-3/8"	13-1/2"	DWRRE1-3/4	DWRRETS1-3/4	5MT		
1-13/16"	1.8125	1-1/2"	2-3/8"	13-1/2"	DWRRE1-13/16	DWRRETS1-13/16	5MT		
1-7/8"	1.8750	1-1/2"	2-1/2"	14"	DWRRE1-7/8	DWRRETS1-7/8	5MT		
1-15/16"	1.9375	1-1/2"	2-1/2"	14"	DWRRE1-15/16	DWRRETS1-15/16	5MT		
2"	2.0000	1-1/2"	2-1/2"	14"	DWRRE2INCH	--	--	--	--

# REAMERS

## HSS HAND REAMERS

### DWRRHD Series - Straight Flute

### DWRRHDSP Series - Spiral Flute

Hand reamers are made of high-speed steel and are generally used by hand for the final sizing of holes. The square on the shank is suitable for holding in a tap wrench or a vise depending on whether the reamer or the part is rotated. A long starting taper is ground into the reamer for easy entry and accurate alignment. The straight-flute hand reamer is recommended for most hand reaming applications. The spiral-flute hand reamer is recommended for applications where there is an interrupted cut such as a keyway.

			DWRRHD Series	DWRRHDSP Series
Size	Flute Length	O.A.L.	Part Number	Part Number
1/8"	1-1/2"	3"	DWRRHD1/8	-
5/32"	1-5/8"	3-1/4"	DWRRHD5/32	-
11/64"	1-3/4"	3-1/2"	DWRRHD11/64	-
3/16"	1-3/4"	3-1/2"	DWRRHD3/16	-
7/32"	1-7/8"	3-3/4"	DWRRHD7/32	-
1/4"	2"	4"	DWRRHD1/4	DWRRHDSP1/4
17/64"	2-1/8"	4-1/4"	DWRRHD17/64	-
9/32"	2-1/8"	4-1/2"	DWRRHD9/32	-
19/64"	2-1/4"	4-1/2"	DWRRHD19/64	-
5/16"	2-1/4"	4-1/2"	DWRRHD5/16	DWRRHDSP5/16
21/64"	2-3/8"	4-3/4"	DWRRHD21/64	-
11/32"	2-3/8"	4-3/4"	DWRRHD11/32	-
23/64"	2-1/2"	5"	DWRRHD23/64	-
3/8"	2-1/2"	5"	DWRRHD3/8	DWRRHDSP3/8
13/32"	2-5/8"	5-1/4"	DWRRHD13/32	-
7/16"	2-3/4"	5-1/2"	DWRRHD7/16	DWRRHDSP7/16
29/64"	2-7/8"	5-3/4"	DWRRHD29/64	-
15/32"	2-7/8"	5-3/4"	DWRRHD15/32	-
1/2"	3"	6"	DWRRHD1/2	DWRRHDSP1/2
17/32"	3-1/8"	6-1/4"	DWRRHD17/32	DWRRHDSP17/32
35/64"	3-1/4"	6-1/2"	DWRRHD35/64	-
9/16"	3-1/4"	6-1/2"	DWRRHD9/16	DWRRHDSP9/16
19/32"	3-3/8"	6-3/4"	DWRRHD19/32	DWRRHDSP19/32
5/8"	3-1/2"	7"	DWRRHD5/8	DWRRHDSP5/8
41/64"	3-11/16"	7-3/8"	DWRRHD41/64	-
21/32"	3-11/16"	7-3/8"	DWRRHD21/32	DWRRHDSP21/32
11/16"	3-7/8"	7-3/4"	DWRRHD11/16	DWRRHDSP11/16
45/64"	4-1/16"	8-1/8"	DWRRHD45/64	-
23/32"	4-1/16"	8-1/8"	DWRRHD23/32	DWRRHDSP23/32
3/4"	4-3/16"	8-3/8"	DWRRHD3/4	DWRRHDSP3/4
25/32"	4-3/8"	8-3/4"	DWRRHD25/32	DWRRHDSP25/32
13/16"	4-9/16"	9-1/8"	DWRRHD13/16	DWRRHDSP13/16
27/32"	4-11/16"	9-3/8"	DWRRHD27/32	DWRRHDSP27/32
7/8"	4-7/8"	9-3/4"	DWRRHD7/8	DWRRHDSP7/8
29/32"	5"	10"	DWRRHD29/32	DWRRHDSP29/32
15/16"	5-1/8"	10-1/4"	DWRRHD15/16	DWRRHDSP15/16
31/32"	5-5/16"	10-5/8"	DWRRHD31/32	DWRRHDSP31/32
1"	5-7/16"	10-7/8"	DWRRHD1INCH	DWRRHDSP1INCH
1-1/16"	5-5/8"	11-1/4"	DWRRHD1-1/16	DWRRHDSP1-1/16
1-1/8"	5-13/16"	11-5/8"	DWRRHD1-1/8	DWRRHDSP1-1/8
1-3/16"	6"	12"	DWRRHD1-3/16	DWRRHDSP1-3/16
1-1/4"	6-1/8"	12-1/4"	DWRRHD1-1/4	DWRRHDSP1-1/4
1-5/16"	6-1/4"	12-1/2"	DWRRHD1-5/16	DWRRHDSP1-5/16
1-3/8"	6-5/16"	12-5/8"	DWRRHD1-3/8	DWRRHDSP1-3/8
1-7/16"	6-7/16"	12-7/8"	DWRRHD1-7/16	DWRRHDSP1-7/16
1-1/2"	6-1/2"	13"	DWRRHD1-1/2	DWRRHDSP1-1/2



# REAMERS

## HSS HAND REAMERS

### DWRRHDE Series - Straight Flute Hand Expansion Reamers

### DWRRHDES Series - Spiral Flute Hand Expansion Reamers

Hand Expansion Reamers are used to enlarge holes in order to get proper fit. Adjusting screw is tightened to get proper size.

## FRACTIONAL SIZES

			DWRRHDE Series		DWRRHDES Series	
Size	Flute Length	O.A.L.	Part Number		Part Number	
3/16"	1-1/8"	3-3/8"	DWRRHDE3/16		DWRRHDES3/16	
1/4"	1-7/16"	3-7/8"	DWRRHDE1/4		DWRRHDES1/4	
9/32"	1-3/4"	4"	DWRRHDE9/32		DWRRHDES9/32	
5/16"	1-3/4"	4"	DWRRHDE5/16		DWRRHDES5/16	
3/8"	1-3/4"	4-1/4"	DWRRHDE3/8		DWRRHDES3/8	
13/32"	1-3/4"	4-1/2"	DWRRHDE13/32		DWRRHDES13/32	
7/16"	1-3/4"	4-1/2"	DWRRHDE7/16		DWRRHDES7/16	
15/32"	1-3/4"	5"	--	--	DWRRHDES15/32	
1/2"	1-13/16"	5"	DWRRHDE1/2		DWRRHDES1/2	
17/32"	2-1/8"	5-1/2"	DWRRHDE17/32		DWRRHDES17/32	
9/16"	2-1/8"	5-1/2"	DWRRHDE9/16		DWRRHDES9/16	
19/32"	2-1/2"	6"	DWRRHDE19/32		DWRRHDES19/32	
5/8"	2-1/2"	6"	DWRRHDE5/8		DWRRHDES5/8	
21/32"	2-1/2"	6-1/4"	DWRRHDE21/32		-	
11/16"	2-1/2"	6-1/4"	DWRRHDE11/16		DWRRHDES11/16	
23/32"	2-11/16"	6-9/16"	DWRRHDE23/32		DWRRHDES23/32	
3/4"	2-11/16"	6-9/16"	DWRRHDE3/4		DWRRHDES3/4	
13/16"	3-1/16"	7-1/16"	DWRRHDE13/16		DWRRHDES13/16	
7/8"	3-5/16"	7-1/2"	DWRRHDE7/8		DWRRHDES7/8	
15/16"	3-9/16"	7-7/8"	DWRRHDE15/16		DWRRHDES15/16	
1"	3-3/4"	8-3/8"	DWRRHDE1INCH		DWRRHDES1INCH	
1-1/16"	4"	8-11/16"	DWRRHDE1-1/16		DWRRHDES1-1/16	
1-1/8"	4-1/8"	9-1/2"	DWRRHDE1-1/8		DWRRHDES1-1/8	
1-3/16"	4-1/4"	9-3/8"	DWRRHDE1-3/16		DWRRHDES1-3/16	
1-1/4"	4-3/8"	9-3/4"	DWRRHDE1-1/4		DWRRHDES1-1/4	
1-5/16"	4-1/2"	10-1/8"	DWRRHDE1-5/16		DWRRHDES1-5/16	
1-3/8"	4-9/16"	10-1/2"	DWRRHDE1-3/8		DWRRHDES1-3/8	
1-7/16"	4-3/4"	10-7/8"	--	--	DWRRHDES1-7/16	
1-1/2"	4-13/16"	11-1/8"	DWRRHDE1-1/2		DWRRHDES1-1/2	
1-5/8"	4-7/8"	11-1/2"	DWRRHDE1-5/8		DWRRHDES1-5/8	
1-3/4"	5"	11-7/8"	DWRRHDE1-3/4		DWRRHDES1-3/4	



## BALL JOINT TAPER REAMERS

### DWRBJR Series - Ball Joint Taper Reamers

High Speed Steel Ball Joint Taper Reamers are for use in enlarging or deburring tapered holes. They are commonly used in ball joint studs and tie-rod ends. Ball Joint Taper Reamers can also be used in a 1/2" chuck by simply removing the T-handle.

DWRBJR Series				
Small End	Large End	Flute Length	O.A.L.	Part Number
7/16"	1"	4-1/2"	6-1/2"	DWRBJR7/16
3/4"	1-5/16"	4-1/2"	6-1/2"	DWRBJR3/4
15/16"	1-1/2"	4-1/2"	6-1/2"	DWRBJR15/16





# BRIDGE REAMERS

## DWRRB Series - High Speed Spiral Flute Taper Shank

## DWRRBST Series - High Speed Straight Flute Taper Shank

Designed for hard service, these reamers are especially suitable for use in structural iron or steel bridgework and ship construction in lining up bolt or rivet holes. They have a sharp point and long taper for easy entry in badly misaligned holes. The taper shank bridge reamer is commonly used in electric and pneumatic portable equipment.

					DWRRB Series	DWRRBST Series
Size	Point Dia.	Morse Taper	Flute Length	O.A.L.	Part Number	Part Number
3/8"	7/32"	2	4-3/8"	8-1/4"	DWRRB3/8	-
7/16"	17/64"	2	4-3/8"	8-1/4"	DWRRB7/16	DWRRBST7/16
1/2"	5/16"	2	5-1/8"	9"	DWRRB1/2	DWRRBST1/2
9/16"	3/8"	2	5-1/8"	9"	DWRRB9/16	DWRRBST9/16
5/8"	25/64"	2	6-1/8"	10"	DWRRB5/8	DWRRBST5/8
11/16"	13/32"	3	7-1/8"	11-3/4"	DWRRB11/16	DWRRBST11/16
3/4"	15/32"	3	7-3/8"	12"	DWRRB3/4	DWRRBST3/4
13/16"	35/64"	3	7-3/8"	12"	DWRRB13/16	DWRRBST13/16
7/8"	39/64"	3	7-3/8"	12"	DWRRB7/8	DWRRBST7/8
15/16"	43/64"	3	7-3/8"	12"	DWRRB15/16	DWRRBST15/16
1"	47/64"	3	7-3/8"	12"	DWRRB1INCH	DWRRBST1INCH
1-1/16"	13/16"	3	7-3/8"	12"	DWRRB1-1/16	DWRRBST1-1/16
1-1/8"	55/64"	3	7-3/8"	12"	DWRRB1-1/8	DWRRBST1-1/8
1-3/16"	59/64"	3	7-3/8"	12"	DWRRB1-3/16	DWRRBST1-3/16
1-1/4"	63/64"	4	7-3/8"	13"	DWRRB1-1/4	DWRRBST1-1/4
1-5/16"	1-1/16"	4	7-3/8"	13"	DWRRB1-5/16	DWRRBST1-5/16
1-3/8"	1-1/8"	4	7-3/8"	13"	DWRRB1-3/8	DWRRBST1-3/8
1-7/16"	1-3/16"	4	7-3/8"	13"	DWRRB1-7/16	DWRRBST1-7/16
1-1/2"	1-1/4"	4	7-3/8"	13"	DWRRB1-1/2	DWRRBST1-1/2
1-9/16"	1-1/4"	4	7-3/8"	13"	DWRRB1-9/16	DWRRBST1-9/16
1-5/8"	1-3/8"	4	7-3/8"	13"	DWRRB1-5/8	DWRRBST1-5/8
1-11/16"	1-3/8"	4	7-3/8"	13"	DWRRB1-11/16	DWRRBST1-11/16
1-3/4"	1-7/16"	4	7-3/8"	13"	DWRRB1-3/4	DWRRBST1-3/4
1-13/16"	1-7/16"	4	7-3/8"	13"	DWRRB1-13/16	DWRRBST1-13/16
1-7/8"	1-1/2"	4	7-3/8"	13"	DWRRB1-7/8	DWRRBST1-7/8
1-15/16"	1-1/2"	4	7-3/8"	13"	DWRRB1-15/16	DWRRBST1-15/16
2"	1-3/4"	4	7-3/8"	13"	DWRRB2INCH	-



## DWRRBSS Series - High Speed Black and Bright

## KFDRBSS Series - High Speed Black and Gold

### 1 / 2 " R O U N D S H A N K

Used to align existing holes prior to bolt or rivet installation. Point is tapered to permit entry into overlapping holes. Three symmetrically placed flats on shank provide positive grip in portable electric and pneumatic tools. \*Sizes 3/8" and 7/8" have straight shanks. 5 Piece set includes sizes 3/8", 1/2", 9/16", 5/8" and 3/4". 12 Piece Set includes sizes 3/8" - 1-1/16".

				DWRRBSS Series	KFDRBSS Series
Size	Point Dia.	Flute Length	O.A.L.	Part Number	Part Number
3/8"	7/32"	2-3/4"	4-5/8"	DWRRBSS3/8	KFDRBSS3/8
7/16"	17/64"	3-1/2"	5-3/8"	DWRRBSS7/16	KFDRBSS7/16
1/2"	5/16"	4"	5-7/8"	DWRRBSS1/2	KFDRBSS1/2
9/16"	3/8"	4"	5-7/8"	DWRRBSS9/16	KFDRBSS9/16
5/8"	25/64"	4-1/2"	6-3/8"	DWRRBSS5/8	KFDRBSS5/8
11/16"	13/32"	4-1/2"	6-3/8"	DWRRBSS11/16	KFDRBSS11/16
3/4"	15/32"	5"	6-7/8"	DWRRBSS3/4	KFDRBSS3/4
13/16"	35/64"	5"	6-7/8"	DWRRBSS13/16	KFDRBSS13/16
7/8"	39/64"	5"	6-7/8"	DWRRBSS7/8	KFDRBSS7/8
15/16"	43/64"	5"	6-7/8"	DWRRBSS15/16	KFDRBSS15/16
1"	47/64"	5"	6-7/8"	DWRRBSS1INCH	KFDRBSS1INCH
1-1/16"	13/16"	5"	6-7/8"	DWRRBSS1-1/16	KFDRBSS1-1/16
5 PC.	--	--	--	DWRRBSS5PC-SET	KFDRBSS5PC-SET
12 PC.	--	--	--	DWRRBSS-SET	--



# REAMERS

## HEX SHANK BRIDGE REAMERS

### DWRRBHEX Series - High Speed Black and Bright

### KFDRBHEX Series - High Speed Black and Gold

Used to align existing holes prior to bolt or rivet installation. Point is tapered to permit entry into overlapping holes. Short length facilitates use in areas with limited access. Heavy-duty hex shank designed for portable pneumatic tools.

				DWRRBHEX Series	KFDRBHEX Series
Size	Point Dia.	Flute Length	O.A.L.	Part Number	Part Number
9/16"	3/8"	5"	6-7/8"	DWRRB9/16HEX	-
11/16"	13/32"	5"	6-7/8"	DWRRB11/16HEX	KFDRB11/16HEX
3/4"	15/32"	5"	6-7/8"	DWRRB3/4HEX	--
13/16"	35/64"	5"	6-7/8"	DWRRB13/16HEX	KFDRB13/16HEX
7/8"	39/64"	5"	6-7/8"	DWRRB7/8HEX	-
15/16"	43/64"	5"	6-7/8"	DWRRB15/16HEX	KFDRB15/16HEX
1"	47/64"	5"	6-7/8"	DWRRB1HEX	-
1-1/16"	13/16"	5"	6-7/8"	DWRRB1-1/16HEX	KFDRB1-1/16HEX
1-1/8"	55/64"	5"	6-7/8"	DWRRB1-1/8HEX	-
1-3/16"	59/64"	5"	6-7/8"	DWRRB1-3/16HEX	KFDRB1-3/16HEX
1-1/4"	63/64"	5"	6-7/8"	DWRRB1-1/4HEX	-
1-5/16"	1-1/16"	5"	6-7/8"	DWRRB1-5/16HEX	-



## HEX SHANK LONG LENGTH BRIDGE REAMERS

				DWRRBHEX Series	KFDRBHEX Series
Size	Point Dia.	Flute Length	O.A.L.	Part Number	Part Number
9/16"	3/8"	5-1/8"	9"	DWRRB9/16HEX-LONG	KFDRB9/16HEX-LONG
11/16"	13/32"	7-1/8"	11-3/4"	DWRRB11/16HEX-LONG	KFDRB11/16HEX-LONG
13/16"	35/64"	7-3/8"	12"	DWRRB13/16HEX-LONG	KFDRB13/16HEX-LONG
15/16"	43/64"	7-3/8"	12"	DWRRB15/16HEX-LONG	KFDRB15/16HEX-LONG
1-1/16"	13/16"	7-3/8"	12"	DWRRB1-1/16HEX-LONG	KFDRB1-1/16HEX-LONG
1-3/16"	59/64"	7-3/8"	12"	DWRRB1-3/16HEX-LONG	KFDRB1-3/16HEX-LONG

## MAGNETIC HEX SHANK BRIDGE REAMERS

### DWRRBHEX-MAG Series - High Speed Black and Bright

### KFDRBHEX-MAG Series - High Speed Black and Gold

For additional safety, magnet is embedded in hex shank to secure reamer in socket.

				DWRRBHEX-MAG Series	KFDRBHEX-MAG Series
Size	Point Dia.	Flute Length	O.A.L.	Part Number	Part Number
9/16"	3/8"	5"	6-7/8"	DWRRB9/16HEX-MAG	KFDRB9/16HEX-MAG
11/16"	13/32"	5"	6-7/8"	DWRRB11/16HEX-MAG	KFDRB11/16HEX-MAG
3/4"	15/32"	5"	6-7/8"	DWRRB3/4HEX-MAG	-
13/16"	35/64"	5"	6-7/8"	DWRRB13/16HEX-MAG	KFDRB13/16HEX-MAG
7/8"	39/64"	5"	6-7/8"	DWRRB7/8HEX-MAG	-
15/16"	43/64"	5"	6-7/8"	DWRRB15/16HEX-MAG	KFDRB15/16HEX-MAG
1"	47/64"	5"	6-7/8"	DWRRB1HEX-MAG	KFDRB1HEX-MAG
1-1/16"	13/16"	5"	6-7/8"	DWRRB1-1/16HEX-MAG	KFDRB1-1/16HEX-MAG
1-1/8"	55/64"	5"	6-7/8"	DWRRB1-1/8HEX-MAG	KFDRB1-1/8HEX-MAG
1-3/16"	59/64"	5"	6-7/8"	DWRRB1-3/16HEX-MAG	KFDRB1-3/16HEX-MAG
1-1/4"	63/64"	5"	6-7/8"	DWRRB1-1/4HEX-MAG	-
1-5/16"	1-1/16"	5"	6-7/8"	DWRRB1-5/16HEX-MAG	KFDRB1-5/16HEX-MAG
1-3/8"	1-1/8"	5"	6-7/8"	DWRRB1-3/8HEX-MAG	-

## LONG MAGNETIC HEX SHANK BRIDGE REAMERS

				KFDRBHEX-LONG-MAG Series
Size	Point Dia.	Flute Length	O.A.L.	Part Number
9/16"	3/8"	5-1/8"	9"	KFDRB9/16HEX-LONG-MAG
11/16"	13/32"	7-1/8"	11-3/4"	KFDRB11/16HEX-LONG-MAG
13/16"	35/64"	7-3/8"	12"	KFDRB13/16HEX-LONG-MAG
15/16"	43/64"	7-3/8"	12"	KFDRB15/16HEX-LONG-MAG
1-1/16"	13/16"	7-3/8"	12"	KFDRB1-1/16HEX-LONG-MAG
1-3/16"	59/64"	7-3/8"	12"	KFDRB1-3/16HEX-LONG-MAG

# REAMERS

## T S STRAIGHT FLUTE CAR REAMERS

### DWRCAR Series

Size	Morse Taper	Flute Length	O.A.L.	Part Number
11/16"	3	4-1/2"	8-13/16"	DWRCARST11/16
13/16"	3	5"	9-1/2"	DWRCARST13/16
15/16"	3	5"	9-1/2"	DWRCARST15/16
1"	3	5"	9-1/2"	DWRCARST1INCH



## T S SPIRAL FLUTE CAR REAMERS

### DWRCAR Series

Size	Morse Taper	Flute Length	O.A.L.	Part Number
3/8"	1	2-3/4"	5-11/16"	DWRCAR3/8
7/16"	2	3-1/2"	6-15/16"	DWRCAR7/16
11/16"	3	4-1/2"	8-13/16"	DWRCAR11/16
13/16"	3	5"	9-1/2"	DWRCAR13/16
15/16"	3	5"	9-1/2"	DWRCAR15/16
1"	3	5"	9-1/2"	DWRCAR1INCH
1-1/16"	3	5"	9-1/2"	DWRCAR1-1/16
1-3/16"	3	5"	9-1/2"	DWRCAR1-3/16



## NPT TAPER PIPE REAMERS

Taper pipe reamers are made with a taper of 3/4" per foot and are designed for reaming holes to be tapped with American Standard taper pipe taps. Taper reamer use prior to tapping with taper pipe taps provides threads of better quality and are recommended when tapping Dryseal, NPT, and Military Aeronautical Pipe Thread Specification, ANPT. The spiral fluted reamers have left hand spiral. right hand cutting flutes.

### DWRTPR Series

Size	Flute Length	Range Diameter	O.A.L.	Straight Flute	Spiral Flute
				Part Number	Part Number
1/16"	3/4"	11/32-19/64"	2"	DWRTPR1/16	DWRTPRS1/16
1/8"	3/4"	23/64-5/16"	2-1/8"	DWRTPR1/8	DWRTPRS1/8
1/4"	1-1/16"	15/32-13/32"	2-7/16"	DWRTPR1/4	DWRTPRS1/4
3/8"	1-1/16"	39/64-17/32"	2-9/16"	DWRTPR3/8	DWRTPRS3/8
1/2"	1-3/8"	3/4-21/32"	3-1/8"	DWRTPR1/2	DWRTPRS1/2
3/4"	1-3/8"	61/64-7/8"	3-1/4"	DWRTPR3/4	DWRTPRS3/4
1"	1-3/4"	1-13/64-1-3/32"	3-3/4"	DWRTPR1INCH	DWRTPRS1INCH
1-1/4"	1-3/4"	1-35/64-1-7/16"	4"	DWRTPR1-1/4	DWRTPRS1-1/4
1-1/2"	1-3/4"	1-51/64-1-11/16"	4-1/4"	DWRTPR1-1/2	DWRTPRS1-1/2
2"	1-3/4"	2-17/64-2-5/32"	4-1/2"	DWRTPR2INCH	DWRTPRS2INCH



# REAMERS

## HSS ADJUSTABLE HAND REAMERS

### DWRRADJ Series

Reamers expand by loosening one adjusting nut and tightening the other. Each reamer expands to the next size.

#### DWRRADJ Series

Size	Range	O.A.L.	Part Number
8/A	1/4"–9/32"	3-1/4"	DWRRADJ8/A
7/A	9/32"–5/16"	3-1/2"	DWRRADJ7/A
6/A	5/16"–11/32"	4-1/8"	DWRRADJ6/A
5/A	11/32"–3/8"	4-3/8"	DWRRADJ5/A
4/A	3/8"–13/32"	4-3/4"	DWRRADJ4/A
3/A	13/32"–7/16"	5"	DWRRADJ3/A
2/A	7/16"–15/32"	5-1/4"	DWRRADJ2/A
A	15/32"–17/32"	5-1/2"	DWRRADJA
B	17/32"–19/32"	5-3/4"	DWRRADJB
C	19/32"–21/32"	6-1/2"	DWRRADJC
D	21/32"–23/32"	6-3/4"	DWRRADJD

A-K 11 pc SET DWRRADJA-KSET

#### DWRRADJ Series

Size	Range	O.A.L.	Part Number
E	23/32"–25/32"	7"	DWRRADJE
F	25/32"–27/32"	7-3/8"	DWRRADJF
G	27/32"–15/16"	8"	DWRRADJG
H	15/16"–1-1/16"	9"	DWRRADJH
I	1-1/16"–1-3/16"	10"	DWRRADJI
J	1-3/16"–1-11/32"	11"	DWRRADJJ
K	1-11/32"–1-1/2"	12"	DWRRADJK
L	1-1/2"–1-13/16"	14"	DWRRADJL
M	1-13/16"–2-7/32"	16"	DWRRADJM
N	2-7/32"–2-3/4"	18"	DWRRADJN
O	2-3/4"–3-11/32"	20"	DWRRADJO



## TAPER PIN REAMERS

### DWRRTTP Series - Straight Flute

### DWRRTPH Series - Helical Flute

### DWRRTPS Series - Spiral Flute



These tapered reamers turn a straight hole into a tapered hole into which standard taper pins will fit. The straight-flute and spiral-flute reamers are generally used by hand while the helical-flute is designed for machine use. The square on the shanks of the straight and spiral fluted are suitable for holding in a tap wrench or vise. The straight flute taper pin reamer is recommended for most materials. The spiral flute taper pin reamer is recommended for applications where the reamer tends to wedge itself. The Helical-flute Taper pin reamer has the geometry for reaming holes for tapered pins with a machine. The free cutting action at high speeds produces a good finish and minimizes chip packing in the flutes.

#### DWRRTTP Series

#### DWRRTPH Series

#### DWRRTPS Series

Size	Shank Dia.	Short End	Large End	Flute Length	O.A.L.	Part Number	Part Number	Part Number
7/0	5/64"	.0497	.0666	13/16"	1-13/16"	DWRRTTP7/0	DWRRTPH7/0	DWRRTPS7/0
6/0	3/32"	.0611	.0806	15/16"	1-15/16"	DWRRTTP6/0	DWRRTPH6/0	DWRRTPS6/0
5/0	7/64"	.0719	.0966	1-3/16"	2-3/16"	DWRRTTP5/0	DWRRTPH5/0	DWRRTPS5/0
4/0	1/8"	.0869	.1142	1-5/16"	2-5/16"	DWRRTTP4/0	DWRRTPH4/0	DWRRTPS4/0
3/0	9/64"	.1029	.1302	1-5/16"	2-5/16"	DWRRTTP3/0	DWRRTPH3/0	DWRRTPS3/0
2/0	5/32"	.1137	.1462	1-9/16"	2-9/16"	DWRRTTP2/0	DWRRTPH2/0	DWRRTPS2/0
0	11/64"	.1287	.1638	1-11/16"	2-15/16"	DWRRTTP0	DWRRTPH0	DWRRTPS0
1	3/16"	.1447	.1798	1-11/16"	2-15/16"	DWRRTTP1	DWRRTPH1	DWRRTPS1
2	13/64"	.1605	.2008	1-15/16"	3-3/16"	DWRRTTP2	DWRRTPH2	DWRRTPS2
3	15/64"	.1813	.2294	2-5/16"	3-11/16"	DWRRTTP3	DWRRTPH3	DWRRTPS3
4	17/64"	.2071	.2604	2-9/16"	4-1/16"	DWRRTTP4	DWRRTPH4	DWRRTPS4
5	5/16"	.2409	.2994	2-13/16"	4-5/16"	DWRRTTP5	DWRRTPH5	DWRRTPS5
6	23/64"	.2773	.3540	3-11/16"	5-7/16"	DWRRTTP6	DWRRTPH6	DWRRTPS6
7	13/32"	.3297	.4220	4-7/16"	6-5/16"	DWRRTTP7	DWRRTPH7	DWRRTPS7
8	7/16"	.3971	.5050	5-3/16"	7-3/16"	DWRRTTP8	DWRRTPH8	DWRRTPS8
9	9/16"	.4805	.6066	6-1/16"	8-5/16"	DWRRTTP9	DWRRTPH9	DWRRTPS9
10	5/8"	.5799	.7219	6-13/16"	9-5/16"	DWRRTTP10	DWRRTPH10	DWRRTPS10
11	3/4"	.7060	.8780	8-1/4"	11-1/4"	DWRRTTP11	DWRRTPH11	DWRRTPS11
12	3/4"	.8420	1.0500	10"	13-7/8"	DWRRTTP12	DWRRTPH12	DWRRTPS12
13	1-1/16"	1.0090	1.2590	12"	16"	DWRRTTP13	DWRRTPH13	DWRRTPS13
14	1-3/32"	1.2500	1.5420	14"	18-1/4"	DWRRTTP14	DWRRTPH14	DWRRTPS14



# REAMERS

## SHELL REAMERS

### DWRRS Series - Straight Flute

### DWRRSS Series - Spiral Flute

Used with Shell Reamer Arbors. One size arbor fits a range of sizes. More economical, particularly where larger sizes are concerned.

				DWRRS Series	DWRRSS Series
Size	Flute Length	Hole Dia.	Fits Arbor	Part Number	Part Number
3/4"	2-1/4"	3/8"	4	DWRRS3/4	DWRRSS3/4
13/16"	2-1/2"	1/2"	5	DWRRS13/16	DWRRSS13/16
7/8"	2-1/2"	1/2"	5	DWRRS7/8	DWRRSS7/8
15/16"	2-1/2"	1/2"	5	DWRRS15/16	DWRRSS15/16
1"	2-1/2"	1/2"	5	DWRRS1INCH	DWRRSS1INCH
1-1/16"	2-3/4"	5/8"	6	DWRRS1-1/16	DWRRSS1-1/16
1-1/8"	2-3/4"	5/8"	6	DWRRS1-1/8	DWRRSS1-1/8
1-3/16"	2-3/4"	5/8"	6	DWRRS1-3/16	DWRRSS1-3/16
1-1/4"	2-3/4"	5/8"	6	DWRRS1-1/4	DWRRSS1-1/4
1-5/16"	3"	3/4"	7	DWRRS1-5/16	DWRRSS1-5/16
1-3/8"	3"	3/4"	7	DWRRS1-3/8	DWRRSS1-3/8
1-7/16"	3"	3/4"	7	DWRRS1-7/16	DWRRSS1-7/16
1-1/2"	3"	3/4"	7	DWRRS1-1/2	DWRRSS1-1/2
1-9/16"	3"	3/4"	7	DWRRS1-9/16	DWRRSS1-9/16
1-5/8"	3"	3/4"	7	DWRRS1-5/8	DWRRSS1-5/8
1-11/16"	3-1/2"	1"	8	DWRRS1-11/16	DWRRSS1-11/16
1-3/4"	3-1/2"	1"	8	DWRRS1-3/4	DWRRSS1-3/4
1-13/16"	3-1/2"	1"	8	DWRRS1-13/16	DWRRSS1-13/16
1-7/8"	3-1/2"	1"	8	DWRRS1-7/8	DWRRSS1-7/8
1-15/16"	3-1/2"	1"	8	DWRRS1-15/16	DWRRSS1-15/16
2"	3-1/2"	1"	8	DWRRS2INCH	DWRRSS2INCH
2-1/16"	3-3/4"	1-1/4"	9	DWRRS2-1/16	DWRRSS2-1/16
2-1/8"	3-3/4"	1-1/4"	9	DWRRS2-1/8	DWRRSS2-1/8
2-3/16"	3-3/4"	1-1/4"	9	DWRRS2-3/16	DWRRSS2-3/16
2-1/4"	3-3/4"	1-1/4"	9	DWRRS2-1/4	DWRRSS2-1/4
2-5/16"	3-3/4"	1-1/4"	9	DWRRS2-5/16	DWRRSS2-5/16
2-3/8"	3-3/4"	1-1/4"	9	DWRRS2-3/8	DWRRSS2-3/8
2-7/16"	3-3/4"	1-1/4"	9	DWRRS2-7/16	DWRRSS2-7/16
2-1/2"	3-3/4"	1-1/4"	9	DWRRS2-1/2	DWRRSS2-1/2
2-9/16"	4"	1-1/2"	10	DWRRS2-9/16	DWRRSS2-9/16
2-5/8"	4"	1-1/2"	10	DWRRS2-5/8	DWRRSS2-5/8
2-11/16"	4"	1-1/2"	10	DWRRS2-11/16	DWRRSS2-11/16
2-3/4"	4"	1-1/2"	10	DWRRS2-3/4	DWRRSS2-3/4
2-13/16"	4"	1-1/2"	10	DWRRS2-13/16	DWRRSS2-13/16
2-7/8"	4"	1-1/2"	10	DWRRS2-7/8	DWRRSS2-7/8
2-15/16"	4"	1-1/2"	10	DWRRS2-15/16	DWRRSS2-15/16
3"	4"	1-1/2"	10	DWRRS3INCH	DWRRSS3INCH



## SHELL REAMER ARBORS

				DWRSRASS Series	DWRSRATS Series	
Size	Fits Reamer Sizes	Shank Dia.	O.A.L.	Part Number	Part Number	Shank
4	21/32"-25/32"	1/2"	9"	DWRSRA4SS	DWRSRA4TS	2MT
5	13/16"-1-1/32"	5/8"	9-1/2"	DWRSRA5SS	DWRSRA5TS	2MT
6	1-1/16"-1-9/32"	3/4"	10"	DWRSRA6SS	DWRSRA6TS	3MT
7	1-5/16"-1-21/32"	7/8"	11"	DWRSRA7SS	DWRSRA7TS	3MT
8	1-11/16"-2"	1-1/8"	12"	DWRSRA8SS	DWRSRA8TS	4MT
9	2-1/16"-2-1/2"	1-3/8"	13"	DWRSRA9SS	DWRSRA9TS	4MT
10	2-9/16"-3"	1-5/8"	14"	DWRSRA10SS	DWRSRA10TS	5MT
11	3-1/16"-3-1/2"	2"	15"	DWRSRA11SS	DWRSRA11TS	5MT
12	3-9/16"-4"	2-1/8"	16"	DWRSRA12SS	DWRSRA12TS	5MT





# REAMERS

## SOLID CARBIDE

FRACTIONAL SIZES

### DMOR Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/16"	.0625	1/2"	2-1/2"	DMOR1/16
5/64"	.0781	3/4"	3"	DMOR5/64
3/32"	.0938	3/4"	3"	DMOR3/32
7/64"	.1094	7/8"	3-1/2"	DMOR7/64
1/8"	.1250	7/8"	3-1/2"	DMOR1/8
9/64"	.1406	1"	4"	DMOR9/64
5/32"	.1563	1"	4"	DMOR5/32
11/64"	.1719	1-1/8"	4-1/2"	DMOR11/64
3/16"	.1875	1-1/8"	4-1/2"	DMOR3/16
13/64"	.2031	1-1/4"	5"	DMOR13/64
7/32"	.2188	1-1/4"	5"	DMOR7/32
15/64"	.2344	1-1/2"	6"	DMOR15/64

### DMOR Series

Size	Dec. Equiv.	Flute Length	O.A.L.	Part Number
1/4"	.2500	1-1/2"	6"	DMOR1/4
17/64"	.2656	1-1/2"	6"	DMOR17/64
9/32"	.2813	1-1/2"	6"	DMOR9/32
19/64"	.2969	1-1/2"	6"	DMOR19/64
5/16"	.3125	1-1/2"	6"	DMOR5/16
21/64"	.3281	1-1/2"	6"	DMOR21/64
11/32"	.3438	1-1/2"	6"	DMOR11/32
23/64"	.3594	1-3/4"	7"	DMOR23/64
3/8"	.3750	1-3/4"	7"	DMOR3/8
25/64"	.3906	1-3/4"	7"	DMOR25/64
7/16"	.4375	1-3/4"	7"	DMOR7/16
1/2"	.5000	2"	8"	DMOR1/2



# CUTTERS

T-SLOT CUTTERS

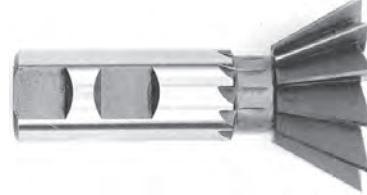
DOVETAILED CUTTERS

### DWCA Series

Bolt Size	Shank Dia.	O.A.L.	Part Number
1/4"	1/2"	2-19/32"	DWCA1310
5/16"	1/2"	2-11/16"	DWCA1312
3/8"	3/4"	3-1/4"	DWCA1314
1/2"	3/4"	3-7/16"	DWCA1316
5/8"	1"	3-15/16"	DWCA1318
3/4"	1"	4-7/16"	DWCA1320
1"	1-1/4"	4-13/16"	DWCA1322
1-1/4"	1-1/4"	5-3/8"	DWCA1324
1-1/2"	1-1/4"	5-29/32"	DWCA1326

### DWCA Series

Cutter Shank Dia.	Shank Dia.	O.A.L.	45° Part No.	60° Part No.
3/8"	3/8"	2-1/8"	DWCA1406-45	DWCA1406-60
1/2"	3/8"	2-1/8"	DWCA1408-45	DWCA1408-60
3/4"	3/8"	2-1/4"	DWCA1410-45	DWCA1410-60
1-3/8"	5/8"	2-7/8"	DWCA1420-45	DWCA1420-60
1-7/8"	7/8"	3-1/4"	DWCA1430-45	DWCA1430-60
2-1/4"	1"	3-3/4"	DWCA1440-45	DWCA1440-60



SHANK TYPE WOODRUFF KEYSEAT 1/2" SHANK

### DWCWC Series

Dia.	Face Width	Part Number
1/4"	1/16"	DWCWC202
5/16"	1/16"	DWCWC202-1/2
3/8"	1/16"	DWCWC203
1/2"	1/16"	DWCWC204
5/16"	3/32"	DWCWC302-1/2
3/8"	3/32"	DWCWC303
1/2"	3/32"	DWCWC304
5/8"	3/32"	DWCWC305
3/8"	1/8"	DWCWC403
1/2"	1/8"	DWCWC404
5/8"	1/8"	DWCWC405
3/4"	1/8"	DWCWC406
5/8"	5/32"	DWCWC505

### DWCWC Series

Dia.	Face Width	Part Number
3/4"	5/32"	DWCWC506
7/8"	5/32"	DWCWC507
5/8"	3/16"	DWCWC605
3/4"	3/16"	DWCWC606
7/8"	3/16"	DWCWC607
1"	3/16"	DWCWC608
1-1/8"	3/16"	DWCWC609
1-1/4"	3/16"	DWCWC610
1-1/4"	7/32"	DWCWC710
3/4"	1/4"	DWCWC806
7/8"	1/4"	DWCWC807
1"	1/4"	DWCWC808
1-1/8"	1/4"	DWCWC809

### DWCWC Series

Dia.	Face Width	Part Number
1-1/4"	1/4"	DWCWC810
1-3/8"	1/4"	DWCWC811
1-1/2"	1/4"	DWCWC812
1"	5/16"	DWCWC1008
1-1/8"	5/16"	DWCWC1009
1-1/4"	5/16"	DWCWC1010
1-3/8"	5/16"	DWCWC1011
1-1/2"	5/16"	DWCWC1012
1"	3/8"	DWCWC1208
1-1/4"	3/8"	DWCWC1210
1-3/8"	3/8"	DWCWC1211
1-1/2"	3/8"	DWCWC1212

# MACHINE TOOL ACCESSORIES DRILL CHUCK ARBORS

## STRAIGHT SHANK TO JACOBS TAPER

DEW Series		
Shank Dia.	Jacobs Taper	Part Number
1/2"	0JT	DEWA4000
1/2"	1JT	DEWA4001
1/2"	2JT	DEWA4002
1/2"	3JT	DEWA4003
1/2"	4JT	DEWA4004
1/2"	6JT	DEWA4006
1/2"	33JT	DEWA4033
5/8"	1JT	DEWA4101

DEW Series		
Shank Dia.	Jacobs Taper	Part Number
5/8"	2JT	DEWA4102
5/8"	3JT	DEWA4103
5/8"	4JT	DEWA4104
5/8"	6JT	DEWA4106
5/8"	33JT	DEWA4133
3/4"	2JT	DEWA4202
3/4"	3JT	DEWA4203
3/4"	4JT	DEWA4204

DEW Series		
Shank Dia.	Jacobs Taper	Part Number
3/4"	6JT	DEWA4206
3/4"	33JT	DEWA4233
1"	3JT	DEWA4303
1"	4JT	DEWA4304
1"	6JT	DEWA4306
1"	33JT	DEWA4333



## TAPER SHANK TO JACOBS TAPER

DEW Series		
Shank	Jacobs Taper	Part Number
1MT	1JT	DEWA0101
1MT	2JT	DEWA0102
1MT	3JT	DEWA0103
1MT	4JT	DEWA0104
1MT	6JT	DEWA0106
1MT	33JT	DEWA0133
2MT	0JT	DEWA0200
2MT	1JT	DEWA0201
2MT	2JT	DEWA0202
2MT	3JT	DEWA0203

DEW Series		
Shank	Jacobs Taper	Part Number
2MT	4JT	DEWA0204
2MT	6JT	DEWA0206
2MT	33JT	DEWA0233
3MT	1JT	DEWA0301
3MT	2JT	DEWA0302
3MT	3JT	DEWA0303
3MT	4JT	DEWA0304
3MT	5JT	DEWA0305
3MT	6JT	DEWA0306
3MT	33JT	DEWA0333

DEW Series		
Shank	Jacobs Taper	Part Number
4MT	2JT	DEWA0402
4MT	3JT	DEWA0403
4MT	4JT	DEWA0404
4MT	5JT	DEWA0405
4MT	6JT	DEWA0406
4MT	33JT	DEWA0433
5MT	3JT	DEWA0503
5MT	4JT	DEWA0504
5MT	5JT	DEWA0505
5MT	6JT	DEWA0506

## R8 SHANK TO JACOBS TAPER

DEW Series	
Jacobs Taper	Part Number
1JT	DEWA0801
2JT	DEWA0802
3JT	DEWA0803
4JT	DEWA0804
5JT	DEWA0805
6JT	DEWA0806
33JT	DEWA0833



## DRIFT KEYS

DWDDRIFT Series			
Size	Hole Fitting	Length Inches	Part Number
NO.1	1	4-1/2"	DWDDRIFTS1
NO.2	2	5-1/4"	DWDDRIFTS2
NO.3	3	6"	DWDDRIFTS3
NO.4	4,5,6	7"	DWDDRIFTS4



## MORSE TAPER SLEEVES

DEW Series			
Size No.	Hole Size	Shank Dia.	Part Number
1-2	1MT	2MT	DEWS1-2
1-3	1MT	3MT	DEWS1-3
1-4	1MT	4MT	DEWS1-4
1-5	1MT	5MT	DEWS1-5
2-3	2MT	3MT	DEWS2-3
2-4	2MT	4MT	DEWS2-4
2-5	2MT	5MT	DEWS2-5
3-4	3MT	4MT	DEWS3-4
3-5	3MT	5MT	DEWS3-5
4-5	4MT	5MT	DEWS4-5
4-6	4MT	6MT	DEWS4-6
5-6	5MT	6MT	DEWS5-6



# MACHINE TOOL ACCESSORIES

## EXTENSION SOCKETS

### DEW Series

Size No.	Hole Size	Shank Dia.	Part Number
1-2	1MT	2MT	DEWES1-2
1-3	1MT	3MT	DEWES1-3
1-4	1MT	4MT	DEWES1-4
1-5	1MT	5MT	DEWES1-5
2-1	2MT	1MT	DEWES2-1
2-2	2MT	2MT	DEWES2-2
2-3	2MT	3MT	DEWES2-3
2-4	2MT	4MT	DEWES2-4
2-5	2MT	5MT	DEWES2-5
3-1	3MT	1MT	DEWES3-1
3-2	3MT	2MT	DEWES3-2

### DEW Series

Size No.	Hole Size	Shank Dia.	Part Number
3-3	3MT	3MT	DEWES3-3
3-4	3MT	4MT	DEWES3-4
3-5	3MT	5MT	DEWES3-5
4-2	4MT	2MT	DEWES4-2
4-3	4MT	3MT	DEWES4-3
4-4	4MT	4MT	DEWES4-4
4-5	4MT	5MT	DEWES4-5
4-6	4MT	6MT	DEWES4-6
5-4	5MT	4MT	DEWES5-4
5-5	5MT	5MT	DEWES5-5
5-6	5MT	6MT	DEWES5-6



## DEAD CENTERS

### DEW Series

### DEW Series

Taper #	Large End	Small End	Taper Length	O.A.L.	Carbide Tipped	HSS
					Part Number	Part Number
1MT	.4750	.3760	2-1/8"	3-5/16"	DEWX712-1CT	DEWX712-1HS
2MT	.7000	.5790	2-9/16"	4-3/16"	DEWX714-2CT	DEWX714-2HS
3MT	.9380	.7850	3-3/16"	5-1/4"	DEWX716-3CT	DEWX716-3HS
4MT	1.2310	1.0270	4-1/16"	6-3/4"	DEWX718-4CT	DEWX718-4HS
5MT	1.7480	1.4820	5-3/16"	8-1/2"	DEWX720-5CT	DEWX720-5HS
6MT	2.4940	2.1300	7-1/8"	11-3/4"	DEWX722-6CT	DEWX722-6HS



## LIVE CENTERS

### DEW Series

Size	Part Number
1MT	DEW1MT
2MT	DEW2MT
3MT	DEW3MT
4MT	DEW4MT
5MT	DEW5MT
6MT	DEW6MT



## BULL-NOSE LIVE CENTERS

### DEW Series

Taper #	Small End	Large End	HSS Part Number
2MT	7/8"	2-3/8"	DEW2MT-BULL
3MT	1-1/8"	4"	DEW3MT-BULL
4MT	2"	5"	DEW4MT-BULL
5MT	2"	6"	DEW5MT-BULL
6MT	2"	6"	DEW6MT-BULL



# HSS END MILLS

## 4 FLUTE DOUBLE END 2 FLUTE DOUBLE END



### BRC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	3-1/8"	BRCF204
5/32"	3/8"	7/16"	3-1/8"	BRCF205
3/16"	3/8"	1/2"	3-1/4"	BRCF206
7/32"	3/8"	9/16"	3-1/4"	BRCF207
1/4"	3/8"	5/8"	3-3/8"	BRCF208
9/32"	3/8"	11/16"	3-3/8"	BRCF209
5/16"	3/8"	3/4"	3-1/2"	BRCF210
11/32"	3/8"	3/4"	3-1/2"	BRCF211
3/8"	3/8"	3/4"	3-1/2"	BRCF212
13/32"	1/2"	1"	4-1/8"	BRCF213
7/16"	1/2"	1"	4-1/8"	BRCF214
15/32"	1/2"	1"	4-1/8"	BRCF215
1/2"	1/2"	1"	4-1/8"	BRCF218
9/16"	5/8"	1-3/8"	5"	BRCF220
5/8"	5/8"	1-3/8"	5"	BRCF228
11/16"	3/4"	1-5/8"	5-5/8"	BRCF230
3/4"	3/4"	1-5/8"	5-5/8"	BRCF232
13/16"	7/8"	1-7/8"	6-1/8"	BRCF234
7/8"	7/8"	1-7/8"	6-1/8"	BRCF242
15/16"	1"	1-7/8"	6-3/8"	BRCF244
1"	1"	1-7/8"	6-3/8"	BRCF252



### BRC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	3-1/8"	BRCT204
5/32"	3/8"	7/16"	3-1/8"	BRCT205
3/16"	3/8"	7/16"	3-1/8"	BRCT206
7/32"	3/8"	1/2"	3-1/8"	BRCT207
1/4"	3/8"	1/2"	3-1/8"	BRCT208
9/32"	3/8"	9/16"	3-1/8"	BRCT209
5/16"	3/8"	9/16"	3-1/8"	BRCT210
11/32"	3/8"	9/16"	3-1/8"	BRCT211
3/8"	3/8"	9/16"	3-1/8"	BRCT212
13/32"	1/2"	13/16"	3-3/4"	BRCT213
7/16"	1/2"	13/16"	3-3/4"	BRCT214
1/2"	1/2"	13/16"	3-3/4"	BRCT218
9/16"	5/8"	1-1/8"	4-1/2"	BRCT220
5/8"	5/8"	1-1/8"	4-1/2"	BRCT228
11/16"	3/4"	1-5/16"	5"	BRCT230
3/4"	3/4"	1-5/16"	5"	BRCT232
13/16"	7/8"	1-9/16"	5-1/2"	BRCT234
7/8"	7/8"	1-9/16"	5-1/2"	BRCT242
15/16"	1"	1-5/8"	5-7/8"	BRCT244
1"	1"	1-5/8"	5-7/8"	BRCT252

## MULTI FLUTE SINGLE END



### BRC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	BRCF304
5/32"	3/8"	7/16"	2-3/8"	BRCF305
3/16"	3/8"	1/2"	2-3/8"	BRCF306
7/32"	3/8"	9/16"	2-7/16"	BRCF307
1/4"	3/8"	5/8"	2-7/16"	BRCF308
9/32"	3/8"	11/16"	2-1/2"	BRCF309
5/16"	3/8"	3/4"	2-1/2"	BRCF310
11/32"	3/8"	3/4"	2-1/2"	BRCF311
3/8"	3/8"	3/4"	2-1/2"	BRCF312
13/32"	3/8"	1"	2-11/16"	BRCF313
7/16"	3/8"	1"	2-11/16"	BRCF314
1/2"	3/8"	1"	2-11/16"	BRCF316
1/2"	1/2"	1-1/4"	3-1/4"	BRCF318
9/16"	1/2"	1-3/8"	3-3/8"	BRCF320
5/8"	1/2"	1-3/8"	3-3/8"	BRCF322
5/8"	5/8"	1-5/8"	3-3/4"	BRCF328
11/16"	5/8"	1-5/8"	3-3/4"	BRCF330
3/4"	1/2"	1-5/8"	3-5/8"	BRCF326
3/4"	5/8"	1-5/8"	3-3/4"	BRCF332
3/4"	3/4"	1-5/8"	3-7/8"	BRCF341
7/8"	5/8"	1-7/8"	4"	BRCF336
7/8"	3/4"	1-7/8"	4-1/8"	BRCF341B
7/8"	7/8"	1-7/8"	4-1/8"	BRCF342
15/16"	5/8"	1-7/8"	4"	BRCF338
1"	5/8"	1-7/8"	4"	BRCF340
1"	3/4"	1-7/8"	4-1/8"	BRCF345
1"	1"	2"	4-1/2"	BRCF352
1-1/8"	3/4"	2"	4-1/2"	BRCF347
1-1/8"	1"	2"	4-1/2"	BRCF354
1-1/4"	3/4"	2"	4-1/2"	BRCF349
1-1/4"	1"	2"	4-1/2"	BRCF356
1-1/4"	1-1/4"	2"	4-1/2"	BRCF362
1-3/8"	3/4"	2"	4-1/2"	BRCF351
1-1/2"	3/4"	2"	4-1/2"	BRCF351A



### BRC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	BRCT304
5/32"	3/8"	3/8"	2-3/8"	BRCT305
3/16"	3/8"	7/16"	2-3/8"	BRCT306
7/32"	3/8"	7/16"	2-7/16"	BRCT307
1/4"	3/8"	1/2"	2-7/16"	BRCT308
9/32"	3/8"	9/16"	2-1/2"	BRCT309
5/16"	3/8"	9/16"	2-1/2"	BRCT310
3/8"	3/8"	9/16"	2-1/2"	BRCT312
7/16"	3/8"	13/16"	2-11/16"	BRCT314
1/2"	3/8"	13/16"	2-11/16"	BRCT316
1/2"	1/2"	1"	3-1/4"	BRCT318
9/16"	1/2"	1-1/8"	3-3/8"	BRCT320
5/8"	1/2"	1-1/8"	3-3/8"	BRCT322
5/8"	5/8"	1-5/16"	3-3/4"	BRCT328
11/16"	5/8"	1-5/16"	3-3/4"	BRCT330
3/4"	1/2"	1-5/16"	3-5/8"	BRCT326
3/4"	5/8"	1-5/16"	3-3/4"	BRCT332
3/4"	3/4"	1-5/16"	3-3/4"	BRCT341
7/8"	5/8"	1-1/2"	4"	BRCT336
7/8"	3/4"	1-1/2"	4-1/8"	BRCT341B
7/8"	7/8"	1-1/2"	4-1/4"	BRCT342
1"	5/8"	1-1/2"	4"	BRCT340
1"	3/4"	1-1/2"	4-1/8"	BRCT345
1"	1"	1-5/8"	4-1/2"	BRCT352
1-1/8"	1"	1-5/8"	4-1/2"	BRCT354
1-1/4"	1-1/4"	1-5/8"	4-1/2"	BRCT362
1-1/2"	1"	1-5/8"	4-1/2"	BRCT360
1-1/2"	1-1/4"	1-5/8"	4-1/2"	BRCT364
1-3/4"	1-1/4"	1-5/8"	4-1/2"	BRCT368
2"	1-1/4"	1-5/8"	4-1/2"	BRCT372

# HSS END MILLS

## DWCT Series

These end mills are designed to machine most materials of medium hardness such as steel, brass, bronze and iron. The large core diameter provides rigidity and reduces deflection while the cutting geometry allows for rapid stock removal. They can be used for general-purpose milling including profiling and open-ended slots and keyways. They will plunge cut.

### 2 FLUTE SINGLE END



### CENTER CUTTING

#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	DWCT304
5/32"	3/8"	3/8"	2-5/16"	DWCT305
3/16"	3/8"	7/16"	2-5/16"	DWCT306
7/32"	3/8"	1/2"	2-3/8"	DWCT307
1/4"	3/8"	1/2"	2-5/16"	DWCT308
9/32"	3/8"	9/16"	2-3/8"	DWCT309
5/16"	3/8"	9/16"	2-5/16"	DWCT310
11/32"	3/8"	9/16"	2-5/16"	DWCT311
3/8"	3/8"	9/16"	2-1/2"	DWCT312
13/32"	3/8"	13/16"	2-1/2"	DWCT313
7/16"	3/8"	13/16"	2-1/2"	DWCT314
15/32"	3/8"	1"	3"	DWCT315
1/2"	3/8"	13/16"	2-1/2"	DWCT316
1/2"	1/2"	1"	3"	DWCT318
9/16"	1/2"	1-1/8"	3-1/8"	DWCT320
5/8"	1/2"	1-1/8"	3-1/8"	DWCT322
5/8"	5/8"	1-5/16"	3-7/16"	DWCT328
11/16"	1/2"	1-5/16"	3-7/16"	DWCT324
11/16"	5/8"	1-5/16"	3-7/16"	DWCT330
3/4"	1/2"	1-5/16"	3-7/16"	DWCT326
3/4"	5/8"	1-5/16"	3-7/16"	DWCT332
3/4"	3/4"	1-5/16"	3-7/16"	DWCT341
13/16"	1/2"	1-1/2"	3-5/8"	DWCT333
13/16"	5/8"	1-1/2"	3-5/8"	DWCT334
13/16"	3/4"	1-1/2"	3-3/4"	DWCT341A
7/8"	1/2"	1-1/2"	3-5/8"	DWCT335
7/8"	5/8"	1-1/2"	3-5/8"	DWCT336
7/8"	3/4"	1-1/2"	3-3/4"	DWCT341B
7/8"	7/8"	1-1/2"	3-3/4"	DWCT342
15/16"	1/2"	1-1/2"	3-5/8"	DWCT337

#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
15/16"	5/8"	1-1/2"	3-5/8"	DWCT338
15/16"	7/8"	1-1/2"	3-3/4"	DWCT344
1"	1/2"	1-1/2"	3-1/2"	DWCT339
1"	5/8"	1-1/2"	3-5/8"	DWCT340
1"	3/4"	1-1/2"	3-3/4"	DWCT345
1"	7/8"	1-1/2"	3-3/4"	DWCT346
1"	1"	1-5/8"	4-1/8"	DWCT352
1-1/16"	3/4"	1-5/8"	4"	DWCT346A
1-1/8"	3/4"	1-5/8"	3-7/8"	DWCT347
1-1/8"	7/8"	1-5/8"	3-7/8"	DWCT348
1-1/8"	1"	1-5/8"	4-1/8"	DWCT354
1-3/16"	3/4"	1-5/8"	3-7/8"	DWCT348A
1-1/4"	3/4"	1-5/8"	3-7/8"	DWCT349
1-1/4"	7/8"	1-5/8"	3-7/8"	DWCT350
1-1/4"	1"	1-5/8"	4-1/8"	DWCT356
1-1/4"	1-1/4"	1-5/8"	4-1/8"	DWCT362
1-5/16"	3/4"	1-5/8"	3-7/8"	DWCT350A
1-3/8"	3/4"	1-5/8"	3-7/8"	DWCT351
1-7/16"	3/4"	1-5/8"	3-7/8"	DWCT351X
1-1/2"	3/4"	1-5/8"	3-7/8"	DWCT351A
1-1/2"	1"	1-5/8"	4-1/8"	DWCT360
1-1/2"	1-1/4"	1-5/8"	4-1/8"	DWCT364
1-5/8"	3/4"	1-5/8"	4-1/8"	DWCT365
1-5/8"	1-1/4"	1-5/8"	4-1/8"	DWCT366
1-3/4"	3/4"	1-5/8"	4-1/8"	DWCT367
1-3/4"	1-1/4"	1-5/8"	4-1/8"	DWCT368
1-7/8"	3/4"	1-5/8"	4-1/8"	DWCT369
1-7/8"	1-1/4"	1-5/8"	4-1/8"	DWCT370
2"	3/4"	1-5/8"	4-1/8"	DWCT371
2"	1-1/4"	1-5/8"	4-1/8"	DWCT372

### 2 FLUTE DOUBLE END



### CENTER CUTTING

#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	3-1/16"	DWCT204
9/64"	3/8"	7/16"	3-1/8"	DWCT204A
5/32"	3/8"	7/16"	3-1/8"	DWCT205
11/64"	3/8"	7/16"	3-1/8"	DWCT205A
3/16"	3/8"	7/16"	3-1/8"	DWCT206
13/64"	3/8"	1/2"	3-1/8"	DWCT206A
7/32"	3/8"	1/2"	3-1/8"	DWCT207
15/64"	3/8"	1/2"	3-1/8"	DWCT207A
1/4"	3/8"	1/2"	3-1/8"	DWCT208
17/64"	3/8"	9/16"	3-1/8"	DWCT208A
9/32"	3/8"	9/16"	3-1/8"	DWCT209
19/64"	3/8"	9/16"	3-1/8"	DWCT209A
5/16"	3/8"	9/16"	3-1/8"	DWCT210
21/64"	3/8"	9/16"	3-1/8"	DWCT210A
11/32"	3/8"	9/16"	3-1/8"	DWCT211
23/64"	3/8"	9/16"	3-1/8"	DWCT211A
3/8"	3/8"	9/16"	3-1/8"	DWCT212

#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
25/64"	1/2"	13/16"	3-3/4"	DWCT212A
13/32"	1/2"	13/16"	3-3/4"	DWCT213
27/64"	1/2"	13/16"	3-3/4"	DWCT213A
7/16"	1/2"	13/16"	3-3/4"	DWCT214
29/64"	1/2"	13/16"	3-3/4"	DWCT214A
15/32"	1/2"	13/16"	3-3/4"	DWCT215
31/64"	1/2"	13/16"	3-3/4"	DWCT216
1/2"	1/2"	13/16"	3-3/4"	DWCT218
9/16"	5/8"	1-1/8"	4-1/2"	DWCT220
5/8"	5/8"	1-1/8"	4-1/2"	DWCT228
11/16"	3/4"	1-5/16"	5"	DWCT230
3/4"	3/4"	1-5/16"	5"	DWCT232
13/16"	7/8"	1-9/16"	5-1/2"	DWCT234
7/8"	7/8"	1-9/16"	5-1/2"	DWCT242
15/16"	1"	1-5/8"	5-7/8"	DWCT244
1"	1"	1-5/8"	5-7/8"	DWCT252



# HSS END MILLS

## DWCF Series

These end mills are designed to machine most materials of medium hardness such as steel, brass, bronze and iron. The large core diameter provides rigidity and reduces deflection while the cutting geometry allows for rapid stock removal. They can be used for general-purpose milling including profiling and open-ended slots and keyways. They will not plunge cut.

### M U L T I F L U T E S I N G L E E N D



#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	DWCF304
5/32"	3/8"	7/16"	2-3/8"	DWCF305
3/16"	3/8"	1/2"	2-3/8"	DWCF306
7/32"	3/8"	9/16"	2-1/2"	DWCF307
1/4"	3/8"	5/8"	2-1/2"	DWCF308
9/32"	3/8"	11/16"	2-1/2"	DWCF309
5/16"	3/8"	3/4"	2-1/2"	DWCF310
11/32"	3/8"	3/4"	2-1/2"	DWCF311
3/8"	3/8"	3/4"	2-1/2"	DWCF312
13/32"	3/8"	1"	2-11/16"	DWCF313
7/16"	3/8"	1"	2-11/16"	DWCF314
15/32"	3/8"	1"	2-11/16"	DWCF315
1/2"	3/8"	1"	2-11/16"	DWCF316
1/2"	1/2"	1-1/4"	3-1/4"	DWCF318
9/16"	1/2"	1-3/8"	3-3/8"	DWCF320
5/8"	1/2"	1-3/8"	3-3/8"	DWCF322
5/8"	5/8"	1-5/8"	3-3/4"	DWCF328
11/16"	1/2"	1-5/8"	3-5/8"	DWCF324
11/16"	5/8"	1-5/8"	3-3/4"	DWCF330
3/4"	1/2"	1-5/8"	3-5/8"	DWCF326
3/4"	5/8"	1-5/8"	3-3/4"	DWCF332
3/4"	3/4"	1-5/8"	3-3/4"	DWCF341
13/16"	1/2"	1-5/8"	3-5/8"	DWCF333
13/16"	5/8"	1-7/8"	4"	DWCF334
13/16"	3/4"	1-7/8"	4-1/8"	DWCF341A
7/8"	1/2"	1-5/8"	3-5/8"	DWCF335
7/8"	5/8"	1-7/8"	4"	DWCF336
7/8"	3/4"	1-7/8"	4-1/8"	DWCF341B
7/8"	7/8"	1-7/8"	4-1/4"	DWCF342
15/16"	1/2"	1-7/8"	3-7/8"	DWCF337
15/16"	5/8"	1-7/8"	4"	DWCF338

### N O N C E N T E R C U T T I N G

#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
15/16"	3/4"	1-7/8"	4-1/8"	DWCF343
15/16"	7/8"	1-7/8"	4-1/8"	DWCF344
1"	1/2"	1-7/8"	4"	DWCF339
1"	5/8"	1-7/8"	4"	DWCF340
1"	3/4"	1-7/8"	4-1/8"	DWCF345
1"	7/8"	1-7/8"	4-1/8"	DWCF346
1"	1"	2"	4-1/4"	DWCF352
1-1/16"	3/4"	2"	4-1/4"	DWCF346A
1-1/8"	3/4"	2"	4-1/4"	DWCF347
1-1/8"	7/8"	2"	4-1/4"	DWCF348
1-1/8"	1"	2"	4-1/2"	DWCF354
1-3/16"	3/4"	2"	4-1/4"	DWCF348A
1-1/4"	3/4"	2"	4-1/4"	DWCF349
1-1/4"	7/8"	2"	4-1/4"	DWCF350
1-1/4"	1"	2"	4-1/2"	DWCF356
1-1/4"	1-1/4"	2"	4-1/2"	DWCF362
1-5/16"	3/4"	2"	4-1/2"	DWCF350A
1-3/8"	3/4"	2"	4-1/2"	DWCF351
1-7/16"	3/4"	2"	4-1/2"	DWCF351X
1-1/2"	3/4"	2"	4-1/2"	DWCF351A
1-1/2"	1"	2"	4-1/2"	DWCF360
1-1/2"	1-1/4"	2"	4-1/2"	DWCF364
1-5/8"	3/4"	2"	4-1/2"	DWCF365
1-5/8"	1-1/4"	2"	4-1/2"	DWCF366
1-3/4"	3/4"	2"	4-1/2"	DWCF367
1-3/4"	1-1/4"	2"	4-1/2"	DWCF368
1-7/8"	3/4"	2"	4-1/2"	DWCF369
1-7/8"	1-1/4"	2"	4-1/2"	DWCF370
2"	3/4"	2"	4-1/2"	DWCF371
2"	1-1/4"	2"	4-1/2"	DWCF372

### 4 F L U T E D O U B L E E N D N O N C E N T E R C U T T I N G



#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	3-1/16"	DWCF204
9/64"	3/8"	7/16"	3-1/8"	DWCF204A
5/32"	3/8"	7/16"	3-1/8"	DWCF205
11/64"	3/8"	1/2"	3-1/4"	DWCF205A
3/16"	3/8"	1/2"	3-1/4"	DWCF206
13/64"	3/8"	9/16"	3-1/4"	DWCF206A
7/32"	3/8"	9/16"	3-1/4"	DWCF207
15/64"	3/8"	5/8"	3-3/8"	DWCF207A
1/4"	3/8"	5/8"	3-3/8"	DWCF208
17/64"	3/8"	11/16"	3-3/8"	DWCF208A
9/32"	3/8"	11/16"	3-3/8"	DWCF209
19/64"	3/8"	3/4"	3-3/8"	DWCF209A
5/16"	3/8"	3/4"	3-1/2"	DWCF210
21/64"	3/8"	3/4"	3-1/2"	DWCF210A
11/32"	3/8"	3/4"	3-1/2"	DWCF211
23/64"	3/8"	3/4"	3-1/2"	DWCF211A
3/8"	3/8"	3/4"	3-1/2"	DWCF212

#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
25/64"	1/2"	1"	4-1/8"	DWCF212A
13/32"	1/2"	1"	4-1/8"	DWCF213
27/64"	1/2"	1"	4-1/8"	DWCF213A
7/16"	1/2"	1"	4-1/8"	DWCF214
29/64"	1/2"	1"	4-1/8"	DWCF214A
15/32"	1/2"	1"	4-1/8"	DWCF215
31/64"	1/2"	1"	4-1/8"	DWCF216
1/2"	1/2"	1"	4-1/8"	DWCF218
9/16"	5/8"	1-3/8"	5"	DWCF220
5/8"	5/8"	1-3/8"	5"	DWCF228
11/16"	3/4"	1-5/8"	5-5/8"	DWCF230
3/4"	3/4"	1-5/8"	5-5/8"	DWCF232
13/16"	7/8"	1-7/8"	6-1/8"	DWCF234
7/8"	7/8"	1-7/8"	6-1/8"	DWCF242
15/16"	1"	1-7/8"	6-3/8"	DWCF244
1"	1"	1-7/8"	6-3/8"	DWCF252

# HSS END MILLS

## 2 FLUTE SINGLE END LONG



### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	1"	2-3/4"	DWCTL308
5/16"	3/8"	1-1/4"	3"	DWCTL310
3/8"	3/8"	1-1/2"	3-1/4"	DWCTL312
1/2"	1/2"	2"	4"	DWCTL318
5/8"	5/8"	2"	4-1/8"	DWCTL328

### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/4"	3/4"	2-1/4"	4-1/2"	DWCTL332
7/8"	7/8"	2-1/2"	4-3/4"	DWCTL342
1"	1"	3"	5-1/2"	DWCTL352
1-1/4"	1-1/4"	3"	5-1/2"	DWCTL354

## 2 FLUTE SINGLE END BALL



### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-1/4"	DWCT1104
3/16"	3/8"	1/2"	2-3/8"	DWCT1106
1/4"	3/8"	5/8"	2-1/2"	DWCT1108
5/16"	3/8"	3/4"	2-1/2"	DWCT1110
3/8"	3/8"	3/4"	2-1/2"	DWCT1112
7/16"	1/2"	1"	3"	DWCT1114
1/2"	1/2"	1"	3"	DWCT1118
9/16"	1/2"	1"	3"	DWCT1120

### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
5/8"	5/8"	1-3/8"	3-1/2"	DWCT1128
3/4"	3/4"	1-5/8"	3-7/8"	DWCT1132
7/8"	7/8"	2"	4-1/4"	DWCT1142
1"	1"	2-1/4"	4-3/4"	DWCT1152
1-1/8"	1"	2-1/4"	4-3/4"	DWCT1154
1-1/4"	1-1/4"	2-1/2"	5"	DWCT1162
1-1/2"	1-1/4"	2-1/2"	5"	DWCT1164

## 2 FLUTE DOUBLE END BALL



### DWCT Series

Size	Shank Dia.	Flute Length	Part Number
1/8"	3/8"	3/8"	DWC1/82FDEBALL
3/16"	3/8"	7/16"	DWC3/162FDEBALL
1/4"	3/8"	1/2"	DWC1/42FDEBALL
3/8"	3/8"	9/16"	DWC3/82FDEBALL
7/16"	1/2"	13/16"	DWC7/162FDEBALL

### DWCT Series

Size	Shank Dia.	Flute Length	Part Number
1/2"	1/2"	13/16"	DWC1/22FDEBALL
5/8"	5/8"	1-1/8"	DWC5/82FDEBALL
3/4"	3/4"	1-5/16"	DWC3/42FDEBALL
7/8"	7/8"	1-9/16"	DWC7/82FDEBALL

## 4 FLUTE SINGLE END LONG



### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	1-1/4"	3-1/16"	DWCF708
5/16"	3/8"	1-3/8"	3-1/8"	DWCF710
3/8"	3/8"	1-1/2"	3-1/4"	DWCF712
7/16"	1/2"	1-3/4"	3-3/4"	DWCF714
1/2"	1/2"	2"	4"	DWCF718
5/8"	5/8"	2-1/2"	4-5/8"	DWCF728
3/4"	3/4"	3"	5-1/4"	DWCF732
7/8"	7/8"	3-1/2"	5-3/4"	DWCF742

### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1"	1"	4"	6-1/2"	DWCF752
1-1/8"	1"	4"	6-1/2"	DWCF754
1-1/4"	1"	4"	6-1/2"	DWCF756
1-1/4"	1-1/4"	4"	6-1/2"	DWCF762
1-1/2"	1"	4"	6-1/2"	DWCF760
1-1/2"	1-1/4"	4"	6-1/2"	DWCF764
1-3/4"	1-1/4"	4"	6-1/2"	DWCF768
2"	1-1/4"	4"	6-1/2"	DWCF772

# HSS END MILLS

## 4 FLUTE SINGLE END EXTRA LONG



### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	1-3/4"	3-1/2"	DWCF908
5/16"	3/8"	2"	3-3/4"	DWCF910
3/8"	3/8"	2-1/2"	4-1/4"	DWCF912
1/2"	1/2"	3"	5"	DWCF918
5/8"	5/8"	4"	6-1/8"	DWCF928

### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/4"	3/4"	4"	6-1/4"	DWCF932
7/8"	7/8"	5"	7-1/4"	DWCF942
1"	1"	6"	8-1/2"	DWCF952
1-1/4"	1-1/4"	6"	8-1/2"	DWCF962
1-1/2"	1-1/4"	8"	10-1/2"	DWCF964

## 4 FLUTE SINGLE END BALL



### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/16"	3/8"	1/2"	2-3/8"	DWCF1106
1/4"	3/8"	5/8"	2-1/2"	DWCF1108
5/16"	3/8"	3/4"	2-1/2"	DWCF1110
3/8"	3/8"	3/4"	2-1/2"	DWCF1112
7/16"	1/2"	1"	3-1/16"	DWCF1114
1/2"	1/2"	1-1/4"	3-1/4"	DWCF1118

### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
5/8"	5/8"	1-5/8"	3-3/4"	DWCF1128
3/4"	3/4"	1-5/8"	3-7/8"	DWCF1132
7/8"	7/8"	1-7/8"	4-1/2"	DWCF1142
1"	1"	2-1/4"	4-3/4"	DWCF1152
1-1/4"	1-1/4"	2-1/2"	5"	DWCF1162

## 4 FLUTE SINGLE END - CENTER CUTTING



### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	DWCF304-CC
3/16"	3/8"	1/2"	2-3/8"	DWCF306-CC
1/4"	3/8"	5/8"	2-1/2"	DWCF308-CC
5/16"	3/8"	3/4"	2-1/2"	DWCF310-CC
3/8"	3/8"	3/4"	2-1/2"	DWCF312-CC
1/2"	1/2"	1-1/4"	3-1/4"	DWCF318-CC
9/16"	1/2"	1-3/8"	3-3/8"	DWCF320-CC
5/8"	5/8"	1-5/8"	3-3/4"	DWCF328-CC
3/4"	5/8"	1-5/8"	3-3/4"	DWCF332-CC

### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/4"	3/4"	1-5/8"	3-7/8"	DWCF341-CC
7/8"	7/8"	1-7/8"	4-1/8"	DWCF342-CC
1"	5/8"	1-7/8"	4"	DWCF340-CC
1"	3/4"	1-7/8"	4-1/8"	DWCF345-CC
1"	1"	2"	4-1/2"	DWCF352-CC
1-1/8"	1"	2"	4-1/2"	DWCF354-CC
1-1/4"	1-1/4"	2"	4-1/2"	DWCF362-CC

## 4 FLUTE SINGLE END LONG - CC



### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	1-1/4"	3-1/16"	DWCF308-LCC
5/16"	3/8"	1-1/4"	3-1/8"	DWCF310-LCC
3/8"	3/8"	1-3/8"	3-1/4"	DWCF312-LCC

### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/2"	1/2"	2"	4"	DWCF318-LCC
3/4"	3/4"	3"	5-1/4"	DWCF341-LCC
7/8"	7/8"	3-1/2"	5-3/4"	DWCF342-LCC

## 4 FLUTE SINGLE END EXTRA LONG - CC



### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	1-3/4"	3-9/16"	DWCF308-XLCC
5/16"	3/8"	2"	3-3/4"	DWCF310-XLCC
3/8"	3/8"	2-1/2"	4-1/4"	DWCF312-XLCC

### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/2"	1/2"	3"	5"	DWCF318-XLCC
5/8"	5/8"	4"	6-1/8"	DWCF328-XLCC
3/4"	3/4"	4"	6-1/4"	DWCF341-XLCC

# COBALT END MILLS

## 2 FLUTE SINGLE END



### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	DWCTXL304
3/16"	3/8"	7/16"	2-5/16"	DWCTXL306
1/4"	3/8"	1/2"	2-5/16"	DWCTXL308
5/16"	3/8"	9/16"	2-5/16"	DWCTXL310
3/8"	3/8"	9/16"	2-3/8"	DWCTXL312
7/16"	3/8"	13/16"	2-1/2"	DWCTXL314
1/2"	3/8"	13/16"	2-1/2"	DWCTXL316
1/2"	1/2"	1"	3"	DWCTXL318
9/16"	1/2"	1-1/8"	3-1/8"	DWCTXL320
5/8"	5/8"	1-5/16"	3-7/16"	DWCTXL328

### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/4"	3/4"	1-5/16"	3-7/16"	DWCTXL341
7/8"	3/4"	1-1/2"	3-3/4"	DWCTXL341B
1"	1/2"	1-1/2"	3-1/2"	DWCTXL339
1"	5/8"	1-1/2"	3-5/8"	DWCTXL340
1"	3/4"	1-1/2"	3-3/4"	DWCTXL345
1-1/4"	3/4"	1-5/8"	3-7/8"	DWCTXL349
1-1/4"	1-1/4"	1-5/8"	4-1/8"	DWCTXL362
1-1/2"	3/4"	1-5/8"	3-7/8"	DWCTXL351A
1-1/2"	1"	1-5/8"	4-1/8"	DWCTXL360
1-3/4"	3/4"	1-5/8"	3-7/8"	DWCTXL367

## 4 FLUTE SINGLE END



### DWCXL Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	2-5/16"	DWCXL304
3/16"	3/8"	1/2"	2-3/8"	DWCXL306
1/4"	3/8"	5/8"	2-1/2"	DWCXL308
5/16"	3/8"	3/4"	2-1/2"	DWCXL310
3/8"	3/8"	3/4"	2-1/2"	DWCXL312
7/16"	3/8"	1"	2-11/16"	DWCXL314
1/2"	1/2"	1-1/4"	3-1/4"	DWCXL318
5/8"	5/8"	1-5/8"	3-3/4"	DWCXL328
3/4"	5/8"	1-5/8"	3-3/4"	DWCXL332

### DWCXL Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/4"	3/4"	1-5/8"	3-3/4"	DWCXL341
7/8"	1/2"	1-7/8"	4"	DWCXL335
7/8"	3/4"	1-7/8"	4-1/8"	DWCXL341B
1"	1/2"	1-7/8"	4"	DWCXL339
1"	3/4"	1-7/8"	4"	DWCXL345
1"	1"	2"	4-1/2"	DWCXL352
1-1/4"	3/4"	2"	4-1/4"	DWCXL349
1-1/4"	1-1/4"	2"	4-1/2"	DWCXL362

## 4 FLUTE DOUBLE END



### DWCXL Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/8"	3/8"	3-1/16"	DWCXL204
5/32"	3/8"	7/16"	3-1/8"	DWCXL205
3/16"	3/8"	1/2"	3-1/4"	DWCXL206
1/4"	3/8"	5/8"	3-3/8"	DWCXL208
5/16"	3/8"	3/8"	3-1/2"	DWCXL210
3/8"	3/8"	3/4"	3-1/2"	DWCXL212
7/16"	1/2"	1"	4-1/8"	DWCXL214

### DWCXL Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/2"	1/2"	1"	4-1/8"	DWCXL218
9/16"	5/8"	1-3/8"	5"	DWCXL220
5/8"	5/8"	1-3/8"	5"	DWCXL228
3/4"	3/4"	1-5/8"	5-5/8"	DWCXL232
7/8"	7/8"	1-7/8"	6-1/8"	DWCXL242
1"	1"	1-7/8"	6-3/8"	DWCXL252

## COBALT ROUGHING



### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	5/8"	2-7/16"	DWC1/4
5/16"	3/8"	3/4"	2-1/2"	DWC5/16
3/8"	3/8"	3/4"	2-1/2"	DWC3/8
7/16"	1/2"	7/8"	3"	DWC7/16
1/2"	1/2"	1-1/4"	3-1/4"	DWC1/2
9/16"	1/2"	1-3/8"	3-3/8"	DWC9/16
5/8"	5/8"	1-5/8"	3-3/4"	DWC5/8
3/4"	5/8"	1-5/8"	3-3/4"	DWC3/4

### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
7/8"	3/4"	1-7/8"	4-1/8"	DWC7/8
1"	3/4"	2"	4-1/2"	DWC1INCH
1"	1"	2"	4-1/2"	DWC1X1
1-1/8"	1"	2"	4-1/2"	DWC1-1/8
1-1/4"	1-1/4"	2"	4-1/2"	DWC1-1/4
1-1/2"	1-1/4"	2"	4-1/2"	DWC1-1/2
1-3/4"	1-1/4"	2"	4-1/2"	DWC1-3/4
2"	1-1/4"	2"	4-1/2"	DWC2INCH

### BRC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	3/8"	5/8"	2-7/16"	BRC1/4
5/16"	3/8"	3/4"	2-1/2"	BRC5/16
3/8"	3/8"	3/4"	2-1/2"	BRC3/8
1/2"	1/2"	1-1/4"	3-1/4"	BRC1/2

### BRC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
5/8"	5/8"	1-5/8"	3-3/4"	BRC5/8
3/4"	5/8"	1-5/8"	3-3/4"	BRC3/4
1"	3/4"	1-5/8"	3-3/4"	BRC1INCH

# HSS END MILLS METRIC SIZES

## 2 FLUTE SINGLE END



### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
4MM	3/8"	7/16"	2-5/16"	DWC4MM-2FSE
5MM	3/8"	1/2"	2-5/16"	DWC5MM-2FSE
6MM	3/8"	1/2"	2-5/16"	DWC6MM-2FSE
8MM	3/8"	9/16"	2-5/16"	DWC8MM-2FSE
10MM	3/8"	13/16"	2-1/2"	DWC10MM-2FSE
11MM	3/8"	13/16"	2-1/2"	DWC11MM-2FSE
12MM	3/8"	13/16"	2-1/2"	DWC12MM-2FSE

### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
14MM	1/2"	1-1/8"	3-1/8"	DWC14MM-2FSE
16MM	5/8"	1-5/16"	3-7/16"	DWC16MM-2FSE
18MM	5/8"	1-5/16"	3-7/16"	DWC18MM-2FSE
20MM	3/4"	1-1/2"	3-3/4"	DWC20MM-2FSE
24MM	1"	2"	4-1/2"	DWC24MM-2FSE
26MM	1"	2"	4-1/2"	DWC26MM-2FSE

## 4 FLUTE SINGLE END



### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
4MM	3/8"	1/2"	2-5/16"	DWC4MM-4FSE
5MM	3/8"	9/16"	2-1/2"	DWC5MM-4FSE
6MM	3/8"	5/8"	2-1/2"	DWC6MM-4FSE
8MM	3/8"	3/4"	2-1/2"	DWC8MM-4FSE
10MM	3/8"	1"	2-11/16"	DWC10MM-4FSE
11MM	3/8"	1"	2-11/16"	DWC11MM-4FSE
12MM	3/8"	1"	2-11/16"	DWC12MM-4FSE

### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
14MM	1/2"	1-3/8"	3-3/8"	DWC14MM-4FSE
16MM	5/8"	1-5/8"	3-3/4"	DWC16MM-4FSE
18MM	5/8"	1-5/8"	3-3/4"	DWC18MM-4FSE
20MM	3/4"	1-7/8"	4-1/8"	DWC20MM-4FSE
24MM	1"	2"	4-1/2"	DWC24MM-4FSE
26MM	1"	2"	4-1/2"	DWC26MM-4FSE

## 2 FLUTE DOUBLE END



### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
4MM	3/8"	7/16"	3-1/8"	DWC4MM-2FDE
5MM	3/8"	7/16"	3-1/8"	DWC5MM-2FDE
6MM	3/8"	1/2"	3-3/8"	DWC6MM-2FDE
7MM	3/8"	9/16"	3-1/2"	DWC7MM-2FDE
8MM	3/8"	9/16"	3-1/2"	DWC8MM-2FDE

### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
10MM	1/2"	3/4"	3-3/4"	DWC10MM-2FDE
12MM	1/2"	1"	3-3/4"	DWC12MM-2FDE
14MM	5/8"	1-3/8"	5-1/2"	DWC14MM-2FDE
16MM	5/8"	1-3/8"	5-1/2"	DWC16MM-2FDE

## 4 FLUTE DOUBLE END



### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
4MM	3/8"	7/16"	3-1/8"	DWC4MM-4FDE
5MM	3/8"	7/16"	3-1/8"	DWC5MM-4FDE
6MM	3/8"	1/2"	3-3/8"	DWC6MM-4FDE
7MM	3/8"	9/16"	3-1/2"	DWC7MM-4FDE

### DWC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
8MM	3/8"	9/16"	3-1/2"	DWC8MM-4FDE
10MM	1/2"	13/16"	3-3/4"	DWC10MM-4FDE
12MM	1/2"	13/16"	3-3/4"	DWC12MM-4FDE
14MM	1/2"	13/16"	3-3/4"	DWC14MM-4FDE



# HSS END MILLS

## 3/16" SHANK MINIATURES

### 2 FLUTE DOUBLE END



#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	3/16"	3/32"	2-1/4"	DWCT11
3/64"	3/16"	9/64"	2-1/4"	DWCT111
1/16"	3/16"	3/16"	2-1/4"	DWCT12
5/64"	3/16"	15/64"	2-1/4"	DWCT12A
3/32"	3/16"	9/32"	2-1/4"	DWCT13
7/64"	3/16"	21/64"	2-1/4"	DWCT13A

#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	3/16"	3/8"	2-1/4"	DWCT14
9/64"	3/16"	13/32"	2-1/4"	DWCT14A
5/32"	3/16"	7/16"	2-1/4"	DWCT15
11/64"	3/16"	1/2"	2-1/4"	DWCT15A
3/16"	3/16"	1/2"	2-1/4"	DWCT16

### 2 FLUTE DOUBLE END LONG



#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/16"	3/16"	7/32"	2-1/2"	DWCT102
5/64"	3/16"	7/32"	2-1/2"	DWCT102A
3/32"	3/16"	9/32"	2-5/8"	DWCT103
7/64"	3/16"	9/32"	2-5/8"	DWCT103A
1/8"	3/16"	3/4"	3-1/8"	DWCT104

#### DWCT Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
9/64"	3/16"	3/4"	3-1/8"	DWCT104A
5/32"	3/16"	7/8"	3-1/4"	DWCT105
11/64"	3/16"	7/8"	3-1/4"	DWCT105A
3/16"	3/16"	1"	3-3/8"	DWCT106

### 4 FLUTE DOUBLE END



#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/16"	3/16"	3/16"	2-1/4"	DWCF12
5/64"	3/16"	15/64"	2-1/4"	DWCF12A
3/32"	3/16"	9/32"	2-1/4"	DWCF13
7/64"	3/16"	21/64"	2-1/4"	DWCF13A
1/8"	3/16"	3/8"	2-1/4"	DWCF14

#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
9/64"	3/16"	13/32"	2-1/4"	DWCF14A
5/32"	3/16"	7/16"	2-1/4"	DWCF15
11/64"	3/16"	1/2"	2-1/4"	DWCF15A
3/16"	3/16"	1/2"	2-1/4"	DWCF16

### 4 FLUTE DOUBLE END LONG



#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/16"	3/16"	7/32"	2-1/2"	DWCF102
3/32"	3/16"	9/32"	2-5/8"	DWCF103
7/64"	3/16"	9/32"	2-5/8"	DWCF103A
1/8"	3/16"	3/4"	3-1/8"	DWCF104

#### DWCF Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
9/64"	3/16"	3/4"	3-1/8"	DWCF104A
5/32"	3/16"	7/8"	3-1/4"	DWCF105
11/64"	3/16"	7/8"	3-1/4"	DWCF105A
3/16"	3/16"	1"	3-3/8"	DWCF106

# SOLID CARBIDE END MILLS

## 2 FLUTE SINGLE END



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/8"	1-1/2"	MMO1/32-2FSE
3/64"	1/8"	1/8"	1-1/2"	MMO3/64-2FSE
1/16"	1/8"	3/16"	1-1/2"	MMO1/16-2FSE
5/64"	1/8"	3/8"	1-1/2"	MMO5/64-2FSE
3/32"	1/8"	3/8"	1-1/2"	MMO3/32-2FSE
7/64"	1/8"	3/8"	1-1/2"	MMO7/64-2FSE
1/8"	1/8"	1/2"	1-1/2"	MMO1/8-2FSE
9/64"	3/16"	1/2"	2"	MMO9/64-2FSE
5/32"	3/16"	1/2"	2"	MMO5/32-2FSE
11/64"	3/16"	5/8"	2"	MMO11/64-2FSE
3/16"	3/16"	5/8"	2"	MMO3/16-2FSE
13/64"	1/4"	5/8"	2-1/2"	MMO13/64-2FSE

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
7/32"	1/4"	5/8"	2-1/2"	MMO7/32-2FSE
15/64"	1/4"	3/4"	2-1/2"	MMO15/64-2FSE
1/4"	1/4"	3/4"	2-1/2"	MMO1/4-2FSE
5/16"	5/16"	13/16"	2-1/2"	MMO5/16-2FSE
3/8"	3/8"	1"	2-1/2"	MMO3/8-2FSE
7/16"	7/16"	1"	2-3/4"	MMO7/16-2FSE
1/2"	1/2"	1"	3"	MMO1/2-2FSE
9/16"	9/16"	1-1/8"	3-1/2"	MMO9/16-2FSE
5/8"	5/8"	1-1/4"	3-1/2"	MMO5/8-2FSE
3/4"	3/4"	1-1/2"	4"	MMO3/4-2FSE
1"	1"	1-1/2"	4"	MMO1-2FSE

## 2 FLUTE SINGLE END BALL



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/8"	1-1/2"	MMO1/32-2FSE-BN
3/64"	1/8"	1/8"	1-1/2"	MMO3/64-2FSE-BN
1/16"	1/8"	3/16"	1-1/2"	MMO1/16-2FSE-BN
5/64"	1/8"	3/16"	1-1/2"	MMO5/64-2FSE-BN
3/32"	1/8"	3/8"	1-1/2"	MMO3/32-2FSE-BN
7/64"	1/8"	3/8"	1-1/2"	MMO7/64-2FSE-BN
1/8"	1/8"	1/2"	1-1/2"	MMO1/8-2FSE-BN
3/16"	3/16"	5/8"	2"	MMO3/16-2FSE-BN

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	1/4"	3/4"	2-1/2"	MMO1/4-2FSE-BN
5/16"	5/16"	13/16"	2-1/2"	MMO5/16-2FSE-BN
3/8"	3/8"	1"	2-1/2"	MMO3/8-2FSE-BN
1/2"	1/2"	1"	3"	MMO1/2-2FSE-BN
5/8"	5/8"	1-1/4"	3-1/2"	MMO5/8-2FSE-BN
3/4"	3/4"	1-1/2"	4"	MMO3/4-2FSE-BN
1"	1"	1-1/2"	4"	MMO1-2FSE-BN

## 2 FLUTE DOUBLE END STUB



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/16"	1-1/2"	MMO1/32-2FDE-ST
3/64"	1/8"	3/32"	1-1/2"	MMO3/64-2FDE-ST
1/16"	1/8"	1/8"	1-1/2"	MMO1/16-2FDE-ST
5/64"	1/8"	1/8"	1-1/2"	MMO5/64-2FDE-ST
3/32"	1/8"	3/16"	1-1/2"	MMO3/32-2FDE-ST
7/64"	1/8"	3/16"	1-1/2"	MMO7/64-2FDE-ST

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	1/8"	1/4"	1-1/2"	MMO1/8-2FDE-ST
3/16"	3/16"	3/8"	2"	MMO3/16-2FDE-ST
1/4"	1/4"	1/2"	2-1/2"	MMO1/4-2FDE-ST
5/16"	5/16"	1/2"	2-1/2"	MMO5/16-2FDE-ST
3/8"	3/8"	9/16"	2-1/2"	MMO3/8-2FDE-ST
1/2"	1/2"	5/8"	3"	MMO1/2-2FDE-ST

## 2 FLUTE DOUBLE END STUB BALL



### MMO Series

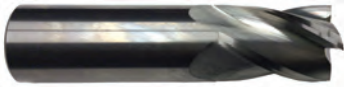
Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/16"	1-1/2"	MMO1/32-2FDE-ST-BN
3/64"	1/8"	3/32"	1-1/2"	MMO3/64-2FDE-ST-BN
1/16"	1/8"	1/8"	1-1/2"	MMO1/16-2FDE-ST-BN
5/64"	1/8"	1/8"	1-1/2"	MMO5/64-2FDE-ST-BN
3/32"	1/8"	3/16"	1-1/2"	MMO3/32-2FDE-ST-BN
7/64"	1/8"	3/16"	1-1/2"	MMO7/64-2FDE-ST-BN

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	1/8"	1/4"	1-1/2"	MMO1/8-2FDE-ST-BN
3/16"	3/16"	3/8"	2"	MMO3/16-2FDE-ST-BN
1/4"	1/4"	1/2"	2-1/2"	MMO1/4-2FDE-ST-BN
5/16"	5/16"	1/2"	2-1/2"	MMO5/16-2FDE-ST-BN
3/8"	3/8"	9/16"	2-1/2"	MMO3/8-2FDE-ST-BN
1/2"	1/2"	5/8"	3"	MMO1/2-2FDE-ST-BN

# SOLID CARBIDE END MILLS

## 4 FLUTE SINGLE END



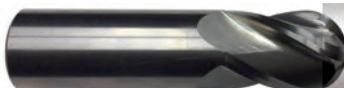
### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/8"	1-1/2"	MMO1/32-4FSE
3/64"	1/8"	1/8"	1-1/2"	MMO3/64-4FSE
1/16"	1/8"	3/16"	1-1/2"	MMO1/16-4FSE
5/64"	1/8"	3/8"	1-1/2"	MMO5/64-4FSE
3/32"	1/8"	3/8"	1-1/2"	MMO3/32-4FSE
7/64"	1/8"	3/8"	1-1/2"	MMO7/64-4FSE
1/8"	1/8"	1/2"	1-1/2"	MMO1/8-4FSE
9/64"	3/16"	1/2"	2"	MMO9/64-4FSE
5/32"	3/16"	1/2"	2"	MMO5/32-4FSE
11/64"	3/16"	5/8"	2"	MMO11/64-4FSE
3/16"	3/16"	5/8"	2"	MMO3/16-4FSE
13/64"	1/4"	5/8"	2-1/2"	MMO13/64-4FSE

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
7/32"	1/4"	5/8"	2-1/2"	MMO7/32-4FSE
15/64"	1/4"	3/4"	2-1/2"	MMO15/64-4FSE
1/4"	1/4"	3/4"	2-1/2"	MMO1/4-4FSE
5/16"	5/16"	13/16"	2-1/2"	MMO5/16-4FSE
3/8"	3/8"	1"	2-1/2"	MMO3/8-4FSE
7/16"	7/16"	1"	2-3/4"	MMO7/16-4FSE
1/2"	1/2"	1"	3"	MMO1/2-4FSE
9/16"	9/16"	1-1/8"	3-1/2"	MMO9/16-4FSE
5/8"	5/8"	1-1/4"	3-1/2"	MMO5/8-4FSE
3/4"	3/4"	1-1/2"	4"	MMO3/4-4FSE
1"	1"	1-1/2"	4"	MMO1-4FSE

## 4 FLUTE SINGLE END BALL



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/8"	1-1/2"	MMO1/32-4FSE-BN
3/64"	1/8"	1/8"	1-1/2"	MMO3/64-4FSE-BN
1/16"	1/8"	3/16"	1-1/2"	MMO1/16-4FSE-BN
5/64"	1/8"	3/16"	1-1/2"	MMO5/64-4FSE-BN
3/32"	1/8"	3/8"	1-1/2"	MMO3/32-4FSE-BN
1/8"	1/8"	3/8"	1-1/2"	MMO1/8-4FSE-BN
3/16"	3/16"	5/8"	2"	MMO3/16-4FSE-BN

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/4"	1/4"	3/4"	2-1/2"	MMO1/4-4FSE-BN
5/16"	5/16"	1/2"	2-1/2"	MMO5/16-4FSE-BN
3/8"	3/8"	1"	2-1/2"	MMO3/8-4FSE-BN
1/2"	1/2"	1"	3"	MMO1/2-4FSE-BN
5/8"	5/8"	1-1/4"	3-1/2"	MMO5/8-4FSE-BN
3/4"	3/4"	1-1/2"	4"	MMO3/4-4FSE-BN
1"	1"	1-1/2"	4"	MMO1-4FSE-BN

## 4 FLUTE SINGLE END LONG



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	1/8"	3/4"	2-1/4"	MMO1/8-4FSE-LONG
3/16"	3/16"	3/4"	2-1/4"	MMO3/16-4FSE-LONG
1/4"	1/4"	1-1/8"	3"	MMO1/4-4FSE-LONG
3/8"	3/8"	1-1/8"	3"	MMO3/8-4FSE-LONG

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/2"	1/2"	2"	4"	MMO1/2-4FSE-LONG
5/8"	5/8"	2-1/4"	5"	MMO5/8-4FSE-LONG
3/4"	3/4"	2-1/4"	5"	MMO3/4-4FSE-LONG
1"	1"	2-1/4"	5"	MMO1-4FSE-LONG

## 4 FLUTE SINGLE END EXTRA LONG



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	1/8"	1"	3"	MMO1/8-4FSE-XLONG
3/16"	3/16"	1-1/8"	3"	MMO3/16-4FSE-XLONG
1/4"	1/4"	1-1/2"	4"	MMO1/4-4FSE-XLONG
3/8"	3/8"	1-3/4"	4"	MMO3/8-4FSE-XLONG

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/2"	1/2"	3"	6"	MMO1/2-4FSE-XLONG
5/8"	5/8"	3"	6"	MMO5/8-4FSE-XLONG
3/4"	3/4"	3"	6"	MMO3/4-4FSE-XLONG
1"	1"	3"	6"	MMO1-4FSE-XLONG

# SOLID CARBIDE END MILLS

## 4 FLUTE DOUBLE END STUB



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/16"	1-1/2"	MMO1/32-4FDE-ST
3/64"	1/8"	3/32"	1-1/2"	MMO3/64-4FDE-ST
1/16"	1/8"	1/8"	1-1/2"	MMO1/16-4FDE-ST
5/64"	1/8"	1/8"	1-1/2"	MMO5/64-4FDE-ST
3/32"	1/8"	3/16"	1-1/2"	MMO3/32-4FDE-ST
7/64"	1/8"	3/16"	1-1/2"	MMO7/64-4FDE-ST

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	1/8"	1/4"	1-1/2"	MMO1/8-4FDE-ST
3/16"	3/16"	3/8"	2"	MMO3/16-4FDE-ST
1/4"	1/4"	1/2"	2-1/2"	MMO1/4-4FDE-ST
5/16"	5/16"	1/2"	2-1/2"	MMO5/16-4FDE-ST
3/8"	3/8"	9/16"	2-1/2"	MMO3/8-4FDE-ST
1/2"	1/2"	5/8"	3"	MMO1/2-4FDE-ST

## 4 FLUTE DOUBLE END STUB BALL



### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/32"	1/8"	1/16"	1-1/2"	MMO1/32-4FDE-ST-BN
3/64"	1/8"	3/32"	1-1/2"	MMO3/64-4FDE-ST-BN
1/16"	1/8"	1/8"	1-1/2"	MMO1/16-4FDE-ST-BN
5/64"	1/8"	1/8"	1-1/2"	MMO5/64-4FDE-ST-BN
3/32"	1/8"	3/16"	1-1/2"	MMO3/32-4FDE-ST-BN
7/64"	1/8"	3/16"	1-1/2"	MMO7/64-4FDE-ST-BN

### MMO Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/8"	1/8"	1/4"	1-1/2"	MMO1/8-4FDE-ST-BN
3/16"	3/16"	3/8"	2"	MMO3/16-4FDE-ST-BN
1/4"	1/4"	1/2"	2-1/2"	MMO1/4-4FDE-ST-BN
5/16"	5/16"	1/2"	2-1/2"	MMO5/16-4FDE-ST-BN
3/8"	3/8"	9/16"	2-1/2"	MMO3/8-4FDE-ST-BN
1/2"	1/2"	9/16"	3"	MMO1/2-4FDE-ST-BN



## HSS SHELL END MILLS

### DWCA Series

Size	Flute Length	Slot Width	Slot Depth	Hole Size	Part Number
1-1/4"	1"	1/4"	5/32"	1/2"	DWCA1610
1-1/2"	1-1/8"	1/4"	5/32"	1/2"	DWCA1612
1-3/4"	1-1/4"	5/16"	3/16"	3/4"	DWCA1614
2"	1-3/8"	5/16"	3/16"	3/4"	DWCA1616
2-1/4"	1-1/2"	3/8"	7/32"	1"	DWCA1618
2-1/2"	1-5/8"	3/8"	7/32"	1"	DWCA1620
2-3/4"	1-5/8"	3/8"	7/32"	1"	DWCA1622

### DWCA Series

Size	Flute Length	Slot Width	Slot Depth	Hole Size	Part Number
3"	1-3/4"	1/2"	9/32"	1-1/4"	DWCA1624
3-1/2"	1-7/8"	1/2"	9/32"	1-1/4"	DWCA1626
4"	2-1/4"	5/8"	3/8"	1-1/2"	DWCA1628
4-1/2"	2-1/4"	5/8"	3/8"	1-1/2"	DWCA1630
5"	2-1/4"	5/8"	3/8"	1-1/2"	DWCA1632
5-1/2"	2-1/4"	3/4"	7/16"	2"	DWCA1634
6"	2-1/4"	3/4"	7/16"	2"	DWCA1636

## HSS CORNER ROUNDING END MILLS



### DWCC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
1/16"	7/16"	3/8"	2-1/2"	DWCC402
3/32"	1/2"	3/8"	2-1/2"	DWCC403
1/8"	5/8"	1/2"	3"	DWCC404
5/32"	3/4"	1/2"	3"	DWCC405
3/16"	7/8"	3/4"	3-1/8"	DWCC406
1/4"	1"	3/4"	3-1/8"	DWCC408
5/16"	1-1/8"	3/4"	3-1/4"	DWCC409
5/16"	1-1/8"	7/8"	3-1/2"	DWCC410

### DWCC Series

Size	Shank Dia.	Flute Length	O.A.L.	Part Number
3/8"	1-1/4"	3/4"	3-1/2"	DWCC411
3/8"	1-1/4"	7/8"	3-3/4"	DWCC412
7/16"	1-3/8"	3/4"	3-3/4"	DWCC413
7/16"	1-3/8"	1"	4"	DWCC414
1/2"	1-1/2"	3/4"	3-7/8"	DWCC416
5/8"	1-5/8"	3/4"	4"	DWCC420
5/8"	1-5/8"	1"	4-1/4"	DWCC422
3/4"	1-7/8"	3/4"	4-1/8"	DWCC424

# DOUBLE CUT CARBIDE BURS

## CYLINDRICAL

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/8"	1/2"	DULSA11
1/8"	5/8"	DULSA12
5/32"	5/8"	DULSA13
3/16"	5/8"	DULSA14
1/4"	5/8"	DULSA1
1/4"	1"	DULSA1A
5/16"	3/4"	DULSA2
5/16"	1"	DULSA2A
3/8"	3/4"	DULSA3
3/8"	1"	DULSA3A
3/8"	1-1/2"	DULSA3B
7/16"	1"	DULSA4
1/2"	1"	DULSA5
5/8"	1"	DULSA6
3/4"	1"	DULSA7
3/4"	3/4"	DULSA16
1"	1"	DULSA9

## DOUBLE CUT



## CYLINDRICAL (END CUT)

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/8"	1/2"	DULSB11
1/8"	5/8"	DULSB12
3/16"	5/8"	DULSB14
1/4"	5/8"	DULSB1
1/4"	1"	DULSB1A
5/16"	3/4"	DULSB2
5/16"	1"	DULSB2A
3/8"	3/4"	DULSB3
3/8"	1"	DULSB3A
3/8"	1-1/2"	DULSB3B
7/16"	1"	DULSB4
1/2"	1"	DULSB5
5/8"	1"	DULSB6
3/4"	1"	DULSB7
3/4"	3/4"	DULSB16
1"	1"	DULSB9



## CYLINDRICAL (RADIUS END)

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/8"	1/2"	DULSC11
1/8"	5/8"	DULSC12
3/16"	5/8"	DULSC14
1/4"	5/8"	DULSC1
1/4"	1"	DULSC1A
5/16"	3/4"	DULSC2
5/16"	1"	DULSC2A
3/8"	3/4"	DULSC3
3/8"	1"	DULSC3A
3/8"	1-1/2"	DULSC3B
7/16"	1"	DULSC4
1/2"	1"	DULSC5
5/8"	1"	DULSC6
3/4"	1"	DULSC7
1"	1"	DULSC9



## BALL END

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/8"	3/32"	DULSD11
3/16"	1/4"	DULSD14
1/4"	3/16"	DULSD1
5/16"	1/4"	DULSD2
3/8"	5/16"	DULSD3
7/16"	3/8"	DULSD4
1/2"	7/16"	DULSD5
5/8"	9/16"	DULSD6
3/4"	11/16"	DULSD7
1"	15/16"	DULSD9



## OVAL

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
3/16"	5/16"	DULSE11
1/4"	3/8"	DULSE1
3/8"	5/8"	DULSE3
1/2"	7/8"	DULSE5
5/8"	1"	DULSE6
3/4"	1"	DULSE7



## TREE (RADIUS END)

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/8"	1/2"	DULSF11
1/4"	5/8"	DULSF1
3/8"	3/4"	DULSF3
7/16"	1"	DULSF4
1/2"	1"	DULSF5
1/2"	3/4"	DULSF13
5/8"	1"	DULSF6
3/4"	1"	DULSF7
3/4"	1-1/4"	DULSF14
3/4"	1-1/2"	DULSF15



## TREE (POINTED END)

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/4"	5/8"	DULSG1
5/16"	3/4"	DULSG2
3/8"	3/4"	DULSG3
1/2"	1"	DULSG5
1/2"	3/4"	DULSG13
5/8"	1"	DULSG6
3/4"	1"	DULSG7
3/4"	1-1/2"	DULSG15



## FLAME

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/4"	5/8"	DULSH1
5/16"	3/4"	DULSH2
1/2"	1-1/4"	DULSH5
5/8"	1-7/16"	DULSH6
3/4"	1-5/8"	DULSH7



## 60° (INCLUDED ANGLE)

DUL Series		
Cutting Diameter	Length Of Cut	Part Number
1/4"	3/16"	DULSJ1
3/8"	5/16"	DULSJ3
1/2"	7/16"	DULSJ5
5/8"	1/2"	DULSJ6
3/4"	5/8"	DULSJ7
1"	3/4"	DULSJ9





# SOLID CARBIDE BURS

90° (INCLUDED ANGLE)

CONE (RADIUS END 14° TAPER)

## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/4"	1/8"	DULSK1
5/16"	3/16"	DULSK2
3/8"	3/16"	DULSK3
1/2"	1/4"	DULSK5
5/8"	5/16"	DULSK6
3/4"	3/8"	DULSK7
1"	1/2"	DULSK9



## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/4"	5/8"	DULSL1
5/16"	7/8"	DULSL2
3/8"	1-1/16"	DULSL3
1/2"	1-1/8"	DULSL4
5/8"	1-3/16"	DULSL5
5/8"	1-5/16"	DULSL6
3/4"	1-1/2"	DULSL7



## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/4"	1/2"	DULSM1
1/4"	3/4"	DULSM2
1/4"	1"	DULSM3
1/4"	1-1/4"	DULSM3A
3/8"	5/8"	DULSM4
1/2"	7/8"	DULSM5
5/8"	1"	DULSM6



## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/4"	5/16"	DULSN1
3/8"	3/8"	DULSN2
1/2"	1/2"	DULSN4
5/8"	3/4"	DULSN6
3/4"	5/8"	DULSN7



INVERTED CONE

6" OVERALL

## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/4"	1/2"	DULSA1X6
3/8"	3/4"	DULSA3X6
1/2"	1"	DULSA5X6

CYLINDRICAL

## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/4"	1/2"	DULSF1X6
3/8"	3/4"	DULSF3X6
1/2"	1"	DULSF5X6

TREE (RADIUS END)

CYLINDRICAL (RADIUS END)

1/4"	1/2"	DULSC1X6
3/8"	3/4"	DULSC3X6
1/2"	1"	DULSC5X6

TREE (POINTED END)

1/4"	1/2"	DULSG1X6
3/8"	3/4"	DULSG3X6
1/2"	1"	DULSG5X6

BALL END

1/2"	7/16"	DULSD5X6
1/4"	3/8"	DULSE1X6
3/8"	5/8"	DULSE3X6
1/2"	7/8"	DULSE5X6

OVAL

FLAME

1/2"	1-1/4"	DULSH5X6
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CONE (RADIUS END 14°)

3/8"	1-1/16"	DULSL3X6
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ALUMINUM & NON-FERROUS

## DUL Series

Cutting Diameter	Length Of Cut	Part Number
3/8"	3/4"	DULSA3NF
1/2"	1"	DULSA5NF
3/4"	1"	DULSA7NF

CYLINDRICAL



## DUL Series

Cutting Diameter	Length Of Cut	Part Number
1/2"	7/8"	DULSE5NF
5/8"	1"	DULSE6NF

OVAL



CYLINDRICAL (END CUT)

3/8"	3/4"	DULSB3NF
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TREE (RADIUS END)

1/4"	5/8"	DULSF1NF
3/8"	3/4"	DULSF3NF
1/2"	1"	DULSF5NF
5/8"	1"	DULSF6NF



CYLINDRICAL (RADIUS END)

3/8"	3/4"	DULSC3NF
1/2"	1"	DULSC5NF
3/4"	1"	DULSC7NF



CONE (RADIUS END 14°)

3/8"	1-1/16"	DULSL3NF
1/2"	1-1/8"	DULSL4NF
5/8"	1-5/16"	DULSL6NF
3/4"	1-1/2"	DULSL7NF



BALL END

3/8"	3/8"	DULSD3NF
1/2"	1/2"	DULSD5NF
5/8"	5/8"	DULSD6NF



# SOLID CARBIDE BURS

## MINIATURE

### DUL series

Cutting Diameter	Length Of Cut	Part Number
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#### CYLINDRICAL

1/16"	1/4"	DULSA41
3/32"	7/16"	DULSA42
1/8"	9/16"	DULSA43
1/4"	1/2"	DULSA51
5/32"	1/2"	DULSA52
3/16"	1/2"	DULSA53
3/32"	1/4"	DULSA61
3/32"	3/8"	DULSA63
3/16"	5/8"	DULSA81

#### CYLINDRICAL (END CUT)

1/16"	1/4"	DULSB41
3/32"	7/16"	DULSB42
1/4"	3/16"	DULSB51

#### CYLINDRICAL (RADIUS END)

3/32"	7/16"	DULSC41
1/8"	9/16"	DULSC42
1/4"	1/2"	DULSC51
5/32"	1/2"	DULSC52
3/16"	1/2"	DULSC53
3/32"	3/8"	DULSC61
3/16"	5/8"	DULSC81

#### BALL END

3/32"	3/32"	DULSD41
1/8"	1/8"	DULSD42
1/4"	1/4"	DULSD51
3/16"	3/16"	DULSD53
3/32"	3/32"	DULSD61
3/16"	3/16"	DULSD81

#### OVAL

1/8"	7/32"	DULSE41
1/4"	3/8"	DULSE51
3/16"	9/32"	DULSE53
3/32"	1/8"	DULSE61
3/16"	9/32"	DULSE81

#### TREE (RADIUS END)

1/8"	1/4"	DULSF41
1/8"	1/2"	DULSF42
1/4"	1/2"	DULSF51
3/16"	1/2"	DULSF53
3/32"	1/4"	DULSF61
3/16"	1/2"	DULSF81

### DUL series

Cutting Diameter	Length Of Cut	Part Number
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#### TREE (POINTED END)

1/8"	1/4"	DULSG41
1/8"	3/8"	DULSG43
1/8"	1/2"	DULSG44
1/4"	1/2"	DULSG51
3/16"	1/2"	DULSG53
3/32"	1/4"	DULSG61
3/16"	1/2"	DULSG81

#### FLAME

1/8"	1/4"	DULSH41
3/16"	3/8"	DULSH53

#### 60° (INCLUDED ANGLE)

1/8"	3/32"	DULSJ42
3/16"	3/16"	DULSJ81

#### 90° (INCLUDED ANGLE)

1/8"	1/16"	DULSK42
3/16"	1/2"	DULSK81

#### CONE (RADIUS END 14° TAPER)

1/8"	3/8"	DULSL41
1/8"	1/2"	DULSL42
3/16"	1/2"	DULSL53
3/16"	7/16"	DULSL81

#### CONE (POINTED END)

1/8"	11/32"	DULSM41
1/8"	7/16"	DULSM42
1/8"	5/8"	DULSM43
1/4"	1/2"	DULSM51
3/16"	1/2"	DULSM53
3/32"	1/4"	DULSM61
3/16"	1/2"	DULSM81

#### INVERTED CONE

3/32"	1/8"	DULSN41
1/8"	3/16"	DULSN42
1/4"	1/4"	DULSN51
3/16"	1/4"	DULSN53
3/32"	1/8"	DULSN61
3/16"	1/4"	DULSN81

**40 & 50 Series have 1/8" Shank Diameter.  
60 Series have 3/32" Shank Diameter.  
80 Series have 3/16" Shank Diameter.**



# SOLID CARBIDE BUR SETS

## DUL series

Part Number	# of Pieces	Includes
DUL1SET	12 pc	SA1, SA5, SC1, SC5, SD1, SD5, SE5, SF13, SG5, SH1, SL4 & SN2
DUL2SET	28 pc	SA1, SA3, SA5, SC1, SC3, SC5, SD1, SD3, SD5, SE1, SE3, SE5, SF1, SF3, SF5, SG1, SG3, SG5, SH2, SH5, SL1, SL2, SL4, SM3, SM4, SM5, SN1 & SN4
DUL3SET	8 pc	SA5, SC3, SC5, SD5, SF3, SF5, SG3 & SL4
DUL4SET	8 pc	SA1, SC1, SD1, SE1, SF1, SG1, SM2 & SN1
DUL5SET	11 pc	SA42, SA43, SC42, SD42, SE41, SF42, SG41, SG43, SH41, SM43 & SN42



# ABRASIVES

## ALUMINUM OXIDE CLOTH ROLLS (HANDY ROLLS)

Handy Rolls, made of high grade, resin-bonded, J-wt. Cloth material, are packaged 50 Yards per Roll. The flexibility of these cloth rolls allows for contour work. They come packaged in storage containers for easy dispensing.

### 1 " W I D E

#### DEW Series

Size	Grit	Part Number
1"	40	DEW140
1"	50	DEW150
1"	60	DEW160
1"	80	DEW180
1"	100	DEW1100
1"	120	DEW1120
1"	150	DEW1150
1"	180	DEW1180
1"	220	DEW1220
1"	240	DEW1240
1"	320	DEW1320
1"	400	DEW1400

### 1 - 1 / 2 " W I D E

#### DEW Series

Size	Grit	Part Number
1-1/2"	40	DEW11240
1-1/2"	50	DEW11250
1-1/2"	60	DEW11260
1-1/2"	80	DEW11280
1-1/2"	100	DEW112100
1-1/2"	120	DEW112120
1-1/2"	150	DEW112150
1-1/2"	180	DEW112180
1-1/2"	220	DEW112220
1-1/2"	240	DEW112240
1-1/2"	320	DEW112320
1-1/2"	400	DEW112400



### 2 " W I D E

#### DEW Series

Size	Grit	Part Number
2"	40	DEW240
2"	50	DEW250
2"	60	DEW260
2"	80	DEW280
2"	100	DEW2100
2"	120	DEW2120

#### DEW Series

Size	Grit	Part Number
2"	150	DEW2150
2"	180	DEW2180
2"	220	DEW2220
2"	240	DEW2240
2"	320	DEW2320
2"	400	DEW2400

# FILES

## DIC Series

## F L A T

Length	Bastard	2nd Cut	Smooth
4"	DIC03367	DIC03401	DIC03434
6"	DIC03467	DIC03500	DIC03533
8"	DIC03566	DIC03599	DIC03632
10"	DIC03665	DIC03698	DIC03731
12"	DIC03764	DIC03797	DIC03830
14"	DIC03863	DIC03896	DIC03929
16"	DIC03980	DIC03981	DIC03982

Flat Files are used by machinists, machinery builders, ship and engine builders, repairmen and others who require rapid removal of metal. They are rectangular in cross section and taper slightly towards the point in both width and thickness. Double cut on both sides, single cut on both edges.



## DIC Series

## H A L F R O U N D

Length	Bastard	2nd Cut	Smooth
4"	DIC04695	DIC04729	DIC04762
6"	DIC04795	DIC04828	DIC04861
8"	DIC04896	DIC04927	DIC04960
10"	DIC04995	DIC05026	DIC05059
12"	DIC05094	DIC05125	DIC05158
14"	DIC05194	DIC05225	DIC05258

Rounded on one side, flat on the other. Used on concave and convex as well as flat surfaces. The backs of all Half Round Bastard Files are double cut. The Backs of all Half Round Second Cut Files longer than 6" are double cut, the 4" and 6" files are single cut. The backs of all Half Round Smooth files are single cut. The flat sides of all Half Files are double cut.



## DIC Series

## M I L L

Length	Bastard	2nd Cut	Smooth
6"	DIC08354	DIC08385	DIC08416
8"	DIC08497	DIC08529	DIC08560
10"	DIC08642	DIC08673	DIC08704
12"	DIC08737	DIC08768	DIC08799
14"	DIC08832	-	DIC08894

For sharpening Mill or Circular Saws. Also for drawfiling, and metals. All sizes tapered slightly in width, 12" and 14" slightly in thickness for about one-third of length. Two square edges. Single cut on sides and edges.



## DIC Series

## R O U N D

Length	Bastard	2nd Cut	Smooth
4"	DIC11526	DIC11559	DIC11592
6"	DIC11716	DIC11748	DIC11781
8"	DIC11904	DIC11936	DIC11969
10"	DIC12019	DIC12051	DIC12084
12"	DIC12134	DIC12166	DIC12199
14"	DIC12248	DIC12282	DIC12250

Principal use is to file circular opening or concave surfaces. Tapered slightly towards point. All 4", 6", 8" and 10" files are single cut. 12" bastard and second cut are double cut, 12" smooth is single cut and 14" bastard is double cut.



## DIC Series

## S Q U A R E

Length	Bastard	2nd Cut	Smooth
4"	DIC12790	DIC12824	DIC12857
6"	DIC12967	DIC13000	DIC13033
8"	DIC13081	DIC13114	DIC13147
10"	DIC13196	DIC13229	DIC13262
12"	DIC13310	DIC13343	DIC13376
14"	DIC13425	DIC13426	DIC13427
16"	-	-	DIC13428

For filing slots, keyways and general surfaces filing. Larger sizes frequently preferred to corresponding Flat Files because of heavier section and for filing surfaces. Tapered slightly towards point. Double cut.



## DIC Series

## T H R E E S Q U A R E

Length	Bastard	2nd Cut	Smooth
6"	DIC15925	DIC15958	DIC15991
8"	DIC16036	DIC16069	DIC16102
10"	DIC16147	DIC16180	DIC16213
12"	DIC16214	DIC16215	DIC16216

Three square Files are triangular in cross section, and are double cut and have fairly sharp corners that are slightly set and cut. These files are for general use by machinists for filing internal angles more than the right angle, for clearing out square corners and filing taps and cutters. Grading of cuts according to coarseness is same as Square File.



# INDEXES & DISPENSERS

## DRILL INDEXES

### HUT Series

Capacity	Description	Part Number
13 pc	1/16" to 1/4" x 64ths	HUT313
21 pc	1/16" to 3/8" x 64ths	HUT21
15 pc	1/16" to 1/2" x 32nds	HUT15
29 pc	1/16" to 1/2" x 64ths	HUT29
26 pc	Letter Sizes A to Z	HUT26
60 pc	Wire Gauge Sizes #1 to #60	HUT60
20 pc	Wire Gauge Sizes #61 to #80	HUT20
80 pc	Wire Gauge Sizes #1 to #80	HUT80
8 pc	9/16" to 1" x 16ths S&D	HUT88SD



## METRIC DRILL INDEXES

### HUT Series

Capacity	Description	Part Number
11 pc	1mm to 6mm x 0.5mm	HUT4011
13 pc	1mm to 7mm x 0.5mm	HUT4013
19 pc	1mm to 10mm x 0.5mm	HUT4019
25 pc	1mm to 13mm x 0.5mm	HUT4025
50 pc	1mm to 5.9mm x 0.1mm	HUT4050
41 pc	6mm to 10mm x 0.1mm	HUT4041

## DRILL STANDS

### HUT Series

Capacity	Description	Part Number
29 pc	1/16" to 1/2" x 64ths	HUT829
26 pc	Letter Sizes A to Z	HUT826
60 pc	Wire Gauge Sizes No. #1 to #60	HUT860
33 pc	S&D 1/2" to 1" x 64ths	HUT833SD



## DRILL DISPENSERS & DISPLAYS

### HUT Series

Description	Part Number
1/16" to 1/2" x 64ths Drill Dispenser	HUT1
#1 to #60 Drill Dispenser	HUT2
A to Z Drill Dispenser	HUT3
Metric 1mm to 13mm by 0.5mm Drill Dispenser	HUT4
Metric 1mm to 6.9mm by 0.1mm Drill Dispenser	HUT5
1/16" to 1/2" x 64ths Counter Display (Red)	HUT6
1/16" to 1/2" x 64ths Counter Display (Blue)	HUT6BLUE
Wire Gauge Sizes #1 to #60 Counter Display	HUT7
Letter Sizes A to Z Counter Display	HUT8





# INDEXES & DISPENSERS

## COMBINATION INDEX

### HUT Series

Capacity	Description	Part Number
115 pc	1/16" to 1/2", A to Z #1 to #60	HUT115



## TAPER SHANK & TAPER LENGTH INDEXES

### HUT Series

Capacity	Description	Part Number
29 pc	1/16" to 1/2" x 64ths Taper Length	HUT329
16 pc	33/64" to 3/4" x 64ths Taper Shank or Taper Length	HUT1016
16 pc	49/64" to 1" x 64ths Taper Shank or Taper Length	HUT2016



## TAP DISPENSERS

### HUT Series

Description	Part Number
Taps 1/4"-20 to 1"-14	HUT13500
Taps 2-56 to 12-28	HUT13550
Metric taps 3mm to 24mm	HUT13575



## BUR DISPENSER

### HUT Series

Description	Part Number
Carbide Bur Dispenser	HUT13200



## DRILL GAUGES

### HUT Series

Description	Part Number
1/16" to 1/2" x 64ths	HUT9092
Wire Gauge Sizes #1 to 60	HUT12260



# CARBIDE TIPPED TOOL BITS

GRADE C2 - General purpose for cast-iron and non-ferrous materials  
 GRADE C6 - General purpose for steel

## STYLE A & B, LEFT & RIGHT HAND

15° Lead Angle



DEWA Series		LEFT HAND	RIGHT HAND
Size	O.A.L.	Part Number	Part Number
1/4"	2"	DEWAL-4C2	DEWAR-4C2
1/4"	2"	DEWAL-4C6	DEWAR-4C6
5/16"	2-1/4"	DEWAL-5C2	DEWAR-5C2
5/16"	2-1/4"	DEWAL-5C6	DEWAR-5C6
3/8"	2-1/2"	DEWAL-6C2	DEWAR-6C2
3/8"	2-1/2"	DEWAL-6C6	DEWAR-6C6
7/16"	3"	DEWAL-7C2	DEWAR-7C2
7/16"	3"	DEWAL-7C6	DEWAR-7C6
1/2"	3-1/2"	DEWAL-8C2	DEWAR-8C2
1/2"	3-1/2"	DEWAL-8C6	DEWAR-8C6
5/8"	4"	DEWAL-10C2	DEWAR-10C2
5/8"	4"	DEWAL-10C6	DEWAR-10C6
3/4"	4-1/2"	DEWAL-12C2	DEWAR-12C2
3/4"	4-1/2"	DEWAL-12C6	DEWAR-12C6
1"	7"	DEWAL-16C2	DEWAR-16C2
1"	7"	DEWAL-16C6	DEWAR-16C6

DEWB Series		LEFT HAND	RIGHT HAND
Size	O.A.L.	Part Number	Part Number
1/4"	2"	DEWBL-4C2	DEWBR-4C2
1/4"	2"	DEWBL-4C6	DEWBR-4C6
5/16"	2-1/4"	DEWBL-5C2	DEWBR-5C2
5/16"	2-1/4"	DEWBL-5C6	DEWBR-5C6
3/8"	2-1/2"	DEWBL-6C2	DEWBR-6C2
3/8"	2-1/2"	DEWBL-6C6	DEWBR-6C6
7/16"	3"	DEWBL-7C2	DEWBR-7C2
7/16"	3"	DEWBL-7C6	DEWBR-7C6
1/2"	3-1/2"	DEWBL-8C2	DEWBR-8C2
1/2"	3-1/2"	DEWBL-8C6	DEWBR-8C6
5/8"	4"	DEWBL-10C2	DEWBR-10C2
5/8"	4"	DEWBL-10C6	DEWBR-10C6
3/4"	4-1/2"	DEWBL-12C2	DEWBR-12C2
3/4"	4-1/2"	DEWBL-12C6	DEWBR-12C6
1"	7"	DEWBL-16C6	--

## STYLE C, D, & E

SQUARE NOSE

80° POINT

60° POINT



DEWC Series		
Size	O.A.L.	Part Number
1/4"	2"	DEWC-4C2
1/4"	2"	DEWC-4C6
5/16"	2-1/4"	DEWC-5C2
5/16"	2-1/4"	DEWC-5C6
3/8"	2-1/2"	DEWC-6C2
3/8"	2-1/2"	DEWC-6C6
7/16"	3"	DEWC-7C2
7/16"	3"	DEWC-7C6
1/2"	3-1/2"	DEWC-8C2
1/2"	3-1/2"	DEWC-8C6
5/8"	4"	DEWC-10C2
5/8"	4"	DEWC-10C6
3/4"	4-1/2"	DEWC-12C2
3/4"	4-1/2"	DEWC-12C6
1"	7"	DEWC-16C2
1"	7"	DEWC-16C6

DEWD Series		
Size	O.A.L.	Part Number
1/4"	2"	DEWD-4C2
1/4"	2"	DEWD-4C6
5/16"	2-1/4"	DEWD-5C2
5/16"	2-1/4"	DEWD-5C6
3/8"	2-1/2"	DEWD-6C2
3/8"	2-1/2"	DEWD-6C6
7/16"	3"	DEWD-7C2
7/16"	3"	DEWD-7C6
1/2"	3-1/2"	DEWD-8C2
1/2"	3-1/2"	DEWD-8C6
5/8"	4"	DEWD-10C2
5/8"	4"	DEWD-10C6
3/4"	4-1/2"	DEWD-12C2
3/4"	4-1/2"	DEWD-12C6
1"	7"	DEWD-16C2
1"	7"	DEWD-16C6

DEWE Series		
Size	O.A.L.	Part Number
1/4"	2"	DEWE-4C2
1/4"	2"	DEWE-4C6
5/16"	2-1/4"	DEWE-5C2
5/16"	2-1/4"	DEWE-5C6
3/8"	2-1/2"	DEWE-6C2
3/8"	2-1/2"	DEWE-6C6
7/16"	3"	DEWE-7C2
7/16"	3"	DEWE-7C6
1/2"	3-1/2"	DEWE-8C2
1/2"	3-1/2"	DEWE-8C6
5/8"	4"	DEWE-10C2
5/8"	4"	DEWE-10C6
3/4"	4-1/2"	DEWE-12C2
3/4"	4-1/2"	DEWE-12C6



## HSS CUTOFF BLADES

## HSS & COBALT SQUARE TOOL BITS

DEWTB Series		
Size	Part Number	Part Number
1/8"x2-1/2"	DEWTBHS1/8	DEWTBCOB1/8
3/16"x2-1/2"	DEWTBHS3/16	DEWTBCOB3/16
1/4"x2-1/2"	DEWTBHS1/4	DEWTBCOB1/4
5/16"x2-1/2"	DEWTBHS5/16	DEWTBCOB5/16
3/8"x3"	DEWTBHS3/8	DEWTBCOB3/8
7/16"x3-1/2"	DEWTBHS7/16	DEWTBCOB7/16
1/2"x4"	DEWTBHS1/2	DEWTBCOB1/2
5/8"x4-1/2"	DEWTBHS5/8	DEWTBCOB5/8
3/4"x5"	DEWTBHS3/4	DEWTBCOB3/4
7/8"x6"	DEWTBHS7/8	DEWTBCOB7/8
1"x7"	DEWTBHS1INCH	DEWTBCOB1INCH
1-1/4"x7"	DEWTBHS1-1/4	DEWTBCOB1-1/4

## DEWCOB Series

W	H	O.A.L.	Part Number
3/32"	1/2"	6"	DEWCOB3/32X1/2
3/32"	5/8"	6"	DEWCOB3/32X5/8
1/8"	3/4"	6"	DEWCOB1/8X3/4
1/8"	7/8"	6"	DEWCOB1/8X7/8
3/16"	1"	6-1/2"	DEWCOB3/16X1

## COBALT CUTOFF BLADES

W	H	O.A.L.	Part Number
3/32"	1/2"	6"	DEWCOBCO3/32X1/2
3/32"	5/8"	6"	DEWCOBCO3/32X5/8
1/8"	3/4"	6"	DEWCOBCO1/8X3/4
1/8"	7/8"	6"	DEWCOBCO1/8X7/8
3/16"	1"	6-1/2"	DEWCOBCO3/16X1

# WOOD WORKING

## SELF FEED BITS

### DMS70 Series

Size	Part Number
1"	DMS70-3002
1-1/8"	DMS70-3003
1-1/4"	DMS70-3005
1-3/8"	DMS70-3010
1-1/2"	DMS70-3020
1-3/4"	DMS70-3030
2"	DMS70-3033
2-1/8"	DMS70-3035
2-1/4"	DMS70-3040
2-9/16"	DMS70-3060
3"	DMS70-3065
3-5/8"	DMS70-3070
4-5/8"	DMS70-3080



## SPADE BITS

### DMS71 Series

Size	Part Number
3/8"x6"	DMS71-0003
1/2"x6"	DMS71-0004
5/8"x6"	DMS71-0006
3/4"x6"	DMS71-0008
7/8"x6"	DMS71-0009
1"x6"	DMS71-0011
1-1/8"x6"	DMS71-0013
1-1/4"x6"	DMS71-0015
1-3/8"x6"	DMS71-0016
1-1/2"x6"	DMS71-0018
3/8"x16"	DMS71-1603
1/2"x16"	DMS71-1604
3/4"x16"	DMS71-1608
1"x16"	DMS71-1611
1-1/2"x16"	DMS71-1618
6 PC. SET (3/8"-1"x6")	DMS71-1040



## AUGER BITS

### DMS73 Series

Size	Part Number
3/8"x7"	DMS73-0002
1/2"x7"	DMS73-0004
5/8"x7"	DMS73-0007
3/4"x7"	DMS73-0009
7/8"x7"	DMS73-0010
1"x7"	DMS73-0011
1-1/8"x7"	DMS73-0012
1-1/4"x7"	DMS73-0014
1-3/8"x7"	DMS73-0016
1-1/2"x7"	DMS73-0018



## SHIP AUGER BITS

### DMS73 Series

Size	Part Number
3/8"x18"	DMS73-1010
7/16"x18"	DMS73-1015
1/2"x18"	DMS73-1020
9/16"x18"	DMS73-1025
5/8"x18"	DMS73-1030
3/4"x18"	DMS73-1040
7/8"x18"	DMS73-1050
1"x18"	DMS73-1060
1-1/8"x18"	DMS73-1070
1-1/4"x18"	DMS73-1080
1-3/8"x18"	DMS73-1090
1-1/2"x18"	DMS73-1100



## LONG AUGER BITS

### DMS73 Series

Size	Part Number
9/16"x23"	DMS73-4009
5/8"x23"	DMS73-4010
11/16"x23"	DMS73-4011
3/4"x23"	DMS73-4012
13/16"x23"	DMS73-4013
7/8"x23"	DMS73-4014
15/16"x23"	DMS73-4015
1"x23"	DMS73-4016
9/16"x30"	DMS73-5009
5/8"x30"	DMS73-5010
11/16"x30"	DMS73-5011
3/4"x30"	DMS73-5012
13/16"x30"	DMS73-5013
7/8"x30"	DMS73-5014
15/16"x30"	DMS73-5015
1"x30"	DMS73-5016
1-1/16"x30"	DMS73-5017
1-1/8"x30"	DMS73-5018
1-1/2"x30"	DMS73-5024

## NAIL BUSTER AUGER BITS

### DMS73 Series

Size	Part Number
1/2"x8"	DMS73-2510
5/8"x8"	DMS73-2530
3/4"x8"	DMS73-2550
7/8"x8"	DMS73-2570
1"x8"	DMS73-2590
1-1/8"x8"	DMS73-2600
3/8"x18"	DMS73-2030
1/2"x18"	DMS73-2050
5/8"x18"	DMS73-2070
3/4"x18"	DMS73-2090
7/8"x18"	DMS73-2100
1"x18"	DMS73-2120
1-1/8"x18"	DMS73-2130
1-1/4"x18"	DMS73-2140
1-3/8"x18"	DMS73-2150
1-1/2"x18"	DMS73-2160



# WOOD WORKING

## RECIPROCATING SAW BLADES

### DMS03 Series

Description	Part Number
4"x.035 14TPI	DMS03-7414
4"x.035 18TPI	DMS03-7418
4"x.035 24TPI	DMS03-7424
6"x.035 6TPI	DMS03-7606
6"x.035 10TPI	DMS03-7610
6"x.035 14TPI	DMS03-7614
6"x.035 18TPI	DMS03-7618
6"x.035 24TPI	DMS03-7624
6"x7/8x.062 6TPI	DMS03-7666
8"x.050 10TPI	DMS03-7810
8"x.050 14TPI	DMS03-7814
8"x.050 18TPI	DMS03-7818
9"x.050 6TPI	DMS03-7906
12"x.050 10/14TPI	DMS03-7203
12"x.050 6TPI	DMS03-7206
12"x.050 14TPI	DMS03-7214
12"x.050 18TPI	DMS03-7218



## BRAD POINT

### DMS68 Series

Size	Part Number
1/8"	DMS68-0010
5/32"	DMS68-0020
3/16"	DMS68-0030
1/4"	DMS68-0040
5/16"	DMS68-0050
3/8"	DMS68-0060
7/16"	DMS68-0070
1/2"	DMS68-0080
*5/8"	DMS68-0090
*3/4"	DMS68-0100

\*1/2 Reduced Shank



## BIMETAL HACKSAW BLADES

### DMS02 Series

Description	Part Number
12" 14TPI	DMS02-0314
12" 18TPI	DMS02-0318
12" 24TPI	DMS02-0324
12" 32TPI	DMS02-0332



## JIGSAW BLADES - BOSCH STYLE

14TPI (METAL >1/8")	DMS03-8214
18TPI (METAL >18GA)	DMS03-8218
24TPI (THIN METAL)	DMS03-8224
10TPI (WOOD, PLY, COMP)	DMS03-8510



## JIGSAW BLADES - UNIVERSAL STYLE

14TPI	DMS03-9214
18TPI	DMS03-9218
24TPI	DMS03-9224



## FORSTNER DRILL BITS

### DMS70 Series

Size	Part Number
1/4"	DMS70-0010
3/8"	DMS70-0020
1/2"	DMS70-0030
5/8"	DMS70-0040
3/4"	DMS70-0050
7/8"	DMS70-0060
1"	DMS70-0070
1-1/8"	DMS70-0080
1-1/4"	DMS70-0090
1-3/8"	DMS70-0100
1-1/2"	DMS70-0110
1-5/8"	DMS70-0120
1-3/4"	DMS70-0130
1-7/8"	DMS70-0140
2"	DMS70-0150
2-1/8"	DMS70-0160



## FORSTNER DRILL BIT SETS

7PC 1/4"-1" DMS70-2007

16PC 1/4"-2-1/8" DMS70-2016





# INSERT BITS

## INS Series

Economy insert and power bits.

### PHILLIPS

#### INS Series

Size	O.A.L.	Part Number	Ref #
------	--------	-------------	-------

#### INSERT BITS W/ 1/4" SHANK

P1	1"	INS27020	440-1X
P2	1"	INS27021	440-2X
P3	1"	INS27022	440-3X
P4	1"	INS440-4	440-4X

#### REDUCED INSERT BITS

##### W/ 1/4" HEX SHANK

P1	1"	INS27035	446-1X
P2	1"	INS27036	446-2X

#### INSERT BITS W/ 5/16" SHANK

P1	1-1/4"	INS27205	480-1X
P2	1-1/4"	INS27206	480-2X
P3	1-1/4"	INS27207	480-3X
P4	1-1/4"	INS27208	480-4X

#### POWER BITS W/ 1/4" HEX SHANK

P1	1-15/16"	INS27360	491X
P2	1-15/16"	INS27361	492X
P3	1-15/16"	INS27362	493X
P1	2-3/4"	INS27363	491-AX
P2	2-3/4"	INS27364	492-AX
P3	2-3/4"	INS27365	493-AX
P1	3-1/2"	INS27366	491-BX
P2	3-1/2"	INS27367	492-BX
P3	3-1/2"	INS27368	493-BX
P1	6"	INS45794	491-CX
P2	6"	INS45625	492-CX
P3	6"	INS45626	493-CX

### TORX

#### INS Series

Size	O.A.L.	Part Number	Ref #
------	--------	-------------	-------

#### TORX INSERT BITS W/ 1/4" HEX SHANK

T8	1"	INS37153	440-TX-08X
T10	1"	INS37157	440-TX-10X
T15	1"	INS37159	440-TX-15X
T20	1"	INS37161	440-TX-20X
T25	1"	INS37163	440-TX-25X
T27	1"	INS37165	440-TX-27X
T30	1"	INS37167	440-TX-30X
T40	1"	INS37169	440-TX-40X

#### TORX INSERT BITS W/ 5/16" HEX SHANK

T30	1-1/4"	INS37171	480-TX-30X
T40	1-1/4"	INS37173	480-TX-40X
T45	1-1/4"	INS37175	480-TX-45X
T50	1-1/4"	INS37177	480-TX-50X
T55	1-1/4"	INS38333	480-TX-55X

### SLOTTED

#### INS Series

Size	O.A.L.	Part Number	Ref #
------	--------	-------------	-------

#### SLOTTED INSERT BITS

##### W/ 1/4" HEX SHANK

#4-5	1"	INS39534	445-1X
#6-8	1"	INS39536	445-2X
#8-10	1"	INS39537	445-3X
#10-12	1"	INS39538	445-4X

#### SLOTTED POWER BITS

##### W/ 1/4" HEX SHANK

#4-5	1-15/16"	INS27463	320-1X
#6-8	1-15/16"	INS27465	320-3X
#8-12	1-15/16"	INS27466	320-4X

### SQUARE

#### INS Series

Size	O.A.L.	Part Number	Ref #
------	--------	-------------	-------

#### SQUARE DRIVE INSERT BITS

##### W/ 1/4" HEX SHANK

R1	1"	INS29049	950-1X
R2	1"	INS29050	950-2X
R3	1"	INS29051	950-3X

#### SQUARE DRIVE POWER BITS

##### W/ 1/4" HEX SHANK

R1	1-15/16"	INS29052	954-1X
R2	1-15/16"	INS29053	954-2X
R3	1-15/16"	INS29054	954-3X

### TORX

#### INS Series

Size	O.A.L.	Part Number	Ref #
------	--------	-------------	-------

#### TORX POWER BITS

##### W/ 1/4" HEX SHANK

T10	1-15/16"	INS37715	49-TX-10
T15	1-15/16"	INS37717	49-TX-15
T20	1-15/16"	INS37719	49-TX-20
T25	1-15/16"	INS37721	49-TX-25
T27	1-15/16"	INS37723	49-TX-27
T30	1-15/16"	INS37725	49-TX-30

#### TAMPER RESISTANT TORX INSERT BITS

T-10	1"	INS05-TT10	440-TX-10-H
T-15	1"	INS05-TT15	440-TX-15-H
T-20	1"	INS05-TT20	440-TX-20-H
T-25	1"	INS05-TT25	440-TX-25-H
T-27	1"	INS05-TT27	440-TX-27-H
T-30	1"	INS05-TT30	440-TX-30-H

\* APEX brand also available \*



**INS Series**

Size	O.A.L.	Shank	Part Number	Ref#
<b>TORQ-SET INSERT BITS</b>				
#0	1"	1/4"	INS212-0	212-0
#1	1"	1/4"	INS212-1	212-1
#2	1"	1/4"	INS212-2	212-2
#3	1"	1/4"	INS212-3	212-3
#4	1"	1/4"	INS212-4	212-4
#5	1"	1/4"	INS212-5	212-5
#6	1"	1/4"	INS212-6	212-6
#8	1"	1/4"	INS212-8	212-8
#8	1-1/4"	5/16"	INS212-8A	212-8A
#10	1"	1/4"	INS212-10	212-10
#10	1-1/4"	5/16"	INS212-10A	212-10A
1/4"	1"	1/4"	INS212-1/4	212-1/4



**T R I W I N G**

**INS Series**

Size	O.A.L.	Part Number	Ref#
<b>INSERT BIT W/ 1/4" HEX SHANK</b>			
#0	1"	INSTWD-0	TWD-0
#1	1"	INSTWD-1	TWD-1
#2	1"	INSTWD-2	TWD-2
#3	1"	INSTWD-3	TWD-3
#4	1"	INSTWD-4	TWD-4
#5	1"	INSTWD-5	TWD-5
#6	1"	INSTWD-6	TWD-6
#7	1"	INSTWD-7	TWD-7
#8	1"	INSTWD-8	TWD-8



Size	O.A.L.	Part Number	Ref#
<b>POWER BIT W/ 1/4" HEX SHANK</b>			
#2	1-1/4"	INSTW-2	TW-2
#3	1-1/4"	INSTW-3	TW-3
#4	1-1/4"	INSTW-4	TW-4
#5	1-1/4"	INSTW-5	TW-5
#6	1-1/4"	INSTW-6	TW-6



**M A G N E T I C  
N U T S E T T E R S**

**INS Series**

Size	O.A.L.	Part Number	Ref#
1/4"	1-3/4"	INSNS14-134	MDA-08
1/4"	2-9/16"	INSNS14-2916	MDB-08
1/4"	6"	INSNS14-6	--
5/16"	1-3/4"	INSNS56-134	MDA-10
5/16"	2-9/16"	INSNS56-2916	MDB-10
5/16"	6"	INSNS56-6	--
3/8"	1-3/4"	INSNS38-134	MDA-12
3/8"	2-9/16"	INSNS38-2916	MDB-12
3/8"	6"	INSNS38-6	--
7/16"	1-3/4"	INSNS76-134	MDA-14
7/16"	2-9/16"	INSNS76-2916	MDB-14



**MAGNETIC BIT HOLDERS**

Description	O.A.L.	Part Number
STAINLESS STEEL	2-3/8"	INSBH-238
STAINLESS STEEL W/ CAP	3"	INSBH-300C
STAINLESS STEEL W/ RING	3"	INSBH-300S
STAINLESS QUICK CHANGE BIT HOLDER-PUSH TYPE	3"	INSBH-300QC
STAINLESS STEEL W/ RING	6"	INSBH-600S



**INS Series**

Size	O.A.L.	Shank	Part Number	Ref#
<b>POWER TORQ-SET BITS</b>				
#0	1-1/4"	1/4"	INS170-0	--
#1	1-1/4"	1/4"	INS170-1	170-1
#2	1-1/4"	1/4"	INS170-2	170-2
#3	1-1/4"	1/4"	INS170-3	170-3
#4	1-1/4"	1/4"	INS170-4	170-4
#5	1-1/4"	1/4"	INS170-5	170-5
#6	1-1/4"	1/4"	INS170-6	170-6
#8	1-1/4"	1/4"	INS170-8	170-8
#10	1-1/4"	1/4"	INS170-10	170-10
1/4"	1-1/4"	1/4"	INS170-1/4B	170-1/4B
5/16"	1-1/4"	5/16"	INS170-5/16A	170-5/16A
5/16"	1-1/4"	1/4"	INS170-5/16B	170-5/16B
3/8"	1-1/4"	1/4"	INS170-3/8B	170-3/8B



**M I S C E L L A N E O U S**

**INS Series**

Size	O.A.L.	Part Number	Ref#
<b>HI TORQUE BITS</b>			
#1	1"	INSHTS-1	HTS-1
#2	1"	INSHTS-2	HTS-2
#3	1"	INSHTS-3	HTS-3
#4	1"	INSHTS-4	HTS-4
#5	1"	INSHTS-5	--
#6	1"	INSHTS-6	--



**SPANNER INSERT BITS  
W/ 1/4" HEX SHANK**

#6	1"	INS05-SP6	--
#8	1"	INS05-SP8	--
#10	1"	INS05-SP10	--



**BNAE INSERT BITS  
W/ 1/4" HEX SHANK**

4MM	1-1/8"	INSBNAE-4	BNAE-4MM
5MM	1-1/8"	INSBNAE-5	BNAE-5MM
6MM	1-1/8"	INSBNAE-6	BNAE-6MM
8MM	1-1/8"	INSBNAE-8	BNAE-8MM



**SOCKET ADAPTER  
1/4" HEX SHANK**

3/8"	3"	INS38SA-3	--
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**INS Series**

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