

FRACTIONAL HSS DRILLS

Fractional Size	Decimal Equivalent	General Purpose 118° Point	Heavy Duty 135° Split Point	Cobalt 135° Split Point	Fast Spiral 118° Point	Slow Spiral 118° Point	Half Round 118° Point
1/64	.015625	2.16	□	*3.77	2.17	3.26	7.35
1/32	.03125	1.32	□	*3.09	2.39	2.72	5.57
3/64	.046875	1.32	□	*2.22	1.87	2.58	8.42
1/16	.0625	1.29	1.38	2.03	1.85	2.46	8.68
5/64	.078125	1.29	1.38	2.03	1.87	2.46	8.68
3/32	.09375	1.18	1.38	2.03	1.87	2.46	8.68
7/64	.109375	1.24	1.46	2.14	1.88	2.46	9.06
1/8	.1250	1.21	1.46	2.59	1.81	2.38	9.18
9/64	.140625	1.33	1.60	2.62	1.88	2.38	9.91
5/32	.15625	1.36	1.62	2.93	1.96	2.85	10.08
11/64	.171875	1.48	1.75	3.09	2.36	3.20	10.56
3/16	.1875	1.65	1.97	3.44	2.63	3.35	11.43
13/64	.203125	1.82	2.15	4.15	3.01	3.78	12.64
7/32	.21875	2.01	2.39	4.55	3.29	4.43	13.56
15/64	.234375	2.18	2.62	4.84	3.72	4.85	14.53
1/4	.2500	2.30	2.75	5.11	3.54	4.85	19.92
17/64	.265625	2.79	3.31	5.84	4.79	5.84	22.47
9/32	.28125	2.88	3.40	6.13	4.78	6.46	25.07
19/64	.296875	3.34	3.95	7.49	5.54	7.17	27.63
5/16	.3125	3.69	4.35	7.98	5.67	7.90	30.28
21/64	.328125	4.11	4.86	8.79	6.60	8.34	33.17
11/32	.34375	4.55	5.39	9.64	7.00	9.36	36.15
23/64	.359375	5.14	6.11	11.16	8.74	11.17	39.16
3/8	.3750	5.23	6.22	10.99	8.44	11.17	42.13
25/64	.390625	6.01	7.14	12.62	10.15	12.33	45.58
13/32	.40625	6.15	7.33	13.14	9.85	12.83	49.02
27/64	.421875	6.84	8.14	14.55	11.78	14.48	52.46
7/16	.4375	7.14	8.47	14.85	11.56	14.88	55.89
29/64	.453125	8.01	9.47	17.91	12.68	16.91	59.61
15/32	.46875	8.46	10.04	18.24	13.06	18.25	63.33
31/64	.484375	8.93	10.53	18.81	14.28	19.06	67.05
1/2	.5000	8.86	10.56	18.51	13.79	19.06	70.75

* NOT SPLIT POINT

- ALSO AVAILABLE :**
- LETTER SIZES
 - PARABOLIC FLUTE
 - STRAIGHT FLUTE
 - CARBIDE TIPPED
 - TAPER SHANKS
 - SUPERFLUTE
 - TYPE A
 - TYPE C
 - DECIMAL SIZES
 - METRIC SIZES
 - TAPER LENGTHS
 - TYPE M
 - AUTOMOTIVE
 - BRITE OR BLACK FINISH
 - TYPE B

CALL FOR PRICING AND DELIVERY

NO MINIMUM ORDER

NO PACKAGE QUANTITY

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

www.hssblanks.com

WIRE SIZE HSS DRILLS



General Purpose



Slow Spiral



Fast Spiral



Half Round

Wire Size	Decimal Equivalent	General Purpose 118° Point	Heavy Duty 135° Split Point	Cobalt 135° Split Point	Fast Spiral 118° Point	Slow Spiral 118° Point	Half Round 118° Point
1	.2280	2.45	3.14	5.54	3.68	4.99	13.56
2	.2210	2.47	3.19	5.54	3.77	4.99	13.56
3	.2130	2.23	2.86	5.17	3.54	4.80	12.64
4	.2090	2.24	2.89	5.20	3.54	4.80	12.64
5	.2055	2.24	2.89	5.20	3.54	4.80	12.64
6	.2040	2.24	2.89	5.20	3.54	4.80	12.64
7	.2010	1.94	2.53	4.03	2.90	4.14	11.43
8	.1990	1.99	2.55	4.03	2.98	4.14	11.43
9	.1960	1.98	2.55	4.03	2.90	4.14	11.43
10	.1935	1.95	2.53	4.03	2.90	4.14	11.43
11	.1910	1.82	2.35	4.03	2.75	3.87	11.43
12	.1890	1.84	2.37	4.03	2.91	3.87	11.43
13	.1850	1.80	2.30	3.87	2.74	3.63	10.56
14	.1820	1.80	2.30	3.88	2.74	3.63	10.56
15	.1800	1.80	2.30	3.88	2.65	3.63	10.56
16	.1770	1.80	2.30	3.60	2.65	3.63	10.56
17	.1730	1.80	2.30	3.54	2.74	3.63	10.56
18	.1695	1.49	1.91	3.22	2.36	3.20	10.08
19	.1660	1.48	1.89	3.13	2.30	3.20	10.08
20	.1610	1.47	1.89	3.13	2.30	3.20	10.08
21	.1590	1.36	1.74	3.11	2.10	3.09	10.08
22	.1570	1.38	1.75	3.13	2.18	3.09	10.08
23	.1540	1.38	1.73	3.13	2.03	3.09	9.91
24	.1520	1.38	1.73	3.11	1.92	3.09	9.91
25	.1495	1.30	1.67	2.83	1.92	2.98	9.91
26	.1470	1.32	1.69	2.82	1.92	2.98	9.91
27	.1440	1.31	1.67	2.81	1.92	2.98	9.91
28	.1405	1.24	1.54	2.63	1.88	2.98	9.18
29	.1360	1.24	1.53	2.56	1.78	2.46	9.18
30	.1285	1.24	1.53	2.38	1.79	2.46	9.18
31	.1200	1.24	1.51	2.37	1.83	2.46	9.06
32	.1160	1.24	1.51	2.32	1.83	2.46	9.06
33	.1130	1.24	1.51	2.23	1.88	2.46	9.06
34	.1110	1.24	1.51	2.24	1.88	2.46	9.06
35	.1100	1.36	1.51	2.23	1.83	2.46	9.06
36	.1065	1.36	1.50	2.20	1.88	2.46	8.68
37	.1040	1.36	1.51	2.20	1.83	2.46	8.68
38	.1015	1.36	1.51	2.06	1.83	2.46	8.68
39	.0995	1.36	1.51	2.06	1.83	2.46	8.68
40	.0980	1.36	1.51	2.06	1.79	2.46	8.68

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

www.hssblanks.com

WIRE SIZE HSS DRILLS

Typical Uses:

General Purpose:	Cast Iron, Steel, Steel Forgings, Short Runs
Heavy Duty:	Stainless Steel, Tough Alloy Steel
Cobalt:	Titanium, Asbestos, Graphite, High Temperature Alloys, Glass Filled Epoxies, Clay
Fast Spiral:	Aluminum, Magnesium, Copper, Bronze, Soft Steel, Slate, Wood, Die Casting
Slow Spiral:	Brass, Soft Materials
Half Round:	Brass, Copper, Hard Rubber, Soft Woods, Molded Plastics

Wire Size	Decimal Equivalent	General Purpose 118° Point	Heavy Duty 135° Split Point	Cobalt 135° Split Point *	Fast Spiral 118° Point	Slow Spiral 118° Point	Half Round 118° Point
41	.0960	1.36	1.50	2.03	1.91	2.46	8.68
42	.0935	1.36	1.51	2.00	1.91	2.46	8.68
43	.0890	1.36	1.50	2.00	1.81	2.46	8.68
44	.0860	1.36	1.50	2.00	1.87	2.46	8.68
45	.0820	1.36	1.51	2.00	1.87	2.46	8.68
46	.0810	1.36	1.51	2.00	1.87	2.47	8.68
47	.0785	1.36	1.51	2.00	1.91	2.47	8.68
48	.0760	1.36	1.51	2.00	1.87	2.47	8.68
49	.0730	1.36	1.51	2.00	1.91	2.47	8.68
50	.0700	1.36	1.51	2.00	1.87	2.47	8.68
51	.0670	1.36	1.51	2.00	1.87	2.47	8.68
52	.0635	1.36	1.51	2.00	1.87	2.71	8.68
53	.0595	1.36		2.23	1.87	2.74	8.42
54	.0550	1.36		2.23	1.87	3.57	8.42
55	.0520	1.36		2.23	1.81	3.57	8.42
56	.0465	1.36		2.54	1.87	3.57	8.42
57	.0430	1.36		2.54	1.91	3.57	8.42
58	.0420	1.36		2.55	1.91	3.57	5.45
59	.0410	1.36		2.54	1.91	3.57	5.45
60	.0400	1.36		2.54	1.91	3.57	5.45
61	.0390	1.36		2.93	2.20	3.57	5.57
62	.0380	1.36		2.93	2.20	4.26	5.57
63	.0370	1.36		2.92	2.20	4.26	5.57
64	.0360	1.36		2.93	2.20	2.46	5.57
65	.0350	1.36		2.92	2.08	2.46	5.57
66	.0330	1.36		3.11	2.20	2.46	5.57
67	.0320	1.36		3.09	2.08	2.46	5.57
68	.0310	1.36		3.09	2.08	2.46	5.57
69	.0292	1.53		3.50	2.33	2.51	7.35
70	.0280	1.53		3.50	2.33	2.53	7.35
71	.0260	1.86		3.51	3.05	3.31	7.35
72	.0250	1.86		3.51	2.87	3.31	7.35
73	.0240	1.86		3.51	2.86	3.31	7.35
74	.0225	1.86		3.51	2.87	3.31	7.35
75	.0210	1.86		3.88	2.87	3.31	7.35
76	.0200	1.86		3.86	2.86	3.31	7.35
77	.0180	1.86		3.88	2.87	3.31	7.35
78	.0160	1.86		3.86	2.87	3.31	7.35
79	.0145	2.26		3.88	3.37	3.94	7.35
80	.0135	2.26		3.90	3.37	3.94	7.35

* #53 - #80 NOT SPLIT POINT

- Also available:**
- Extension Drills - Page 22
 - Combination Drill & Countersinks - Page 24

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

www.hssblanks.com

EXTENSION DRILLS & LONGBOYS



Size	Decimal Equivalent	6□ Aircraft Extension 135° Split Point	12□ Aircraft Extension 135° Split Point	12□ Extended 135° Split Point	8□ Longboy 118° Point	12□ Longboy 118° Point	18□ Longboy 118° Point
1/16	.0625	4.08	12.79	2.72	□	20.47	□
5/64	.078125	□4.08	12.79	2.72	□	17.86	□
3/32	.09375	□3.66	12.79	2.34	12.88	23.89	□
7/64	.109375	□3.66	10.05	2.53	10.87	15.61	□
1/8	.1250	□3.66	10.05	2.35	10.13	18.25	40.41
9/64	.140625	□3.66	10.05	2.45	9.91	19.82	25.92
5/32	.15625	□3.66	10.05	2.63	11.16	19.82	40.41
11/64	.171875	□4.02	11.13	2.72	11.40	20.65	25.92
3/16	.1875	□4.02	11.13	2.92	11.47	20.65	41.99
13/64	.203125	□4.88	12.79	3.10	12.46	24.14	31.74
7/32	.21875	□4.88	12.79	3.29	12.48	24.14	31.74
15/64	.234375	□5.31	13.75	3.48	12.38	24.14	31.74
1/4	.2500	□5.31	13.75	3.78	12.80	24.14	42.06
17/64	.265625	□11.84	16.35	4.23	11.87	24.14	35.15
9/32	.28125	□12.29	17.28	4.42	13.44	24.14	35.15
19/64	.296875	14.44	19.59	4.80	13.54	24.85	35.15
5/16	.3125	15.67	22.02	5.36	13.78	24.85	44.39
21/64	.328125	17.01	23.05	5.55	17.79	25.90	37.25
11/32	.34375	16.83	23.75	6.03	14.55	25.90	37.25
23/64	.359375	18.90	25.58	6.12	16.43	26.57	37.25
3/8	.3750	19.25	27.05	6.40	14.80	26.57	47.60
25/64	.390625	21.48	28.53	6.79	18.67	29.85	40.53
13/32	.40625	20.72	28.53	7.16	16.79	29.85	40.53
27/64	.421875	23.05	30.65	7.55	23.58	31.60	43.74
7/16	.4375	23.32	32.08	8.10	17.76	31.60	55.60
29/64	.453125	25.56	33.98	8.49	20.33	34.74	49.97
15/32	.46875	26.51	36.49	8.95	19.87	34.74	49.97
31/64	.484375	27.49	36.49	9.32	27.25	35.43	52.07
1/2	.5000	27.97	38.53	9.62	19.94	35.43	66.29

- Aircraft extension drills are one-piece extra-long shafts with the same flute length as jobber length drills.
- 12□ extended drills are an economical alternative to aircraft extensions with HSS shafts welded to jobber length drills.
- Longboy drills are fluted over a much longer length for certain deep hole drilling applications.
- Additional lengths up to 24□ available - Call for price and delivery

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

www.hssblanks.com

DOUBLE END END MILLS



3/16 Shank, Double End Cobalt

Diameter of Cutter	Length of Cut	Stub (2□Long)			Length of Cut	Standard (2-1/2□Long)		
		2 Flute	2 Flute Ball	4 Flute		2 Flute	2 Flute Ball	4 Flute
1/32	3/64	20.61	30.41	23.21	3/32	23.21	31.77	23.07
3/64	1/16	20.61	30.41	23.21	9/64	23.21	31.77	23.07
1/16	3/32	19.35	27.44	20.48	3/16	20.48	29.03	20.97
5/64	1/8	19.35	27.44	20.48	15/64	20.48	29.03	21.30
3/32	9/64	19.35	27.44	20.48	9/32	20.48	29.03	20.97
7/64	5/32	19.35	27.44	20.48	21/64	20.48	29.03	21.30
1/8	3/16	19.35	27.44	20.48	3/8	20.48	29.03	20.97
9/64	7/32	21.71	30.78	21.85	13/32	21.85	30.41	22.21
5/32	15/64	21.71	30.78	21.85	7/16	21.85	30.41	22.21
11/64	1/4	21.71	30.78	21.85	1/2	21.85	30.41	22.75
3/16	9/32	21.71	30.78	21.85	1/2	21.85	30.41	22.21

Double End Carbide End Mills, Stub Length

Diameter of Cut	Shank Diameter	Length of Cut	Length Overall	2-FLUTE	4-FLUTE
1/32	1/8	1/16	1-1/2	21.30	22.40
3/64	1/8	1/16	1-1/2	21.30	22.40
1/16	1/8	1/8	1-1/2	20.30	21.31
5/64	1/8	1/8	1-1/2	20.30	21.31
3/32	1/8	3/16	1-1/2	20.30	21.31
7/64	1/8	1/4	1-1/2	20.30	21.31
1/8	1/8	1/4	1-1/2	20.30	21.31
9/64	3/16	5/16	2	27.53	28.88
5/32	3/16	5/16	2	27.53	28.88
11/64	3/16	3/8	2	27.53	28.88
3/16	3/16	3/8	2	27.53	28.88
7/32	1/4	1/2	2-1/2	34.15	35.81
1/4	1/4	1/2	2-1/2	34.15	35.81
5/16	5/16	1/2	2-1/2	47.18	49.57
3/8	5/16	1/2	2-1/2	50.43	52.94

ALSO AVAILABLE:

□ 4 Flute Ball
□ 3 Flute

□ 2 Flute Single End
□ 4 Flute Single End

□ Decimal Sizes .006 - .187
□ Metric Sizes

□ Single End Carbide
□ Ball End Carbide

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

www.hssblanks.com

COMBINATION DRILL & COUNTERSINKS



PLAIN TYPE COUNTERSINKS

Countersink Size Number	Diameter of Body	Diameter of Drill	Length of Drill	Length Overall Inches	60° R.H. Price Each	82° Angle R.H. Price Each	90° Angle R.H. Price Each
00000	1/8	.010	.010	1 1/4	8.80	□	33.98
0000	1/8	.015	.015	1 1/4	8.08	□	33.98
000	1/8	.020	.020	1 1/4	7.66	□	21.70
00	1/8	.025	.025	1 1/4	7.66	21.70	21.70
0	1/8	1/32	1/32	1 1/4	7.66	21.70	21.70
1	1/8	3/64	3/64	1 1/4	5.18	9.73	9.73
2	3/16	5/64	5/64	1 1/4	5.42	9.96	9.96
3	1/4	7/64	7/64	2	5.64	10.31	10.31
4	5/16	1/8	1/8	2 1/4	5.83	10.70	10.70
4 1/4	3/8	9/64	9/64	2 1/4	8.97	14.67	14.67
5	7/16	3/16	3/16	2 3/4	9.19	16.32	16.32
6	1/2	7/32	7/32	3	13.87	24.72	24.72
7	5/8	1/4	1/4	3 1/4	20.02	34.96	34.96
8	3/4	5/16	5/16	3 1/2	27.85	49.04	49.04
9	7/8	11/32	11/32	3 3/4	52.30	□	□
10	1	3/8	3/8	3 3/4	68.66	□	□

BELL TYPE COUNTERSINKS



Countersink Size Number	Diameter of Body	Diameter of Drill	Length of Drill	Diameter of Bell Inches	Length Overall Inches	HSS RH Price Each	M42 RH Price Each	T15 RH Price Each
11	1/8	3/64	3/64	.100	1 1/4	6.16	16.06	21.52
12	3/16	1/16	1/16	.150	1 1/4	6.45	16.47	22.03
13	1/4	3/32	3/32	.200	2	6.54	16.92	22.63
14	5/16	7/64	7/64	.250	2 1/4	6.75	17.48	23.11
15	7/16	5/32	5/32	.350	2 3/4	10.28	27.88	36.53
16	1/2	3/16	3/16	.400	3	15.81	43.10	55.63
17	5/8	7/32	7/32	.500	3 1/4	23.49	64.14	83.51
18	3/4	1/4	1/4	.600	3 1/2	31.47	89.50	119.00

LONGBOY COUNTERSINKS (HSS 60° Angle) FOR LONG REACH APPLICATIONS - 3, 4, 5 & 6" OVERALL

Countersink Size Number	Diameter of Body	Diameter of Drill	Length of Drill	3" Price Each	4" Price Each	5" Price Each	6" Price Each
1	1/8	3/64	3/64	13.59	14.18	19.72	25.79
2	3/16	5/64	5/64	□	15.54	19.89	25.90
3	1/4	7/64	7/64	□	16.35	21.54	26.14
4	5/16	1/8	1/8	□	18.14	23.16	26.77
4 1/2	3/8	9/64	9/64	□	20.39	24.10	29.04
5	7/16	3/16	3/16	□	23.82	27.59	30.98
6	1/2	7/32	7/32	□	□	29.64	35.82
7	5/8	1/4	1/4	□	□	□	66.06
8	3/4	5/16	5/16	□	□	□	71.42

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

www.hssblanks.com

SINGLE & SIX FLUTE COUNTERSINKS

SINGLE FLUTE COUNTERSINKS



Tool No.	C/L Angles Available	Body Dia.	Shank Dia.	Shank Length	O/A Length	HSS Price
1/8-SF	$\left(\begin{array}{c} 30^\circ \\ 41^\circ \\ 45^\circ \\ 50^\circ \\ \text{AND} \\ 60^\circ \end{array} \right)$	1/8	1/8	-	1 $\frac{1}{4}$	6.86
3/16-SF		3/16	3/16	-	1 $\frac{1}{4}$	7.33
1/4-SF		1/4	1/4	-	2	7.63
5/16-SF		5/16	1/4	7/8	1 $\frac{1}{4}$	8.96
3/8-SF		3/8	1/4	7/8	1 $\frac{1}{4}$	10.37
1/2-SF		1/2	1/4	1 $\frac{1}{4}$	2 $\frac{1}{4}$	13.33
5/8-SF		5/8	3/8	1 $\frac{1}{4}$	2 $\frac{1}{4}$	18.94
3/4-SF		3/4	1/2	1 $\frac{5}{8}$	2 $\frac{1}{4}$	25.37
1-SF		1	1/2	1 $\frac{5}{8}$	2 $\frac{3}{4}$	38.91
1 $\frac{1}{4}$ -SF		1 $\frac{1}{4}$	3/4	1 $\frac{5}{8}$	3 $\frac{1}{4}$	62.44
1 $\frac{1}{2}$ -SF	1 $\frac{1}{2}$	3/4	1 $\frac{5}{8}$	3 $\frac{1}{4}$	85.76	
1 $\frac{3}{4}$ -SF	1 $\frac{3}{4}$	1	2 $\frac{1}{4}$	4 $\frac{1}{4}$	116.10	
2-SF		2	1	2 $\frac{1}{4}$	4 $\frac{1}{4}$	147.00
2 $\frac{1}{4}$ -SF		2 $\frac{1}{4}$	1	2 $\frac{1}{4}$	4 $\frac{1}{4}$	248.87
3-SF		3	1	2 $\frac{1}{4}$	5	373.92

SIX FLUTE COUNTERSINKS

DESIGN - Hutchinson Countersinks are designed to take heavy cuts and produce exceptionally smooth seats.

SHEAR-CUT TEETH - Cutting teeth are arranged to give a shearing cut, eliminating chatter possibility.

TRUNCATED END-DIMENSIONS- Diameter at small end of 30° countersinks is approximately one third of the body diameter; of 41° and 45° countersinks it is about one-fifth, and of 60° countersinks it is about one-sixth.

HIGH SPEED STEEL

Tool No.	C/L Angles Available	Body Dia.	Shank Dia.	Shank Length	O/A Length	Price Each
CK-1/8	$\left(\begin{array}{c} 30^\circ \\ 41^\circ \\ 45^\circ \\ 50^\circ \\ \text{AND} \\ 60^\circ \end{array} \right)$	1/8	1/8	-	1 $\frac{1}{4}$	7.54
CK-3/16		3/16	3/16	-	1 $\frac{1}{4}$	8.10
CK-1/4		1/4	3/16	3/4	1 $\frac{1}{4}$	8.14
CK-5/16		5/16	1/4	7/8	1 $\frac{1}{4}$	9.99
CK-3/8		3/8	1/4	7/8	1 $\frac{1}{4}$	11.14
CK-1/2		1/2	3/8	1 $\frac{1}{4}$	2 $\frac{1}{4}$	14.10
CK-5/8		5/8	3/8	1 $\frac{1}{4}$	2 $\frac{1}{4}$	20.19
CK-3/4		3/4	1/2	1 $\frac{1}{4}$	2 $\frac{1}{4}$	26.96
CK-7/8		7/8	1/2	1 $\frac{1}{4}$	2 $\frac{3}{4}$	35.36
CK-1		1	1/2	1 $\frac{1}{4}$	2 $\frac{3}{4}$	41.49



CARBIDE

Tool No.	C/L Angles Available	Body Dia.	Shank Dia.	Shank Length	O/A Length	Price Each
CK-1/8-W	$\left(\begin{array}{c} 30^\circ \\ 41^\circ \\ 45^\circ \\ 50^\circ \\ \text{AND} \\ 60^\circ \end{array} \right)$	1/8	1/8	-	1 $\frac{1}{4}$	9.81
CK-3/16-W		3/16	3/16	-	2	12.34
CK-1/4-W		1/4	1/4	-	2	15.77
CK-5/16-W		5/16	1/4	2	2 $\frac{1}{4}$	23.61
CK-3/8-W		3/8	1/4	2	2 $\frac{1}{4}$	30.51
CK-1/2-W		1/2	3/8	2	2 $\frac{1}{4}$	42.47
CK-5/8-W		5/8	3/8	2	2 $\frac{1}{4}$	58.37
CK-3/4-W		3/4	1/2	2	2 $\frac{1}{4}$	71.44
CK-7/8-W		7/8	1/2	2	2 $\frac{1}{4}$	105.00
CK-1-W		1	1/2	2	3	120.99

DOUBLE END Six Flute Countersinks



HIGH SPEED STEEL

Tool No.	C/L Angles Available	Diameter	O/A Length	Price Each
CK-1/8-DE	$\left(\begin{array}{c} 30^\circ \\ 41^\circ \\ 45^\circ \\ 50^\circ \\ 60^\circ \end{array} \right)$	1/8	1 $\frac{1}{4}$	12.86
CK-3/16-DE		3/16	2	14.01
CK-1/4-DE		1/4	2	14.36
CK-3/8-DE		3/8	2 $\frac{1}{4}$	24.26
CK-1/2-DE		1/2	3	35.19
CK-5/8-DE		5/8	3 $\frac{1}{4}$	52.76

CARBIDE

Tool No.	C/L Angles Available	Diameter	O/A Length	Price Each
CK-1/8-W-DE	$\left(\begin{array}{c} 30^\circ \\ 41^\circ \\ 45^\circ \\ 50^\circ \\ 60^\circ \end{array} \right)$	1/8	1 $\frac{1}{4}$	17.61
CK-3/16-W-DE		3/16	2	25.37
CK-1/4-W-DE		1/4	2	34.59
CK-3/8-W-DE		3/8	2 $\frac{1}{4}$	55.97
CK-1/2-W-DE		1/2	3	77.53
CK-5/8-W-DE		5/8	3 $\frac{1}{4}$	107.44

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

ROTARY FILE SETS – COUNTERSINK SETS



SET #16E 199.24
1/2" Carbide Head
1/4" Shank



SET #14E 196.97
3/8" Carbide 6 flutes
1/2" Carbide 8 flutes



SET #8E 100.50
1/4" Solid Carbide
1/4" Shank

All rotary file sets furnished in convenient cases.
Individual rotary files also available.

SIX FLUTE CHATTERLESS COUNTERSINK SETS

Set #27 - Chatterless Countersink Set containing 1/4, 3/8, 1/2 and 3/4 inch diameter cutters. Specify Center Line Angle desired.

High Speed Steel \$60.34

Set #27W - Chatterless Countersink Set containing a 1/4, 3/8, 1/2, and 3/4 inch Carbide Countersink. Specify Center Line Angle desired.

Carbide \$160.20

Set #29 - Chatterless Countersink Set containing 1/4, 3/8, 1/2, 5/8, 3/4 and 1 inch diameter cutters. Specify Center Line Angle desired.

High Speed Steel \$122.01



C/L ANGLES AVAILABLE:
30°, 41°, 45°, 50° and 60°



SINGLE FLUTE COUNTERSINK SETS

Set #35 - Contains a 1/4, 1/2, 3/4, 1 and 1 1/4 inch diameter HSS Single Flute Countersink. Specify Center Line Angle desired.

High Speed Steel \$158.06

Set #36W - Contains a 1/4, 3/8, 1/2, 5/8 and 3/4 inch diameter Carbide Single Flute Countersink. Specify Center Line Angle desired.

Carbide \$373.93

Set #37 - Contains a 1/4, 3/8, 1/2, 5/8, 3/4, 1, 1 1/4, 1 1/2, 1 3/4 and 2 inch HSS Single Flute Countersink. Specify Center Line Angle desired

High Speed Steel \$525.86

FOR INDIVIDUAL COUNTERSINKS, SEE PAGE 25

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

HSS CHUCKING REAMERS

SERIES 700 - Straight Flute
SERIES 700C - Straight Flute Cobalt



SERIES 740 - Right Hand Spiral Flute



High Speed Steel - Straight Shank - Right Hand Cut
Fractional - Wire Gage - Letter - Over & Under - Dowel Pin - Metric

Size	Decimal	Price		
		700	740	700C
1/32	.0312	15.27	14.63	15.96
67	.0320	15.59	—	23.49
66	.0330	15.59	—	23.49
65	.0350	15.59	—	23.49
64	.0360	15.59	—	23.49
63	.0370	15.59	—	23.49
62	.0380	15.59	—	23.49
61	.0390	15.59	—	23.49
1mm	.0394	15.59	18.56	□
60	.0400	15.59	18.56	21.45
59	.0410	15.59	18.56	21.45
58	.0420	15.59	18.56	21.45
57	.0430	15.59	18.56	21.45
56	.0465	15.59	16.71	21.45
3/64	.0469	15.59	18.56	15.71
55	.0520	15.59	18.56	21.45
54	.0550	15.59	18.56	21.45
1.5mm	.0591	15.59	18.56	□
53	.0595	15.59	16.71	21.45
1/16	.0625	14.10	18.56	15.71
52	.0635	14.10	18.56	21.45
51	.0670	13.49	13.49	17.36
50	.0700	14.99	14.99	17.36
49	.0730	13.49	13.49	17.36
48	.0760	14.99	14.99	17.36
5/64	.0781	12.52	14.99	17.36
47	.0785	14.99	14.99	17.36
2mm	.0787	12.52	14.99	□
46	.0810	14.99	14.99	17.36
45	.0820	14.99	14.99	17.36
44	.0860	14.99	14.99	17.36
43	.0890	14.99	14.99	17.36
42	.0935	14.99	14.99	17.36
3/32	.0937	11.21	14.84	17.36
41	.0960	15.08	15.08	17.36
40	.0980	15.08	15.08	17.36
2.5mm	.0984	12.82	15.08	□

Size	Decimal	Price		
		700	740	700C
39	.0995	12.82	13.57	17.36
38	.1015	12.82	15.08	17.36
37	.1040	12.82	15.08	17.36
36	.1065	12.82	15.08	17.36
7/64	.1094	13.19	15.51	18.39
35	.1100	13.19	13.96	18.39
34	.1110	13.19	15.51	18.39
33	.1130	13.19	15.51	18.39
32	.1160	13.19	15.51	18.39
3mm	.1181	13.19	15.51	□
31	.1200	13.19	15.51	18.39
.1240	.1240	15.51	15.51	18.39
1/8	.1250	14.43	14.01	15.84
.1260	.1260	15.51	15.51	18.39
30	.1285	13.19	15.51	18.39
29	.1360	15.59	16.23	21.45
3.5mm	.1378	15.59	18.56	□
28	.1405	15.59	16.71	21.45
9/64	.1406	15.59	18.56	21.45
27	.1440	15.59	18.56	21.45
26	.1470	15.59	18.56	21.45
25	.1495	15.59	18.56	21.45
24	.1520	15.59	18.56	21.45
23	.1540	15.59	18.56	21.45
5/32	.1562	15.59	18.56	21.45
22	.1570	15.59	18.56	21.45
4mm	.1575	15.59	18.56	□
21	.1590	16.64	19.81	22.47
20	.1610	16.64	19.81	22.47
19	.1660	16.64	19.81	22.47
18	.1695	16.64	19.81	22.47
11/64	.1719	16.64	19.81	22.47
17	.1730	16.64	19.81	22.47
16	.1770	16.64	17.32	22.47
4.5mm	.1772	16.64	19.81	—
15	.1800	16.64	19.81	22.47
14	.1820	16.64	19.81	22.47

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

HSS CHUCKING REAMERS

SERIES 700 - Straight Flute
SERIES 700C - Straight Flute Cobalt



SERIES 740 - Right Hand Spiral Flute



High Speed Steel - Straight Shank - Right Hand Cut
Fractional - Wire Gage - Letter - Over & Under - Dowel Pin - Metric

Size	Decimal	Price			Size	Decimal	Price		
		700	740	700C			700	740	700C
13	.1850	16.64	19.81	22.47	K	.2810	22.42	25.68	34.73
.1865	.1865	16.64	19.81	22.47	9/32	.2812	22.50	25.26	34.73
3/16	.1875	16.64	18.83	22.47	L	.2900	22.68	25.68	34.73
.1885	.1885	16.64	19.81	22.47	M	.2950	22.68	25.68	34.73
12	.1890	16.64	22.83	22.47	7.5mm	.2953	22.68	25.68	—
11	.1910	18.79	25.56	26.06	19/64	.2969	22.68	25.68	34.73
10	.1935	19.71	22.23	26.06	N	.3020	22.68	25.68	34.73
9	.1960	18.79	22.23	26.06	.3115	.3115	21.45	24.36	34.73
5mm	.1968	18.79	22.23	—	5/16	.3125	20.34	23.09	34.73
8	.1990	18.79	22.23	26.06	.3135	.3135	21.45	24.36	34.73
7	.2010	18.79	22.23	26.06	8mm	.3150	22.68	25.68	□
13/64	.2031	18.79	22.23	26.06	O	.3160	22.68	25.68	34.73
6	.2040	18.79	22.23	26.06	P	.3230	24.26	27.46	37.79
5	.2055	18.79	22.23	26.06	21/64	.3281	24.26	27.45	37.79
4	.2090	18.79	22.23	26.06	Q	.3320	25.00	27.45	37.79
3	.2130	18.79	22.23	26.06	8.5mm	.3346	24.26	27.45	□
5.5mm	.2165	18.79	22.23	□	R	.3390	24.26	27.45	37.79
7/32	.2187	18.79	22.23	26.06	11/32	.3437	24.26	24.71	37.79
2	.2210	19.31	22.84	26.56	S	.3480	24.26	27.71	37.79
1	.2280	19.31	20.55	26.56	9mm	.3543	24.26	27.71	□
A	.2340	19.31	22.84	26.56	T	.3580	24.26	27.71	37.79
15/64	.2344	19.31	22.84	26.56	23/64	.3594	24.26	27.71	37.79
6mm	.2362	20.22	23.00	—	U	.3680	24.26	27.71	37.79
B	.2380	20.22	23.00	26.56	.3740	.3740	23.18	26.29	38.81
C	.2420	20.22	23.00	26.56	9.5mm	.3740	23.18	26.29	□
D	.2460	20.22	23.00	26.56	3/8	.3750	23.86	24.93	34.73
.2490	.2490	18.07	24.56	26.56	.3760	.3760	23.18	26.29	38.81
1/4	.2500	16.61	19.57	22.99	V	.3770	26.46	30.14	49.03
.2510	.2510	18.07	24.56	22.99	W	.3860	26.46	30.14	49.03
6.5mm	.2559	20.22	23.00	□	25/64	.3906	26.46	30.14	49.03
F	.2570	20.22	23.00	28.60	10mm	.3937	26.46	30.14	□
G	.2610	20.22	23.00	28.60	X	.3970	26.46	30.14	49.03
17/64	.2656	22.42	25.68	34.73	Y	.4040	27.53	31.27	49.03
H	.2660	22.42	25.68	34.73	13/32	.4062	25.80	29.71	49.03
I	.2720	22.42	25.68	34.73	Z	.4130	27.53	28.14	49.03
7mm	.2756	22.42	25.68	□	10.5mm	.4134	27.53	31.27	□
J	.2770	22.42	25.68	34.73	27/64	.4219	27.53	31.27	49.03

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

www.hssblanks.com

HSS CHUCKING REAMERS

SERIES 700 - Straight Flute
SERIES 700C - Straight Flute Cobalt



SERIES 740 - Right Hand Spiral Flute



High Speed Steel - Straight Shank - Right Hand Cut
Fractional - Wire Gage - Letter - Over & Under - Dowel Pin - Metric

Size	Decimal	Price			Size	Decimal	Price		
		700	740	700C			700	740	700C
11mm	.4331	27.53	31.27	□	18.5mm	.7283	58.74	□	□
.4365	.4365	27.53	28.14	49.03	19mm	.7480	58.74	□	□
7/16	.4375	25.54	29.69	49.03	3/4	.7500	64.21	57.03	81.21
.4385	.4385	27.53	27.32	49.03	19.5mm	.7677	58.74	□	□
11.5mm	.4528	30.14	34.04	□	25/32	.7812	58.74	61.84	86.32
29/64	.4531	30.14	34.04	55.68	20mm	.7874	61.19	□	□
15/32	.4687	30.14	34.04	55.68	20.5mm	.8071	61.19	□	□
12mm	.4724	30.14	34.04	□	13/16	.8125	61.19	61.84	89.89
31/64	.4844	30.14	34.04	55.68	21mm	.8268	61.19	□	□
12.5mm	.4921	30.14	34.04	□	27/32	.8437	70.48	73.20	104.19
.4990	.4990	28.39	34.04	55.68	21.5mm	.8465	70.48	□	□
1/2	.5000	28.39	32.31	50.57	22mm	.8661	70.48	□	□
.5010	.5010	28.43	34.04	55.68	7/8	.8750	70.48	74.86	105.21
13mm	.5118	36.77	□	□	22.5mm	.8858	72.52	□	□
17/32	.5312	36.77	36.14	63.33	23mm	.9055	72.52	□	□
13.5mm	.5315	36.77	□	□	29/32	.9062	78.15	80.71	114.40
14mm	.5512	36.77	□	□	23.5mm	.9252	78.15	□	□
9/16	.5625	36.77	38.74	56.18	15/16	.9375	78.15	72.64	115.42
14.5mm	.5709	36.77	□	□	24mm	.9449	78.15	□	□
15mm	.5906	36.77	□	□	24.5mm	.9646	78.15	□	□
19/32	.5937	36.77	38.74	56.18	31/32	.9687	82.74	90.39	130.74
15.5mm	.6102	41.88	□	□	25mm	.9843	82.74	□	□
5/8	.6250	42.86	45.18	63.33	1	1.0000	82.74	91.24	130.74
16mm	.6299	41.88	□	□	1-1/16	1.0625	91.93	91.03	141.98
16.5mm	.6496	41.88	□	□	1-1/8	1.1250	97.04	107.50	156.28
21/32	.6562	44.94	47.54	78.65	1-3/16	1.1875	117.46	125.88	179.77
17mm	.6693	47.51	□	□	1-1/4	1.2500	122.26	133.42	192.03
11/16	.6875	47.51	51.09	78.65	1-5/16	1.3125	143.00	155.61	224.71
17.5mm	.6890	50.61	□	□	1-3/8	1.3750	149.84	142.93	234.93
18mm	.7087	50.61	□	□	1-7/16	1.4375	160.36	175.38	254.34
23/32	.7187	50.61	57.03	92.95	1-1/2	1.5000	173.64	188.81	274.76

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • 453 LEHIGH AVENUE • UNION, NEW JERSEY 07083-7926

CAP SCREW COUNTERBORES



HIGH SPEED STEEL - STRAIGHT SHANK

Size	Description	Style No.	Pilot Dia.	Pilot Length	Flute Dia.	Flute Length	Shank Dia.	Overall Length	Price Each
4	Std.	500	.1120	1/8	.1830	9/16	.1562	3" [□]	21.82
	1/64 O/S	400	.1270	1/8	.1990	9/16	.1562	3" [□]	22.80
	1/32 O/S	300	.1430	1/8	.2150	9/16	.1562	3" [□]	22.80
5	Std.	500	.1250	5/32	.2050	5/8	.1875	4" [□]	21.82
	1/64 O/S	400	.1400	5/32	.2210	5/8	.1875	4" [□]	22.80
	1/32 O/S	300	.1560	5/32	.2370	5/8	.1875	4" [□]	22.80
6	Std.	500	.1380	3/16	.2270	3/4	.2188	4 ⁵ / ₈ " [□]	23.11
	1/64 O/S	400	.1530	3/16	.2430	3/4	.2188	4 ⁵ / ₈ " [□]	24.14
	1/32 O/S	300	.1690	3/16	.2590	3/4	.2188	4 ⁵ / ₈ " [□]	24.14
8	Std.	500	.1640	7/32	.2700	3/4	.2500	5	24.76
	1/64 O/S	400	.1790	7/32	.2860	3/4	.2500	5	25.86
	1/32 O/S	300	.1950	7/32	.3020	3/4	.2500	5	25.86
10	Std.	500	.1900	1/4	.3120	7/8	.2812	5 ¹ / ₂ " [□]	25.29
	1/64 O/S	400	.2050	1/4	.3280	7/8	.2812	5 ¹ / ₂ " [□]	25.89
	1/32 O/S	300	.2210	1/4	.3440	7/8	.2812	5 ¹ / ₂ " [□]	25.89
1/4	Std.	500	.2500	9/32	.3800	1	.3125	5 ⁵ / ₈ " [□]	26.57
	1/64 O/S	400	.2650	9/32	.3960	1	.3125	5 ⁵ / ₈ " [□]	27.77
	1/32 O/S	300	.2810	9/32	.4120	1	.3125	5 ⁵ / ₈ " [□]	27.77
5/16	Std.	500	.3125	5/16	.4740	1	.3750	6 ¹ / ₂ " [□]	33.20
	1/64 O/S	400	.3280	5/16	.4890	1	.3750	6 ¹ / ₂ " [□]	34.70
	1/32 O/S	300	.3430	5/16	.5040	1	.3750	6 ¹ / ₂ " [□]	34.70
3/8	Std.	500	.3750	3/8	.5690	1 ¹ / ₂ " [□]	.5000	6 ¹ / ₂ " [□]	35.66
	1/64 O/S	400	.3900	3/8	.5850	1 ¹ / ₂ " [□]	.5000	6 ¹ / ₂ " [□]	37.26
	1/32 O/S	300	.4060	3/8	.6010	1 ¹ / ₂ " [□]	.5000	6 ¹ / ₂ " [□]	37.26
7/16	Std.	500	.4370	7/16	.6610	1 ¹ / ₂ " [□]	.5000	7	42.85
	1/64 O/S	400	.4520	7/16	.6760	1 ¹ / ₂ " [□]	.5000	7	44.77
	1/32 O/S	300	.4680	7/16	.6910	1 ¹ / ₂ " [□]	.5000	7	44.77
1/2	Std.	500	.5000	1/2	.7550	1 ¹ / ₂ " [□]	.5000	7 ¹ / ₂ " [□]	49.07
	1/64 O/S	400	.5150	1/2	.7710	1 ¹ / ₂ " [□]	.5000	7 ¹ / ₂ " [□]	51.29
	1/32 O/S	300	.5310	1/2	.7870	1 ¹ / ₂ " [□]	.5000	7 ¹ / ₂ " [□]	51.29
5/8	Std.	500	.6250	5/8	.9690	1 ¹ / ₂ " [□]	.6250	7 ⁵ / ₈ " [□]	80.04
	1/64 O/S	400	.6400	5/8	.9840	1 ¹ / ₂ " [□]	.6250	7 ⁵ / ₈ " [□]	83.66
	1/32 O/S	300	.6560	5/8	1.0000	1 ¹ / ₂ " [□]	.6250	7 ⁵ / ₈ " [□]	83.66
3/4	Std.	500	.7500	3/4	1.1560	1 ⁵ / ₈ " [□]	.7500	7 ³ / ₄ " [□]	93.13
	1/64 O/S	400	.7650	3/4	1.1720	1 ⁵ / ₈ " [□]	.7500	7 ³ / ₄ " [□]	97.34
	1/32 O/S	300	.7810	3/4	1.1880	1 ⁵ / ₈ " [□]	.7500	7 ³ / ₄ " [□]	97.34
7/8	Std.	500	.8750	7/8	1.3440	1 ⁷ / ₈ " [□]	.8750	8	113.41
	1/64 O/S	400	.8910	7/8	1.3590	1 ⁷ / ₈ " [□]	.8750	8	118.53
	1/32 O/S	300	.9060	7/8	1.3750	1 ⁷ / ₈ " [□]	.8750	8	118.53
1	Std.	500	1.0000	1	1.5310	2	1	8 ¹ / ₂ " [□]	143.87
	1/64 O/S	400	1.0150	1	1.5470	2	1	8 ¹ / ₂ " [□]	150.36
	1/32 O/S	300	1.0310	1	1.5630	2	1	8 ¹ / ₂ " [□]	150.36

O/S = Oversize

Sets Available On Request

WILLIAM T. HUTCHINSON CO.

TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

www.hssblanks.com