

INSPECTION & GAGING TOOLS • SHOP TOOLS & SUPPLIES

CUTTING TOOLS • LINEAR MOTION COMPONENTS • MOLD & DIE SUPPLIES

PRECISION GROUND
HIGH SPEED

STEEL BLANKS



CALL TOLL FREE
1-800-544-7934

WWW.HSSBLANKS.COM
CATALOG AVAILABLE
ON CD ROM



WILLIAM T. HUTCHINSON CO.

453 LEHIGH AVE
UNION, NJ 07083-7926

CATALOG No. 2606

WIRE SIZE HUTCHINSON HSS BLANKS

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
1	.2280	3 7/8	3.44	5.18
2	.2210	3 7/8	3.44	5.18
3	.2130	3 3/4	3.44	5.18
4	.2090	3 3/4	3.44	5.18
5	.2055	3 3/4	3.44	5.18
6	.2040	3 3/4	3.06	4.62
7	.2010	3 5/8	3.06	4.62
8	.1990	3 5/8	3.06	4.62
9	.1960	3 5/8	3.06	4.62
10	.1935	3 5/8	3.06	4.62
11	.1910	3 1/2	2.69	4.05
12	.1890	3 1/2	2.69	4.05
13	.1850	3 1/2	2.58	3.97
14	.1820	3 1/2	2.58	3.97
15	.1800	3 1/2	2.58	3.97
16	.1770	3 3/8	2.32	3.57
17	.1730	3 3/8	2.32	3.57
18	.1695	3 1/4	2.32	3.57
19	.1660	3 1/4	2.29	3.43
20	.1610	3 1/4	2.29	3.43
21	.1590	3 1/4	2.29	3.43
22	.1570	3 1/4	2.29	3.43
23	.1540	3	2.29	3.43
24	.1520	3	2.29	3.43
25	.1495	3	2.29	3.43
26	.1470	3	2.02	3.05
27	.1440	3	2.02	3.05
28	.1405	3	2.02	3.05
29	.1360	3	2.02	3.05
30	.1285	2 3/4	2.02	3.05

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
31	.1200	2 3/4	1.91	2.97
32	.1160	2 3/4	1.89	2.91
33	.1130	2 3/4	1.89	2.91
34	.1110	2 3/4	1.89	2.91
35	.1100	2 3/4	1.89	2.91
36	.1065	2 1/2	1.89	2.88
37	.1040	2 1/2	1.89	2.88
38	.1015	2 1/2	1.89	2.88
39	.0995	2 1/2	1.89	2.88
40	.0980	2 1/2	1.89	2.88
41	.0960	2 1/2	1.85	2.77
42	.0935	2 1/4	1.85	2.77
43	.0890	2 1/4	1.85	2.77
44	.0860	2 1/4	1.85	2.77
45	.0820	2 1/4	1.85	2.77
46	.0810	2 1/4	1.85	2.77
47	.0785	2	1.80	2.75
48	.0760	2	1.80	2.75
49	.0730	2	1.80	2.75
50	.0700	2	1.80	2.75
51	.0670	2	1.73	2.56
52	.0635	1 7/8	1.73	2.56
53	.0595	1 7/8	1.73	2.56
54	.0550	1 7/8	1.73	2.56
55	.0520	1 7/8	1.73	2.56
56	.0465	1 3/4	1.81	2.68
57	.0430	1 3/4	1.81	2.68
58	.0420	1 5/8	1.81	2.68
59	.0410	1 5/8	1.81	2.68
60	.0400	1 5/8	1.81	2.68

CHOICE OF TOLERANCE + .0002 OR + .0000
 - .0000 - .0002

Typical Analysis of M2 and M42 High Speed Steel							
	C	Cr	Mo	W	V	Co	Hardness
M2	.83	4.0	5.0	6.0	2.0	—	R/C 62-64
M42	1.10	3.75	9.50	1.50	1.15	8.25	R/C 66-68

CUT COSTS - USE HUTCHINSON HSS BLANKS FOR PUNCHES, EJECTOR PINS AND DOWELS.

**QUICK DELIVERY
 DIRECT FROM OUR PLANT
 NO ORDER TOO SMALL**

WILLIAM T. HUTCHINSON CO.

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

WIRE SIZE HUTCHINSON HSS BLANKS

**HUTCHINSON HSS BLANKS ARE
AVAILABLE IN ANY DIAMETER .005" - 1.500"
GROUND TO .0002 TOLERANCE
LENGTHS UP TO 36" TO SUIT YOUR REQUIREMENTS**

All standard size High Speed Steel blanks available for quick delivery from our plant

M2 HSS - R/C 62-64

M42 HSS - R/C 66-68

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
61	.0390	1 1/2	2.07	2.81
62	.0380	1 1/2	2.07	2.81
63	.0370	1 1/2	2.07	2.81
64	.0360	1 1/2	2.07	2.81
65	.0350	1 1/2	2.35	3.22
66	.0330	1 1/2	2.35	3.22
67	.0320	1 1/2	2.35	3.22
1/32	.03125	1 1/2	2.12	3.00
68	.0310	1 1/2	2.35	3.22
69	.0292	1 1/2	2.54	3.31
70	.0280	1 1/2	2.54	3.31
71	.0260	1 1/2	2.54	3.31
72	.0250	1 1/2	2.97	4.15
73	.0240	1 1/2	2.97	4.15
74	.0225	1 1/2	2.97	4.15
75	.0210	1 1/2	2.97	4.15
76	.0200	1 1/2	3.66	5.10
77	.0180	1 1/2	3.66	5.10
78	.0160	1 1/2	3.66	5.10
1/64	.015625	1 1/2	3.43	4.89
79	.0145	1 1/2	3.66	5.10
80	.0135	1 1/2	3.66	5.10

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
61	.0390	2	2.54	3.50
62	.0380	2	2.54	3.50
63	.0370	2	2.54	3.50
64	.0360	2	2.54	3.50
65	.0350	2	2.75	3.80
66	.0330	2	2.75	3.80
67	.0320	2	2.75	3.80
1/32	.03125	2	2.75	3.80
68	.0310	2	2.75	3.80
69	.0292	2	3.27	4.55
70	.0280	2	3.27	4.55
71	.0260	2	3.27	4.55
72	.0250	2	3.73	5.20
73	.0240	2	3.73	5.20
74	.0225	2	3.73	5.20
75	.0210	2	3.73	5.20
76	.0200	2	4.92	6.93
77	.0180	2	4.92	6.93
78	.0160	2	4.92	6.93
1/64	.015625	2	4.92	6.93
79	.0145	2	4.92	6.93
80	.0135	2	4.92	6.93

CHOICE OF TOLERANCE + .0002 OR + .0000
 - .0000 - .0002

**ONE END SOFT
BLANKS
AND
BLANKS OF SPECIAL
HARDNESS AVAILABLE**

QUANTITY DISCOUNTS	
The following discounts apply to orders for blanks of standard length and standard diameter only:	
100 pieces of one size	5%
250 pieces of one size	7 1/2%
500 pieces of one size	10%
1000 pieces of one size	15%

**WHEN ORDERING,
SPECIFY:
DIAMETER
LENGTH
TOLERANCES**

LIMITED SIZES OF M7 AVAILABLE

PRICES & AVAILABILITY UPON REQUEST

WILLIAM T. HUTCHINSON CO.

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

METRIC HUTCHINSON HSS BLANKS

METRIC BLANKS - .35mm - 4.70mm DIAMETER

M2 HIGH SPEED STEEL - ROCKWELL "C" 62-64

M42 HIGH SPEED STEEL - ROCKWELL "C" 66-68

Diameter mm	Length Overall mm	M2 Net Price Each	M42 Net Price Each	Diameter mm	Length Overall mm	M2 Net Price Each	M42 Net Price Each
.35	38	4.58	6.53	2.10	57	2.13	3.28
.40	38	4.58	6.53	2.15	57	2.13	3.28
.45	38	4.58	6.53	2.20	57	2.13	3.28
.50	38	4.58	6.53	2.25	57	2.13	3.28
.55	38	3.75	5.28	2.30	57	2.13	3.28
.60	38	3.75	5.28	2.35	57	2.13	3.28
.65	38	3.75	5.28	2.40	57	2.18	3.42
.70	38	3.20	4.53	2.45	64	2.18	3.42
.75	38	3.20	4.53	2.50	64	2.18	3.42
.80	38	2.87	4.03	2.60	64	2.18	3.42
.85	38	2.87	4.03	2.70	64	2.18	3.42
.90	38	2.87	4.03	2.75	70	2.18	3.49
.95	38	2.65	3.65	2.80	70	2.18	3.49
1.00	38	2.65	3.65	2.90	70	2.18	3.49
1.05	41	2.43	3.47	3.00	70	2.26	3.55
1.10	44	2.43	3.47	3.10	70	2.26	3.55
1.15	44	2.43	3.47	3.20	70	2.30	3.62
1.20	48	2.43	3.47	3.25	70	2.30	3.62
1.25	48	2.43	3.47	3.30	76	2.30	3.62
1.30	48	2.31	3.31	3.40	76	2.30	3.62
1.35	48	2.31	3.35	3.50	76	2.30	3.63
1.40	48	2.31	3.35	3.60	76	2.30	3.63
1.45	48	2.31	3.35	3.70	76	2.30	3.63
1.50	48	2.31	3.35	3.75	76	2.43	3.89
1.55	48	2.31	3.35	3.80	76	2.43	3.89
1.60	48	2.31	3.35	3.90	76	2.43	3.89
1.65	51	2.31	3.35	4.00	83	2.43	3.89
1.70	51	2.31	3.35	4.10	83	2.43	3.89
1.75	51	2.11	3.16	4.20	83	2.43	3.91
1.80	51	2.11	3.16	4.25	83	2.48	4.02
1.85	51	2.11	3.16	4.30	83	2.48	4.02
1.90	51	2.11	3.16	4.40	86	2.48	4.03
1.95	51	2.11	3.16	4.50	86	2.48	4.03
2.00	51	2.11	3.27	4.60	89	2.84	4.70
2.05	57	2.13	3.28	4.70	89	2.84	4.70

CHOICE OF TOLERANCE + .0051 mm OR + .0000
 - .0000 - .0051 mm

**METRIC BLANKS AVAILABLE .25mm - 35.0mm DIAMETER
 LENGTHS UP TO 900mm TO SUIT YOUR REQUIREMENTS**

WILLIAM T. HUTCHINSON CO.

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

METRIC HUTCHINSON HSS BLANKS

METRIC BLANKS - 4.75mm - 13.0mm DIAMETER

M2 HIGH SPEED STEEL - ROCKWELL "C" 62-64
M42 HIGH SPEED STEEL - ROCKWELL "C" 66-68

Diameter mm	Length Overall mm	M2 Net Price Each	M42 Net Price Each	Diameter mm	Length Overall mm	M2 Net Price Each	M42 Net Price Each
4.75	89	2.84	4.70	7.70	114	6.33	10.49
4.80	89	2.94	3.42	7.75	114	6.33	10.49
4.90	92	3.36	5.47	7.80	114	6.33	10.49
5.00	92	3.36	5.47	7.90	114	6.33	10.49
5.10	92	3.36	5.47	8.00	114	6.33	10.49
5.20	95	3.36	5.49	8.10	117	6.80	11.34
5.25	95	3.73	6.03	8.20	117	6.80	11.34
5.30	95	3.73	6.03	8.25	117	6.80	11.34
5.40	95	3.73	6.03	8.30	117	6.80	11.34
5.50	95	3.73	6.03	8.40	121	6.80	11.34
5.60	98	3.73	6.03	8.50	121	7.48	12.50
5.70	98	3.73	6.03	8.60	121	7.48	12.50
5.75	98	3.73	6.03	8.70	121	8.07	13.46
5.80	98	4.11	6.64	8.75	124	8.07	13.59
5.90	98	4.11	6.64	8.80	124	8.07	13.59
6.00	102	4.11	6.64	8.90	124	8.07	13.59
6.10	102	4.11	6.64	9.00	124	8.07	13.59
6.20	102	4.32	7.10	9.10	124	8.07	13.59
6.25	102	4.32	7.10	9.20	127	8.69	14.90
6.30	102	4.32	7.10	9.25	127	8.69	14.90
6.40	105	4.88	8.16	9.30	127	8.69	14.90
6.50	105	4.88	8.16	9.40	127	8.71	14.91
6.60	105	4.88	8.16	9.50	127	8.71	14.91
6.70	105	4.88	8.16	9.60	130	9.45	16.24
6.75	105	4.88	8.16	9.70	130	9.45	16.24
6.80	105	5.27	8.77	9.75	130	9.61	16.27
6.90	105	5.27	8.77	9.80	130	9.61	16.27
7.00	108	5.27	8.77	9.90	130	9.61	16.27
7.10	108	5.27	8.77	10.00	130	9.61	16.27
7.20	108	5.27	8.83	10.50	133	10.42	17.90
7.25	108	5.27	8.83	11.00	140	12.43	20.59
7.30	108	5.27	8.83	11.50	142	14.69	22.03
7.40	111	5.62	9.42	12.00	149	15.88	23.25
7.50	111	5.62	9.42	12.50	152	19.21	25.79
7.60	111	5.62	9.42	13.00	152	21.47	32.58

CHOICE OF TOLERANCE $+ .0051 \text{ mm}$ **OR** $+ .0000$
 $- .0000$ $- .0051 \text{ mm}$

SPECIALLY EQUIPPED FOR SMALL LOT, HIGH PRECISION CENTERLESS GRINDING

WILLIAM T. HUTCHINSON CO.

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

HIGH SPEED STEEL DRILL BLANKS

36 INCH HSS LENGTHS TOLERANCE ± .001

FRACTIONAL SIZE DRILL RODS	DECIMAL EQUIVALENT	ANNEALED M2 HIGH SPEED BLANKS-36"	HARDENED GROUND HIGH SPEED BLANKS-36"
1/16	.0625	9.67	22.40
5/64	.0781	10.36	24.19
3/32	.0938	11.05	27.63
7/64	.1094	11.66	27.63
1/8	.1250	12.79	28.00
9/64	.1406	14.16	30.20
5/32	.1562	15.70	30.32
11/64	.1719	17.28	30.48
3/16	.1875	18.58	30.69
13/64	.2031	20.32	31.17
7/32	.2188	22.14	34.27
15/64	.2344	23.68	34.53
1/4	.2500	25.78	34.78
17/64	.2656	28.13	37.87
9/32	.2812	30.43	38.19
19/64	.2969	33.02	40.04
5/16	.3125	35.78	40.41
21/64	.3281	38.45	50.43
11/32	.3438	41.44	50.81
23/64	.3594	44.03	51.18
3/8	.3750	47.07	51.61
25/64	.3906	50.39	66.11
13/32	.4062	53.66	66.55
27/64	.4219	57.27	67.00
7/16	.4375	61.03	67.46
29/64	.4531	64.67	79.14
15/32	.4688	67.46	79.63
31/64	.4844	72.81	80.71
1/2	.5000	76.85	80.71
17/32	.5312	85.47	228.41
9/16	.5625	94.98	240.92
5/8	.6250	111.66	256.27
11/16	.6875	133.27	
23/32	.7188	144.64	
3/4	.7500	156.54	
7/8	.8750	209.40	
1	1.0000	270.26	
1 1/8	1.1250	358.30	

HARDENED, GROUND HSS DRILL BLANKS HAVE
A HARDNESS OF R/C 62-64

ALL BLANKS CAN BE CUT TO MEET YOUR REQUIREMENTS.

PRECISION GRINDING AVAILABLE TO A .0002 TOLERANCE

36 INCH HARDENED & GROUND HSS LENGTHS

WIRE SIZE TOLERANCE ± .0003

Wire Size	Decimal Equiv.	Price Each
61	.0390	25.63
62	.0380	25.63
63	.0370	25.63
64	.0360	25.63
65	.0350	25.97
66	.0330	25.97
67	.0320	25.97
68	.0310	26.22
69	.0292	26.22
70	.0280	26.22
71	.0260	26.93
72	.0250	26.93
73	.0240	26.93
74	.0225	27.63
75	.0210	27.63
76	.0200	27.63
77	.0180	28.16
78	.0160	28.16
79	.0145	28.78
80	.0135	28.78

METRIC SIZE TOLERANCE +.0000 -.0005

Metric Size	Decimal Equiv.	Price Each
.50mm	.0199	27.63
.60	.0236	26.27
.70	.0276	25.58
.80	.0315	25.58
.90	.0354	25.34
1.00	.0394	25.01
1.10	.0433	25.01
1.20	.0472	23.98
1.30	.0512	23.98
1.40	.0551	23.98
1.50	.0591	22.95
1.60	.0630	22.95
1.70	.0669	22.95
1.80	.0709	24.78
1.90	.0748	24.78
2.00	.0787	24.78
2.10	.0827	24.89
2.20	.866	24.89
2.30	.0906	24.89
2.40	.0945	27.35
2.50	.0984	27.35

24 INCH HARDENED & GROUND HSS LENGTHS

TOLERANCE ± .001

Diameter Inches	Decimal Equivalent	Price Each
17/32	.5312	132.16
9/16	.5625	152.26
5/8	.6250	158.73
11/16	.6875	191.77
23/32	.7188	202.33
3/4	.7500	213.23
13/16	.8125	241.16
7/8	.8750	247.97
1	1.0000	283.39

WILLIAM T. HUTCHINSON CO.

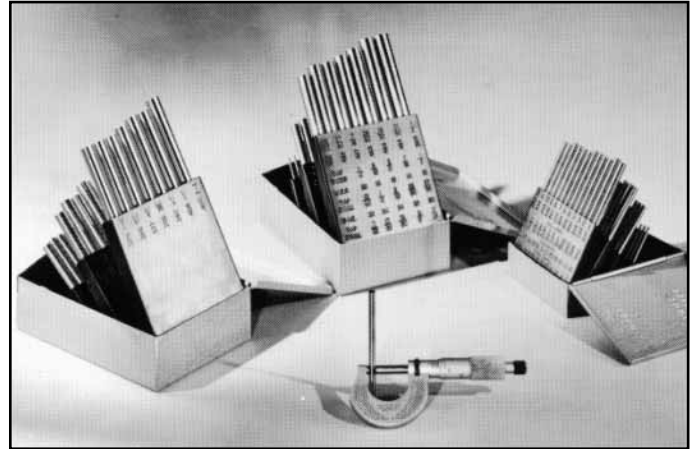
TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

HSS DRILL BLANK & DRILL SETS

Conveniently packaged in all steel indexes, sets of general purpose jobber length drills and precision ground drill or reamer blanks are available for shipment from our plant.

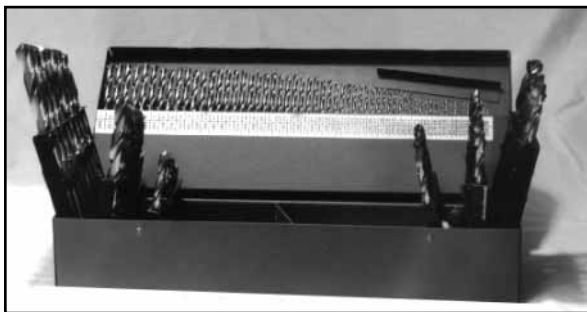
Please specify when ordering: Drill set / Drill blank ($^{+0.0000}_{-0.0002}$) set / Reamer Blank ($^{+0.0002}_{-0.0000}$) set

	DRILL SET	M2 HSS BLANK SET	INDEX ONLY
LETTER SET "A" - "Z" 26 PIECES	95.35	147.65	9.45
WIRE SET #1 - #60 60 PIECES	81.90	125.72	7.45
WIRE SET #61 - #80 20 PIECES	29.00	58.98	4.95
FRACTIONAL SET 1/16" - 1/2" x 1/64ths 29 PIECES	110.30	170.24	8.65
FRACTIONAL SET 1/16" - 1/2" x 1/32nds 15 PIECES	59.60	91.77	7.10



METRIC BLANKS AVAILABLE AS
DRILL BLANKS ($^{+0.0000}_{-0.0051}$ MM)OR
REAMER BLANKS ($^{+0.0051}_{-0.0000}$ MM)

OTHER SETS AVAILABLE TO SUIT
YOUR NEEDS - CALL FOR PRICING
AND DELIVERY



METRIC SETS	DRILL SET	M2 HSS BLANK SET	INDEX ONLY
1 mm. - 6mm. x 1/2 mm. 11 PIECES	19.75	32.63	6.15
1 mm. - 13mm. x 1/2 mm. 25 PIECES	99.30	167.92	8.65
1 mm. - 5.9 mm. x .1 mm. 50 PIECES	75.45	126.20	9.65
6 mm. - 10 mm. x .1 mm. 41 PIECES	178.40	266.46	22.95

115 PIECES - COMPLETE IN ONE BOX

INCLUDES: WIRE SET #1 - #60, LETTER SET "A" - "Z", 1/16" - 1/2" x 1/64ths	DRILL SET	M2 HSS BLANK SET	INDEX ONLY
	297.15	452.70	34.65

WILLIAM T. HUTCHINSON CO.

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

36" LONG AIR HARDENING DRILL RODS

AISI TYPE A2

Size	Decimal	Price
1/16	.0625	3.64
5/64	.0781	6.28
3/32	.0937	5.90
7/64	.1094	7.04
1/8	.1250	6.45
9/64	.1406	9.08
5/32	.1562	9.20
11/64	.1719	11.10
3/16	.1875	9.82
13/64	.2031	12.68
7/32	.2187	13.66
15/64	.2344	15.69
1/4	.2500	13.43
17/64	.2656	14.96
9/32	.2812	16.80
19/64	.2969	18.78
5/16	.3125	17.33
21/64	.3281	21.12
11/32	.3437	23.14
23/64	.3594	25.30
3/8	.3750	24.64
25/64	.3906	29.52
13/32	.4062	31.96
27/64	.4219	34.47
7/16	.4375	33.56
29/64	.4531	39.72
15/32	.4687	42.57
31/64	.4844	45.45
1/2	.5000	42.04
17/32	.5312	53.28
9/16	.5625	53.18
19/32	.5937	65.42
5/8	.6250	64.89
21/32	.6562	79.06
11/16	.6875	78.56
23/32	.7187	94.91
3/4	.7500	92.74
13/16	.8125	108.83
7/8	.8750	126.23
1	1.0000	163.87
1-1/16	1.0625	185.00
1-1/8	1.1250	207.40
1-1/4	1.2500	239.69
1-3/8	1.3750	290.10
1-1/2	1.5000	342.31
1-3/4	1.7500	465.84
2	2.0000	603.82

AISI TYPE D2

Size	Decimal	Price
2mm	.0787	9.83
3mm	.1181	14.57
4mm	.1575	15.21
5mm	.1969	18.78
6mm	.2362	25.05
7mm	.2756	25.32
8mm	.3150	31.20
9mm	.3543	37.93
10mm	.3937	46.58
11mm	.4331	57.88
12mm	.4724	66.86
13mm	.5118	77.44
14mm	.5512	89.80
15mm	.5906	102.22
16mm	.6299	113.14
17mm	.6693	129.10
18mm	.7087	145.39
19mm	.7480	158.12
20mm	.7874	184.66
21mm	.8268	195.48
22mm	.8661	214.56
23mm	.9055	230.05
24mm	.9449	254.13
25mm	.9843	275.67

Size	Decimal	Price
1/8	.1250	30.60
3/16	.1875	24.56
1/4	.2500	35.12
5/16	.3125	47.97
3/8	.3750	66.61
7/16	.4375	90.86
1/2	.5000	113.86
5/8	.6250	194.02
3/4	.7500	248.27
7/8	.8750	337.57
1	1.0000	424.37
1 1/4	1.2500	730.83
1 1/2	1.5000	1050.77
1 3/4	1.7500	1205.56
2	2.0000	1512.37

AISI TYPE S7

Size	Decimal	Price
1/16	.0625	6.04
3/32	.0937	8.81
1/8	.1250	10.78
5/32	.1562	14.01
3/16	.1875	16.63
7/32	.2187	19.24
1/4	.2500	21.60
5/16	.3125	25.47
3/8	.3750	34.83
7/16	.4375	47.40
1/2	.5000	50.19
5/8	.6250	76.23
3/4	.7500	109.80
7/8	.8750	149.46
1	1.0000	190.21
1 1/4	1.2500	297.20
1 3/8	1.3750	359.58
1 1/2	1.5000	427.93
1 3/4	1.7500	582.49
2	2.0000	761.54

DRILL ROD IS NOT HEAT TREATED

DRILL ROD TOLERANCES	
Diameter	Tolerance
Below .124	± .0003
.125-1.500	± .0005
1.500-2.000	± .001

TYPICAL ANALYSIS OF DRILL ROD MATERIALS							
	C	Si	Mn	W	Cr	V	Mo
S7	.50	.25	.75		3.25		1.40
D2	1.50	.30	.30		12.00	.90	.75
A2	1.00	.30	.75		5.00	.25	1.00
O1	.94	.30	1.20	.50	.50		

**ALL DRILL ROD CAN
BE CUT AND HEAT TREATED
TO MEET YOUR
REQUIREMENTS.**

**PRECISION GRINDING
OF DRILL ROD
AVAILABLE TO A
.0002 TOLERANCE.**

**ALSO AVAILABLE
IN LIMITED SIZES:
AISI TYPE W1**

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AND DELIVERY.**

WILLIAM T. HUTCHINSON CO.

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36" LONG AISI 0-1 OIL HARDENING DRILL RODS

NUMBER & LETTER SIZES

Size	Decimal	Price	Size	Decimal	Price	Size	Decimal	Price	Size	Decimal	Price
60	.039	13.00	37	.103	3.55	14	.180	6.61	J	.277	7.65
59	.040	13.00	36	.106	3.80	13	.182	6.68	K	.281	7.93
58	.041	13.00	35	.108	3.93	12	.185	6.96	L	.290	8.17
57	.042	13.00	34	.110	4.05	11	.188	5.75	M	.295	8.65
56	.045	12.50	33	.112	4.16	10	.191	5.91	N	.302	8.99
55	.050	12.50	32	.115	4.46	9	.194	6.16	O	.316	9.44
54	.055	11.50	31	.120	4.82	8	.197	6.34	P	.323	9.24
53	.058	11.50	30	.127	4.00	7	.199	6.40	Q	.332	9.55
52	.063	2.62	29	.134	4.46	6	.201	6.56	R	.339	10.12
51	.066	2.86	28	.139	4.82	5	.204	6.81	S	.348	10.58
50	.069	3.09	27	.143	5.10	4	.207	6.93	T	.358	11.10
49	.072	3.41	26	.146	5.33	3	.212	7.31	U	.368	11.76
48	.075	3.68	25	.148	5.97	2	.219	6.87	V	.377	12.44
47	.077	3.93	24	.151	5.67	1	.227	7.36	W	.386	12.75
46	.079	4.08	23	.153	5.87	A	.234	7.82	X	.397	13.39
45	.081	4.32	22	.155	5.92	B	.238	8.14	Y	.404	14.18
44	.085	4.65	21	.157	5.01	C	.242	8.35	Z	.413	14.65
43	.088	5.07	20	.161	5.31	D	.246	8.61			
42	.092	5.58	19	.164	5.46	E	.252	8.00			
41	.095	3.03	18	.168	5.75	F	.257	6.87			
40	.097	3.12	17	.172	6.02	G	.261	6.81			
39	.099	3.30	16	.175	6.20	H	.266	7.01			
38	.101	3.51	15	.178	6.44	I	.272	7.31			

MILLIMETER SIZES

Size	Decimal	Price
2mm	.0787	4.91
3mm	.1181	5.70
4mm	.1575	6.23
5mm	.1969	7.82
6mm	.2362	10.75
7mm	.2756	9.65
8mm	.3150	11.59
9mm	.3543	13.97
10mm	.3937	17.09
11mm	.4331	21.03
12mm	.4724	24.17
13mm	.5118	27.51
14mm	.5512	31.88
15mm	.5906	36.48
16mm	.6299	40.11
17mm	.6693	45.94
18mm	.7087	51.65
19mm	.7480	55.98
20mm	.7874	62.00
21mm	.8268	68.55
22mm	.8661	75.17
23mm	.9055	79.87
24mm	.9449	89.21
25mm	.9843	96.88

FRACTIONAL SIZES

Size	Decimal	Price	Size	Decimal	Price	Size	Decimal	Price
1/16	.0625	2.40	29/64	.4531	18.41	27/32	.8438	56.59
5/64	.0781	4.00	15/32	.4688	18.35	55/64	.8594	60.18
3/32	.0937	2.77	31/64	.4844	21.03	7/8	.8750	58.02
7/64	.1094	4.00	1/2	.5000	17.81	57/64	.8906	64.67
1/8	.1250	3.67	33/64	.5156	22.44	29/32	.9063	65.28
9/64	.1406	4.91	17/32	.5313	23.18	59/64	.9219	69.26
5/32	.1563	4.60	35/64	.5469	25.22	15/16	.9375	69.80
11/64	.1719	5.99	9/16	.5625	24.87	61/64	.9531	74.05
3/16	.1875	5.31	37/64	.5781	28.22	31/32	.9688	74.58
13/64	.2031	6.68	19/32	.5938	29.03	63/64	.9844	78.94
7/32	.2188	6.34	39/64	.6094	30.95	1	1.0000	65.53
15/64	.2344	7.86	5/8	.6250	27.75	1-1/16	1.0625	85.28
1/4	.2500	6.03	41/64	.6406	34.19	1-3/32	1.0938	89.94
17/64	.2656	7.31	21/32	.6563	34.96	1-1/8	1.1250	91.32
9/32	.2813	7.58	43/64	.6719	37.61	1-3/16	1.1875	106.58
19/64	.2969	9.08	11/16	.6875	36.70	1-1/4	1.2500	106.99
5/16	.3125	7.58	45/64	.7031	41.18	1-5/16	1.3125	123.54
21/64	.3281	9.91	23/32	.7188	41.93	1-3/8	1.3750	129.45
11/32	.3438	10.06	47/64	.7344	44.89	1-7/16	1.4375	148.28
23/64	.3594	11.89	3/4	.7500	38.73	1-1/2	1.5000	152.54
3/8	.3750	10.70	49/64	.7656	47.79	1-9/16	1.5625	164.49
25/64	.3906	13.68	25/32	.7813	48.50	1-5/8	1.6250	187.50
13/32	.4062	13.88	51/64	.7969	51.74	1-3/4	1.7500	207.66
27/64	.4219	15.93	13/16	.8125	50.08	1-7/8	1.8750	249.68
7/16	.4375	14.49	53/64	.8281	55.93	2	2.0000	269.00

DRILL ROD TOLERANCES	
Diameter	Tolerance
Below .124	± .0003
.125-1.500	± .0005
1.500-2.000	± .001

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TO MEET YOUR
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**PRECISION GRINDING
OF DRILL ROD
AVAILABLE TO A
.0002 TOLERANCE.**

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AISI TYPE W1**

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AND DELIVERY.**

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HUTCHINSON SUPER HIGH ALLOY BLANKS

**ASP30 (8.5% COBALT)
 T15PM (12% TUNGSTEN)
 ASP60 (10.5% COBALT)
 M4PM (5.75 TUNGSTEN)
 ASP23 (AISI M3:2)
 CPM10V (AISI A11)(9.75% VANADIUM)**

ASP30 is an 8.5% cobalt content high-alloy high-speed steel manufactured powder-metallurgically. This high performance material exhibits good grindability, toughness, hot hardness and wear resistance.

T15PM is a tungsten type high speed steel containing high carbon and vanadium for very high hardness and maximum wear resistance, and cobalt for good red hardness. Manufactured powder—metallurgically for improved quality and grindability.

M4PM is designed for high wear resistance. Its high vanadium and carbon content provide high resistance to wear in cold work and cutting applications. It exhibits improved performance working with abrasive materials. Manufactured powder-metallurgically for improved grindability and toughness.

ASP23 An all around steel suitable for cutting tools such as reamers, taps, milling cutters, broaches, etc. . .
 Used where cutting conditions demand high wear resistance and superior toughness but where demands for hot hardness are not paramount. ASP23 is also suitable for cold work applications where tools for punching show an admirable combination of wear resistance and toughness.

ASP60 is an extremely high alloy high speed steel. The steel is atomized, compacted and processed to required dimensions. The result is an extremely homogeneous steel. ASP 60's homogeneous structure enhances such properties as dimensional stability and shape during heat treatment, as well as improving grindability and toughness. ASP-60's method of manufacture and composition mean that it can provide high hot hardness and good wear resistance.

CPM10V(AISI A11) is a unique tool steel made by a particle metallurgy process. Its high carbon and high vanadium content provides a combination of exceptionally good wear resistance, toughness and strength for both cold and warm work applications.

Diameter Inches	Decimal Equivalent	Length Overall Inches	ASP30 Net Price Each	T15PM Net Price Each	M4PM Net Price Each	ASP60 Net Price Each	ASP23 Net Price Each	CPM10V Net Price Each
1/16	.0625	2 1/2	7.29	—	6.28	—	5.87	—
3/32	.09375	2 1/2	6.82	—	6.06	—	5.68	—
1/8	.1250	2 1/2	5.06	—	4.47	—	4.20	6.54
		4	6.90	—	6.09	—	5.70	10.40
		6	9.94	—	8.78	—	8.21	15.62
3/16	.1875	2 1/2	5.57	—	5.05	16.55	5.23	6.77
		4	8.52	—	7.25	26.37	6.92	9.55
		6	13.46	—	11.41	40.40	10.98	15.48
1/4	.2500	2 1/2	7.33	10.42	6.17	16.05	5.93	8.48
		4	10.91	15.52	9.21	23.82	8.83	13.57
		6	16.80	23.86	14.17	36.72	13.61	20.42
5/16	.3125	4	14.11	19.98	11.84	30.49	11.34	18.14
		6	19.83	28.11	16.64	42.77	15.97	27.20
3/8	.3750	4	17.28	23.56	14.00	36.72	13.68	21.67
		6	25.92	35.35	20.99	55.09	20.52	32.48
7/16	.4375	6	33.49	45.70	27.31	—	27.53	—
1/2	.5000	4	27.10	37.10	21.84	57.01	21.35	32.19
		6	37.83	51.99	30.54	79.51	29.82	47.97
5/8	.6250	4	46.13	60.65	37.08	97.19	36.23	52.23
		6	62.08	84.24	50.01	130.72	48.87	78.33
3/4	.7500	4	61.20	82.90	49.27	128.88	48.17	71.10
		6	84.13	114.36	67.92	177.09	66.33	106.30
7/8	.8750	6	109.10	148.25	88.10	—	—	139.48
1	1.0000	6	135.35	184.74	109.65	289.85	—	179.16

CHOICE OF TOLERANCE $\begin{matrix} +.0002 \\ -.0000 \end{matrix}$ **OR** $\begin{matrix} +.0000 \\ -.0002 \end{matrix}$

**AVAILABLE IN ANY DIAMETER .0300 - 1.000
 ADDITIONAL LENGTHS AVAILABLE
 TO SUIT YOUR REQUIREMENTS**

TYPICAL ANALYSIS OF SUPER HIGH ALLOY MATERIALS:

	C	Cr	Mo	W	V	Co	Hardness
ASP30	1.28	4.2	5.0	6.4	3.1	8.5	R/C 65-67
T15PM	1.55	4.0	—	12.0	5.0	5.0	R/C 64-66
M4PM	1.35	4.0	4.5	5.75	4.0	—	R/C 63-65
ASP60	2.30	4.0	7.0	6.5	6.5	10.5	R/C 67-69
ASP23	1.28	4.2	5.0	6.4	3.1	—	R/C 63-65
CPM10V	2.45	5.25	1.3	—	9.75	—	R/C 62-64

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WKE 45 SUPER COBALT HSS BLANKS

**WKE 45 WITH 11% COBALT CONTENT, FINE GRAIN
STRUCTURE AND UNIQUE CHEMICAL
COMPOSITION, MEETS REQUIREMENTS FOR
MAXIMUM PERFORMANCE IN MOST CUTTING
TOOL APPLICATIONS**

METRIC		
Dia. mm	Length Overall mm	Net Price Each
3	100	11.67
4	80	13.06
4	100	16.66
5	100	17.90
5	160	—
6	63	—
6	80	—
6	100	19.57
6	160	27.39
8	100	23.00
8	160	32.14
8	200	38.72
10	100*	29.15
10	160*	42.83
10	200*	50.70
12	100*	35.00
12	160*	57.50
12	200	75.00
14	160	68.75
15	100	—
16	100	—
16	160	—
16	200	—
18	100	—
18	200	116.10
20	200	141.60

FRACTIONAL		
Dia. Inches	Length Overall Inches	Net Price Each
1/8	4	11.67
3/16	2 1/2*	9.93
3/16	4	13.97
1/4	2 1/2*	12.62
1/4	4	17.63
1/4	6	27.07
5/16	4	24.95
5/16	6 9/32	37.10
3/8	4	30.37
3/8	6	39.15
3/8	8*	62.20
1/2	4	42.72
1/2	6	58.06
1/2	8	77.96
5/8	4	—
5/8	6	89.47
3/4	6	113.86
3/4	8*	220.00
1	6	—

HARDNESS:
R/C 67-69

STANDARD DIAMETER
TOLERANCE

+ .0
- .002"

SPECIAL DIAMETERS
AND TOLERANCES
AVAILABLE—PRICES
UPON REQUEST

WKE45 SQUARE
& RECTANGULAR
TOOLBITS AVAILABLE
SEE PAGE 41

WKE45 TYPICAL ANALYSIS					
C	Cr	Mo	W	V	Co
1.40	4.2	3.5	9.0	3.5	11.0

* AVAILABLE UNTIL
STOCK IS EXHAUSTED

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ENGRAVING BLANKS

SPLIT HALF-ROUND

Solid Tungsten Carbide



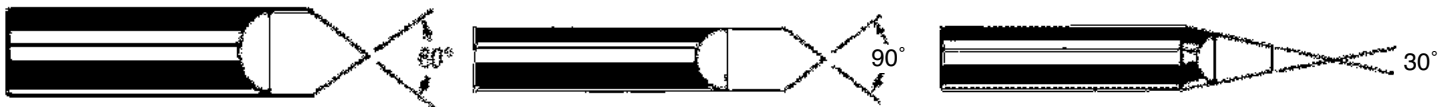
SINGLE END

DOUBLE END

Solid Tungsten Carbide Blanks with a close sub-micron grain structure, hardness of RA91.8 and high transverse rupture strength offer superior results when machining both ferrous and non ferrous metals as well as plastics, fiberglass and mylar.

DIAMETER	O.A.L.	LENGTH OF SPLIT/FLAT	SINGLE END PRICE EA.	DOUBLE END PRICE EACH
1/8	1-1/2	3/8	6.11	9.82
1/8	2	3/8	6.83	10.54
1/8	3	3/8	7.33	11.04
1/8	4	3/8	8.84	13.83
1/8	6	3/8	22.46	27.46
3/16	2	1/2	9.68	13.85
3/16	2-1/2	1/2	10.74	14.91
3/16	3	1/2	11.81	15.97
3/16	4	1/2	13.86	19.48
3/16	6	1/2	28.91	34.83
1/4	2	1/2	11.56	17.81
1/4	2-1/2	1/2	13.42	19.67
1/4	3	1/2	15.17	21.41
1/4	4	1/2	18.06	24.30
1/4	6	1/2	32.31	38.55
5/16	2-1/2	1/2	17.53	24.40
5/16	3	1/2	19.87	26.74
5/16	4	1/2	23.93	30.80
5/16	6	1/2	51.33	58.19
3/8	2-1/2	1/2	22.18	29.67
3/8	3	1/2	25.23	32.72
3/8	4	1/2	31.13	38.62
3/8	6	1/2	49.48	56.94
7/16	2-1/2	5/8	28.21	36.33
7/16	3	5/8	33.40	41.51
7/16	4	5/8	37.44	45.55
7/16	6	5/8	56.27	64.39
1/2	3	5/8	38.98	47.72
1/2	4	5/8	48.80	57.53
1/2	6	5/8	73.76	82.50

Tolerances: Diameter $\begin{matrix} +.0 \\ -.0005 \end{matrix}$ Split/Flats $\begin{matrix} +.001 \\ -.0 \end{matrix}$ above centerline
 END SHAPES AVAILABLE ON REQUEST



INFORMATION AND PRICING AVAILABLE ON REQUEST
 ALSO AVAILABLE IN BOXED SETS

WILLIAM T. HUTCHINSON CO.

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www.hssblanks.com

CARBIDE DRILL BLANKS

CENTERLESS GROUND - CUT TO LENGTH

Dia.	Decimal	LENGTH								
		1½	2	2½	3	3½	4	5	6	12
1/16	.0625	3.48	—	—	4.47	—	—	—	8.77	21.53
3/32	.09375	3.01	3.99	4.27	4.21	—	—	—	10.20	20.97
1/8	.1250	1.54	2.54	2.86	3.49	—	5.27	—	19.24	23.66
5/32	.15625	5.21	3.94	5.00	6.04	—	—	—	28.94	29.56
3/16	.1875	3.47	4.59	5.77	6.97	—	9.29	—	31.83	41.26
1/4	.2500	5.90	6.87	8.51	10.53	13.36	13.31	—	33.74	63.13
5/16	.3125	—	9.29	12.01	14.66	17.26	35.24	—	47.39	100.01
3/8	.3750	10.19	13.33	16.56	19.99	23.30	26.66	—	47.34	131.07
7/16	.4375	—	—	22.66	28.50	27.10	33.03	—	54.29	170.11
1/2	.5000	—	22.74	28.54	34.07	29.81	45.16	61.14	73.34	210.73
9/16	.5625	—	—	—	—	50.61	62.39	—	73.69	217.93
5/8	.6250	—	—	—	53.59	62.49	76.33	97.81	117.39	332.39
3/4	.7500	—	—	—	94.43	77.75	101.94	128.54	155.74	382.59
7/8	.8750	—	—	89.67	—	—	146.87	—	222.70	521.19
1	1.0000	—	—	—	—	—	169.37	221.17	268.27	680.89

METRIC SIZES				
Dia.	Length	Price	Length	Price
3mm	39mm	2.09	12"	22.64
4	51	5.64	12"	—
5	51	4.61	12"	—
6	51	6.09	12"	60.40
6	64	7.81	12"	—
8	64	11.81	12"	95.89
10	76	23.41	12"	138.26
10	102	31.11	12"	—
12	102	45.69	12"	178.69
14	102	62.39	12"	—
16	102	76.47	12"	—
18	102	108.96	12"	—
20	102	133.76	12"	—
25	102	132.09	12"	642.34

C2 Micrograin Carbide
 10% Cobalt Content
 Hardness R/A 91.8
 TRS (nominal) 410 KPSI
 Density 14.50 Gm/CC

Diameter Tolerance

+0
 -.0005

STYLE STB 1000 & 2000 BLANKS AVAILABLE -
 SEE PAGES 44 & 45

*Additional grades and tolerances available on application
 Available in any diameter 1/64"-3" - lengths up to 30"*

WILLIAM T. HUTCHINSON CO.

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HARDENED & GROUND TOOL STEEL BLANKS

SIX INCH LENGTHS

HEAT TREATED & GROUND TO A DIAMETER
TOLERANCE OF +.0000 -.0003

SEE PAGE 10 FOR TYPICAL CHEMICAL ANALYSIS OF THESE MATERIALS		MATERIAL			
		AISI O1 R/C 60-62	AISI A2 R/C 58-60	AISI S7 R/C 58-60	AISI D2 R/C 60-62
DIAMETER	DECIMAL EQUIV.	Net Price Each	Net Price Each	Net Price Each	Net Price Each
1/16	.0625	9.44	8.78	9.01	13.81
5/64	.078125	9.18	8.70	9.01	13.81
3/32	.09375	9.44	8.94	9.44	13.81
7/64	.109375	8.64	8.09	8.75	13.12
1/8	.1250	8.91	8.66	9.46	11.89
5/32	.15625	9.15	9.09	10.04	11.79
3/16	.1875	8.60	8.74	9.95	13.45
7/32	.21875	9.55	10.09	10.62	14.12
1/4	.2500	9.91	10.41	12.45	17.41
9/32	.28125	11.02	11.96	13.14	18.10
5/16	.3125	11.20	12.47	15.20	22.21
11/32	.34375	12.83	14.58	16.35	23.36
3/8	.3750	13.62	14.82	19.50	29.08
7/16	.4375	17.54	20.99	22.87	36.91
1/2	.5000	20.50	24.09	24.86	38.90
9/16	.5625	26.43	30.96	—	—
5/8	.6250	31.50	37.21	38.66	64.64
3/4	.7500	41.51	49.64	52.79	83.32
7/8	.8750	55.69	66.21	71.56	113.04
1"	1.0000	69.47	83.22	89.43	141.05

AVAILABLE IN SPECIAL LENGTHS, DIAMETERS,
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HARDENED & GROUND TOOL STEEL BLANKS

TWELVE INCH LENGTHS

HEAT TREATED & GROUND TO A DIAMETER
TOLERANCE OF +.0000 -.0003

SEE PAGE 10 FOR
TYPICAL CHEMICAL
ANALYSIS OF THESE
MATERIALS

DIAMETER	DECIMAL EQUIV.	MATERIAL			
		AISI O1 R/C 60-62 Net Price Each	AISI A2 R/C 58-60 Net Price Each	AISI S7 R/C 58-60 Net Price Each	AISI D2 R/C 60-62 Net Price Each
1/16	.0625	\$24.99	23.86	24.41	36.87
5/64	.078125	24.29	23.65	24.41	36.87
3/32	.09375	16.49	15.79	17.44	28.78
7/64	.109375	17.78	16.94	18.85	30.18
1/8	.1250	18.47	18.41	20.70	28.85
5/32	.15625	19.08	19.54	22.19	26.73
3/16	.1875	18.76	20.43	23.69	32.77
7/32	.21875	18.65	20.58	22.28	31.36
1/4	.2500	19.09	20.98	26.56	39.43
9/32	.28125	21.22	24.26	27.63	40.50
5/16	.3125	23.16	27.03	34.39	52.57
11/32	.34375	26.14	30.06	36.18	54.36
3/8	.3750	26.94	30.98	43.37	68.23
7/16	.4375	36.60	46.16	51.44	87.86
1/2	.5000	41.75	51.72	54.19	90.61
9/16	.5625	51.04	69.24	—	—
5/8	.6250	66.60	77.08	86.47	116.85
3/4	.7500	82.35	100.64	113.39	145.26
7/8	.8750	110.40	140.89	153.77	197.01
1"	1.0000	143.04	162.72	198.81	253.29

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HARDENED & GROUND 440C STAINLESS STEEL BLANKS

SIX & TWELVE INCH LENGTHS

HEAT TREATED TO R/C 58-60 & GROUND
TO A DIAMETER TOLERANCE OF +.0000 -.0003

DIAMETER	DECIMAL EQUIV.	6" LONG	12" LONG
		Net Price Each	Net Price Each
1/16	.0625	\$24.30	53.00
5/64	.078125	21.80	48.00
3/32	.09375	19.30	43.00
7/64	.109375	16.80	38.00
1/8	.1250	20.60	45.87
5/32	.15625	21.98	48.89
3/16	.1875	24.00	49.28
7/32	.21875	19.00	39.28
1/4	.2500	30.64	65.32
9/32	.28125	25.64	55.32
5/16	.3125	31.84	67.08
11/32	.34375	26.84	57.08
3/8	.3750	36.97	80.19
7/16	.4375	38.14	81.23
1/2	.5000	45.54	94.53
9/16	.5625	56.87	123.01
5/8	.6250	62.74	131.35
3/4	.7500	75.28	157.16
7/8	.8750	97.34	204.58
1"	1.0000	109.54	230.28

HEAT TREATED 440C IS ONE OF THE HARDEST STAINLESS STEELS.
IT IS MAGNETIC AND HAS GOOD WEAR RESISTANCE DUE TO HIGH CARBON CONTENT

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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
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 - TYPE B

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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

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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

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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

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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	17.51	25.85	18.57	3/32	19.73	27.01	19.62
3/64	1/16	17.51	25.85	18.57	9/64	19.73	27.01	19.62
1/16	3/32	16.46	23.32	16.88	3/16	17.41	24.69	17.83
5/64	1/8	16.46	23.32	16.88	15/64	17.41	24.69	21.30
3/32	9/64	16.46	23.32	16.88	9/32	17.41	24.69	17.83
7/64	5/32	16.46	23.32	16.88	21/64	17.41	24.69	21.30
1/8	3/16	16.46	23.32	16.88	3/8	17.41	24.69	17.83
9/64	7/32	18.46	26.16	18.04	13/32	18.57	25.85	21.84
5/32	15/64	18.46	26.16	18.04	7/16	18.57	25.85	18.88
11/64	1/4	18.46	26.16	18.04	1/2	18.57	25.85	22.75
3/16	9/32	18.46	26.16	18.04	1/2	18.57	25.85	18.88

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	17.95	18.87
3/64	1/8	1/16	1-1/2	17.95	18.87
1/16	1/8	1/8	1-1/2	17.09	17.96
5/64	1/8	1/8	1-1/2	17.09	17.96
3/32	1/8	3/16	1-1/2	17.09	17.96
7/64	1/8	1/4	1-1/2	17.09	17.96
1/8	1/8	1/4	1-1/2	17.09	17.96
9/64	3/16	5/16	2	23.20	24.33
5/32	3/16	5/16	2	23.20	24.33
11/64	3/16	3/8	2	23.20	24.33
3/16	3/16	3/8	2	23.20	24.33
7/32	1/4	1/2	2-1/2	28.77	30.17
1/4	1/4	1/2	2-1/2	28.77	30.17
5/16	5/16	1/2	2-1/2	39.74	41.75
3/8	5/16	1/2	2-1/2	42.50	44.61

ALSO AVAILABLE:

- 4 Flute Ball
- 2 Flute Single End
- 3 Flute
- 4 Flute Single End
- Decimal Sizes .006 - .187
- Single End Carbide
- Metric Sizes
- Ball End Carbide

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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	1¼	8.80	—	33.98
0000	1/8	.015	.015	1¼	8.08	—	33.98
000	1/8	.020	.020	1¼	7.66	—	21.70
00	1/8	.025	.025	1¼	7.66	21.70	21.70
0	1/8	1/32	1/32	1¼	7.66	21.70	21.70
1	1/8	3/64	3/64	1¼	5.18	9.73	9.73
2	3/16	5/64	5/64	1½	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	2½	5.83	10.70	10.70
4½	3/8	9/64	9/64	2½	8.97	14.67	14.67
5	7/16	3/16	3/16	2¾	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	3¼	20.02	34.96	34.96
8	3/4	5/16	5/16	3½	27.85	49.04	49.04
9	7/8	11/32	11/32	3¾	52.30	—	—
10	1"	3/8	3/8	3¾	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	1¼	6.16	16.06	21.52
12	3/16	1/16	1/16	.150	1½	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	2½	6.75	17.48	23.11
15	7/16	5/32	5/32	.350	2¾	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	3¼	23.49	64.14	83.51
18	3/4	1/4	1/4	.600	3½	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

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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		1/8	1/8	-	1½	6.86
3/16-SF		3/16	3/16	-	1½	7.33
1/4-SF		1/4	1/4	-	2	7.63
5/16-SF		5/16	1/4	7/8	1¾	8.96
3/8-SF		3/8	1/4	7/8	1¾	10.37
1/2-SF		1/2	1/4	1½	2¾	13.33
	30° 41° 45° 50° AND 60°					
5/8-SF		5/8	3/8	1½	2¾	18.94
3/4-SF		3/4	1/2	1½	2¾	25.37
1-SF		1	1/2	1½	2¾	38.91
1¼-SF		1¼	3/4	1¾	3¾	62.44
1½-SF		1½	3/4	1¾	3¾	85.76
1¾-SF		1¾	1	2¾	4¾	116.10
2-SF		2	1	2¾	4¾	147.00
2½-SF		2½	1	2¾	4¾	248.87
3-SF		3	1	2¾	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

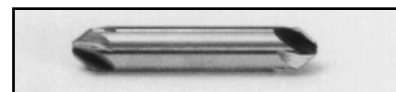
Tool No.	C/L Angles Available	Body Dia.	Shank Dia.	Shank Length	O/A Length	Price Each
CK-1/8		1/8	1/8	-	1½	7.54
CK-3/16		3/16	3/16	-	1½	8.10
CK-1/4		1/4	3/16	3/4	1½	8.14
	30° 41° 45° 50° AND 60°					
CK-5/16		5/16	1/4	7/8	1¾	9.99
CK-3/8		3/8	1/4	7/8	1¾	11.14
CK-1/2		1/2	3/8	1¾	2¾	14.10
CK-5/8		5/8	3/8	1¾	2¾	20.19
CK-3/4		3/4	1/2	1¾	2¾	26.96
CK-7/8		7/8	1/2	1¾	2¾	35.36
CK-1		1	1/2	1¾	2¾	41.49



CARBIDE

Tool No.	C/L Angles Available	Body Dia.	Shank Dia.	Shank Length	O/A Length	Price Each
CK-1/8-W		1/8	1/8	-	1½	9.81
CK-3/16-W		3/16	3/16	-	2	12.34
CK-1/4-W		1/4	1/4	-	2	15.77
	30° 41° 45° 50° AND 60°					
CK-5/16-W		5/16	1/4	2	2¾	23.61
CK-3/8-W		3/8	1/4	2	2¾	30.51
CK-1/2-W		1/2	3/8	2	2¾	42.47
CK-5/8-W		5/8	3/8	2	2¾	58.37
CK-3/4-W		3/4	1/2	2	2¾	71.44
CK-7/8-W		7/8	1/2	2	2¾	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		1/8	1½	12.86
CK-3/16-DE	30° 41° 45° 50° 60°	3/16	2	14.01
CK-1/4-DE		1/4	2	14.36
CK-3/8-DE		3/8	2½	24.26
CK-1/2-DE		1/2	3	35.19
CK-5/8-DE		5/8	3¾	52.76

CARBIDE

Tool No.	C/L Angles Available	Diameter	O/A Length	Price Each
CK-1/8-W-DE		1/8	1½	17.61
CK-3/16-W-DE	30° 41° 45° 50° 60°	3/16	2	25.37
CK-1/4-W-DE		1/4	2	34.59
CK-3/8-W-DE		3/8	2½	55.97
CK-1/2-W-DE		1/2	3	77.53
CK-5/8-W-DE		5/8	3¾	107.44

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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

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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	13.32	13.32	15.96
67	.0320	14.10	9.78	15.96
66	.0330	14.10	9.78	15.96
65	.0350	14.10	9.78	15.96
64	.0360	14.10	9.78	15.96
63	.0370	14.10	9.78	15.96
62	.0380	14.10	9.78	15.96
61	.0390	14.10	8.01	15.96
1mm	.0394	14.10	16.23	—
60	.0400	14.10	16.23	15.71
59	.0410	14.10	16.23	15.71
58	.0420	14.10	16.23	15.71
57	.0430	14.10	16.23	15.71
56	.0465	14.10	16.23	15.71
3/64	.0469	14.10	16.23	15.71
55	.0520	14.10	16.23	15.71
54	.0550	14.10	16.23	15.71
1.5mm	.0591	14.10	16.23	—
53	.0595	14.10	16.23	15.71
1/16	.0625	14.10	16.23	15.71
52	.0635	14.10	16.23	15.71
51	.0670	11.35	13.08	12.66
50	.0700	11.35	13.08	12.66
49	.0730	11.35	13.08	12.66
48	.0760	11.35	13.08	12.66
5/64	.0781	11.35	13.08	12.66
47	.0785	11.35	13.08	12.66
2mm	.0787	11.35	13.08	—
46	.0810	11.35	13.08	12.66
45	.0820	11.35	13.08	12.66
44	.0860	11.35	13.08	12.66
43	.0890	11.35	13.08	12.66
42	.0935	11.35	13.08	12.66
3/32	.0937	10.25	12.96	12.66
41	.0960	11.48	13.18	12.76
40	.0980	11.48	13.18	12.76
2.5mm	.0984	11.48	13.18	—

Size	Decimal	Price		
		700	740	700C
39	.0995	11.48	13.18	12.76
38	.1015	11.48	13.18	12.76
37	.1040	11.48	13.18	12.76
36	.1065	11.48	13.18	12.76
7/64	.1094	11.84	13.56	13.14
35	.1100	11.84	13.56	13.14
34	.1110	11.84	13.56	13.14
33	.1130	11.84	13.56	13.14
32	.1160	11.84	13.56	13.14
3mm	.1181	11.84	13.56	—
31	.1200	11.84	13.56	13.14
.1240	.1240	11.84	13.56	13.14
1/8	.1250	9.44	12.24	10.51
.1260	.1260	11.84	13.56	13.14
30	.1285	11.84	13.56	13.14
29	.1360	14.10	16.23	15.11
3.5mm	.1378	14.10	16.23	—
28	.1405	14.10	16.23	15.11
9/64	.1406	14.10	16.23	15.11
27	.1440	14.10	16.23	15.11
26	.1470	14.10	16.23	15.11
25	.1495	14.10	16.23	15.11
24	.1520	14.10	16.23	15.11
23	.1540	14.10	16.23	15.11
5/32	.1562	14.10	16.23	15.11
22	.1570	14.10	16.23	15.11
4mm	.1575	14.10	16.23	—
21	.1590	15.09	17.32	16.12
20	.1610	15.09	17.32	16.12
19	.1660	15.09	17.32	16.12
18	.1695	15.09	17.32	16.12
11/64	.1719	15.09	17.32	16.12
17	.1730	15.09	17.32	16.12
16	.1770	15.09	17.32	16.12
4.5mm	.1772	15.09	17.32	16.12
15	.1800	15.09	17.32	16.12
14	.1820	15.09	17.32	16.12

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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	15.09	17.32	16.77	K	.2810	20.37	22.43	27.33
.1865	.1865	15.09	17.32	16.77	9/32	.2812	19.36	21.02	25.96
3/16	.1875	13.56	16.46	15.23	L	.2900	20.37	22.43	27.33
.1885	.1885	15.09	17.32	16.79	M	.2950	20.37	22.43	27.33
12	.1890	15.09	17.32	16.79	7.5mm	.2953	20.37	22.43	27.33
11	.1910	16.89	19.43	19.50	19/64	.2969	20.37	22.43	27.33
10	.1935	16.89	19.43	19.50	N	.3020	20.37	22.43	27.33
9	.1960	16.89	19.43	19.50	.3115	.3115	19.36	21.29	25.96
5mm	.1968	16.89	19.43	19.50	5/16	.3125	18.36	20.19	24.58
8	.1990	16.89	19.43	19.50	.3135	.3135	19.36	21.29	25.96
7	.2010	16.89	19.43	19.50	8mm	.3150	20.37	22.43	—
13/64	.2031	16.89	19.43	19.50	O	.3160	20.37	22.43	27.33
6	.2040	16.89	19.43	19.50	P	.3230	21.81	23.99	29.44
5	.2055	16.89	19.43	19.50	21/64	.3281	21.81	23.99	29.44
4	.2090	16.89	19.43	19.50	Q	.3320	21.81	23.99	29.44
3	.2130	16.89	19.43	19.50	8.5mm	.3346	21.81	23.99	—
5.5mm	.2165	16.89	19.43	—	R	.3390	21.81	23.99	29.44
7/32	.2187	16.89	19.43	19.50	11/32	.3437	21.81	23.99	29.44
2	.2210	17.19	19.77	19.86	S	.3480	22.00	24.20	29.95
1	.2280	17.34	19.95	19.86	9mm	.3543	22.00	24.20	—
A	.2340	17.34	19.95	19.86	T	.3580	22.00	24.20	29.95
15/64	.2344	17.34	19.95	19.86	23/64	.3594	22.00	24.20	29.95
6mm	.2362	18.28	20.10	20.16	U	.3680	22.00	24.20	29.95
B	.2380	18.28	20.10	20.16	.3740	.3740	20.89	22.97	28.41
C	.2420	18.28	20.10	20.16	9.5mm	.3740	20.89	22.97	—
D	.2460	18.28	20.10	18.32	3/8	.3750	19.80	21.78	26.92
.2490	.2490	16.46	21.45	18.13	.3760	.3760	20.89	22.97	28.41
1/4	.2500	15.54	17.11	16.97	V	.3770	23.91	26.34	36.47
.2510	.2510	16.73	21.45	18.32	W	.3860	23.91	26.34	36.47
6.5mm	.2559	18.28	20.10	—	25/64	.3906	23.91	26.34	36.47
F	.2570	18.28	20.10	20.16	10mm	.3937	23.91	26.34	—
G	.2610	18.28	20.10	20.16	X	.3970	23.91	26.34	36.47
17/64	.2656	20.37	22.43	27.33	Y	.4040	24.83	27.32	36.47
H	.2660	20.37	22.43	27.33	13/32	.4062	24.83	27.32	36.47
I	.2720	20.37	22.43	27.33	Z	.4130	24.83	27.32	36.47
7mm	.2756	20.37	22.43	—	10.5mm	.4134	24.83	27.32	—
J	.2770	20.37	22.43	27.33	27/64	.4219	24.83	27.32	36.47

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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	24.83	27.32	—	18.5mm	.7283	49.47	—	—
.4365	.4365	23.59	27.32	36.47	19mm	.7480	54.79	—	—
7/16	.4375	23.59	25.93	34.68	3/4	.7500	47.41	49.83	69.70
.4385	.4385	23.59	27.32	36.47	19.5mm	.7677	52.76	—	—
11.5mm	.4528	27.04	29.74	—	25/32	.7812	51.14	54.04	72.25
29/64	.4531	27.04	29.74	41.81	20mm	.7874	56.49	—	—
15/32	.4687	27.04	29.74	41.81	20.5mm	.8071	56.49	—	—
12mm	.4724	27.04	29.74	—	13/16	.8125	51.14	54.04	72.25
31/64	.4844	27.04	29.74	41.81	21mm	.8268	56.49	—	—
12.5mm	.4921	27.04	29.74	—	27/32	.8437	60.49	63.97	88.91
.4990	.4990	25.67	29.74	41.81	21.5mm	.8465	65.84	—	—
1/2	.5000	25.67	28.23	39.71	22mm	.8661	65.84	—	—
.5010	.5010	25.67	29.74	41.81	7/8	.8750	61.90	65.42	90.99
13mm	.5118	33.49	—	—	22.5mm	.8858	67.23	—	—
17/32	.5312	33.20	35.10	46.92	23mm	.9055	67.23	—	—
13.5mm	.5315	34.84	—	—	29/32	.9062	66.70	70.53	98.04
14mm	.5512	33.60	—	—	23.5mm	.9252	72.03	—	—
9/16	.5625	32.00	33.85	47.06	15/16	.9375	66.70	70.53	98.04
14.5mm	.5709	33.60	—	—	24mm	.9449	72.03	—	—
15mm	.5906	33.60	—	—	24.5mm	.9646	72.03	—	—
19/32	.5937	32.00	33.85	47.06	31/32	.9687	74.71	78.98	109.80
15.5mm	.6102	39.23	—	—	25mm	.9843	76.47	—	—
5/8	.6250	37.49	42.72	54.90	1	1.0000	75.41	79.00	110.84
16mm	.6299	39.23	—	—	1-1/16	1.0625	83.60	88.39	122.84
16.5mm	.6496	39.23	—	—	1-1/8	1.1250	88.81	93.95	130.56
21/32	.6562	42.24	41.55	62.07	1-3/16	1.1875	104.06	110.01	152.96
17mm	.6693	44.31	—	—	1-1/4	1.2500	110.27	116.60	162.07
11/16	.6875	42.24	44.65	62.07	1-5/16	1.3125	128.61	135.98	189.04
17.5mm	.6890	47.60	—	—	1-3/8	1.3750	135.13	142.93	198.69
18mm	.7087	47.60	—	—	1-7/16	1.4375	144.94	153.26	213.06
23/32	.7187	47.11	49.83	69.29	1-1/2	1.5000	156.06	164.99	229.41

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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 $\frac{3}{8}$	21.82
	1/64 O/S	400	.1270	1/8	.1990	9/16	.1562	3 $\frac{3}{8}$	22.80
	1/32 O/S	300	.1430	1/8	.2150	9/16	.1562	3 $\frac{3}{8}$	22.80
5	Std.	500	.1250	5/32	.2050	5/8	.1875	4 $\frac{1}{8}$	21.82
	1/64 O/S	400	.1400	5/32	.2210	5/8	.1875	4 $\frac{1}{8}$	22.80
	1/32 O/S	300	.1560	5/32	.2370	5/8	.1875	4 $\frac{1}{8}$	22.80
6	Std.	500	.1380	3/16	.2270	3/4	.2188	4 $\frac{5}{8}$	23.11
	1/64 O/S	400	.1530	3/16	.2430	3/4	.2188	4 $\frac{5}{8}$	24.14
	1/32 O/S	300	.1690	3/16	.2590	3/4	.2188	4 $\frac{5}{8}$	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 $\frac{1}{4}$	25.29
	1/64 O/S	400	.2050	1/4	.3280	7/8	.2812	5 $\frac{1}{4}$	25.89
	1/32 O/S	300	.2210	1/4	.3440	7/8	.2812	5 $\frac{1}{4}$	25.89
1/4	Std.	500	.2500	9/32	.3800	1	.3125	5 $\frac{5}{8}$	26.57
	1/64 O/S	400	.2650	9/32	.3960	1	.3125	5 $\frac{5}{8}$	27.77
	1/32 O/S	300	.2810	9/32	.4120	1	.3125	5 $\frac{5}{8}$	27.77
5/16	Std.	500	.3125	5/16	.4740	1	.3750	6 $\frac{1}{8}$	33.20
	1/64 O/S	400	.3280	5/16	.4890	1	.3750	6 $\frac{1}{8}$	34.70
	1/32 O/S	300	.3430	5/16	.5040	1	.3750	6 $\frac{1}{8}$	34.70
3/8	Std.	500	.3750	3/8	.5690	1 $\frac{1}{4}$	.5000	6 $\frac{1}{2}$	35.66
	1/64 O/S	400	.3900	3/8	.5850	1 $\frac{1}{4}$	.5000	6 $\frac{1}{2}$	37.26
	1/32 O/S	300	.4060	3/8	.6010	1 $\frac{1}{4}$	.5000	6 $\frac{1}{2}$	37.26
7/16	Std.	500	.4370	7/16	.6610	1 $\frac{1}{4}$	.5000	7	42.85
	1/64 O/S	400	.4520	7/16	.6760	1 $\frac{1}{4}$	.5000	7	44.77
	1/32 O/S	300	.4680	7/16	.6910	1 $\frac{1}{4}$	.5000	7	44.77
1/2	Std.	500	.5000	1/2	.7550	1 $\frac{1}{2}$	.5000	7 $\frac{1}{2}$	49.07
	1/64 O/S	400	.5150	1/2	.7710	1 $\frac{1}{2}$	.5000	7 $\frac{1}{2}$	51.29
	1/32 O/S	300	.5310	1/2	.7870	1 $\frac{1}{2}$	.5000	7 $\frac{1}{2}$	51.29
5/8	Std.	500	.6250	5/8	.9690	1 $\frac{1}{2}$	.6250	7 $\frac{5}{8}$	80.04
	1/64 O/S	400	.6400	5/8	.9840	1 $\frac{1}{2}$	.6250	7 $\frac{5}{8}$	83.66
	1/32 O/S	300	.6560	5/8	1.0000	1 $\frac{1}{2}$	.6250	7 $\frac{5}{8}$	83.66
3/4	Std.	500	.7500	3/4	1.1560	1 $\frac{5}{8}$	.7500	7 $\frac{3}{4}$	93.13
	1/64 O/S	400	.7650	3/4	1.1720	1 $\frac{5}{8}$	.7500	7 $\frac{3}{4}$	97.34
	1/32 O/S	300	.7810	3/4	1.1880	1 $\frac{5}{8}$	.7500	7 $\frac{3}{4}$	97.34
7/8	Std.	500	.8750	7/8	1.3440	1 $\frac{7}{8}$	.8750	8	113.41
	1/64 O/S	400	.8910	7/8	1.3590	1 $\frac{7}{8}$	.8750	8	118.53
	1/32 O/S	300	.9060	7/8	1.3750	1 $\frac{7}{8}$	.8750	8	118.53
1	Std.	500	1.0000	1	1.5310	2	1	8 $\frac{1}{2}$	143.87
	1/64 O/S	400	1.0150	1	1.5470	2	1	8 $\frac{1}{2}$	150.36
	1/32 O/S	300	1.0310	1	1.5630	2	1	8 $\frac{1}{2}$	150.36

O/S = Oversize

Sets Available On Request

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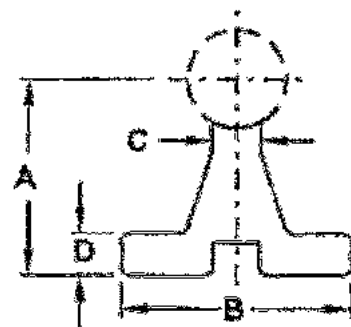
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SHAFT SUPPORT RAILS & TWIN PILLOW BLOCKS

For effective, low cost continuous or intermittent support, extruded aluminum support rail is available in a full range of sizes (see specification chart below). These rails can be supplied with or without mounting holes and can be used vertically or horizontally to provide optimum rigidity. Available in standard lengths of 24" + 0", -1/8"...which can be easily cut to meet shorter length requirements.

EXTRUDED ALUMINUM SUPPORT RAILS

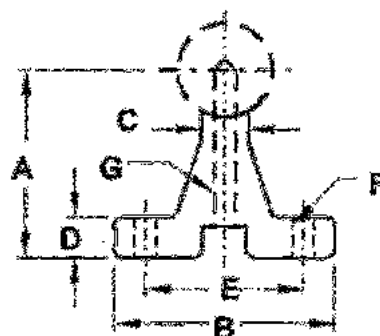
Part No.	Nom. Shaft Size	Price Each	*A ±.002"	B	C	D	*E	*F	*G	Wt. per 24" (ths.)
SR-8	1/2	*Call for Pricing	1.125	1 1/2	1/4	3/16	1	#8	#6 or #8	1.2
SR-10	5/8		1.125	1 1/2	5/16	1/4	1 1/2	#8	#6 or #8	1.6
SR-12	3/4		1.500	1 1/2	3/8	1/4	1 1/2	#10	#8 or #10	2.0
SR-16	1		1.750	2 1/2	1/2	1/4	1 1/2	1/4	#10 or 1/4	2.8
SR-20	1 1/4		2.125	2 1/2	9/16	5/16	1 1/2	5/16	1/4 or 5/16	4.2
SR-24	1 1/2		2.500	3	11/16	3/8	2 1/4	5/16	5/16 or 3/8	5.2
SR-32	2"		3.250	3 3/4	7/8	1/2	2 1/2	3/8	3/8 or 1/2	8.4



- *A - Dimension will vary with the shaft diameter.
- E - Suggested location for mounting hole.
- F - Maximum mounting bolt size to clear pillow blocks.
- G - Recommended thread for screws to attach shaft.
NC or NF Class 2 threads may be used.

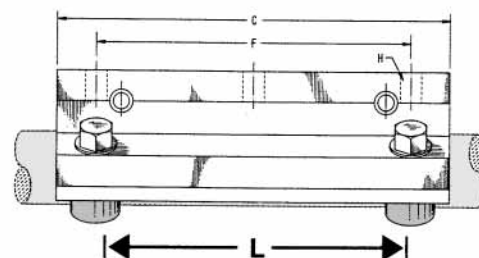
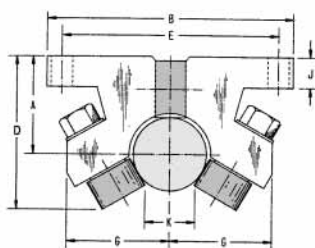
EXTRUDED ALUMINUM support rails with pre-drilled holes to mate with pre-drilled shafts

Part No.	Shaft Diameter	Net Price	*A ±.002"	B	C	D	E	F		*G		Approx. Wt. In Lbs Per 24"
								Bolt	Hole	Screw	Hole	
SR-8-PD	1/2	*Call for Pricing	1.125	1 1/2	1/4	3/16	1	6	.169	6-32x7/8	.169	1.2
SR-10-PD	5/8		1.125	1 1/2	5/16	1/4	1 1/2	8	.193	8-32x7/8	.193	1.6
SR-12-PD	3/4		1.500	1 1/2	3/8	1/4	1 1/2	10	.221	10-32x1 1/4	.221	2.0
SR-16-PD	1		1.750	2 1/2	1/2	1/4	1 1/2	1/4	.281	1/4-20x1 1/2	.281	2.8
SR-20-PD	1 1/4		2.125	2 1/2	9/16	5/16	1 1/2	5/16	.343	5/16-18x1 1/4	.343	4.2
SR-24-PD	1 1/2		2.500	3	11/16	3/8	2 1/2	5/16	.343	3/8-16x2	.406	5.2
SR-32-PD	2		3.250	3 3/4	7/8	1/2	2 1/2	3/8	.406	1/2-13x2 1/2	.531	8.4



Pre-drilled support rails are stocked for immediate delivery in standard 24" lengths, but can be easily cut to size. When longer shafts are to be supported, the rails can be continuously mounted end-to-end or intermittently mounted to any desired length.

DIMENSIONS & LOAD RATINGS FOR TWIN PILLOW BLOCKS



Twin Pillow Block Model Number	Shaft Diameter		Price Each	Dynamic Load Rating (Pounds)	Wt. (Lbs)	A ±.003	B	C	D	E ±.005	F ±.005	G	H		J ±.005	K	L ±.005
	Nom.	Max.											Bolt	Hole			
TWN-8-OPN	1/2"	.4995	*Call for Pricing	800	.5	.687	2	3 1/2	1 1/2	1.688	2.500	1 1/8	#6	5/16	.240	5/16	1.500
TWN-10-OPN	5/8"	.6245		1000	.9	.875	2 1/2	4	1 1/2	2.125	3.000	1 1/8	#8	3/16	.270	3/8	2.125
TWN-12-OPN	3/4"	.7495		1200	1.2	.937	2 3/4	4 1/2	1 1/8	2.375	3.500	1 1/8	#8	3/16	.300	7/16	2.500
TWN-16-OPN	1"	.9995		1910	2.3	1.187	3 1/4	6	2	2.875	4.500	1 1/4	#10	7/32	.360	1 1/8	3.750
TWN-20-OPN	1 1/4"	1.2495		2800	3.8	1.500	4	7 1/2	2 1/8	3.500	5.500	1 1/2	#10	7/32	.424	1 1/8	4.625
TWN-24-OPN	1 1/2"	1.4994		3320	6.5	1.750	4 3/4	9	2 1/2	4.125	6.500	1 3/4	1/2	9/32	.474	1 1/8	5.500
TWN-32-OPN	2"	1.9994		4800	12.8	2.125	6	12	3 1/2	5.250	10.500	2 1/4	5/8	13/32	.600	1 3/4	8.250

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FRACTIONAL CASE HARDENED AND GROUND SHAFTING

SOLID AISI C-1060 CASE HARDENED STEEL SHAFTS (ROCKWELL 60 to 65 C)

Nominal Diameter	Tolerance Code			Price Per Inch of Length		Weight Per Inch (Lb.)	Min. Depth of Hardness	Max. Length (feet)
	A	B	R	Codes A, B	Code R			
1/2	.4985/.4990	.4990/.4995	.4998/.5000	*Call for Pricing	*Call for Pricing	.055	.060	15
5/8	.6235/.6240	.6240/.6245	.6248/.6250			.086	.060	15
3/4	.7485/.7490	.7490/.7495	.7498/.7500			.125	.060	15
7/8	—	.8740/.8745	.8748/.8750			.170	.060	12
1	.9985/.9990	.9990/.9995	.9998/1.0000			.222	.080	15
1 1/8	—	1.1240/1.1245	1.1248/1.1250			.281	.080	12
1 1/4	1.2485/1.2490	1.2490/1.2495	1.2498/1.2500			.348	.080	15
1 1/2	1.4984/1.4989	1.4989/1.4994	1.4997/1.5000			.500	.080	15
1 3/4	—	1.7490/1.7495	1.7497/1.7500			.681	.100	15
2	1.9980/1.9987	1.9987/1.9994	1.9997/2.0000			.890	.100	15
2 1/2	2.4977/2.4985	2.4985/2.4993	2.4996/2.5000			1.391	.100	15
3	2.9974/2.9983	2.9983/2.9992	2.9996/3.0000			2.003	.100	12

SOLID AISI 440C CASE HARDENED STAINLESS STEEL SHAFTS (ROCKWELL 50 to 55 C)

Nominal Diameter	Tolerance Code		Price Per Inch of Length	Weight Per Inch	Minimum Depth of Hardness	Maximum Length (feet)
	A	B				
1/2	.4985/.4990	.4990/.4995	*Call for Pricing	.055	.060	15
5/8	.6235/.6240	.6240/.6245		.086	.060	12
3/4	.7485/.7490	.7490/.7495		.125	.060	12
1	.9985/.9990	.9990/.9995		.222	.080	12
1 1/4	1.2485/1.2490	1.2490/1.2495		.348	.080	12
1 1/2	1.4984/1.4989	1.4989/1.4994		.500	.080	12
2	1.9980/1.9987	1.9987/1.9994		.890	.100	12

PRICING INFORMATION

To determine the price of a shaft, use the price per inch and when a shaft length ends in a fraction, price to the next full inch. However, there is a minimum charge of \$3.00 per shaft.

There is a \$15.00 set-up charge per diameter per shipment to cover cutoff, handling and boxing.

STANDARD SHAFT SPECIFICATIONS

Solid AISI C-1060 Steel Shafts are case hardened to Rockwell 60 to 65 C, and AISI 440C Stainless to Rockwell 50 to 55 C. Tubular 52100 shafts are case hardened to Rockwell 56 to 63 C.

Shafts up to 1 1/4" diameter are cut to required lengths within ± 1/32" and to within ± 1/16" for 1 3/8" to 2" diameter, and to within ± 1/8" for 2 1/2" & 3".

Straightness is held to within .001" to .002" per foot cumulative and surface finish is maintained between 10 and 16 micro inches RMS.

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METRIC CASE HARDENED AND GROUND SHAFTING

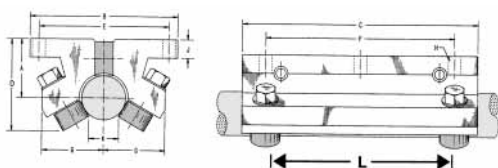
METRIC DIAMETER SOLID AISI C-1060 CASE HARDENED STEEL SHAFTS (ROCKWELL 60 to 65 C)

Nominal Diameter (mm)	Metric Tolerance (inch)	Price per Inch of Length	Weight Per Inch	Minimum Depth of Hardness	Maximum Length (feet)
8	.3146/.3150	*Call for Pricing	.022	.040	11
10	.3932/.3937		.034	.040	15
12	.4720/.4724		.050	.060	15
16	.6295/.6299		.088	.060	15
20	.7869/.7874		.138	.060	15
25	.9838/.9843		.216	.080	15
30	1.1806/1.1811		.311	.080	15
40	1.5743/1.5748		.553	.080	15
50	1.9679/1.9685		.864	.100	15

METRIC DIAMETER SOLID AISI 440C CASE HARDENED STAINLESS STEEL SHAFTS (ROCKWELL 50 to 55 C)

Nominal Diameter (mm)	Metric Tolerance (inch)	Price per Inch of Length	Weight Per Inch	Minimum Depth of Hardness	Maximum Length (feet)
8	.3146/.3150	*Call for Pricing	.022	.040	14
10	.3932/.3937		.034	.040	14
12	.4720/.4724		.050	.060	15
16	.6295/.6299		.088	.060	12
20	.7869/.7874		.138	.060	12
25	.9838/.9843		.216	.080	12
30	1.1806/1.1811		.311	.080	12
40	1.5743/1.5748		.553	.080	12
50	1.9679/1.9685		.864	.100	12

METRIC DIAMETER SOLID AISI C-1060 CASE HARDENED STEEL SHAFTS (ROCKWELL 60 to 65 C) WITH PRE-DRILLED AND TAPPED MOUNTING HOLES



Nominal Diameter (mm)	Metric Tolerance (inch)	Price per Inch of Length	"X" Hole spacing ± .015 Non-cumulative ^U	Tap Size	Maximum Length (feet)
12 PD	.4720/.4724	*Call for Pricing	75 mm	M4 x .7	15
16 PD	.6295/.6299		100 mm	M5 x .8	15
20 PD	.7869/.7874		100 mm	M6 x 1	15
25 PD	.9838/.9843		120 mm	M8 x 1.25	15
30 PD	1.1806/1.1811		150 mm	M10 x 1.50	15
40 PD	1.5743/1.5748		200 mm	M10 x 1.50	15
50 PD	1.9679/1.9685		200 mm	M12 x 1.75	15

PRICING INFORMATION

To determine the price of a shaft, use the price per inch and when a shaft length ends in a fraction, price to the next full inch. However, there is a minimum charge of \$3.00 per shaft.

There is a \$15.00 set-up charge per diameter per shipment to cover cutoff, handling and boxing.

STANDARD SHAFT SPECIFICATIONS

Solid AISI C-1060 Steel Shafts are case hardened to Rockwell 60 to 65 C, and AISI 440C Stainless to Rockwell 50 to 55 C. Tubular 52100 shafts are case hardened to Rockwell 56 to 63 C.

Shafts up to 1 1/4" diameter are cut to required lengths within ± 1/32" and to within ± 1/16" for 1 3/8" to 2" diameter, and to within ± 1/8" for 2 1/2" & 3".

Except for 1/4" and 3/8" diameters, straightness is held to within .001" to .002" per foot cumulative and surface finish is maintained between 10 and 16 micro inches RMS.

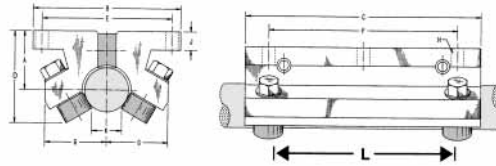
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PRE-DRILLED SHAFTS & SUPPORT RAILS

PRE-DRILLED SHAFTS

Solid AISI C-1060 AND 440 C Stainless Steel Case Hardened Shafts with pre-drilled and tapped mounting holes



Nom. Diameter	Diameter Tolerance	Price per inch		Max Length (FEET)	"X" Hole Spacing±.015 (non-cumulative)	Tap Size (to center of shaft)
		C-1060	440 C			
1/2" PD	.4990/.4995"	*Call for Pricing	*Call for Pricing	15	4"	6-32
5/8" PD	.6240/.6245"			12	4"	8-32
3/4" PD	.7490/.7495			12	6"	10-32
1" PD	.9990/.9995"			12	6"	1/4-20
1 1/4" PD	1.2490/1.2495"			12	6"	5/16-18
1 1/2" PD	1.4989/1.4994"			12	8"	3/8-16
2" PD	1.9987/1.9994"			12	8"	1/2-13

PRICING INFORMATION

To determine the price of a shaft, use the price per inch and when a shaft length ends in a fraction, price to the next full inch. However, there is a minimum charge of \$3.00 per shaft.

There is a \$15.00 set-up charge per diameter per shipment to cover cutoff, handling and boxing.

STANDARD SHAFT SPECIFICATIONS

Solid AISI C-1060 Steel Shafts are case hardened to Rockwell 60 to 65 C, and AISI 440C Stainless to Rockwell 50 to 55 C.

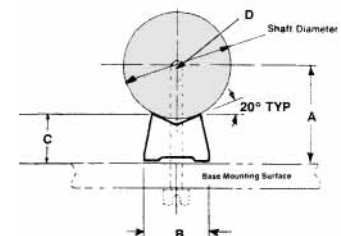
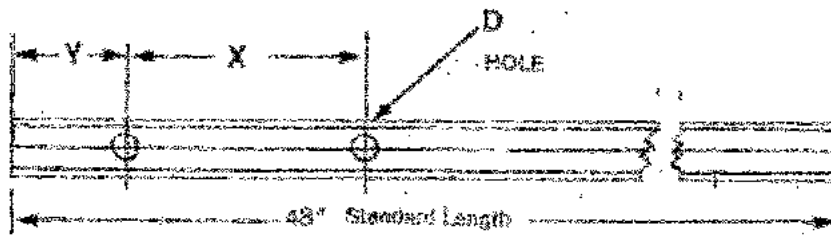
Shafts up to 1 1/4" diameter are cut to required lengths within ± 1/32" and to within ± 1/16" for 1 3/8" to 2" diameter, and to within ± 1/8" for 2 1/2" & 3".

Straightness is held to within .001" to .002" per foot cumulative and surface finish is maintained between 10 and 16 micro inches RMS.

LOW SHAFT SUPPORT RAILS

Part No.	Shaft Diameter	Net Price Each	A ±.002"	B ±.005	C (Ref.)	D		Hole spacing		Approx. Wt. In Lbs Per 48"
						Screw	Hole	X	Y	
LSR-8	.500	*Call for Pricing	.562	.370	.341	6-32	.169	4	2	1.32
LSR-8-PD										
LSR-10	.625		.687	.450	.412	8-32	.193	4	2	1.46
LSR-10-PD										
LSR-12	.750		.750	.510	.420	10-32	.221	6	3	2.25
LSR-12-PD										
LSR-16	1.000		1.000	.690	.560	1/4-20	.281	6	3	4.25
LSR-16-PD										
LSR-20	1.250		1.187	.780	.626	5/16-18	.343	6	3	5.08
LSR-20-PD										
LSR-24	1.500	1.375	.930	.703	3/8-16	.406	8	4	6.72	
LSR-24-PD										
LSR-32	2.000	1.750	1.180	.845	1/2-13	17/32	8	4	11.00	
LSR-32-PD										

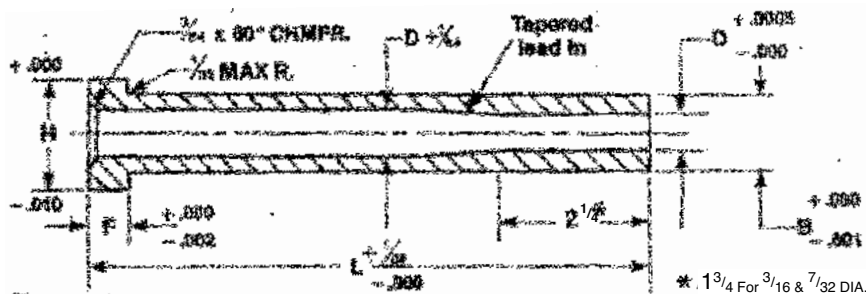
Low shaft support rails permit the design of compact linear motion systems with more than a 40% lower profile. The low shaft support rails are made of AISI C-1010 steel. Continuous or intermittent support is permissible when using linear roller bearing pillow blocks or the open-type linear ball bearing pillow blocks as made by Thomson Industries. LSR-PD rails have pre-drilled mounting holes to match the holes in the pre-drilled and tapped holes in the PD Series shafts described above. Standard length for all low shaft rails is 48".



WILLIAM T. HUTCHINSON CO.

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NITRIDED EJECTOR SLEEVES



Nitrided Ejector Sleeves are made of the finest grade of hot work die steel. The heads are hot-forged for strength. The outside surface is nitrided to a hardness of 64-74 Rockwell "C" and GROUND AFTER NITRIDING FOR STRAIGHTNESS AND FINISH. The bearing diameter is 300 Brinell and is finished, reamed and honed concentric with the O.D. of the sleeve.

B O.D.	D I.D.	H Head Dia.	F Head Thick.	List Price Each								
				L-4"	L-5"	L-6"	L-7"	L-8"	L-9"	L-10"	L-11"	L-12"
3/16	3/32	3/8	3/16	31.52	34.60	37.35	40.70	—	—	—	—	—
7/32	1/8	13.32	3/16	30.69	33.99	36.80	40.15	—	—	—	—	—
1/4	5/32	7/16	3/16	23.43	24.53	26.51	28.99	31.79	35.15	39.60	—	—
5/16	3/16	1/2	1/4	23.98	25.36	27.61	30.42	33.44	36.80	41.25	45.65	46.50
11/32	7/32	9/16	1/4	24.26	25.96	28.16	31.24	34.60	39.05	42.96	—	—
3/8	1/4	5/8	1/4	24.81	26.51	28.99	31.79	35.15	39.60	44.06	48.95	54.45
7/16	5/16	11/16	1/4	25.36	28.16	30.97	33.99	37.90	42.35	46.81	52.25	57.75
1/2	3/8	3/4	1/4	25.96	30.69	33.44	36.80	40.70	48.46	50.16	55.55	61.60
5/8	7/16	7/8	1/4	27.89	33.44	39.05	42.35	46.81	51.26	56.32	62.15	68.20
11/16	1/2	15/16	1/4	29.48	34.60	40.70	44.61	49.06	54.07	59.62	65.45	71.50
3/4	9/16	1	1/4	36.30	40.15	44.00	48.40	52.80	58.30	63.25	69.30	75.35
7/8	5/8	1 1/8	1/4	41.25	45.10	49.50	53.90	58.85	64.35	69.85	76.45	82.50
1"	3/4	1 1/4	1/4	45.65	50.05	54.45	59.40	64.35	70.40	76.45	82.50	89.65

OVERSIZE O.D. EJECTOR SLEEVES AVAILABLE

(+.005 over standard "B" dimension)

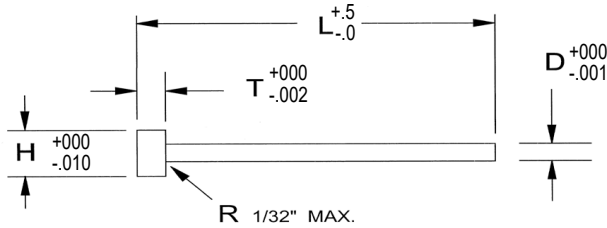
CALL FOR PRICING AND DELIVERY

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EJECTOR PINS

NITRIDED EJECTOR PINS



- H13 Hot Work Die Steel
- Surface Hardness R/C 64-74
- Core Hardness R/C 35-40
- Forged and Annealed Heads
- Body Nitrided
- Honed Finish

STANDARD EJECTOR PINS

D Pin Dia.	H Head Dia.	T Head Thick.	Length			
			L-6"	L-10"	L-14"	L-18"
3/64	1/4	1/8	10.43	13.09	—	—
1/16	1/4	1/8	9.71	12.51	—	—
5/64	1/4	1/8	9.71	12.51	—	—
3/32	1/4	1/8	8.75	9.85	—	—
7/64	1/4	1/8	8.75	9.85	—	—
1/8	1/4	1/8	5.35	5.35	6.70	15.41
9/64	1/4	1/8	5.53	5.70	7.77	14.70
5/32	9/32	5/32	4.97	5.54	7.15	9.98
11/64	11/32	3/16	5.94	6.05	8.36	—
3/16	3/8	3/16	5.19	5.96	7.92	10.40
13/64	3/8	3/16	—	6.63	8.51	—
7/32	13/32	3/16	5.54	6.62	8.34	—
15/64	13/32	3/16	—	7.25	9.36	—
1/4	7/16	3/16	5.96	7.43	9.33	11.97
17/64	7/16	1/4	—	8.51	10.20	—
9/32	7/16	1/4	6.96	8.07	10.51	13.97
19/64	1/2	1/4	—	9.33	11.06	—
5/16	1/2	1/4	7.66	9.94	11.06	15.41
21/64	9/16	1/4	—	10.51	13.70	—
11/32	9/16	1/4	9.05	11.00	13.87	—
23/64	5/8	1/4	—	11.06	14.85	—
3/8	5/8	1/4	9.08	12.23	14.97	20.19
13/32	11/16	1/4	10.01	13.64	17.62	23.21
7/16	11/16	1/4	11.00	14.97	19.10	25.91
15/32	3/4	1/4	13.94	16.40	27.30	28.60
1/2	3/4	1/4	13.16	17.83	23.47	30.97
9/16	13/16	1/4	16.26	22.21	28.25	36.88
5/8	7/8	1/4	18.85	26.06	32.80	41.80
11/16	13/16	1/4	24.83	30.69	43.35	50.24
3/4	1"	1/4	26.26	35.27	44.89	57.44
7/8	1-1/8	1/4	57.49	67.62	114.88	162.25
1"	1-1/4	1/4	60.25	67.62	133.13	172.18

.005 OVERSIZE EJECTOR PINS

D .005 Over Std. Dia.	H Head Dia.	T Head Thick.	Length	
			L-10"	L-14"
3/64	1/4	1/8	—	—
1/16	1/4	1/8	14.56	—
5/64	1/4	1/8	14.56	—
3/32	1/4	1/8	12.79	—
7/64	1/4	1/8	12.79	—
1/8	1/4	1/8	6.75	7.10
9/64	1/4	1/8	6.46	—
5/32	9/32	5/32	6.81	7.92
11/64	11/32	3/16	6.84	—
3/16	3/8	3/16	7.28	8.47
13/64	3/8	3/16	—	—
7/32	13/32	3/16	7.43	—
1/4	7/16	3/16	8.07	10.36
9/32	7/16	1/4	9.09	—
5/16	1/2	1/4	11.35	13.16
11/32	9/16	1/4	12.67	—
23/64	5/8	1/4	—	—
3/8	5/8	1/4	12.67	16.39
13/32	11/16	1/4	14.09	—
7/16	11/16	1/4	15.55	20.98
15/32	3/4	1/4	16.97	—
1/2	3/4	1/4	18.48	24.90

ALSO AVAILABLE IN METRIC SIZES

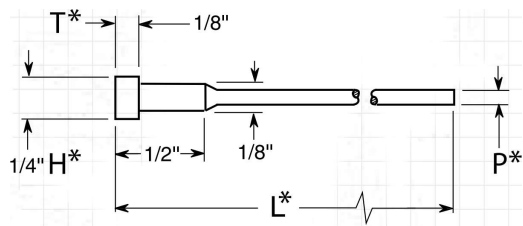
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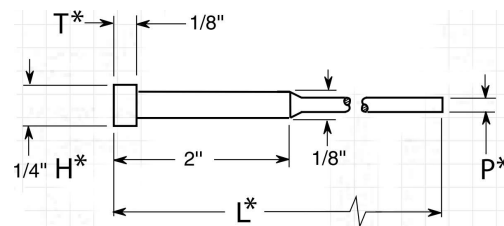
EJECTOR PINS

NITRIDED EJECTOR PINS — SHOULDER TYPE

Ejector pins are made from the best air hardening hot work die steel and heat treated for a tough core. The head is solid forged and annealed to prevent breakage. The body of the pin is nitrided to give a surface hardness of 64-74 Rockwell “C” then honed for a smooth friction free surface.



1/2" SHOULDER PINS



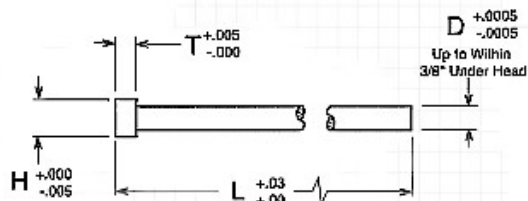
2" SHOULDER PINS

D Pin Dia.	LENGTH		
	6"	10"	14"
3/64	11.01	13.82	17.85
3/64 O.S.*	—	15.35	—
1/16	10.46	12.55	16.76
1/16 O.S.*	—	14.53	—
5/64	10.46	13.02	17.02
5/64 O.S.*	—	14.59	—
3/32	9.36	11.86	16.13
3/32 O.S.*	—	13.30	—
7/64	9.36	11.86	10.47
7/64 O.S.*	—	13.30	—

O.S.*
Pin Diameter is .005
over standard
diameter

D Pin Dia.	LENGTH		
	6"	10"	14"
3/64	10.72	12.35	17.27
3/64 O.S.*	—	14.80	—
1/16	10.36	12.44	15.23
1/16 O.S.*	—	13.92	—
5/64	10.47	12.44	16.16
5/64 O.S.*	—	13.92	—
3/32	8.99	11.21	15.47
3/32 O.S.*	—	12.72	—
7/64	8.99	11.21	15.17
7/64 O.S.*	—	13.10	—

ECONOMY EJECTOR PINS



- Oil Hardening Tool Steel
- Hardness R/C 58/60
- Heads Annealed R/C 42/45
- Ground O.D. ± .0005

BODY DIA (D)	HEAD DIA (H)	HEAD THICK (T)	PRICE EACH		
			4"	6"	10"
1/16	7/64	3/64	6.67	8.42	—
5/64	9/64	3/64	6.16	7.75	—
3/32	5/32	5/64	5.97	7.54	—
7/64	3/16	5/64	6.16	7.69	—
1/8	7/32	3/32	5.41	6.77	9.00
9/64	1/4	7/64	5.41	6.77	9.00
5/32	17/64	1/8	5.41	6.77	9.00
11/64	5/16	1/8	5.67	7.06	9.20
3/16	5/16	9/64	5.67	7.06	9.20
13/64	11/32	5/32	6.15	7.23	9.47

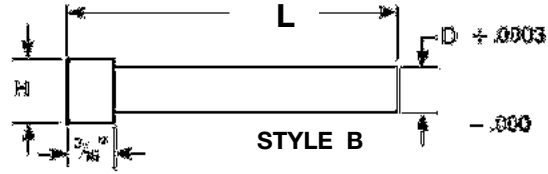
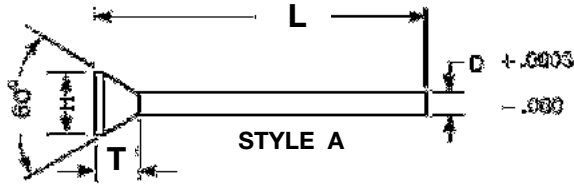
BODY DIA (D)	HEAD DIA (H)	HEAD THICK (T)	PRICE EACH		
			4"	6"	10"
7/32	3/8	5/32	6.63	7.75	9.95
15/64	13/32	11/64	6.77	8.20	10.25
1/4	7/16	3/16	6.77	8.20	10.25
17/64	7/16	1/4	7.93	8.60	10.48
9/32	7/16	1/4	7.93	8.60	10.48
19/64	1/2	1/4	8.42	8.89	10.96
5/16	1/2	1/4	8.42	8.89	10.96
21/64	9/16	1/4	8.63	9.34	12.23
11/32	9/16	1/4	8.63	9.34	12.23
23/64	5/8	1/4	8.89	9.77	13.23
3/8	5/8	1/4	8.89	9.77	13.23

WILLIAM T. HUTCHINSON CO.

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HIGH SPEED STEEL PUNCHES

Hutchinson High Speed Steel Punches are manufactured from the finest quality AISI type M-2 high speed steel, heat treated and tempered to Rockwell C 60-62, then precision ground to uniform close tolerances.



Set-Up Charges (Shaded area only)

2 1/2" - 4" = 35.00

6" - 8" = 45.00

Dia. "D" Increment of .001	H	T	2 1/2"	3 1/2"	4"	6"	8"	10"	12"
.010 - .014	1/32	1/16	2" 6.20 | 7.45	9.92	13.37	—	—	—	—
.015 - .019	1/32	1/16	2" 5.12 | 6.20	8.55	12.40	—	—	—	—
.020 - .029	3/64	1/16	2" 4.14 | 5.01	7.45	11.31	—	—	—	—
.030 - .036	1/16	1/16	3.44	6.86	10.20	—	—	—	—
.037 - .046	5/64	1/16	3.44	6.86	9.44	17.27	28.38	—	—
.047 - .055	3/32	5/64	3.44	5.70	8.86	16.91	26.53	—	—
.056 - .064	7/64	5/64	4.59	5.86	9.01	16.47	28.74	—	—
.065 - .078	1/8	5/64	4.59	5.86	9.01	16.47	27.60	—	—
.079 - .087	9/64	3/32	4.59	5.86	9.01	16.47	26.51	—	—
.088 - .099	5/32	3/32	5.09	6.37	8.38	15.66	24.04	—	—
.100 - .120	11/64	3/32	5.09	6.37	8.38	15.66	24.04	—	—
.121 - .131	3/16	3/32	5.09	6.37	8.38	15.66	24.04	33.50	43.28
.132 - .147	13-64	3/32	5.45	6.71	8.69	14.68	22.39	31.30	40.26
.148 - .163	7/32	3/32	5.45	6.71	8.69	14.68	22.39	31.30	40.26
.164 - .179	15/64	3/32	5.45	6.71	8.69	14.68	22.39	31.30	40.26
.180 - .194	1/4	3/32	6.20	7.63	9.49	16.94	25.41	35.57	45.74
.195 - .210	17/64	3/32	6.20	7.63	9.49	16.94	25.41	35.57	45.74
.211 - .225	9/32	3/32	6.20	7.63	9.49	16.94	25.41	35.57	45.74
.226 - .241	19/64	3/32	7.33	8.66	10.51	18.20	27.07	37.91	48.80
.242 - .257	5/16	3/32	7.33	8.66	10.51	18.20	27.07	37.91	48.80
.258 - .272	21/64	3/16	7.33	8.66	10.51	18.20	27.07	37.91	48.80
.273 - .288	11/32	3/16	7.33	8.66	10.51	18.20	27.07	37.91	48.80
.289 - .304	23/64	3/16	8.49	10.72	11.87	21.58	30.40	42.59	54.63
.305 - .320	3/8	3/16	8.49	10.72	11.87	21.58	30.40	42.59	54.63
.321 - .336	25/64	3/16	8.49	10.72	11.87	21.58	30.40	42.59	54.63
.337 - .352	13/32	3/16	10.42	12.12	14.06	24.29	35.15	49.24	63.31
.353 - .368	27/64	3/16	10.42	12.12	14.06	24.29	35.15	49.24	63.31
.369 - .375	7/16	3/16	10.42	12.12	14.06	24.29	35.15	49.24	63.31
.376 - .436	D +.06 +.09	3/16	12.63	14.97	17.21	27.44	38.48	53.91	69.25
.437 - .484		3/16	14.35	17.72	20.12	30.60	41.78	58.47	75.18
.485 - .562		3/16	16.10	20.68	22.46	32.12	43.43	60.80	78.21
.563 - .625		3/16	18.28	24.26	26.37	36.10	47.39	66.48	85.31
.626 - 1.000	QUOTED ON REQUEST								

WHEN ORDERING, SPECIFY STYLE, DIA. AND LENGTH
SEE PAGE 39 FOR CONVENIENT QUOTATION REQUEST FORM
FOR SPECIAL STYLE A AND STYLE B PUNCHES

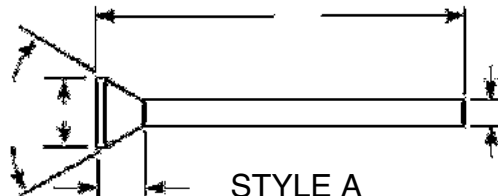
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STEEL PUNCHES

QUOTATION REQUEST FORM

For special Style A and Style B punches, copy and fax to: (908) 688-8296



MATERIAL

HARDNESS
R/C

QUANTITY

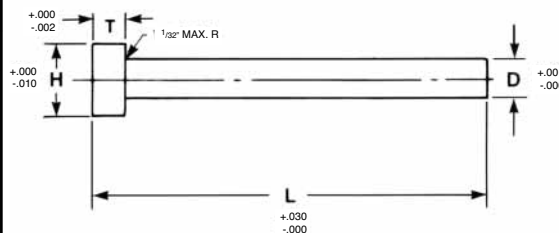
PLEASE INCLUDE ALL TOLERANCES AND CONCENTRICITY REQUIREMENTS

FROM: _____ PHONE: _____

COMPANY: _____ FAX: _____

CORE PINS

D PIN DIA	H HEAD DIA	T HEAD THICK.	STANDARD HARDNESS PRICE EACH			HIGH HARDNESS PRICE EACH		
			3"	6"	10"	3"	6"	10"
3/32	1/4	1/8	9.76	10.04	11.67	10.28	10.73	12.64
7/64	1/4	1/8	10.04	10.41	12.33	10.66	10.62	13.22
1/8	1/4	1/8	6.11	6.21	8.24	6.44	6.80	8.70
9/64	1/4	1/8	6.11	6.47	8.24	6.44	7.01	8.70
5/32	9/32	5/32	6.21	6.44	8.37	6.80	7.01	8.70
11/64	11/32	3/16	6.21	6.44	8.70	6.88	7.12	9.30
3/16	3/8	3/16	6.33	6.57	8.83	6.88	7.36	9.30
13/64	3/8	3/16	6.44	6.80	8.93	7.01	7.48	9.58
7/32	13/32	3/16	6.57	7.01	9.26	7.12	7.58	9.58
1/4	7/16	3/16	7.12	7.48	9.96	7.69	8.16	10.41
9/32	7/16	1/4	7.79	8.16	10.82	8.49	8.93	11.67
5/16	1/2	1/4	8.70	8.91	12.01	9.40	9.76	12.90
11/32	9/16	1/4	9.40	9.76	12.90	10.19	10.74	14.23
3/8	5/8	1/4	10.41	10.82	14.23	11.19	11.76	15.62
13/32	11/16	1/4	11.19	11.67	15.49	12.01	12.79	16.97
7/16	11/16	1/4	12.46	12.79	16.97	13.34	14.03	18.63
15/32	3/4	1/4	13.34	14.03	18.52	14.48	15.24	20.47
1/2	3/4	1/4	14.58	15.18	19.90	15.62	16.49	22.04
9/16	13/16	1/4	—	17.74	23.64	—	19.33	25.79
5/8	7/8	1/4	—	21.16	27.70	—	22.60	30.57
3/4	1"	1/4	—	28.81	37.97	—	31.19	41.84

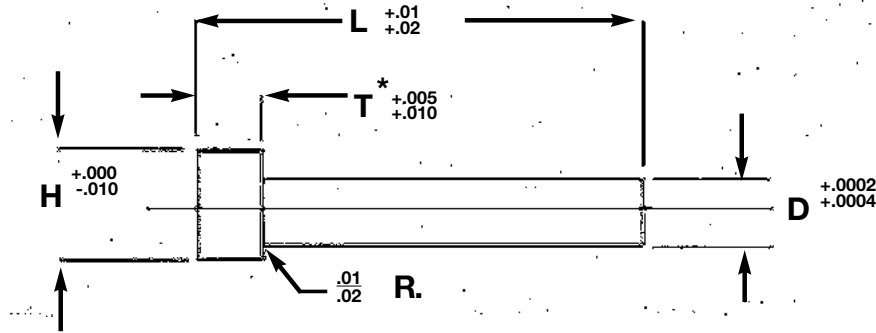


- Standard Hardness R/C 30 - 35
- High Hardness R/C 50 - 54
- Air Hardening Hot Work Die Steel
- Precision Ground After Heat Treating
- Heads Forged and Annealed

WILLIAM T. HUTCHINSON CO.

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PUNCH BLANKS



*OPTIONAL T, A-2 AND M-2 ONLY

Body Diameter D	Diameter H	T*	L Length 1/4" Increments	Price				
				A-2	M-2	D-2	PM M-4	PM 10V
1/8	1/4	1/8 (3/16)	1 1/4 - 3	11.70	12.86	14.80	18.52	21.56
3/16	5/16	1/8 (3/16)	1 1/4 - 3 1/2	11.84	13.84	15.59	20.41	23.71
1/4	3/8	3/16 (1/8)	1 1/4 - 3 1/2	12.17	14.41	16.06	21.41	26.04
5/16	7/16	3/16 (1/8)	1 1/4 - 4	14.13	16.79	17.28	22.66	27.80
3/8	1/2	3/16 (1/8)	1 1/4 - 4	18.42	21.16	21.52	26.18	30.19
7/16	9/16	3/16	1 1/4 - 4	21.04	23.55	24.28	31.55	36.87
1/2	5/8	3/16	1 1/4 - 4	22.57	26.71	27.53	33.30	41.22
5/8	3/4	3/16 (1/4)	1 1/4 - 4	25.65	29.24	30.94	44.27	54.32
3/4	7/8	3/16 (1/4)	1 1/4 - 4	31.26	36.97	38.87	57.36	71.32
1	1 1/8	3/16 (1/4)	1 1/4 - 4	45.30	59.33	62.20	86.37	112.63

EXTRA LONG 6" AND 8"

Body Diameter D	Diameter H	Head Thickness T	Price			
			6"		8"	
			A-2	M-2	A-2	M-2
1/8	1/4	1/8	20.98	25.36	27.47	31.44
3/16	5/16	1/8	22.61	26.41	27.77	33.05
1/4	3/8	3/16	24.08	27.80	28.97	34.62
5/16	7/16	3/16	29.21	33.69	35.50	42.74
3/8	1/2	3/16	31.40	40.35	41.67	49.43
7/16	9/16	3/16	34.81	43.25	45.72	55.19
1/2	5/8	3/16	36.39	44.70	46.73	59.88
5/8	3/4	3/16	38.56	52.36	59.84	75.61
3/4	7/8	3/16	50.60	64.88	71.01	86.91
1"	1 1/8	3/16	79.21	103.77	108.11	138.04

**EXTRA LENGTH 10" & 12"
AVAILABLE ON REQUEST**

M-2 R/C 60-62 D-2 R/C 61-63
 A-2 R/C 60-62 PM-M4 R/C 61-63
 PM-10V R/C 61-63

WILLIAM T. HUTCHINSON CO.

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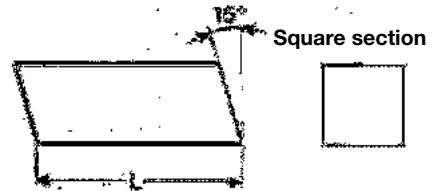
WKE45 SUPER COBALT HSS TOOL BITS

RECTANGULAR		
B A Size	L Overall Length	Net Price Each
1/8x5/8"	6"	41.22
3/16x5/16	4	29.84
1/4x3/8	2½	21.44
1/4x3/8	4	25.53
1/4x1/2	3	23.59
1/4x1/2	4	27.47
1/4x1/2	6	41.99
1/4x3/4	5	45.50
1/4x3/4	6	50.91
1/4x1	6	84.06
5/16x7/16	4	39.57
5/16x1/2	3	29.38
5/16x1/2	6	58.30
5/16x3/4	5*	103.99
5/16x1	6*	104.60
3/8x1/2	3	35.55
3/8x1/2	4	45.25
3/8x1/2	6	54.56
3/8x5/8	4	50.14
3/8x5/8	5	57.53
3/8x5/8	6	56.72
3/8x3/4	4	50.75
3/8x3/4	5	59.61
3/8x3/4	6	66.17
3/8x1	6	124.41
1/2x3/4	4	57.44
1/2x3/4	5	62.94
1/2x3/4	6	77.91
1/2x1	7	120.25
1/2x1¼	7	209.12
1/2x1½	7	255.25
5/8x3/4	5	111.19
5/8x7/8	6	206.56
5/8x1	7	206.03
5/8x1¼	7	250.68
3/4x1	6	204.07
3/4x1¼	6	246.53

METRIC RECTANGULAR		
B A Size	L Overall Length	Net Price Each
3x12mm	90mm	21.50
3x12	200	44.44
4x10	100	26.39
4x10	120*	—
4x16	160	51.57
4x16	200*	54.47
4x20	200*	56.99
5x20	200*	72.56
6x8	70	21.61
6x10	200	57.37
6x12	200	66.73
6x14	140	47.33
6x14	200*	—
6x20	200*	89.09
8x12	160	58.57
8x12	200	70.98
8x16	140	64.70
8x16	160*	—
8x16	200*	82.33
8x20	200*	119.65
10x12	200	82.13
10x14	80	41.69
10x14	200*	—
10x16	160	79.58
10x16	200	100.51
10x20	160	95.82
10x20	200	114.11
10x40	200*	221.47
12x16	200	106.74
12x25	200*	124.88
12x30	200*	162.65
14x20	200*	136.91
16x20	200	163.98
20x25	200*	252.03

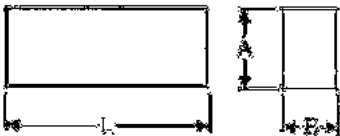
SQUARE		
Size Square	L Overall Length	Net Price Each
3/16"	2½"	10.20
3/16	4	16.99
1/4	2½	11.36
1/4	4	19.11
1/4	6*	27.52
1/4	8*	34.83
5/16	2½	13.69
5/16	3	16.06
5/16	4	21.44
5/16	6	33.17
5/16	8	58.10
3/8	3	18.78
3/8	4	24.85
3/8	6	38.55
3/8	8	63.49
7/16	3½	69.89
1/2	4	33.92
1/2	6	53.16
1/2	8	91.03
5/8	4½	60.36
5/8	6	106.68
3/4	5	86.64
3/4	6	102.13
1	5½	217.45
1	8	309.88

METRIC SQUARE		
Size Square	L Overall Length	Net Price Each
4mm	63mm	11.24
4	100	18.03
5	63	10.42
5	160	27.78
6	63	14.01
6	100	21.50
6	160	30.96
6	200	37.16
7	200	39.71
8	63	18.42
8	100	28.57
8	160	38.90
8	200	44.67
10	125	43.30
10	160	43.90
10	200	54.05
12	100	44.91
12	160	50.64
12	200	60.43
14	100	61.25
14	160	90.74
14	200*	95.34
16	100*	79.81
16	160	114.75
16	200*	134.85
18	200*	175.88
20	160*	177.96
20	200	213.71
25	200*	305.71



* AVAILABLE UNTIL STOCK IS EXHAUSTED

All Toolbits can be custom ground to meet your requirements



WKE45 TYPICAL ANALYSIS					
C	Cr	Mo	W	V	Co
1.40	4.2	3.5	9.0	3.5	11.0

SEE PAGE 13 FOR WKE45 ROUND BLANKS

WILLIAM T. HUTCHINSON CO.

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

SQUARE & FLAT FORM TOOL BITS

**Square - Ground
High Speed Tool Bits**

**Tolerance on Width and
Thickness ±.002**

Ends Beveled 10°



SIZE	M2 R/C 64.5-66	M3 * R/C 65-66.5	M42 R/C 67-69	M34 R/C 65-67	T15PM R/C 65-67	PM M-48 R/C 65-67
1/8 sq. x 2 1/2"	<p>Call for Current Pricing</p>					
3/16 sq. x 2 1/2"						
1/4 sq. x 2 1/2"						
5/16 sq. x 2 1/2"						
3/8 sq. x 3"						
7/16 sq. x 3 1/2"						
1/2 sq. x 4"						
5/8 sq. x 4 1/2"						
3/4 sq. x 5"						
7/8 sq. x 6" *						
1 sq. x 7"						

SIZE	M2 R/C 64.5-66	M3* R/C 65-66.5	M42 R/C 67-69	M34* R/C 65-67	T15PM R/C 65-67
1/4" x 3/8" x 2-1/2"	<p>Call for Current Pricing</p>				
x 3/8" x 3"					
x 1/2" x 3"					
x 1/2" x 4"					
x 1/2" x 6"					
x 3/4" x 5"					
x 1" x 6"					
5/16" x 7/16" x 3"					
x 7/16" x 3-1/2"					
x 1/2" x 3"					
x 5/8" x 4"					
3/8" x 1/2" x 3"					
x 1/2" x 4"					
x 1/2" x 6"					
x 5/8" x 4"					
x 5/8" x 4-1/2"					
x 5/8" x 5"					
x 5/8" x 6"					
x 3/4" x 4"					
x 3/4" x 5"					
x 3/4" x 6"					
x 1" x 6"					
1/2" x 5/8" x 4-1/2"					
x 3/4" x 4"					
x 3/4" x 5"					
x 3/4" x 6"					
x 1" x 7"					
x 1" x 8"					
5/8" x 3/4" x 5"					
x 7/8" x 6"					
x 1" x 7"					
x 1-1/4" x 7"					
x 1-1/2" x 7"					

*** AVAILABLE UNTIL
STOCK IS EXHAUSTED**

**Flat Form - Ground
High Speed Tool Bits**

**Tolerance on Width and
Thickness ±.002
Square Ends**

**Additional Sizes and Materials
Available — Call for Price
and Delivery**

**All Toolbits can be custom
ground to meet your
requirements**

WILLIAM T. HUTCHINSON CO.

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SQUARE & FLAT FORM TOOL BITS

SIZE	M2 R/C 64.5-66	M3* R/C 65-66.5	M42 R/C 67-69	T15 R/C 65-67
3/4" x 1" x 6" x 1" x 7" x 1-1/4" x 7" x 1-1/2" x 7" 7/8" x 1-1/8" x 7" x 1-1/4" x 7" 1" x 1-1/4" x 6"	Call for Current Pricing			

**Flat Form - Ground
High Speed Tool Bits**
Tolerance on Width and
Thickness $\pm .002$
Square Ends

*** AVAILABLE UNTIL
STOCK IS EXHAUSTED**

**Thin Flat Form - Ground
High Speed Tool Bits**
Tolerance on Width and
Thickness $+.002$
 $-.000$
Square Ends

**T15 & T15PM
Long High Speed Tool Bits**
R/C 65-67

SIZE	T15PM
3/16 x sq. x 6" 1/4 x sq. x 6" 1/4 x sq. x 8" 5/16 x sq. x 6" 3/8 x sq. x 6" 3/8 x sq. x 8" 7/16 x sq. x 6" 1/2 x sq. x 6" 1/2 x sq. x 8" 5/8 x sq. x 6" 5/8 x sq. x 8"	Call for Current Pricing

**Tolerance on Width
and Thickness $\pm .002$**
Ends Beveled 10°

SIZE	M2 R/C 62-64	M42 R/C 66-68	T15PM R/C 65-67
1/16" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 3/32" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 1/8" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 5/32" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 3/16" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 1/4" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6"	Call for Current Pricing		

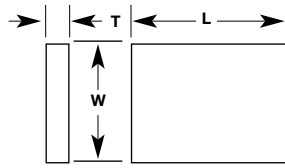
**Typical Analysis of High Speed Steel
Tool Bit Materials**

	C	Cr	Mo	W	V	Co
M2	.85	4.15	5.00	6.30	1.85	—
M3	1.20	4.10	5.00	6.00	3.00	—
M42	1.10	3.75	9.50	1.50	1.15	8.25
T15 & T15PM	1.57	4.00	—	12.25	5.00	5.00
M34	.90	3.75	8.00	1.50	2.05	8.25

WILLIAM T. HUTCHINSON CO.

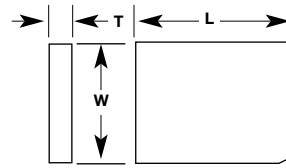
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CARBIDE BLANKS STYLE 1000 & 2000



Style 1000

C-2 GRADE
PREMIUM MEDIUM
GRAIN CARBIDE
WITH 6-8% COBALT



Style 2000

Dimensions				Blank Number	Price	Blank Number	Price
T	W	L	R	STYLE 1000	1 - 249 pcs.	STYLE 2000	1 - 249 pcs.
1/16	1/8	5/8	1/8	1010	0.88	2010	0.88
1/16	3/16	1/4	1/8	1020	0.86	2020	0.86
1/16	1/4	5/16	1/8	1030	0.88	2030	0.88
3/32	3/16	5/16	1/8	1040	0.80	2040	0.80
3/32	3/16	1/2	1/8	1050	1.25	2050	1.25
3/32	1/4	3/8	1/8	1060	1.16	2060	1.16
3/32	1/4	1/2	1/8	1070	1.35	2070	1.35
3/32	5/16	3/8	3/16	1080	1.28	2080	1.20
3/32	3/8	3/8	3/16	1090	1.42	2090	1.27
3/32	3/8	1/2	3/16	1100	1.56	2100	1.62
3/32	7/16	1/2	1/4	1105	1.86	2105	1.86
1/8	3/16	3/4	1/8	1110	1.62	2110	1.56
1/8	1/4	1/2	1/8	1120	1.26	2120	1.39
1/8	1/4	5/8	1/8	1130	1.59	2130	1.74
1/8	1/4	3/4	1/8	1140	2.10	2140	2.10
1/8	5/16	7/16	3/16	1150	1.37	2150	1.37
1/8	5/16	1/2	3/16	1160	1.59	2160	1.59
1/8	5/16	5/8	3/16	1170	1.97	2170	1.97
1/8	3/8	1/2	3/16	1180	1.91	2180	1.91
1/8	3/8	3/4	3/16	1190	2.85	2190	2.79
1/8	1/2	1/2	1/4	1200	2.52	2200	2.52
1/8	1/2	3/4	1/4	1210	3.77	2210	4.38
1/8	3/4	3/4	1/4	1215	5.64	2215	5.58
5/32	3/8	9/16	3/16	1220	2.63	2220	2.63
5/32	3/8	3/4	3/16	1230	3.50	2230	3.50
5/32	5/8	5/8	1/4	1240	4.87	2240	4.81
3/16	5/16	7/16	3/16	1250	2.02	2250	2.02
3/16	5/16	5/8	3/16	1260	2.90	2260	2.90
3/16	3/8	1/2	3/16	1270	2.79	2270	2.79
3/16	3/8	5/8	3/16	1280	3.50	2280	3.44
3/16	3/8	3/4	3/16	1290	4.16	2290	4.16
3/16	7/16	5/8	1/4	1300	4.05	2300	3.99
3/16	7/16	13/16	1/4	1310	5.19	2310	5.25
3/16	1/2	1/2	1/4	1320	3.72	2320	3.75
3/16	1/2	3/4	1/4	1330	5.52	2330	5.52
3/16	3/4	3/4	1/4	1340	7.95	2340	8.21

ALL STYLE 1000, 2000, STB & STBL SERIES
BLANKS LISTED ARE **UNGROUND**

THICKNESS: MINIMUM GRIND STOCK
1/16" TO 5/16" +0.04" - +0.015" ON ALL DIMENSIONS
3/8" TO 1" +0.06" - +0.020" ON ALL DIMENSIONS

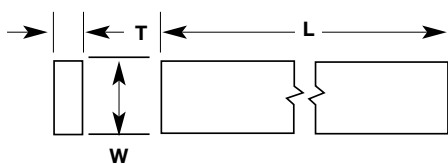
GROUND BLANKS TO YOUR SPECIFICATIONS
ARE AVAILABLE • PRICES UPON REQUEST

C-5 GRADE PREMIUM MEDIUM GRAIN
CARBIDE WITH 10% COBALT ALSO AVAILABLE

WILLIAM T. HUTCHINSON CO.

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CARBIDE BLANKS STYLE STB - STBL



Style STB-STBL

Dimensions			Blank Number	Price ea.
T	W	L		
1/32	1/16	1	STB-12	1.10
1/32	1/16	1-1/2	STB-12A	1.54
3/64	3/32	13/16	STB-13A	1.28
3/64	3/32	1	STB-13	1.54
1/16	1/16	6	STB-22L	7.18
1/16	1/8	1	STB-24A	1.36
1/16	1/8	1-1/4	STB-24C	1.69
1/16	1/8	1-1/2	STB-24D	1.81
1/16	1/8	3	STB-24B	3.47
1/16	1/8	6	STB-24L	8.56
1/16	3/16	1	STB-26A	1.73
1/16	3/16	3	STB-26C	5.06
1/16	3/16	6	STB-26L	12.40
1/16	1/4	1	STB-28A	2.29
1/16	1/4	1-1/4	STB-28B	2.85
1/16	1/4	3	STB-28D	6.59
1/16	1/4	6	STB-28L	12.06
1/16	5/16	6	STB-210L	14.91
1/16	3/8	6	STB-212L	16.42
1/16	1/2	6	STB-216L	21.62
1/16	5/8	6	STB-220L	26.88
1/16	3/4	6	STB-224L	32.13
1/16	1	6	STB-232L	42.91
5/64	1/8	1-1/8	STB-14	1.85
3/32	1/8	5	STB-34	9.15
3/32	1/8	8	STB-34L	11.86
3/32	3/16	1-1/8	STB-36	2.50
3/32	3/16	1-1/4	STB-36A	2.77
3/32	3/16	8	STB-36L	14.09
3/32	1/4	1	STB-38A	2.10
3/32	1/4	1-1/2	STB-38B	4.30
3/32	1/4	5	STB-38D	13.73
3/32	1/4	8	STB-38L	15.99
3/32	5/16	2	STB-310A	7.01
3/32	5/16	3	STB-310B	7.45
3/32	5/16	5	STB-310C	12.29
3/32	5/16	8	STB-310L	19.98
3/32	3/8	5	STB-312	16.93
3/32	3/8	8	STB-312L	23.44
3/32	1/2	8	STB-316L	30.89
3/32	5/8	8	STB-320L	38.39
1/8	1/8	12	STB-44L	16.33

Dimensions			Blank Number	Price ea.
T	W	L		
1/8	3/16	6	STB-46	13.29
1/8	3/16	12	STB-46L	29.83
1/8	1/4	1	STB-48A	3.74
1/8	1/4	1-1/4	STB-48B	4.64
1/8	1/4	1-1/2	STB-48F	5.55
1/8	1/4	2-1/4	STB-48C	8.25
1/8	1/4	3	STB-48D	7.75
1/8	1/4	6	STB-48E	15.39
1/8	1/4	12	STB-48L	30.84
1/8	5/16	1-1/2	STB-410A	6.86
1/8	5/16	3	STB-410B	9.57
1/8	5/16	6	STB-410	19.05
1/8	3/8	1	STB-412D	5.55
1/8	3/8	2	STB-412A	7.64
1/8	3/8	3	STB-412B	11.40
1/8	3/8	6	STB-412C	22.65
1/8	3/8	12	STB-412L	43.35
1/8	1/2	1	STB-416A	7.28
1/8	1/2	1-1/2	STB-416B	7.64
1/8	1/2	3	STB-416C	15.05
1/8	1/2	6	STB-416	29.90
1/8	1/2	12	STB-416L	59.80
1/8	5/8	6	STB-420	37.16
1/8	5/8	12	STB-420L	74.31
1/8	3/4	6	STB-424	44.41
1/8	3/4	12	STB-424L	88.82
1/8	1	6	STB-432	59.36
1/8	1	12	STB-432L	118.72
3/16	3/16	12	STB-66L	32.17
3/16	1/4	3	STB-68A	11.25
3/16	1/4	6	STB-68	22.35
3/16	1/4	12	STB-68L	44.70
3/16	5/16	3	STB-610A	16.08
3/16	5/16	6	STB-610	27.59
3/16	5/16	12	STB-610L	55.21
3/16	3/8	3	STB-612A	16.53
3/16	3/8	6	STB-612	32.86
3/16	3/8	12	STB-612L	65.73
3/16	1/2	3	STB-616A	21.81
3/16	1/2	6	STB-616	43.37
3/16	1/2	12	STB-616L	86.69
3/16	5/8	3	STB-620A	53.88

C2 MEDIUM
GRAIN CARBIDE
6-8% COBALT

OTHER GRADES
AVAILABLE UPON
REQUEST

MINIMUM GRIND
STOCK TOLERANCES

THICKNESS +0.008"
WIDTH +0.012"
LENGTH +0.008"

PARALLEL AND FLAT
WITHIN 0.020"

ADDITIONAL
QUANTITY
DISCOUNTS
AVAILABLE

SEE PAGE 15
FOR
CARBIDE
DRILL BLANKS

WILLIAM T. HUTCHINSON CO.

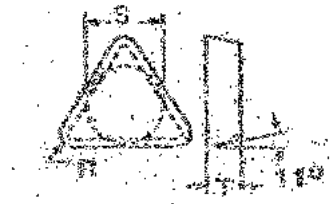
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www.hssblanks.com

INDEXABLE INSERTS & DOVETAIL TOOL BLANKS

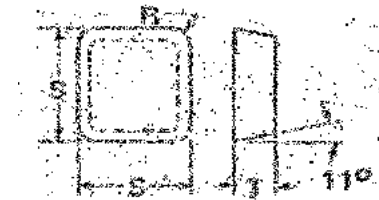
Triangular High Speed Steel T15 Inserts

Style Number	ANSI Standard	DIMENSIONS			PRICE PER PIECE
		S	T	R	
30074	TPG-322	.375	.125	.031	11.30
30085	TPG-433	.500	.188	.047	13.74
30096	TPG-544	.625	.250	.062	21.13



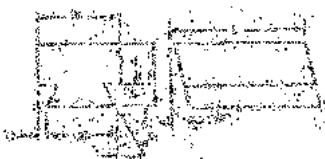
Square High Speed Steel T15 Inserts

Style Number	ANSI Standard	DIMENSIONS			PRICE PER PIECE
		S	T	R	
30110	SPG-322	.375	.125	.031	10.02
30121	SPG-422	.500	.125	.031	11.84
30132	SPG-633	.750	.188	.047	17.75



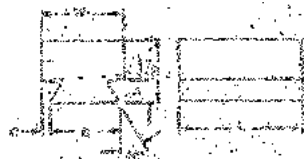
All sizes fit standard positive rake holders same as used for carbide inserts. Other radii available on application. Standard package quantity 10 pieces.

Dovetail Form Tool Blanks (M42)



Dovetail Form Tool Holder	H	W	L	A	B	C	Style	Price Per Piece	Style Number
	+0.015 -0.000	+0.015 -0.000	±0.030	+0.015 -0.000	±0.003	±0.005			
3/8	3/4	1	1-1/2	19/64	.700	1/4	3/8-DF-1	41.57	35588
5/8	1	1	2-1/4	19/64	.951	1/16	5/8-DF-1	63.84	35599
5/8	1	1-1/2	2-1/4	19/64	.951	9/16	5/8-DF-2	83.93	35602
5/8	1	2	2-1/4	19/64	.951	17/32	5/8-DF-3	104.39	35613
1	1-1/2	2	3	35/64	1.614	3/16	1-DF-1	176.22	35624
1	1-1/2	2-1/2	3	35/64	1.614	7/16	1-DF-2	211.66	35635
1	1-1/2	3	3	35/64	1.614	11/16	1-DF-3	248.34	35646
1-1/4	1-1/2	2	3	35/64	1.882	1/8	1-1/4-DF-1	180.34	35657
1-1/4	1-1/2	2-1/2	3	35/64	1.882	9/16	1-1/4-DF-2	215.76	35668
1-1/4	1-1/2	3	3	35/64	1.882	9/16	1-1/4-DF-3	250.60	35679
1-5/8	1-1/2	3	3	35/64	2.238	3/8	1-5/8DF-1	255.56	35690
2-1/8	1-1/2	3	3	43/64	2.883	1/8	2-1/8DF-1	259.00	35704

Dovetail Shave Tool Blanks (M42)



Dovetail Shave Tool Holder	H	W	L	A	B	C	Style	Price Per Piece	Style Number
	+0.015 -0.000	+0.015 -0.000	±0.030	+0.015 -0.000	±0.003	±0.005			
1/2	5/8	1-1/4	1-1/8	13/64	.714	3/8	1/2-DS-1	34.68	35715
5/8	3/4	1	1-1/2	17/64	.912	3/32	5/8-DS-1	40.52	35726
5/8	3/4	1-1/2	1-1/2	17/64	.912	19/64	5/8-DS-2	52.89	35737
5/8	3/4	2	1-1/2	17/64	.912	35/64	5/8-DS-3	64.76	35748
1	1	1-1/2	1-3/4	17/64	1.287	7/32	1-DS-1	67.94	35759
1	1	2	1-3/4	17/64	1.287	23/64	1-DS-2	83.99	35770
1-1/4	1	2	1-3/4	17/64	1.554	11/32	1-1/4-DS-1	88.11	35781
1-1/2	1	2	1-7/8	17/64	1.787	7/32	1-1/2-DS-1	92.81	35792
1-5/8	1-1/2	2-1/2	2-9/16	25/64	2.057	11/32	1-5/8DS-1	180.49	35806

WILLIAM T. HUTCHINSON CO.

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

CUTOFF WHEELS

DIAMETER	WIDTH	BORE	PRICE
7"	1/32 1/16	1-1/4	CALL FOR PRICING
8"	1/32 1/16	1-1/4	

Hutchinson tool room cut off wheels are designed by toolmakers for toolmakers. These wheels are formulated for tool room applications where precise cutting is required.

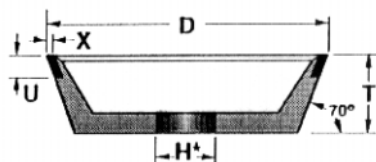
REINFORCED CUTOFF WHEELS

DIAMETER	WIDTH	BORE	PRICE
10"	1/16	5/8	CALL FOR PRICING
12"	1/32	1-1/4 1" (w/bushing)	



Free cutting, long lasting, designed for applications where the workpiece is hand clamped or side pressure is evident. Center reinforced for reduced drag.

DIAMOND WHEELS AND TOOLS



100% CONCENTRATION

TYPE 11V9 FLARING CUP DIAMOND WHEELS

D IN.	T IN.	U IN.	X IN.	PRICE EACH
3 3/4	1 1/2	3/8	1/16	99.00
			1/8	115.00
5	1 3/4	7/16	1/16	130.00
			1/8	150.00

AVAILABLE IN GRIT SIZES

- 320-(FINE)
 - 150-(MEDIUM)
 - 100-(COARSE)
- Specify (H) hole size

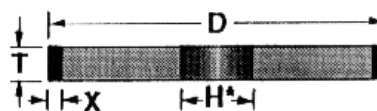
TYPE 1A1 STRAIGHT STYLE 6" DIAMOND WHEELS

T IN.	X IN.	PRICE EACH
1/8	1/8	114.00
1/4	1/16	128.00
1/4	1/8	138.00
3/8	1/8	169.00
1/2	1/8	190.00

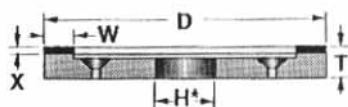
AVAILABLE IN GRIT SIZES

- 320-(FINE)
- 150-(MEDIUM)
- 100-(COARSE)

100% CONCENTRATION
Specify (H) hole size



TYPE 6A2C CUP STYLE DIAMOND WHEELS WITH COUNTERSUNK BOLT HOLES



D IN.	T IN.	W IN.	X IN.	PRICE EACH
6	3/4	3/4	1/16	149.00
			1/8	199.00

75% CONCENTRATION
AVAILABLE IN GRIT SIZES

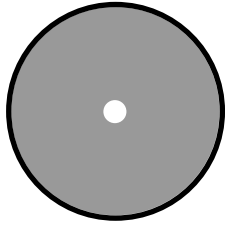
- 320-(FINE)
- 150-(MEDIUM)
- 100-(COARSE)

Specify (H) hole size

WILLIAM T. HUTCHINSON CO.

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DIAMOND TOOLS



6" DIAMOND CUT-OFF WHEEL

.035 Thickness
 1 1/4" Hole
 1/4" Diamond Depth
 100% Concentration
 GRIT D100
 92.00 Each

DIAMOND CLEANING STICK



Aluminum Oxide
 150 Grit
 1 x 1 x 6
 6.79 Each

Diamond Plated Bore Laps

Diameter	Length of Diamond	Price Each
3/16	1/2	*
7/32	1/2	*
1/4	1/2	*
9/32	1/2	*
5/16	1/2	*
11/32	1/2	*
3/8	3/4	*
13/32	3/4	*
7/16	3/4	*
15/32	3/4	*
1/2	1	*
9/16	1	*
5/8	1	*
11/16	1	*
3/4	1	*
7/8	1	*
1	1	*



STANDARD GRIT 220
 OTHER GRITS AVAILABLE

SCREW ADJUSTMENT EXPANDS
 DIAMETER

CBN PLATED ALSO AVAILABLE

SPECIFY BARREL OR BLIND HOLE
 LAP WHEN ORDERING

NEEDLE EYE LAPS AVAILABLE TO
 .030 DIA - CALL FOR PRICING

***Call for current pricing**

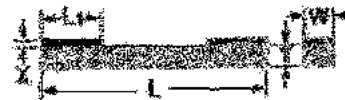
SINGLE END DIAMOND HAND HONE



L IN.	W IN.	T IN.	L1 IN.	X IN.	PRICE EACH
4	1/4	1/4	1 1/4	1/8	65.00
6	3/8	3/8	1 1/4	1/8	95.00

AVAILABLE IN
 GRIT SIZES
 600-(FINE)
 320-(MEDIUM)
 150-(COURSE)

DOUBLE END DIAMOND HAND HONE



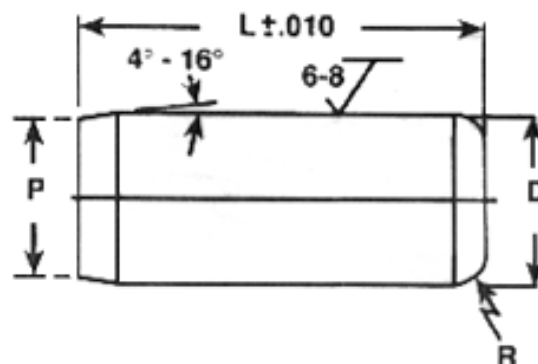
L IN.	W IN.	T IN.	L1 IN.	X IN.	PRICE EACH
4	1/4	1/4	1 1/4	1/8	80.00
6	3/8	3/8	1 1/4	1/8	112.00

WILLIAM T. HUTCHINSON CO.

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DOWEL PINS

Length	Diameter					
	1/16	3/32	1/8	3/16	1/4	5/16
3/16	*	*	*	—	—	—
1/4	*	*	*	*	*	—
5/16	*	*	*	*	*	—
3/8	*	*	*	*	*	*
7/16	*	*	*	*	*	—
1/2	*	*	*	*	*	*
5/8	*	*	*	*	*	*
3/4	*	*	*	*	*	*
7/8	*	*	*	*	*	*
1	*	*	*	*	*	*
1 1/8	—	—	*	*	*	*
1 1/4	*	*	*	*	*	*
1 3/8	—	—	*	*	*	*
1 1/2	—	*	*	*	*	*
1 5/8	—	—	*	—	*	—
1 3/4	—	*	*	*	*	*
2	—	—	*	*	*	*
2 1/4	—	—	*	*	*	*
2 1/2	—	—	*	*	*	*
2 3/4	—	—	*	*	*	*
3	—	—	*	*	*	*
3 1/4	—	—	—	—	*	*
3 1/2	—	—	—	—	*	*
3 3/4	—	—	—	—	—	*
4	—	—	—	—	*	*



Nom Size	D				P		R	
	STANDARD		.001 Oversized		Point Diameter		Crown height or Radius	
	.0002 Max.	Oversized Min.	.001 Max.	Oversized Min.	Max.	Min.	Max.	Min.
1/16	.0628	.0626	.0636	.0634	0.058	0.048	0.020	0.008
3/32	.0941	.0939	.0949	.0947	0.089	0.079	0.031	0.012
1/8	.1253	.1251	.1261	.1259	0.120	1.110	0.041	0.016
3/16	.1878	.1876	.1886	.1884	0.180	0.179	0.062	0.023
1/4	.2503	.2501	.2511	.2509	0.240	0.230	0.083	0.031
5/16	.3128	.3126	.3136	.3134	0.302	0.290	0.104	0.039
3/8	.3753	.3751	.3761	.3759	0.365	0.350	0.125	0.047
7/16	.4378	.4376	.4386	.4384	0.424	0.409	0.146	0.055
1/2	.5003	.5001	.5011	.5009	0.486	0.471	0.167	0.063
5/8	.6253	.6251	.6261	.6259	0.611	0.595	0.208	0.078
3/4	.7503	.7501	.7511	.7509	0.735	0.715	0.250	0.094
7/8	.8753	.8751	.8761	.8759	0.860	0.840	0.293	0.109
1	1.0003	1.0001	1.0011	1.0009	0.980	0.960	0.333	0.125

Length	Diameter							
	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1"
1/2	*	*	*	—	—	—	—	—
5/8	*	—	*	—	—	—	—	—
3/4	*	*	*	—	*	*	—	—
7/8	*	*	*	—	—	—	—	—
1	*	*	*	*	*	*	*	*
1 1/8	*	—	*	—	—	—	—	*
1 1/4	*	*	*	*	*	*	—	*
1 3/8	*	—	—	—	—	*	—	*
1 1/2	*	*	*	*	*	*	*	*
1 5/8	—	*	*	—	—	*	—	—
1 3/4	*	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*	*
2 1/4	*	*	*	*	*	*	*	*
2 1/2	*	*	*	*	*	*	*	*
2 3/4	*	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*	*
3 1/4	*	*	*	—	*	*	*	*
3 1/2	*	*	*	*	*	*	*	*
3 3/4	*	—	*	—	*	—	—	—
4	*	*	*	*	*	*	*	*
4 1/2	—	—	*	*	*	*	*	*
5	—	—	*	*	*	*	*	*
5 1/2	—	—	*	—	—	—	—	—
6	—	—	*	—	*	*	*	*

- All pins are heat treated to Rockwell 60-64C
- .001 oversized ± .0001 Prices on application
- Made in USA
- Dowel pins can be custom ground to special diameters to meet your requirements

NO MINIMUM ORDER

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DOWEL PINS

303 STAINLESS DOWEL PINS

Length	1/8	3/16	1/4	5/16	3/8	1/2	5/8
1/2	*	*	*	*	*	—	—
5/8	*	*	*	*	*	*	—
3/4	*	*	*	*	*	*	—
7/8	*	*	*	*	*	—	—
1	*	*	*	*	*	*	*
1 1/4	*	*	*	*	*	*	*
1 1/2	*	*	*	*	*	*	*
1 3/4	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*
2 1/2	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*
3 1/2	*	—	*	*	*	*	*
4	*	—	*	*	*	*	*

METRIC DOWEL PINS

Length in MM	4	5	6	8	10	12	16	20	Length in MM
12	*	*	*	*	—	—	—	—	12
14	*	*	—	—	—	—	—	—	14
16	*	*	*	*	*	—	—	—	16
18	*	*	—	—	*	—	—	—	18
20	*	*	*	*	*	*	*	—	20
25	*	*	*	*	*	*	*	*	25
30	*	*	*	*	*	*	*	*	30
35	*	*	*	*	*	*	*	—	35
40	*	*	*	*	*	*	*	*	40
45	—	—	*	*	*	*	*	—	45
50	*	*	*	*	*	*	*	*	50
55	*	*	*	*	*	*	—	—	55
60	*	*	*	*	*	*	*	*	60
65	—	*	*	*	*	*	—	—	65
70	*	*	—	*	*	*	*	*	70
80	—	—	*	*	*	*	—	*	80
90	—	—	*	*	*	*	*	—	90
100	—	—	*	—	*	*	—	*	100

METRIC PULL DOWEL PINS

Length in MM	6	8	10	12	16	20	Length in MM
20	*	*	*	*	—	—	20
25	*	*	*	*	*	—	25
30	*	*	*	*	*	*	30
35	*	*	*	*	*	*	35
40	*	*	*	*	*	*	40
45	*	*	*	*	*	*	45
50	*	*	*	*	*	*	50
55	*	*	*	*	*	*	55
60	*	*	*	*	*	*	60
70	*	*	*	*	*	*	70
75	—	—	*	*	*	*	75
80	*	*	*	*	*	*	80
100	—	—	*	*	*	*	100

NO MINIMUM ORDER

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www.hssblanks.com

SOCKET HEAD CAP & SET SCREWS

BUTTON HEAD SOCKET CAP SCREWS

Length	4/40	6/32	8/32	10/24	10/32	1/4-20	5/16-18	3/8-16
1/4	*	*	*	*	*	—	—	—
3/8	*	*	*	*	*	*	—	—
1/2	*	*	*	*	*	*	*	*
5/8	—	*	*	*	*	*	*	*
3/4	—	—	*	*	*	*	*	*
1	—	—	—	*	*	*	*	*
1 1/4	—	—	—	—	—	—	—	*

METRIC SOCKET HEAD CAP SCREWS

Length	M8	M10
16	*	—
20	*	*
25	*	*
30	*	*
35	*	*
40	*	*
45	*	*
50	*	*
55	*	*
60	*	*
65	*	*
70	*	*
75	*	*

***Call for current pricing**

FLAT HEAD SOCKET CAP SCREWS

Length	4/40	5/40	6/32	8/32	10/24	10/32	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
1/4	*	*	*	—	—	—	—	—	—	—	—	—
3/8	*	*	*	*	*	*	*	—	—	—	—	—
1/2	*	*	*	*	*	*	*	*	—	—	—	—
5/8	*	*	*	*	*	*	*	*	—	—	—	—
3/4	*	*	*	*	*	*	*	*	*	*	—	—
1	—	—	—	*	*	*	*	*	*	*	—	—
1 1/4	—	—	—	—	*	*	*	*	*	*	*	—
1 1/2	—	—	—	—	*	*	*	*	*	*	*	*
1 3/4	—	—	—	—	—	—	*	*	*	*	*	*
2	—	—	—	—	—	—	*	*	*	*	*	*
2 1/4	—	—	—	—	—	—	—	—	—	*	*	*
2 1/2	—	—	—	—	—	—	—	—	—	*	*	*
3	—	—	—	—	—	—	—	—	—	*	*	*

SOCKET SET SCREWS – CUP POINT (OTHER POINTS AND DIAMETERS AVAILABLE PRICES ON APPLICATION)

Length	0/80	1/72	2/56	3/48	4/40	5/40	6/32	8/32	10/24	10/32
1/16	—	*	*	—	—	—	—	—	—	—
3/32	*	*	*	*	—	—	—	—	—	—
1/8	*	*	*	*	*	*	*	*	—	—
3/16	*	*	*	*	*	*	*	*	*	*
1/4	*	*	*	*	*	*	*	*	*	*
5/16	—	—	—	—	*	*	*	*	*	*
3/8	—	—	—	—	*	*	*	*	*	*
1/2	—	—	—	—	*	*	*	*	*	*
5/8	—	—	—	—	—	—	—	—	*	*
3/4	—	—	—	—	—	—	—	—	*	*
1	—	—	—	—	—	—	—	—	—	*
1 1/4	—	—	—	—	—	—	—	—	—	*

Length	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	1/2-13
3/16	*	*	—	—	—	—	—
1/4	*	*	*	*	*	*	—
5/16	*	*	*	*	*	*	—
3/8	*	*	*	*	*	*	—
1/2	*	*	*	*	*	*	*
5/8	*	—	*	*	*	*	*
3/4	*	—	*	*	*	*	*
1	*	—	*	*	*	*	*
1 1/4	*	—	*	—	*	*	*
1 1/2	*	—	*	—	*	*	*

WILLIAM T. HUTCHINSON CO.

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SOCKET HEAD CAP SCREWS

Length	0/80	1/72	2/56	3/48	4/40	5/40	6/32	6/40	8/32	8/36	10/24	10/32	1/4-20	1/4-28
1/8	*	*	—	—	—	—	—	—	—	—	—	—	—	—
3/16	*	*	*	*	—	—	—	—	—	—	—	—	—	—
1/4	*	*	*	*	*	*	*	—	*	—	—	—	—	—
3/8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1/2	—	—	*	*	*	*	*	*	*	*	*	*	*	*
5/8	—	—	—	—	*	*	*	*	*	—	*	*	*	*
3/4	—	—	—	—	*	*	*	*	*	*	*	*	*	*
7/8	—	—	—	—	—	—	*	—	*	—	*	*	*	—
1	—	—	—	—	—	—	*	—	*	—	*	*	*	*
1 1/4	—	—	—	—	—	—	—	—	*	—	*	*	*	*
1 1/2	—	—	—	—	—	—	—	—	*	—	*	*	*	*
1 3/4	—	—	—	—	—	—	—	—	—	—	*	*	*	*
2	—	—	—	—	—	—	—	—	—	—	*	*	*	*
2 1/4	—	—	—	—	—	—	—	—	—	—	—	—	*	—
2 1/2	—	—	—	—	—	—	—	—	—	—	—	—	*	—
2 3/4	—	—	—	—	—	—	—	—	—	—	—	—	*	—
3	—	—	—	—	—	—	—	—	—	—	—	—	*	—

Length	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	1/2-13	1/2-20	5/8-11	3/4-10	1-8
1/2	*	—	*	—	—	*	—	—	—	—
5/8	*	*	*	—	—	—	—	—	—	—
3/4	*	*	*	*	*	*	—	—	—	—
7/8	*	*	*	—	*	*	—	—	—	—
1	*	*	*	*	*	*	*	*	—	—
1 1/4	*	*	*	*	*	*	*	*	*	—
1 1/2	*	*	*	*	*	*	*	*	*	—
1 3/4	*	*	*	*	*	*	*	*	*	—
2	*	*	*	*	*	*	*	*	*	*
2 1/4	*	—	*	—	*	*	*	*	*	*
2 1/2	*	—	*	—	*	*	*	*	*	*
2 3/4	*	—	*	—	*	*	—	*	*	*
3	*	—	*	—	*	*	*	*	*	*
3 1/4	*	—	*	—	—	*	—	*	*	*
3 1/2	*	—	*	—	—	*	—	*	*	*
4	—	—	*	—	—	*	—	*	*	*
4 1/2	—	—	*	—	—	*	—	*	*	*
5	—	—	*	—	—	*	—	*	*	*
5 1/2	—	—	—	—	—	*	—	*	*	*
6	—	—	—	—	—	*	—	*	*	*
6 1/2	—	—	—	—	—	*	—	*	*	*
7	—	—	—	—	—	*	—	*	*	*
8	—	—	—	—	—	*	—	*	*	*

***Call for current pricing**

Also Available:

COMPLETE LINE OF HOLO-KROME FASTENERS

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LIXIE HAMMERS AND MALLETS

SOFT FACE DEAD BLOW

Hammers, Mallets and Sledges with Replaceable Faces

All Lixie Dead Blow striking tool head castings feature an unobstructed cavity, partially filled with iron shot. As the hammer is struck on a surface, the urethane face absorbs a portion of the blow's energy. The shot moves forward immediately behind the blow, dampening the rebound and insuring that the force of the blow is transmitted solidly to the struck surface. Lixie Dead Blow Hand Hammers and Mallets are available in 6 sizes, with a selection of two weights in each size. The rugged head casting is of either malleable iron (Heavy Dead Blow) or hi-tensile, non-sparking Aluminum (Light Dead Blow).

Lixie Dead Blow Sledges have the same features as the Hammers and Mallets. They are used where a heavy blow is desired, yet still retain the highly protective quality of Lixie urethane. They are available in 3 sizes with 2 weights in each size furnished with smooth hickory grip handles.

SEE PAGE 55 FOR AVAILABLE FACES



**LIXIE
Dead
Blow
Sledge**

**LIXIE
Dead
Blow
Mallet**

	MODEL	HEAD DIAM.	HEAD LENGTH	OVERALL LENGTH	WEIGHT (OUNCES)	PRICE EACH
HAMMERS & MALLETS	*100L-MH	1"	4-1/4"	11"	10	47.78
	100H-MH	1"	4-1/4"	11"	14	53.99
	*125L-MH	1-1/4"	4-7/8"	12"	14	52.95
	125H-MH	1-1/4"	4-7/8"	12"	22	59.65
	*150L-MH	1-1/2"	5-1/4"	13"	22	60.71
	150H-MH	1-1/2"	5-1/4"	13"	30	72.25
	*200L-MH	2"	6-1/4"	15"	38	91.85
	200H-MH	2"	6-1/4"	15"	56	103.74
	*250L-MH	2-1/2"	7"	17"	66	157.25
	250H-MH	2-1/2"	7"	17"	100	149.36
*300L-MH	3"	8-1/2"	19"	116	203.29	
300H-MH	3"	8-1/2"	19"	168	235.06	
SLEDGES	*250L-MH-32	2-1/2"	7-1/8"	32"	80	210.58
	250H-MH-32	2-1/2"	7-1/8"	32"	114	219.69
	*300L-MH-35	3"	8-1/2"	35"	120	264.48
	300H-MH-35	3"	8-1/2"	35"	180	320.20

HAMMERS FURNISHED COMPLETE WITH 2 FACES

Grade of face may be interchanged without increase in cost. Where not specified standard face makeup of Medium and Hard (MH) will be furnished.

*All L-Light Dead Blow models are sparkproof.

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LIXIE HAMMERS AND MALLETS

MULTI HAMMER

with Replaceable Urethane Face

ONE HAMMER DOES THE JOB OF TWO! With a flip of the wrist you can switch from a sparkproof bronze to a soft, protective urethane face without fumbling for another hammer. Lixie's exclusive all-purpose model has a machinist's head cast in our special bronze alloy, with the opposite face incorporating replaceable screw-in faces in your choice of 4 grades, soft to hard. The handle is Grade A hickory with an exclusive non-slip grooved handle and special epoxy wedge construction. The All-Purpose hammer comes in a choice of 3 sizes with face diameters of 1", 1-1/4" or 1-1/2".



MODEL	HEAD DIAM.	HEAD LENGTH	OVERALL LENGTH	WEIGHT (OUNCES)	PRICE EACH
AB 100-T	1"	3-7/8"	12-1/2"	16	61.19
AB 125-T	1-1/4"	4-3/8"	13"	26	77.34
AB 150-T	1-1/2"	5"	13"	36	102.44

HAMMERS FURNISHED COMPLETE WITH 1 URETHANE FACE

Grade of face may be interchanged without increase in cost. Where not specified standard Tough grade (T) will be furnished. All are sparkproof.

REPLACEABLE URETHANE SCREW-IN FACES

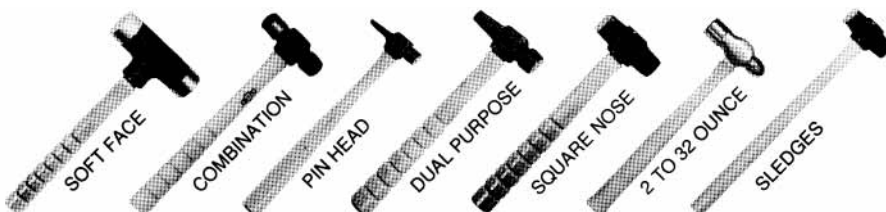
Lixie screw-type replaceable polyurethane faces are included on all Lixie Dead Blow and Multi Hammers. They are available in six sizes, with a range of four hardnesses in each size. This permits custom fitting a Lixie hammer to your individual requirements. Impervious to oils and most solvents, these solid polyurethane faces have high impact absorption, yet will not mar,peen or deform the struck surface.



COLOR DENOTES HARDNESS

COLOR	DIAMETER					
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
BROWN (Soft)	9.68	10.74	12.79	17.51	31.96	43.06
GREEN (Medium)	9.68	10.74	12.79	17.51	31.96	43.06
RED (Tough)	9.68	10.74	12.79	17.51	31.96	43.06
BLACK (Hard)	12.13	13.75	16.64	24.04	43.23	59.63

NOTE: Order face diameter to coincide with hammer diameter. Faces packaged one each per container.



To request full line brochure of Lixie Hammers -
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STEEL SHIM STOCK

Steel Shim Stock is low carbon mild steel cold rolled to a #1 hard temper. It is stiff and springy. The material can be punched or sheared with minimum burring and distortion.

1008/1010 Full Hard, AISI1010, QQS 698

6" x 100" Rolls

THICKNESS	PRICE EACH
.001	\$ 14.39
.0015	17.10
.002	9.85
.0025	10.36
.003	12.46
.004	12.03
.005	10.99
.006	10.51
.007	10.96
.008	10.88
.009	11.40
.010	11.59
.012	11.36
.015	11.80
.018	13.41
.020	13.85
.025	14.81
.031	15.58

6" x 180" Rolls

THICKNESS	PRICE EACH
.001	\$ 29.78
.0015	35.41
.002	20.38
.0025	21.45
.003	26.00
.004	24.90
.005	22.74
.006	21.77
.007	22.69
.008	22.53
.009	23.57
.010	24.01
.012	23.53
.015	24.42
.018	27.80
.020	28.70
.025	30.64
.031	32.28

Assortments

12 Pak – 1 Pc. each 6"x12"		
\$ 43.26		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
15 Pak – 1 Pc. each 6"x12"		
\$ 50.41		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
.020	.025	.031
4 Pak – 1 Pc. each 6"x50"		
\$ 45.77		
.001		
.002		
.003		
.005		

BRASS SHIM STOCK

Use Brass Shim Stock where some stiffness is required and where corrosion problems exist. 70% copper and 30% zinc it has been cold rolled to a 1/2 hard temper, Rockwell hardness of 30T 56/68.

260 Half Hard

6" x 100" Rolls

THICKNESS	PRICE EACH
.001	\$ 24.90
.0015	25.02
.002	25.81
.003	26.65
.004	28.08
.005	29.05
.006	29.89
.007	31.38
.008	33.09
.009	35.55
.010	38.69
.012	41.90
.015	48.39
.020	56.73
.025	67.77
.031	80.18

6" x 180" Rolls

THICKNESS	PRICE EACH
.001	\$ 45.84
.0015	45.84
.002	45.84
.003	45.84
.004	48.11
.005	55.37
.006	60.26
.007	67.24
.008	67.24
.009	71.61
.010	71.61
.012	89.08
.015	98.48
.020	118.79
.025	142.35
.031	157.21

Assortments

12 Pak – 1 Pc. each 6"x12"		
\$ 50.22		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
15 Pak – 1 Pc. each 6"x12"		
\$ 68.47		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
.020	.025	.031
4 Pak – 1 Pc. each 6"x50"		
\$ 55.90		
.001		
.002		
.003		
.005		

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STAINLESS STEEL SHIM STOCK

Stainless Steel Shim Stock can be used in any applications where corrosion is a concern, Available as follows:

300 Series Full Hard, R/C 40-45

302 Half Hard, R/C 30-35

302 Annealed

Stainless Steel Metric

300 Series Full Hard, R/C 40-45

6" x 50" Rolls

THICKNESS	PRICE EACH
.0005	\$ 76.09
.001	36.69
.0015	33.62
.002	23.22
.003	22.32
.004	21.78
.005	25.05
.006	25.03
.007	25.80
.008	26.22
.009	50.14
.010	27.21
.012	28.43
.015	30.76
.020	36.53
.025	42.78
.031	48.75

6" x 60" Rolls

THICKNESS	PRICE EACH
.0005	—
.001	52.85
.0015	—
.002	33.47
.003	32.13
.004	31.35
.005	36.07
.006	36.01
.007	37.15
.008	37.74
.009	42.51
.010	39.15
.012	40.93
.015	44.26
.020	51.04
.025	61.11
.031	70.21

12' x 50" Rolls

THICKNESS	PRICE EACH
.0005	—
.001	72.76
.0015	—
.002	46.10
.003	45.80
.004	46.72
.005	50.77
.006	57.61
.007	59.53
.008	60.58
.009	—
.010	61.88
.012	64.60
.015	64.72
.020	70.43
.025	84.71
.031	111.44

1/2 Hard Stainless Shim R/C 30-35 AISI 302

12" x 50" Rolls

THICKNESS	PRICE EACH
.003	\$ 96.73
.004	103.85
.005	104.96
.006	128.12
.008	134.67
.010	148.07
.012	143.69
.015	136.74
.020	148.80
.025	188.40

Annealed Stainless Shim AISI 302

12" x 50" Rolls

THICKNESS	PRICE EACH
.003	\$ 96.73
.004	103.85
.005	104.96
.006	128.12
.008	134.67
.010	148.07
.012	143.69
.015	136.74
.020	148.80
.025	188.40

Metric Stainless

300 Series Full Hard, R/C 40-45

150mm x 1.25m

THICKNESS	PRICE EACH
.05 mm	\$ 24.48
.10	24.89
.15	26.25
.20	27.52
.25	28.53
.30	29.80
.40	32.29
.50	38.34
.65	44.90
.80	51.16

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AISI TYPE 0-1 OIL HARDENING GROUND FLAT STOCK

Overall Length: 18"

Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each	
1/64	1/2	117.76	5/64	1/2	17.26	1/8	3	56.36	3/16	3-1/2	78.20	
	3/4	122.45		3/4	21.38		3-1/2	64.19		4	87.38	
	1	128.64		1	25.56		4	72.00		5	106.01	
	1-1/4	134.81		1-1/4	29.63		5	87.62		6	124.61	
	1-1/2	148.46		1-1/2	33.80		6	103.23		8	185.27	
	2	184.44		2	42.12		7	136.35	10	227.89		
	2-1/2	211.46		2-1/2	50.07		8	154.53	12	270.85		
	3	253.34		3	58.39		10	190.51	7/32	7/32	31.75	
	4	341.12		4	75.18		12	226.68		1/2	27.20	
		6	108.79	14	261.79		3/4	32.76				
1/32	1/2	21.36	3/32	1/4	55.84		9/64	1/2		21.61	1	38.35
	3/4	28.85		3/8	30.67			3/4		24.63	1-1/4	43.57
	1	33.63		1/2	17.26			1	29.16	1-1/2	49.12	
	1-1/4	39.85		3/4	21.38			1-1/4	35.09	2	60.22	
	1-1/2	46.07		1	25.56	1-1/2		37.88	2-1/2	71.85		
	2	58.27		1-1/4	29.63	2		46.91	3	82.45		
	2-1/2	70.57		1-1/2	33.80	3		64.80	4	104.54		
	3	83.21		1-3/4	37.95	4		82.71	6	148.90		
	4	107.07		2	42.12	5/32		5/32	35.33	1/4	1/4	31.76
6	190.31	2-1/2		50.48	1/4			52.85	5/16		48.59	
3/64	1/2	18.75	3	58.83	3/8		30.69	3/8	24.85			
	3/4	24.16	4	75.44	1/2		21.42	1/2	27.09			
	1	29.45	5	92.08	3/4		26.26	5/8	29.77			
	1-1/4	34.56	6	108.72	1		31.04	3/4	32.32			
	1-1/2	39.88	8	162.59	1-1/4		35.54	1	37.67			
	2	50.53	10	214.09	1-1/2		40.22	1-1/4	42.51			
	2-1/2	60.95	7/64	1/2	20.54		1-3/4	44.99	1-1/2		47.87	
	3	71.54		3/4	25.51		2	49.84	1-3/4		52.75	
	3-1/2	82.13		1	30.35	2-1/2	59.25	2	58.43			
4	112.09	1-1/4		35.07	3	68.82	2-1/2	68.96				
6	134.61	1-1/2		40.01	3-1/2	78.35	3	79.52				
1/16	1/4	44.34		2	49.85	4	87.87	3-1/2	90.11			
	3/8	22.15		2-1/2	62.39	5	106.94	4	100.71			
	1/2	13.23		3	69.45	6	125.92	4-1/2	111.23			
	5/8	15.19		4	89.04	8	187.76	5	121.76			
	3/4	16.69		6	140.54	3/16	3/16	33.04	5-1/2	132.39		
	1	20.13	1/8	1/8	38.06		1/4	18.23	6	148.68		
	1-1/4	23.49		1/4	13.68		5/16	19.76	7	188.06		
	1-1/2	27.00		5/16	14.94		3/8	20.65	8	212.75		
	1-3/4	30.39		3/8	15.77		1/2	22.73	10	261.34		
	2	33.87		1/2	17.40		5/8	25.53	12	310.19		
2-1/2	40.68	5/8		19.38	3/4		27.23	14	357.56			
3	47.52	3/4		21.38	1		31.92	9/32	9/32	33.03		
3-1/2	54.53	1		25.30	1-1/4		36.29		1/2	31.29		
4	61.21	1-1/4		28.98	1-1/2		40.94		3/4	37.23		
5	75.00	1-1/2		32.88	1-3/4	45.54	1		43.28			
6	88.72	1-3/4	21.22	2	50.26	1-1/4	48.76					
8	133.01	2	40.72	2-1/2	59.50	1-1/2	54.83					
10	164.44	2-1/2	48.51	3	68.85							

Tolerance: Thickness ± .001
 Width + .005
 - .0

Also Available:

36" Lengths • Oversize • Low Carbon • A-2, D-2, S-7

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AISI TYPE 0-1 OIL HARDENING GROUND FLAT STOCK

Overall Length: 18"

Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each			
9/32	2	66.79	7/16	1-1/4	72.59	3/4	2	146.12	1-1/2	2	262.88			
	3	90.76		1-1/2	81.32		2-1/2	171.04		3	305.11			
	4	114.66		2	98.74		3	196.09		4	431.81			
	6	162.41		2-1/2	116.20		3-1/2	221.01		6	609.51			
5/16	5/16	34.34		3	133.62		4	245.99		8	843.62	2	2	336.78
	3/8	29.90		4	164.31		4-1/2	270.97		3	442.93		3	442.93
	1/2	32.42	6	238.31	5		297.34	4		549.22	4		549.22	
	5/8	35.56	1/2	1/2	50.01		6	347.26		6	731.16		2-1/2	2-1/2	578.96
	3/4	38.65		5/8	54.68		8	508.04	7/8	7/8	105.64			
	1	45.07		3/4	59.33		10	612.72		1	112.77			
	1-1/4	50.58		1	68.62		12	717.50		1-1/4	126.13			
	1-1/2	56.84		1-1/4	77.63		1	1		90.07	1-1/2	140.29		
	1-3/4	63.03		1-1/2	86.91	1-1/4		135.19		2	168.61			
	2	69.28		1-3/4	96.54	1-1/2		150.12		3	225.44			
	2-1/2	81.73		2	105.59	1-3/4		164.97		4	282.17			
	3	94.11		2-1/2	124.25	2		179.87		6	397.07			
3-1/2	106.56	3		142.92	2-1/2	209.68		1-1/8		1-1/8	154.64			
4	119.02	3-1/2		161.55	3	239.36				1-1/2	180.06			
5	143.61	4		180.24	3-1/2	269.15				2	214.16			
6	174.95	4-1/2	198.92	4	298.90	3				282.26				
7	221.40	5	218.84	5	359.81	4			350.43					
8	250.12	6	268.20	6	419.41	6			488.21					
10	307.05	7	339.21	8	491.61	1-1/4			1-1/4	170.74				
12	364.35	8	383.09	10	738.20		1-1/2		189.12					
3/8	3/8	43.20	10	461.12	12		864.69		2	226.06				
	1/2	39.51	12	538.36	5/8		5/8		65.52	2-1/2	262.84			
	5/8	43.34	9/16	60.01			3		166.96	3	299.54			
	3/4	47.12	3/4	67.69			3-1/2		188.43	4	373.14			
	1	54.58	1	78.02			4	209.85	5	448.20				
	1-1/4	61.47	1-1/4	88.16			5	254.09	6	521.82				
	1-1/2	68.98	1-1/2	98.47			6	296.97	1-1/2	1-1/2	220.67			
	1-3/4	78.75	2	119.23			3/4	3/4		84.31				
	2	84.06	5/8	65.52				1		96.86				
	2-1/2	99.00	3/4	70.92				1-1/4		108.69				
	3	114.05	1	81.60		1-1/2		121.14						
	3-1/2	129.09	1-1/4	91.97		1-3/4		133.63						
4	144.08	1-1/2	102.67											
4-1/2	159.06	2	124.11											
5	174.02	2-1/2	145.52											
5-1/2	189.13	3	166.96											
6	204.11	3-1/2	188.43											
7	267.64	4	209.85											
8	302.41	5	254.09											
10	371.19	6	296.97											
12	440.38													

Tolerance:

Thickness ± .001
Width + .005
- .0

Also Available:

- 36" Lengths
- Oversize
- Low Carbon
- A-2, D-2, S-7

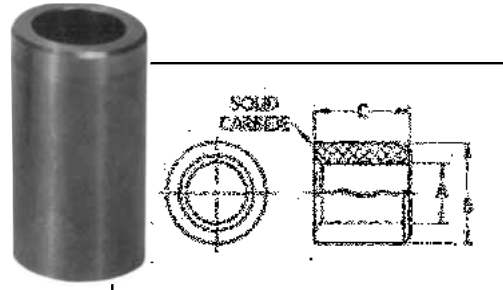
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SOLID CARBIDE PLAIN PRESS FIT BUSHINGS

Std. Drill Size A	Actual O.D. B	Length C	Symbol for O.D. Finish Ground
.0135 to .0625	.1578 .1575	1/4 5/16 3/8 1/2	PC-10-4 PC-10-5 PC-10-6 PC-10-8
.0625 to .0995	.2046 .2043	1/4 5/16 3/8 1/2	PC-13-4 PC-13-5 PC-13-6 PC-13-8
.0980 to .1406	.2516 .2513	1/4 5/16 3/8 1/2 3/4	PC-16-4 PC-16-5 PC-16-6 PC-16-8 PC-16-12
.1250 to .1935	.3141 .3138	1/4 5/16 3/8 1/2 3/4 1	PC-20-4 PC-20-5 PC-20-6 PC-20-8 PC-20-12 PC-20-16
.1875 to .2570	.4078 .4075	1/4 5/16 3/8 1/2 3/4 1 1-3/8	PC-26-4 PC-26-5 PC-26-6 PC-26-8 PC-26-12 PC-26-16 PC-26-22
.1875 to .3160	.5017 .5014	3/8 1/2 3/4 1 1-3/8 1-3/4	PC-32-6 PC-32-8 PC-32-12 PC-32-16 PC-32-22 PC-32-28
.3125 to .4375	.6267 .6264	3/8 1/2 3/4 1 1-3/8 1-3/4 2-1/8	PC-40-6 PC-40-8 PC-40-12 PC-40-16 PC-40-22 PC-40-28 PC-40-34
.3750 to .5312	.7518 .7515	1/2 3/4 1 1-3/8 1-3/4 2-1/8	PC-48-8 PC-48-12 PC-48-16 PC-48-22 PC-48-28 PC-48-34
.5000 to .6250	.8768 .8765	1/2 3/4 1 1-3/8 1-3/4 2-1/8	PC-56-8 PC-56-12 PC-56-16 PC-56-22 PC-56-28 PC-56-34
.6250 to .7500	1.0018 1.0015	1/2 3/4 1 1-3/8 1-3/4 2-1/8 2-1/2	PC-64-8 PC-64-12 PC-64-16 PC-64-22 PC-64-28 PC-64-34 PC-64-40
.7500 to 1.0000	1.3772 1.3768	3/4 1 1-3/8 1-3/4 2-1/8 2-1/2	PC-88-12 PC-88-16 PC-88-22 PC-88-28 PC-88-34 PC-88-40



SOLID CARBIDE SLIP & FIXED RENEWABLE BUSHINGS

ALSO AVAILABLE
PRICES UPON REQUEST

STANDARD I.D. TOLERANCES

Up to 1/4	Nominal +.0001/+.0004
Over 1/4 to 3/4	Nominal +.0001/+.0005
Over 3/4 to 1-1/2	Nominal +.0002/+.0006
Over 1-1/2 to 1-3/4	Nominal +.0003/+.0007

Counterbore

Unless otherwise specified, all Carbide Bushings are supplied without counterbore. (Carbide Bushings with counterbore are priced as specials.)

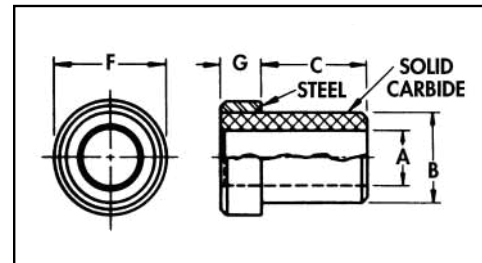
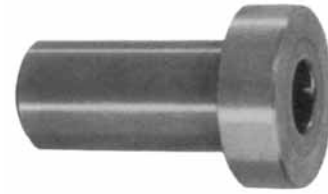
AVAILABLE IN DRILL SIZES
UP TO 1.750
PRICES ON REQUEST

WILLIAM T. HUTCHINSON CO.

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CARBIDE HEAD PRESS FIT BUSHINGS

Std. Drill Size A	Actual O.D. B	Length C	Symbol for O.D. Finish Ground	HEAD DIMENSIONS	
				F	G
.0135 to .0625	.1578 .1575	1/4	HC-10-4	1/4	3/32
		5/16	HC-10-5		
		3/8	HC-10-6		
		1/2	HC-10-8		
.0625 to .0995	.2046 .2043	1/4	HC-13-4	19/64	3/32
		5/16	HC-13-5		
		3/8	HC-13-6		
		1/2	HC-13-8		
.0980 to .1406	.2516 .2513	1/4	HC-16-4	23/64	3/32
		5/16	HC-16-5		
		3/8	HC-16-6		
		1/2	HC-16-8		
.1250 to .1935	.3141 .3138	3/4	HC-16-12	27/64	1/8
		1/4	HC-20-4		
		5/16	HC-20-5		
		3/8	HC-20-6		
		1/2	HC-20-8		
.1875 to .2570	.4078 .4075	3/4	HC-20-12	1/2	5/32
		1	HC-20-16		
		1-3/8	HC-26-4		
		1/4	HC-26-5		
		5/16	HC-26-6		
		3/8	HC-26-8		
.1875 to .3160	.5017 .5014	1/2	HC-26-12	39/64	7/32
		3/4	HC-26-16		
		1	HC-26-22		
		1-3/8	HC-26-28		
		1-3/4	HC-32-6		
		1	HC-32-8		
.3125 to .4375	.6267 .6264	3/4	HC-32-12	51/64	7/32
		1	HC-32-16		
		1-3/8	HC-32-22		
		1-3/4	HC-40-6		
		2-1/8	HC-40-8		
		1	HC-40-12		
.3750 to .5312	.7518 .7515	1	HC-40-16	59/64	7/32
		1-3/8	HC-40-22		
		1-3/4	HC-40-28		
		2-1/8	HC-40-34		
		1/2	HC-48-8		
		3/4	HC-48-12		
.5000 to .6250	.8768 .8765	1	HC-48-16	1-7/64	1/4
		1-3/8	HC-48-22		
		1-3/4	HC-48-28		
		2-1/8	HC-48-34		
		1/2	HC-56-8		
		3/4	HC-56-12		
.6250 to .7500	1.0018 1.0015	1	HC-56-16	1-15/64	5/16
		1-3/8	HC-56-22		
		1-3/4	HC-56-28		
		2-1/8	HC-56-34		
		1/2	HC-64-8		
		3/4	HC-64-12		
.7500 to 1.0000	1.3772 1.3768	1	HC-64-16	1-39/64	3/8
		1-3/8	HC-64-22		
		1-3/4	HC-64-28		
		2-1/8	HC-64-34		
		3/4	HC-88-12		
		1	HC-88-16		
1.3772 to 1.3768	1.3772 1.3768	1-3/8	HC-88-22	1-39/64	3/8
		1-3/4	HC-88-28		
		2-1/8	HC-88-34		
		2-1/2	HC-88-40		



**SOLID CARBIDE SLIP
& FIXED RENEWABLE BUSHINGS**

ALSO AVAILABLE

PRICES UPON REQUEST

STANDARD I.D. TOLERANCES

Up to 1/4	Nominal +.0001/+.0004
Over 1/4 to 3/4	Nominal +.0001/+.0005
Over 3/4 to 1-1/2	Nominal +.0002/+.0006
Over 1-1/2 to 1-3/4	Nominal +.0003/+.0007

**AVAILABLE IN DRILL SIZES
UP TO 1.750**

PRICES ON REQUEST

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STEEL FEELER GAGE STOCK

Thickness	Strips 1/2 x 12"	Coils 1/2 x 25'	Thickness	Strips 1/2 x 12"	Coils 1/2 x 25'
.001	\$7.05	\$126.87	.039	3.24	58.39
.0015	3.76	67.76	.040	3.24	58.39
.002	3.70	54.73	.041-.045	14.24	AVAILABLE IN .001 INCREMENTS — NOT AVAILABLE IN COIL
.0025	3.83	68.98	.046-.054	14.92	
.003	3.70	66.52	.055-.064	15.60	
.004	3.90	70.22	.065-.074	16.29	
.005	3.05	54.95	.075-.084	16.97	
.006	3.05	54.95	.085-.094	17.66	
.007	3.05	54.95	.095-.104	18.34	
.008	3.05	54.95	.105-.125	19.02	
.009	3.05	54.95			
.010	2.70	48.53			
.011	2.70	48.53			
.012	2.70	48.53			
.013	2.70	48.53			
.014	2.70	48.53			
.015	2.70	48.53			
.016	2.78	50.01			
.017	2.78	50.01			
.018	2.78	50.01			
.019	2.78	50.01			
.020	2.78	50.01			
.021	2.78	50.01			
.022	2.78	50.01			
.023	2.78	50.01			
.024	2.78	50.01			
.025	2.85	51.24			
.026	2.85	51.24			
.027	2.85	51.24			
.028	2.85	51.24			
.029	2.85	51.24			
.030	2.85	51.24			
.031	2.91	52.48			
.032	2.91	52.48			
.033	2.91	54.06			
.034	2.91	54.06			
.035	2.91	54.06			
.036	3.24	54.06			
.037	3.24	58.39			
.038	3.24	58.39			



Metric - Steel		
Thickness	Strips 12.7mm x 300 mm	Coils 12.7mm x 7.62m
.04mm	\$ 5.93	\$127.75
.05	5.48	118.62
.06	6.39	109.50
.07	4.56	100.37
.08	4.56	100.37
.09	4.27	91.26
.10	4.28	91.26
.15	4.10	91.26
.20	4.10	86.68
.25	4.10	86.68
.30	4.10	86.68
.35	4.10	86.68
.40	4.10	86.68
.45	4.10	86.68
.50	4.10	86.68
.55	4.21	88.51
.60	4.21	88.51
.65	4.21	88.51
.70	4.21	88.51
.75	4.21	88.51
.80	4.28	91.26
.85	4.28	91.26
.90	4.28	91.26
.95	4.28	91.26
1.00	4.28	91.26
1.50	16.29	—
2.00	16.97	—
2.50	19.02	—
3.00	19.02	—

TOLERANCE FOR
.020 & LARGER = ± .0005
FOR .019 & SMALLER
SEE PAGE 63

Steel gage stock is made from fine quality 1095 tempered spring steel and etched every six inches for positive identification.

Available in 1/2" wide (12.7 MM) twelve inch (300 MM) lengths or 25' (7.62 M) rolls

Additional sizes and materials available. Call for pricing and delivery.

WILLIAM T. HUTCHINSON CO.

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STAINLESS STEEL FEELER GAGE STOCK

STAINLESS STEEL GAGE STOCK IS TYPE 301 EXTRA FULL HARD OR HIGH YIELD, WITH A #1 ROUND EDGE. LIKE THE STEEL STOCK IT IS ETCHED EVERY SIX INCHES FOR POSITIVE IDENTIFICATION.

AVAILABLE IN 1/2" AND 1" WIDTHS, TWELVE INCH LENGTHS OR 25' ROLLS.

SPECIAL LENGTHS, WIDTHS AND THICKNESS ON REQUEST.

Thickness	STRIPS 1/2 x 12"	COILS 1/2 x 25'	STRIPS 1 x 12"	COILS 1 x 25'	TOLERANCE +/-
.0005	\$9.86	\$177.59	\$12.25	\$220.51	.00005
.001	7.76	154.97	12.25	220.51	.00012
.0015	7.90	141.46	12.25	220.51	.00012
.002	5.35	96.29	12.25	220.51	.00016
.0025	5.93	118.43	12.25	220.51	.00016
.003	4.66	93.07	12.25	220.51	.00020
.004	3.55	70.67	12.25	220.51	.00020
.005	3.55	63.60	12.25	220.51	.00024
.006	3.55	63.60	12.25	220.51	.00028
.007	3.55	63.60	12.25	220.51	.00028
.008	3.55	63.60	12.25	220.51	.00031
.009	3.55	63.60	12.25	220.51	.00031
.010	3.55	63.60	12.25	220.51	.00035
.011	3.84	69.31	12.25	220.51	.00035
.012	3.84	69.31	12.25	220.51	.00035
.013	3.84	69.31	12.25	220.51	.00043
.014	3.84	69.31	12.25	220.51	.00043
.015	3.84	69.31	12.25	220.51	.00043
.016	4.23	78.83	Not Available in Coils		.00047
.017	4.23	78.83			.00047
.018	4.23	78.83			.00047
.019	4.23	78.83			.00047
.020	4.23	78.83			.00050
.021	4.94	88.89			.00050
.022	4.94	88.89			.00050
.023	4.94	88.89			.00050
.024	4.94	88.89			.00050
.025	4.94	88.89			.00050
.031	4.94	88.89			.00050

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INSPECTION BALL KITS

GRADE 25 CHROME STEEL (R/C 60 MIN.)



Inspection ball kits are available from stock in the 14 most popular English sizes from 3/32" to 1.00", individually or all in a kit. The kit for each individual size contains 7 balls. A nominal fractional ball as well as one each of a +0.002", +001", +0005", +0002", and -0.001", -002". Kit BK-14 consists of all 14 individual size kits. The inspection ball kits are also excellent for ball sizing parts. Ball sizing is basically pushing a ball through a hole or tube which produces a certain finish or size.

Part #	Nominal Size		Price
BK-14	14 Sizes From 3/32" - 1" Kit	—	\$614.63
093-BK	3/32"	2.381 mm	44.17
125-BK	1/8"	3.175 mm	44.17
156-BK	5/32"	3.969 mm	44.17
187-BK	3/16"	4.763 mm	44.17
218-BK	7/32"	5.556 mm	44.17
250-BK	1/4"	6.35 mm	44.17
312-BK	5/16"	7.938 mm	46.03
375-BK	3/8"	9.525 mm	47.89
437-BK	7/16"	11.113 mm	47.89
500-BK	1/2"	12.7 mm	53.41
625-BK	5/8"	15.875 mm	53.41
750-BK	3/4"	19.05 mm	62.66
875-BK	7/8"	22.225 mm	73.71
100-BK	1"	25.4 mm	73.71

DECIMAL DIAMETER BALLS, OTHER MATERIALS AND
TOLERANCES AVAILABLE

CALL FOR PRICING & DELIVERY

Grade 25

BASIC DIAMETER

TOLERANCE = $\pm .0001$

DEVIATION FROM
SPHERICAL FORM
.000025

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CLASS X MEYER GAGE MG-25 SERIES



MG-25 PIN GAGE SETS

IN .0001" INCREMENTS OR .01mm INCREMENTS

Used as masters to calibrate measuring equipment and check linearity of comparators, micrometers, and calipers. These "Tenth Step" gage sets have unlimited applications, such as quality control inspection, prototype work and production layout. Inspectors select from the range of pins to find the size of a hole or slot. These round masters simulate a cylindrical part which unlike flat blocks can detect uneven wear on the tips of micrometers and calipers. The thin "line" of contact detects uneven face wear better than flat gage blocks with large contact area.

**SEE PAGE 67 FOR
MORE CLASS X GAGE SETS**

FEATURES:

- Each set contains 25 pieces of Class X tolerance (.00004") gage pins. Traceable to NIST.
- Choice of two tolerances Plus (+.00004") or Minus (-.00004").
- Sets consist of a center nominal size, and 12 gages larger in .0001" steps and 12 gages smaller in .0001" steps.
- Each gage is inspected and has a 2 micro-finish or better.
- Heat treated and through hardened to 60-62 Rockwell C.
- All pin gages over .060" or 1.51mm are laser marked with size direction of tolerance and serial number for traceability.

GAGE SET NO.	NOMINAL SIZE RANGE		SET PRICE
	<i>English</i>	<i>or Metric</i>	
MG1-25	.0110 to .0609	.28mm to 1.54mm	\$470.00
MG2-25	.0610 to .2509	1.55mm to 6.37mm	\$235.00
MG3-25	.2510 to .5009	6.38mm to 12.72mm	\$270.00
MG4-25	.5010 to .7499	12.73mm to 19.04mm	\$375.00
MG5-25	.7500 to .8129	19.05mm to 20.64mm	\$520.00

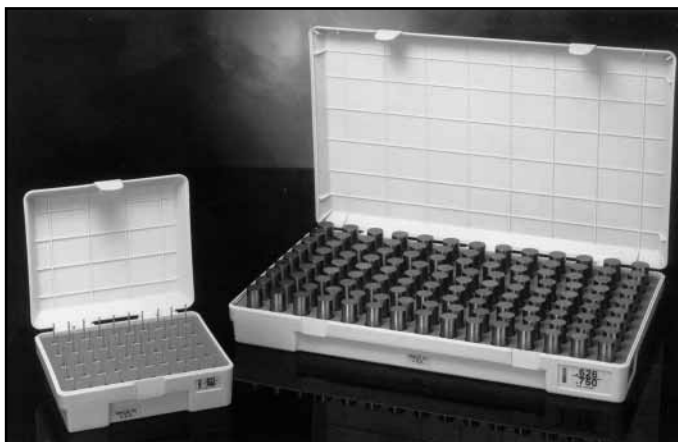
To order simply select your nominal size from any .0001" English or .01mm Metric increment and direction of tolerance. Then refer to the above chart to find the set price.

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PRECISION PLUG GAGE SETS


METRIC GAGE SETS

Gage Set Number	Gage Size	No. of Members	Price	Separate Member Price	Gage Set Number	Gage Size	No. of Members	Price	Separate Member Price
WTH-0	.011 - .060	50	120.00	5.50	WTH-0 mm	.22mm - 1.50mm	65	155.00	6.75
WTH-0-5	.0115 - .0605	50	130.00	5.50	WTH-01 mm	.23mm - 1.51mm	65	165.00	6.75
WTH-1	.061 - .250	190	270.00	5.00	WTH-1 mm	1.52mm - 7.70mm	310	550.00	6.25
WTH-1-5	.0615 - .2505	190	275.00	5.00	WTH-11 mm	1.53mm - 7.71mm	310	555.00	6.25
WTH-10	.011 - .250	240	370.00	—	WTH-2 mm	7.72mm - 12.70mm	250	590.00	6.25
WTH-105	.0115 - .2505	240	375.00	—	WTH-21 mm	7.73mm - 12.71mm	250	595.00	6.25
WTH-2	.251 - .500	250	400.00	5.00	WTH-3 mm	12.72mm - 15.30mm	130	655.00	7.75
WTH-2-5	.2515 - .5005	250	405.00	5.00	WTH-31 mm	12.73mm - 15.31mm	130	660.00	7.75
WTH-3	.501 - .625	125	470.00	6.75	WTH-4 mm	15.32mm - 17.80mm	125	695.00	12.00
WTH-3-5	.5015 - .6255	125	475.00	6.75	WTH-41 mm	15.33mm - 17.81mm	125	700.00	12.00
WTH-4	.626 - .750	125	520.00	9.75	WTH-5 mm	17.82mm - 20.36mm	128	825.00	14.50
WTH-4-5	.6265 - .7505	125	525.00	9.75	WTH-51 mm	17.83mm - 20.37mm	128	830.00	14.50
WTH-5	.751 - .832	82	880.00	14.75	WTH-6 mm	20.38mm - 22.04mm	84	985.00	17.00
WTH-5-5	.7515 - .8325	82	900.00	14.75	WTH-61 mm	20.39mm - 22.05mm	84	990.00	17.00
WTH-6	.833 - .916	84	1025.00	16.75	WTH-7 mm	22.06mm - 23.72mm	84	1135.00	19.00
WTH-6-5	.8335 - .9165	84	1030.00	16.75	WTH-71 mm	22.07mm - 22.73mm	84	1145.00	19.00
WTH-7	.917 - 1.000	84	1075.00	17.25	WTH-8 mm	23.74mm - 25.40mm	84	1170.00	21.50
WTH-7-5	.9175 - 1.0005	84	1080.00	17.25	WTH-81 mm	23.75mm - 25.41mm	84	1175.00	21.50

IN .02mm INCREMENTS

IN .001 INCREMENTS

IMPORTANT: SPECIFY PLUS OR MINUS TOLERANCE WHEN ORDERING GAGES
PLASTIC CASES

EACH HOLE SIZE MARKED ON INSERT.

Plastic insert for WTH-0 set	\$20.00 each
Plastic insert for WTH-1 thru WTH-8 sets	35.00 each
Plastic case for WTH-0 set	20.00 each
Plastic case for WTH-1 thru WTH-7 sets	40.00 each
Plastic case with insert for WTH-0 set	40.00 each
Plastic case with insert for WTH-1 thru WTH-7 sets	75.00 each

USES

- Checking locations.
- Measuring hole sizes and depths
- Go and No-Go gaging.
- Setting micrometers.
- Checking distances between holes.

FEATURES

- All Gages 2" long
- No sharp edges
- Boxes and Gages both marked (WTH-0 pins not etched)
- 8 Micro finish or better
- All english gages are inspected within .0001 tolerance limits
- All metric gages are inspected within .0025mm tolerance limits
- Heat treated to a hardness of Rockwell C 60-62
- Each set packaged in its own plastic case

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PRECISION PLUG GAGE SETS



CLASS X GAGE SETS .001 INCREMENTS

Gage Set	Range	Number of Members	Price	Separate Member Price
WTH-OX	.011" -.060"	50	650.00	31.00
WTH-O5X	.0115 -.0605	50	650.00	31.00
WTH-1X	.061 - .250	190	1710.00	26.00
WTH-15X	.0615 - .2505	190	1710.00	26.00
WTH-2X	.251 - .500	250	2260.00	21.50
WTH-25X	.2515 - .5005	250	2260.00	21.50
WTH-3X	.501 - .625	125	1920.00	23.50
WTH-35	.5015 - .6255	125	1920.00	23.50
WTH-4X	.626 - .750	125	2035.00	29.50
WTH-45	.6265 - .7505	125	2035.00	29.50
WTH-5X	.751 - .832	82	1710.00	32.50
WTH-55X	.7515 - .8325	82	1710.00	32.50
WTH-6X	.833 - .916	84	1800.00	32.50
WTH-65X	.8335 - .9165	84	1800.00	32.50
WTH-7X	.917 - 1.000	84	2065.00	32.50
WTH-75X	.9175 - 1.0005	84	2065.00	32.50

.000040 tolerance • Each set packaged in Plastic Case and Insert.

GAGE SET LIBRARIES: Conveniently store all your gages in one location
IMPORTANT! Specify plus or minus tolerance when ordering gages

.0001 (CLASS Z) LIBRARY SERIES

Model Number	Wt./lbs.	Range	Number of members	Price
L-S	87	.011" - .625"	(615 gages)	1490.00
L-C	120	.011" - .750"	(740 gages)	2155.00
L-1	120	.061" - .750"	(690 gages)	2060.00
L-2	95	.061" - .5005"	(880 gages in .0005" increments)	1750.00
L-2C	96	.011" - .5005"	(980 gages in .0005" increments)	1945.00
L-3*	240	.061" - 1.000"	(940 gages)	5245.00
L-4*	240	.011" - 1.000"	(990 gages)	5345.00
L-5	140	.751" - 1.000"	(250 gages)	3435.00

.00004 (CLASS X) LIBRARY SERIES

Model Number	Wt./lbs.	Range	Number of members	Price
L-CX	120	.011" - .750"	(740 gages)	7820.00
L-1X	122	.061" - .750"	(690 gages)	7250.00
L-2X	98	.061" - .5005"	(880 gages in .0005 increments)	7125.00
L-2CX	100	.011" - .5005"	(980 gages in .0005" increments)	8150.00
L-3X*	260	.061" - 1.000"	(940 gages)	12245.00
L-4X*	250	.011" - 1.000"	(990 gages)	12730.00

* Consists of one seven drawer cabinet.

METRIC LIBRARY SERIES (.0025mm)

Model Number	Wt./lbs.	Range	Number of members	Price
L-10 mm	124	1.52mm - 17.80mm	(815 gages)	2645.00
L-11 mm	124	1.53mm - 17.81mm	(815 gages)	2645.00
L-20 mm	183	17.82mm - 25.40mm	(380 gages)	4180.00
L-21 mm	183	17.83mm - 25.41mm	(380 gages)	4180.00
L-30 mm**	305	1.52mm - 25.40mm	(1195 gages)	6820.00
L-31 mm**	305	1.53mm - 25.41mm	(1195 gages)	6820.00

**Consists of 2 four drawer cabinets

Upgrade Existing Sets

L-E 4	38	four drawer cabinet empty	450.00
L-IN 4	46	four drawer cabinet with four inserts of your choice	545.00

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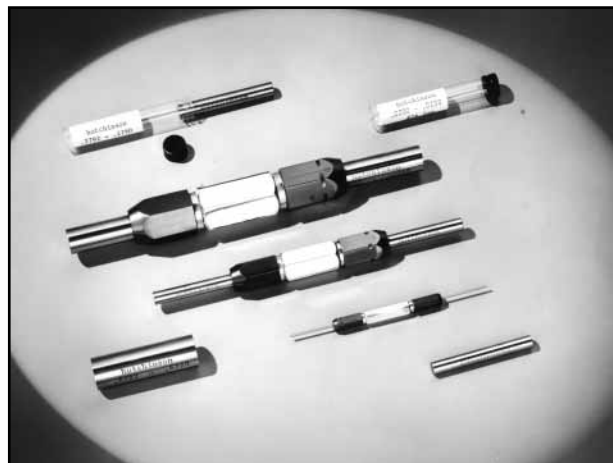
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REVERSIBLE PLUG GAGES

Hutchinson HSS gages are an ideal low cost solution to a variety of dimensioning problems.

All gage members are made of M2 high speed steel hardness "C" 62-64.



YOUR CHOICE OF THREE TOLERANCES

+ .0002	+ .0000	+ .0001
- .0000	- .0002	- .0001

2" LONG HSS GAGE MEMBER PRICES

.0030-.0049 20.00 .076 MM - .126 MM .0050-.0069 19.00 .127 MM - .176 MM .0070-.0099 16.00 .177 MM - .253 MM .0100-.0200 6.00 .254 MM - .508 MM .0201-.0312 4.78 .511 MM - .793 MM .0313-.0938 4.15 .795 MM - 2.383 MM .0939 - .1250 4.39 2.385MM - 3.175 MM .1251 - .1875 5.66 3.178 MM - 4.763 MM .1876 - .2500 6.17 4.765 MM - 6.350 MM	.2501-.3125 6.73 6.353 MM - 7.938 MM .3126 - .3750 7.10 7.940 MM - 9.525 MM .3751-.5000 7.99 9.528. MM - 12.700 MM .5001 - .5625 9.89 12.703 - 14.288 MM .5626 - .6250 10.69 14.290 MM - 15.875 MM .6251 - .6875 11.99 15.878 MM - 17.463 MM .6876 - .7500 13.00 17.465 MM - 19.050 MM .7501 - .8125 14.57 19.053 MM - 20.638 MM .8126 - .8750 15.87 20.640 MM - 22.225 MM	.8751 - .9375 18.64 22.228 MM - 23.813 MM .9376-1.0000 20.35 23.815 MM - 25.400 MM 1.0001-1.0625 25.13 25.403 MM - 26.988 MM 1.0626-1.1250. 28.00 26.990 MM - 30.163 MM 1.1251 - 1.2500 33.30 30.165 MM - 31.750 MM 1.2501 - 1.3125 35.51 31.753 MM - 33.338 MM 1.3126 - 1.3750 38.85 33.340 MM - 34.925 MM 1.3751 - 1.4375 43.36 34.928 MM - 36.513 MM 1.4376 - 1.5000 47.70 36.515 MM - 38.100 MM
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Standard Plug Gage Classes For Product Tolerances

Normal practice for product gage tolerance is to allow 10% of the product to be equally divided between "go" and "no-go". In the case of plug gages, "go" is normally a plus tolerance and "no-go" is normally a minus tolerance.

Standard Gagemakers' Tolerance Chart

Size Range	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
Above To and including	XXXX	XXX	XX	X	Y	Z
.0009 - .010	.000005	.00001	.00002	.00004	.00007	.00010
.010 - .029	.000005	.00001	.00002	.00004	.00007	.00010
.029 - .825	.000005	.00001	.00002	.00004	.00007	.00010
.825 - 1.510	.000008	.000015	.00003	.00006	.00009	.00012
1.510 - 2.510	.00001	.00002	.00004	.00008	.00012	.00016
2.510 - 4.510	.000013	.000025	.00005	.00010	.00015	.00020
4.510 - 6.510	.000017	.000033	.000065	.00013	.00019	.00025
6.510 - 9.010	.00002	.00004	.00008	.00016	.00024	.00032
9.010 - 12.260	.000025	.00005	.00010	.00020	.00030	.00040

PLEASE USE THIS CHART FOR GAGES
ON THE FOLLOWING PAGES

Single or Double End Handles for above gages

Handle Number	Size Range	Price Each
1W	.000 - .075	11.75
2W	.075 - .180	10.50
3W	.180 - .281	11.75
4W	.281 - .406	14.50
5W	.406 - .510	17.00
6W	.510 - .635	21.75
7W	.635 - .760	24.50
8W	.760 - 1.010	34.75

All handles supplied complete with bushings.

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TRILOCKS - STEEL AND CHROME

SIZE RANGE Above - Through	CLASS	STD GO MEMBER ONLY			STD NO GO MEMBER ONLY			HANDLE	
		Length	Steel	Chrome	Length	Steel	Chrome	No.	Price
.760 IN - .947 IN 19.30 MM - 24.05 MM	XX		121.50	214.44	3/4 in.	117.50	194.06	2 1/2	23.50
	X	1 1/4 IN	90.80	181.60	19.1MM	86.50	166.98		
	Y	31.8 MM	81.00	155.80		77.00	143.34		
	Z		64.80	129.60		60.96	121.92		
.947 IN - 1.135 IN 24.05 MM - 28.83 MM	XX		124.25	217.70	3/4 in.	117.50	196.20	3 1/2	25.00
	X	1 3/8 IN	93.26	186.52	19.1 MM	89.25	170.62		
	Y	34.9 MM	83.75	160.10		81.00	146.54		
	Z		69.09	138.18		64.80	129.60		
1.135 IN - 1.510 IN 28.83 MM - 38.35 MM	XX		127.00	233.78	3/4 IN.	121.50	209.72	4 1/2	26.50
	X	1 1/2 IN.	101.97	203.94	19.1 MM	94.50	186.08		
	Y	38.1 MM	87.75	169.12		83.75	154.28		
	Z		74.25	143.34		66.51	133.02		
1.510 IN - 2.010 IN 38.35 MM - 51.05 MM	XX		183.75	345.76		174.25	313.30	5 1/2	29.75
	X	1 7/8 IN	146.12	292.24	7/8 IN	139.25	254.84		
	Y	47.8 MM	131.29	262.58	22.2 MM	116.25	228.98		
	Z		112.25	214.02		101.25	200.26		
2.010 IN - 2.510 IN 51.05 MM - 63.75 MM	XX		207.57	415.14		193.25	377.76	6	33.75
	X	2 IN	172.88	345.76	7/8 IN	156.65	313.30		
	Y	50.8 MM	152.99	305.98	22.2 MM	136.50	267.54		
	Z		133.75	257.22		124.25	227.78		
2.510 IN - 3.010 IN 63.75 MM - 76.45 MM	XX		248.50	471.10		229.50	414.10	7	37.25
	X	2 IN	200.81	401.62	1 IN	170.25	335.88		
	Y	50.8 MM	172.88	345.76	25.4MM	150.53	301.06		
	Z		143.23	286.46		129.69	259.38		
3.010 IN - 3.510 IN 76.45 MM - 89.15 MM	XX		358.75	575.24		313.25	495.94	7	37.25
	X	2 IN	295.75	439.88	1 IN	260.75	409.36		
	Y	50.8 MM	240.50	410.66	25.4 MM	206.75	358.42		
	Z		213.50	351.98		179.75	308.56		
3.510 IN - 4.010 IN 89.15 MM - 101.85 MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	54.0 MM			25.4 MM				
	Z								
4.010 IN - 4.510 IN 101.85 MM - 114.55 MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	50.8 MM			25.4 MM				
	Z								
4.510 IN - 5.010 IN 114.55MM - 127.25 MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	54.0 MM			25.4 MM				
	Z								
5.010 IN - 5.510 IN 127.25 MM - 139.95 MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	54.0 MM			25.4 MM				
	Z								
5.510 IN - 6.010 IN 139.95 MM - 152.65 MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	54.0 MM			25.4 MM				
	Z								
6.010 IN - 6.510 IN 152.65 MM - 165.35 MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	54.0 MM			25.4 MM				
	Z								
6.510 IN - 7.010 IN 165.35MM - 178.05MM	XX							7	37.25
	X	2 1/8 IN			1 IN				
	Y	54.0 MM			25.4 MM				
	Z								

Prices
on
Application

Prices
on
Application

Additional sizes available through 8.010 in.

See page 74 for Progressive Trilocks

Trilocks are also available in Carbide.
Call for pricing and delivery



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REVERSIBLE PLUG GAGES

Size / Range		Class	Tolerance in inches	Member Length	Reversible Go or No Go		AGD Handle single or double end	
Above	To and Including				Steel	Carbide	No.	Price
.011 IN - .020 IN .279 MM - .508 MM		XX	.00002	2 IN 50.8 MM	67.25	—	1 W	11.75
		X	.00004		39.00	—		
		Y	.00007		33.00	—		
		Z	.00010		32.00	—		
.020 IN - .030 IN .508 MM - .762 MM		XX	.00002	2 IN 50.8 MM	67.25	—	1 W	11.75
		X	.00004		36.00	—		
		Y	.00007		33.00	—		
		Z	.00010		29.00	—		
.030 IN - .040 IN .762 MM - 1.02 MM		XX	.00002	2 IN 50.8 MM	67.25	—	1 W	11.75
		X	.00004		31.00	—		
		Y	.00007		31.00	—		
		Z	.00010		21.00	—		
.040 IN - .075 IN 1.02 MM - 1.91 MM		XX	.00002	2 IN 50.8 MM	67.25	127.00	1 W	11.75
		X	.00004		31.00	121.00		
		Y	.00007		31.00	115.00		
		Z	.00010		21.00	108.00		
.075 IN - .116 IN 1.91 MM - 2.92 MM		XX	.00002	2 IN 50.8 MM	59.00	127.00	2 W	10.75
		X	.00004		26.00	121.00		
		Y	.00007		26.00	115.00		
		Z	.00010		20.00	108.00		
.116 IN - .130 IN 2.92 MM - 3.30 MM		XX	.00002	2 IN 50.8 MM	59.00	77.00	2 W	10.75
		X	.00004		26.00	71.00		
		Y	.00007		26.00	65.00		
		Z	.00010		17.00	63.00		
.130 IN - .180 IN 3.30 MM - 4.57 MM		XX	.00002	2 IN 50.8 MM	59.00	79.00	2 W	10.75
		X	.00004		26.00	76.00		
		Y	.00007		26.00	70.00		
		Z	.00010		17.00	65.00		
.180 IN - .230 IN 4.57 MM - 5.84 MM		XX	.00002	2 IN 50.8 MM	55.75	83.00	3 W	11.75
		X	.00004		22.00	79.00		
		Y	.00007		21.00	76.00		
		Z	.00010		18.00	70.00		
.230 IN - .281 IN 5.84 MM - 7.14 MM		XX	.00002	2 IN 50.8 MM	55.75	96.00	3 W	11.75
		X	.00004		22.00	88.00		
		Y	.00007		21.00	80.00		
		Z	.00010		18.00	81.00		
.281 IN - .344 IN 7.14 MM - 8.74 MM		XX	.00002	2 IN 50.8 MM	56.75	98.00	4 W	14.50
		X	.00004		26.00	91.00		
		Y	.00007		23.00	85.00		
		Z	.00010		18.00	82.00		
.344 IN - .406 IN 8.74 MM - 10.31 MM		XX	.00002	2 IN 50.8 MM	56.75	106.00	4 W	14.50
		X	.00004		26.00	102.00		
		Y	.00007		23.00	99.00		
		Z	.00010		18.00	97.00		
.406 IN - .460 IN 10.31 MM - 11.68 MM		XX	.00002	2 IN 50.8 MM	61.00	113.00	5 W	18.50
		X	.00004		27.00	108.00		
		Y	.00007		24.00	105.00		
		Z	.00010		20.00	100.00		
.460 IN - .510 IN 11.68 MM - 12.95 MM		XX	.00002	2 IN 50.8 MM	61.00	120.00	5 W	18.50
		X	.00004		27.00	113.00		
		Y	.00007		26.00	108.00		
		Z	.00010		24.00	105.00		

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REVERSIBLE PLUG GAGES

Size / Range		Class	Tolerance in inches	Member Length	Reversible Go or No Go		AGD Handle single or double end	
Above	To and Including				Steel	Carbide	No.	Price
.510 IN - .560 IN 12.95 MM - 14.22 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	63.00 29.00 26.00 24.00	167.00 162.00 156.00 149.00	6 W	23.50
.560 IN - .635 IN 14.22 MM - 16.13 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	63.00 29.00 26.00 24.00	200.00 190.00 185.00 178.00	6 W	23.50
.635 IN - .700 IN 16.13 MM - 17.78 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	67.25 32.00 29.50 24.00	215.00 206.00 199.00 188.00	7 W	26.50
.700 IN - .760 IN 17.78 MM - 19.30 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	67.25 32.00 30.00 29.00	265.00 255.00 244.00 235.00	7 W	26.50
.760 IN - .825 IN 19.30 MM - 20.95 MM		XX X Y Z	.00002 .00004 .00007 .00010	2 IN 50.8 MM	102.00 32.50 32.50 29.00	— — — —	8 W	40.25
.825 IN - 1.000 IN 20.95 MM - 25.40 MM		XX X Y Z	.00003 .00006 .00009 .00012	2 IN 50.8 MM	102.00 47.00 42.00 38.00	— — — —	8 W	40.25

- Go gages supplied with plus tolerance
- No go gages supplied with minus tolerance
- Bi-lateral (Split) tolerances also available at above listed prices
- Extra long gages in steel and chrome are available up to 6 in (152.4mm) for diameters above .075
- Quantity discounts available - Call for quotation
- Certification of calibration available for additional charge
- All handles supplied complete with bushings
- For larger gauges - see trilocks on page 69.
- For class "X" gauges up to 6" long - see page 74.



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RING GAGES

Size / Range Above To and Including	Class	Tolerance in inches	Standard A.G.D Blank size		Price Each		
			Length	O.D.	Steel	Chrome	Carbide
.015 IN - .040 IN 0.381 MM - 1.02 MM	XX	.00002	BLANK #000		PRICES ON APPLICATION	—	—
	X	.00004	$\frac{3}{32}$ IN	$\frac{15}{16}$ IN		—	—
	Y	.00007	2.37 MM	23.8 MM		—	—
	Z	.00010				—	—
.040 IN - .070 IN 1.02 MM - 2.54 MM	XX	.00002	BLANK #00		254.87	—	407.22
	X	.00004	$\frac{3}{16}$ IN	$\frac{15}{16}$ IN	229.39	—	366.51
	Y	.00007	4.8 MM	23.8 MM	205.00	—	325.79
	Z	.00010			203.90	—	325.79
.0701 IN - .1500 IN 2.54 MM - 3.81 MM	XX	.00002	BLANK #00		221.64	—	370.21
	X	.00004	$\frac{3}{16}$ IN	$\frac{15}{16}$ IN	175.00	—	333.19
	Y	.00007	4.8 MM	23.8 MM	177.31	—	296.16
	Z	.00010			177.31	—	296.16
.150 IN - .185 IN 3.81 MM - 4.70 MM	XX	.00002	BLANK #00		192.73	269.82	336.56
	X	.00004	$\frac{3}{16}$ IN	$\frac{15}{16}$ IN	173.46	242.84	302.90
	Y	.00007	4.8 MM	23.8 MM	154.18	215.86	269.24
	Z	.00010			154.18	215.86	269.24
.185 IN - .230 IN 4.70 MM - 5.84 MM	XX	.00002	BLANK #0		183.55	256.97	326.75
	X	.00004	$\frac{3}{8}$ IN	$\frac{15}{16}$ IN	165.20	231.27	294.08
	Y	.00007	9.5 MM	23.8 MM	146.83	205.58	261.41
	Z	.00010			146.83	205.58	261.41
.230 IN - .365 IN 5.84 MM - 9.27 MM	XX	.00002	BLANK #1		174.80	244.73	317.24
	X	.00004	$\frac{5}{16}$ IN	1 IN	157.33	220.26	285.51
	Y	.00007	14.3 MM	28.6 MM	139.85	195.78	253.79
	Z	.00010			139.85	195.78	253.79
.365 IN - .510 IN 9.27 MM - 12.95 MM	XX	.00002	BLANK #2		166.48	233.08	307.99
	X	.00004	$\frac{3}{4}$ IN	1 3/8 IN	149.84	209.78	277.20
	Y	.00007	19.1 MM	34.9 MM	133.19	186.46	246.40
	Z	.00010			133.19	186.46	246.40
.510 IN - .825 IN 12.95 MM - 20.95 MM	XX	.00002	BLANK #3		174.80	244.73	400.39
	X	.00004	$\frac{15}{16}$ IN	1 1/4 IN	157.33	220.26	360.36
	Y	.00007	23.8 MM	44.4MM	139.85	195.78	320.32
	Z	.00010			139.85	195.78	320.32
.825 IN - 1.135 IN 20.95 MM - 28.83 MM	XX	.00003	BLANK #4		183.55	256.97	520.51
	X	.00006	1 1/8 IN	2 1/8 IN	165.20	231.27	468.46
	Y	.00009	28.6 MM	54.0 MM	146.83	205.58	416.40
	Z	.00012			146.83	205.58	416.40

- Choice of three tolerances: Go - Unilateral minus
No Go - Unilateral plus
Master - Bilateral (split)
- Carbide rings have tungsten carbide inserts and steel jackets
- All ring gages are lapped to size and polished
- Roundness and taper of all gages will not exceed 50% of the applicable gagemakers size tolerance and are non-accumulative.

Also Available: Aluminum Ring Gage Holders — SEE PAGE 73



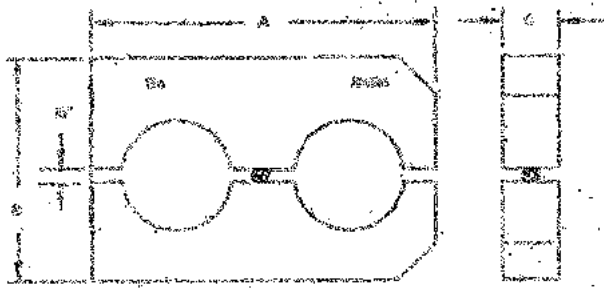
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RING GAGES

Size / Range Above To and Including	Class	Tolerance in inches	Standard A.G.D Blank size		Price Each		
			Length	O.D.	Steel	Chrome	Carbide
1.135 IN - 1.510 IN 28.83 MM - 38.35 MM	XX	.00004	BLANK # 5		229.44	295.52	702.69
	X	.00006	1 $\frac{1}{16}$ IN	2 $\frac{1}{2}$ IN	206.49	265.97	632.42
	Y	.00009	33.3MM	63.5 MM	183.55	236.41	562.16
	Z	.00012			183.55	236.41	562.16
1.510 IN - 2.010 IN 38.35 MM - 51.05 MM	XX	.00004	BLANK #6		263.85	340.00	948.63
	X	.00008	1 $\frac{1}{2}$ IN	4 IN	237.46	305.86	853.77
	Y	.00012	38.1 MM	101.6MM	211.08	275.00	758.90
	Z	.00016			211.08	271.87	758.90
2.010 IN - 2.510 IN 51.05 MM - 63.75 MM	XX	.00004	BLANK #7		311.34	435.00	1233.22
	X	.00008	1 $\frac{1}{2}$ IN	4 $\frac{1}{2}$ IN	280.21	385.00	1109.90
	Y	.00012	38.1 MM	101.6 MM	249.07	339.85	986.57
	Z	.00016			249.07	339.85	986.57
2.510 IN - 3.010 IN 63.75 MM - 76.45 MM	XX	.00005	BLANK #8		367.39	530.99	1541.52
	X	.00010	1 $\frac{1}{2}$ IN	5 IN	330.65	477.91	1387.37
	Y	.00015	38.1 MM	127.0 MM	293.90	424.80	1233.22
	Z	.00020			293.90	424.80	1233.22
3.010 IN - 3.510 IN 76.45 MM - 89.15 MM	XX	.00005	#9		433.52	610.65	1926.90
	X	.00010	1 $\frac{1}{2}$ IN	5 $\frac{1}{2}$ IN	390.16	549.58	1734.22
	Y	.00015	38.1 MM	139.7 MM	346.82	488.51	1541.52
	Z	.00020			346.82	488.51	1541.52
3.510 IN - 4.010 IN 89.15 MM - 101.85 MM	XX	.00005	#10		511.55	702.21	2408.63
	X	.00010	1 $\frac{1}{2}$ IN	6 $\frac{3}{8}$ IN	460.39	632.03	2167.78
	Y	.00015	38.1 MM	161.9 MM	409.24	561.80	1926.90
	Z	.00020			409.24	561.80	1926.90

Ring Gage Holders



Black Anodized Aluminum

FOR RING BLANK NO.	A	B	C	PRICE EACH
000	2-7/8	1-3/4	3/16	67.86
00	2-7/8	1-3/4	3/16	67.86
0	2-7/8	1-3/4	3/8	67.86
1	3-1/2	2-1/4	9/16	67.86
2	4-1/4	2-1/2	3/4	67.86
3	5	2-7/8	15/16	87.86
4	5-3/4	3-1/4	1-1/8	87.86
5	6-1/2	3-5/8	1-15/16	87.86

*** Pricing good until stock is depleted ***

Chrome ring gages available in sizes up to 12.260 in (311.40 mm)

Steel ring gages available in sizes up to 16.010 in (406.65 mm)

Call for pricing and delivery

Quantity discounts available on all ring gages

WILLIAM T. HUTCHINSON CO.

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

www.hssblanks.com

EXTRA LENGTH CLASS "X" GAGES

Reversible pin gages in English and Metric up to 6" lengths. Ideal for deep and hard to reach holes or slots.

- Centerless lapped to a 5 microfinish
- Up to 6" long
- NIST Traceable
- Stabilized and heat treated to 60-62 RC
- Plus, Minus or Bilateral tolerance

Inch Size	Millimeter Size	3" Price	4" Price	5" Price	6" Price
.0110 IN - .0300 IN	.279 MM - .762 MM	165.00	225.00	475.00	550.00
.0301 IN - .0750 IN	.763 MM - 1.905 MM	100.00	125.00	200.00	385.00
.0751 IN - .1800 IN	1.906 MM - 4.572 MM	100.00	125.00	165.00	195.00
.1801 IN - .2810 IN	4.573 MM - 7.137 MM	100.00	125.00	165.00	195.00
.2811 IN - .4060 IN	7.138 MM - 10.312 MM	100.00	125.00	165.00	195.00
.4061 IN - .5100 IN	10.313 MM - 12.954 MM	110.00	135.00	180.00	210.00
.5101 IN - .6350 IN	12.955 MM - 16.129 MM	110.00	135.00	185.00	225.00
.6351 IN - .7600 IN	16.130 MM - 19.304 MM	110.00	135.00	185.00	225.00
.7601 IN - 1.0100 IN	19.305 MM - 25.654 MM	150.00	175.00	250.00	325.00

No guarantee of straightness, due to Centerless Grinding process on these products

PROGRESSIVE TRILOCK GAGES

When you need to check parts quickly, Progressive plug gages are the best choice. Both the GO and NOGO diameters are stepped on a single gage member. All members are securely attached to a Trilock handle. All handles are marked with sizes and direction of tolerance.

- Class XX, X, Y, Z
- NIST traceable
- GO, NOGO tolerances
- Tool Steel 60/62 Rockwell C

Size / Range	Class	Tolerance Inches	Member Length	GO Portion	NOGO Portion	Steel	Chrome	Handle	
								#	Price
1.5101 IN - 2.010 IN 38.35 MM - 51.05 MM	XX	.00004	2 7/8 IN 73.0 MM	1 7/8 IN 47.6 MM	7/8 IN 22.2 MM			5 1/2	
	X	.00008							
	Y	.00012							
	Z	.00016							
2.0101 IN - 2.510 IN 51.05 MM - 63.75 MM	XX	.00004	3 IN 76.2 MM	2 IN 50.8 MM	7/8 IN 22.2 MM			6	
	X	.00008							
	Y	.00012							
	Z	.00016							
2.5101 IN - 3.010 IN 63.75 MM - 76.45 MM	XX	.00005	3 IN 76.2 MM	2 IN 50.8 MM	7/8 IN 22.2 MM	Call for Pricing	Call for Pricing	7	Call for Pricing
	X	.00010							
	Y	.00015							
	Z	.00020							
3.0101 IN - 3.510 IN 76.45 MM - 89.15 MM	XX	.00005	3 IN 76.2 MM	2 IN 50.8 MM	7/8 IN 22.2 MM	Call for Pricing	Call for Pricing	7	Call for Pricing
	X	.00010							
	Y	.00015							
	Z	.00020							
3.5101 IN - 4.010 IN 89.15 MM - 101.85 MM	XX	.00005	3 1/8 IN 79.4 MM	2 1/8 IN 54.0 MM	7/8 IN 22.2 MM			7	
	X	.00010							
	Y	.00015							
	Z	.00020							
4.0101 IN - 4.510 IN 101.85 MM - 114.55 MM	XX	.00005	3 1/8 IN 79.4 MM	2 1/8 IN 54.0 MM	7/8 IN 22.2 MM			7	
	X	.00010							
	Y	.00015							
	Z	.00020							

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STANDARD PRODUCTS AVAILABLE IN THE FOLLOWING MATERIALS —

Hardened Round Blanks

M2	R/C 62-64
M42	R/C 66-68
ASP30	R/C 65-67
T15PM	R/C 64-66
M4PM	R/C 63-65
ASP60	R/C 67-69
ASP23	R/C 63-65
CPM10V	R/C 62-64
WKE45	R/C 67-69
O1	R/C 60-62
A2	R/C 58-60

Hardened Round Blanks cont.

S7	R/C 58-60
D2	R/C 60-62
AISI 440C	R/C 58-60

Case Hardened Rounds

AISI C-1060	R/C 60-65
AISI 440C	R/C 50-55
AISI 52100	R/C 58-63

Annealed Rounds

M2	A2
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Annealed Rounds cont.

S7	O1
D2	

Hardened Squares & Flats

M2	R/C 64.5-66
M3	R/C 65-66.5
M42	R/C 67-69
T15	R/C 65-67
T15 PM	R/C 65-67
M34	R/C 65-67
WKE45	R/C 67-69

DRILL BLANKS						
Carbide Blanks	15	End Mills.....	23	Diamond Tools	47, 48	
Drill Blank Sets	9	Rotary Files	26	Dovetail Tool Blanks	46	
Drill Rod	10, 11	LINEAR MOTION COMPONENTS			Dowel Pins	49, 50
Engraving Blanks (Carbide)	14	Pillow Blocks	31	Feeler Gauge Stock	61, 62	
HSS Blanks	2-9	Shafting	32-34	Ground Flat Stock	57, 58	
Stainless Steel Blanks.....	18	Supports.....	31, 34	Hammers & Mallets	53, 54	
Super HSS Blanks	12, 13	MOLD & DIE SUPPLIES			Indexable Inserts.....	46
Tool Steel Blanks	16, 17	Core Pins	39	Screws	51, 52	
CUTTING TOOLS			Ejector Pins	36, 37	Shim Stock	55, 56
Cap Screw Counterbores	30	Ejector Sleeves	35	Toolbits	41-43	
Chucking Reamers	27-29	Punches	38, 40	INSPECTION & GAGING		
Comb. Drill & Countersinks	24	SHOP TOOLS & SUPPLIES			Balls	63
Countersinks	25, 26	Carbide Blanks-1000 & 2000	44	Plug Gage Sets.....	64-66	
Drill Sets	9	Carbide Blanks-STB & STBL	45	Plug Gages	65-67, 69-73	
Drills - Extension	22	Carbide Bushings.....	59, 60	Ring Gages	71-72	
Drills - Jobber.....	19-21	Cutoff Wheels.....	47, 48	Ring Gage Holders.....	72	
				Trilocks.....	68, 73	

VISIT WWW.HSSBLANKS.COM FOR COMPLETE CATALOG AND
ADDITIONAL PRODUCT INFORMATION AND UPDATES

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