



# 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	1.57	2.13
62	.0380	1 1/2	1.57	2.13
63	.0370	1 1/2	1.57	2.13
64	.0360	1 1/2	1.57	2.13
65	.0350	1 1/2	1.78	2.44
66	.0330	1 1/2	1.78	2.44
67	.0320	1 1/2	1.78	2.44
1/32	.03125	1 1/2	1.78	2.44
68	.0310	1 1/2	1.78	2.44
69	.0292	1 1/2	1.92	2.50
70	.0280	1 1/2	1.92	2.50
71	.0260	1 1/2	1.92	2.50
72	.0250	1 1/2	2.25	3.14
73	.0240	1 1/2	2.25	3.14
74	.0225	1 1/2	2.25	3.14
75	.0210	1 1/2	2.25	3.14
76	.0200	1 1/2	2.77	3.87
77	.0180	1 1/2	2.77	3.87
78	.0160	1 1/2	2.77	3.87
1/64	.015625	1 1/2	2.77	3.87
79	.0145	1 1/2	2.77	3.87
80	.0135	1 1/2	2.77	3.87

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
61	.0390	2	1.93	2.65
62	.0380	2	1.93	2.65
63	.0370	2	1.93	2.65
64	.0360	2	1.93	2.65
65	.0350	2	2.08	2.88
66	.0330	2	2.08	2.88
67	.0320	2	2.08	2.88
1/32	.03125	2	2.08	2.88
68	.0310	2	2.08	2.88
69	.0292	2	2.47	3.45
70	.0280	2	2.47	3.45
71	.0260	2	2.47	3.45
72	.0250	2	2.83	3.94
73	.0240	2	2.83	3.94
74	.0225	2	2.83	3.94
75	.0210	2	2.83	3.94
76	.0200	2	3.73	5.25
77	.0180	2	3.73	5.25
78	.0160	2	3.73	5.25
1/64	.015625	2	3.73	5.25
79	.0145	2	3.73	5.25
80	.0135	2	3.73	5.25

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

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

<b>QUANTITY DISCOUNTS</b>	
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









# HIGH SPEED STEEL DRILL BLANKS

## 36 INCH HSS LENGTHS TOLERANCE ± .001

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

FRACTIONAL SIZE DRILL RODS	DECIMAL EQUIVALENT	ANNEALED M2 HIGH SPEED BLANKS-36"	HARDENED GROUND HIGH SPEED BLANKS-36"
1/16	.0625	7.89	19.18
5/64	.0781	8.45	20.71
3/32	.0938	9.01	20.80
7/64	.1094	9.50	22.86
1/8	.1250	10.43	23.97
9/64	.1406	11.55	24.11
5/32	.1562	12.80	24.26
11/64	.1719	14.09	25.44
3/16	.1875	15.15	25.62
13/64	.2031	16.57	26.69
7/32	.2188	18.05	26.91
15/64	.2344	19.31	28.03
1/4	.2500	21.02	29.28
17/64	.2656	22.94	32.42
9/32	.2812	24.82	32.70
19/64	.2969	26.93	34.28
5/16	.3125	29.17	34.60
21/64	.3281	31.35	39.26
11/32	.3438	33.79	41.61
23/64	.3594	35.90	43.82
3/8	.3750	38.38	44.19
25/64	.3906	41.09	50.94
13/32	.4062	43.76	51.15
27/64	.4219	46.70	54.09
7/16	.4375	49.76	56.13
29/64	.4531	52.73	57.13
15/32	.4688	55.01	59.60
31/64	.4844	59.37	61.26
1/2	.5000	62.67	63.76
17/32	.5312	69.70	161.78
9/16	.5625	77.45	171.18
5/8	.6250	91.05	185.44
11/16	.6875	108.67	209.02
23/32	.7188	117.94	215.38
3/4	.7500	127.64	220.38
7/8	.8750	170.74	245.74
1	1.0000	220.37	275.46
1 1/8	1.1250	292.16	370.02

## 36 INCH HARDENED & GROUND HSS LENGTHS

### WIRE SIZE TOLERANCE ±.0003

Wire Size	Decimal Equiv.	Price Each
61	.0390	21.95
62	.0380	21.95
63	.0370	21.95
64	.0360	21.95
65	.0350	22.24
66	.0330	22.24
67	.0320	22.24
68	.0310	22.45
69	.0292	22.45
70	.0280	22.45
71	.0260	23.06
72	.0250	23.06
73	.0240	23.06
74	.0225	23.66
75	.0210	23.66
76	.0200	23.66
77	.0180	24.11
78	.0160	24.11
79	.0145	24.64
80	.0135	24.64

### METRIC SIZE TOLERANCE +.0000 -.0005

Metric Size	Decimal Equiv.	Price Each
.50mm	.0199	23.66
.60	.0236	23.06
.70	.0276	22.45
.80	.0315	22.45
.90	.0354	22.24
1.00	.0394	21.95
1.10	.0433	21.95
1.20	.0472	21.04
1.30	.0512	21.04
1.40	.0551	21.04
1.50	.0591	20.14
1.60	.0630	20.14
1.70	.0669	20.14
1.80	.0709	21.75
1.90	.0748	21.75
2.00	.0787	21.75
2.10	.0827	21.84
2.20	.866	21.84
2.30	.0906	21.84
2.40	.0945	24.00
2.50	.0984	24.00

## 24 INCH HARDENED & GROUND HSS LENGTHS

TOLERANCE ± .001

Diameter Inches	Decimal Equivalent	Price Each
17/32	.5312	97.00
9/16	.5625	111.75
5/8	.6250	116.50
11/16	.6875	140.75
23/32	.7188	148.50
3/4	.7500	156.50
13/16	.8125	177.00
7/8	.8750	182.00
1	1.0000	208.00

## WILLIAM T. HUTCHINSON CO.

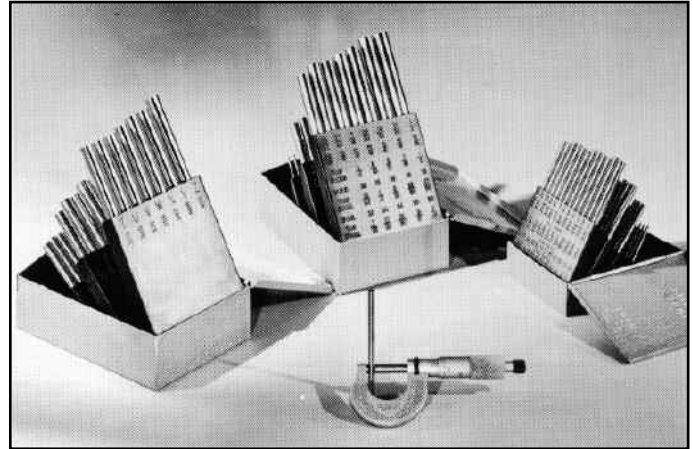
TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

# 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.

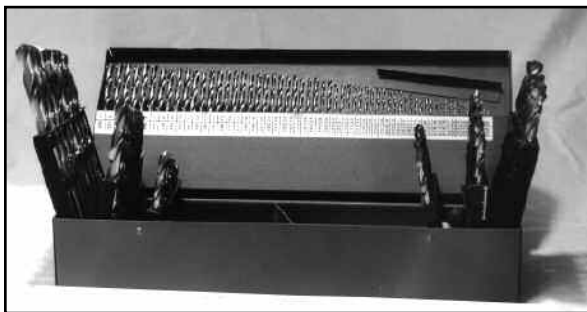
Please specify when ordering: Drill set / Drill blank ( $^{+.0000}_{-.0002}$ ) set / Reamer Blank ( $^{+.0002}_{-.0000}$ ) set

	DRILL SET	M2 HSS BLANK SET	INDEX ONLY
LETTER SET "A" - "Z" 26 PIECES	95.35	121.59	9.45
WIRE SET #1 - #60 60 PIECES	81.90	103.89	7.45
WIRE SET #61 - #80 20 PIECES	29.00	49.34	4.95
FRACTIONAL SET 1/16" - 1/2" x 1/64ths 29 PIECES	110.30	136.98	8.65
FRACTIONAL SET 1/16" - 1/2" x 1/32nds 15 PIECES	59.60	74.25	7.10



METRIC BLANKS AVAILABLE AS  
DRILL BLANKS ( $^{+.0000}_{-.0051}$  MM )OR  
REAMER BLANKS ( $^{+.0051}_{-.0000}$  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	27.73	6.15
1 mm. - 13mm. x 1/2 mm. 25 PIECES	99.30	132.43	8.65
1 mm. - 5.9 mm. x .1 mm. 50 PIECES	75.45	104.63	9.65
6 mm. - 10 mm. x .1 mm. 41 PIECES	178.40	220.79	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	371.56	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	2.48
5/64	.0781	4.26
3/32	.0937	3.99
7/64	.1094	4.78
1/8	.1250	4.37
9/64	.1406	6.14
5/32	.1562	6.24
11/64	.1719	7.53
3/16	.1875	6.66
13/64	.2031	8.60
7/32	.2187	9.26
15/64	.2344	10.65
1/4	.2500	9.11
17/64	.2656	10.15
9/32	.2812	11.39
19/64	.2969	12.74
5/16	.3125	11.75
21/64	.3281	14.33
11/32	.3437	15.68
23/64	.3594	17.16
3/8	.3750	16.72
25/64	.3906	20.02
13/32	.4062	21.67
27/64	.4219	23.37
7/16	.4375	22.75
29/64	.4531	26.93
15/32	.4687	28.88
31/64	.4844	30.82
1/2	.5000	28.52
17/32	.5312	36.13
9/16	.5625	36.06
19/32	.5937	44.36
5/8	.6250	44.02
21/32	.6562	53.62
11/16	.6875	53.27
23/32	.7187	64.37
3/4	.7500	62.90
13/16	.8125	73.81
7/8	.8750	85.60
1	1.0000	111.13
1-1/16	1.0625	125.46
1-1/8	1.1250	140.66
1-1/4	1.2500	162.55
1-3/8	1.3750	196.74
1-1/2	1.5000	232.13
1-3/4	1.7500	315.92
2	2.0000	409.48
2-1/2	2.5000	609.51
3	3.0000	865.57

## AISI TYPE D2

Size	Decimal	Price
2mm	.0787	6.66
3mm	.1181	9.87
4mm	.1575	10.31
5mm	.1969	12.74
6mm	.2362	17.00
7mm	.2756	17.18
8mm	.3150	21.15
9mm	.3543	25.74
10mm	.3937	31.60
11mm	.4331	39.25
12mm	.4724	45.35
13mm	.5118	52.52
14mm	.5512	60.89
15mm	.5906	69.32
16mm	.6299	76.72
17mm	.6693	87.54
18mm	.7087	98.61
19mm	.7480	107.23
20mm	.7874	125.23
21mm	.8268	132.57
22mm	.8661	145.51
23mm	.9055	156.01
24mm	.9449	172.32
25mm	.9843	186.95

## AISI TYPE S7

Size	Decimal	Price
1/16	.0625	4.69
3/32	.0937	6.83
1/8	.1250	8.37
5/32	.1562	10.87
3/16	.1875	13.43
7/32	.2187	14.93
1/4	.2500	16.76
5/16	.3125	19.76
3/8	.3750	27.03
7/16	.4375	36.76
1/2	.5000	38.93
5/8	.6250	59.13
3/4	.7500	85.17
7/8	.8750	115.94
1	1.0000	147.55
1 1/4	1.2500	230.55
1 3/8	1.3750	278.95
1 1/2	1.5000	331.96
1 3/4	1.7500	451.88
2	2.0000	590.77

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**

**CALL FOR PRICING  
AND DELIVERY.**

## WILLIAM T. HUTCHINSON CO.

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

# 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	9.75	37	.103	2.40	14	.180	4.48	J	.277	5.37
59	.040	9.75	36	.106	2.58	13	.182	4.53	K	.281	5.53
58	.041	9.75	35	.108	2.67	12	.185	4.73	L	.290	5.86
57	.042	9.75	34	.110	2.75	11	.188	3.90	M	.295	6.10
56	.045	9.75	33	.112	2.81	10	.191	3.99	N	.302	6.40
55	.050	9.75	32	.115	3.03	9	.194	4.18	O	.316	6.27
54	.055	9.75	31	.120	3.27	8	.197	4.31	P	.323	6.47
53	.058	9.75	30	.127	2.72	7	.199	4.34	Q	.332	6.87
52	.063	1.78	29	.134	3.03	6	.201	4.43	R	.339	7.17
51	.066	1.95	28	.139	3.27	5	.204	4.62	S	.348	7.53
50	.069	2.09	27	.143	3.46	4	.207	4.70	T	.358	7.97
49	.072	2.31	26	.146	3.61	3	.212	4.95	U	.368	8.44
48	.075	2.50	25	.148	3.71	2	.219	4.67	V	.377	8.64
47	.077	2.67	24	.151	3.83	1	.227	4.98	W	.386	9.08
46	.079	2.77	23	.153	3.98	A	.234	5.31	X	.397	9.62
45	.081	2.92	22	.155	4.01	B	.238	5.52	Y	.404	9.93
44	.085	3.16	21	.157	3.39	C	.242	5.67	Z	.413	10.37
43	.088	3.43	20	.161	3.60	D	.246	5.85			
42	.092	3.79	19	.164	3.71	E	.252	4.67			
41	.095	2.06	18	.168	3.90	F	.257	4.62			
40	.097	2.12	17	.172	4.09	G	.261	4.76			
39	.099	2.23	16	.175	4.21	H	.266	4.95			
38	.101	2.37	15	.178	4.37	I	.272	5.19			

## MILLIMETER SIZES

Size	Decimal	Price
2mm	.0787	3.33
3mm	.1181	3.87
4mm	.1575	4.23
5mm	.1969	5.31
6mm	.2362	7.29
7mm	.2756	6.54
8mm	.3150	7.87
9mm	.3543	9.48
10mm	.3937	1.58
11mm	.4331	4.25
12mm	.4724	16.39
13mm	.5118	18.67
14mm	.5512	21.62
15mm	.5906	24.73
16mm	.6299	27.19
17mm	.6693	31.16
18mm	.7087	35.03
19mm	.7480	37.97
20mm	.7874	42.05
21mm	.8268	46.48
22mm	.8661	50.99
23mm	.9055	54.15
24mm	.9449	60.50
25mm	.9843	65.70

## FRACTIONAL SIZES

Size	Decimal	Price	Size	Decimal	Price	Size	Decimal	Price
1/16	.0625	1.62	29/64	.4531	12.48	27/32	.8438	38.37
5/64	.0781	2.72	15/32	.4688	12.45	55/64	.8594	40.83
3/32	.0937	1.87	31/64	.4844	14.25	7/8	.8750	39.35
7/64	.1094	2.72	1/2	.5000	12.07	57/64	.8906	43.86
1/8	.1250	2.50	33/64	.5156	15.21	29/32	.9063	44.27
9/64	.1406	3.33	17/32	.5313	15.71	59/64	.9219	46.97
5/32	.1563	3.13	35/64	.5469	17.11	15/16	.9375	47.35
11/64	.1719	4.07	9/16	.5625	16.86	61/64	.9531	50.21
3/16	.1875	3.60	37/64	.5781	19.12	31/32	.9688	50.58
13/64	.2031	4.53	19/32	.5938	19.67	63/64	.9844	53.54
7/32	.2188	4.31	39/64	.6094	20.99	1	1.0000	44.44
15/64	.2344	5.33	5/8	.6250	18.67	1-1/16	1.0625	57.83
1/4	.2500	4.09	41/64	.6406	23.18	1-3/32	1.0938	60.99
17/64	.2656	4.95	21/32	.6563	23.70	1-1/8	1.1250	61.93
9/32	.2813	5.15	43/64	.6719	25.50	1-3/16	1.1875	72.29
19/64	.2969	6.14	11/16	.6875	24.89	1-1/4	1.2500	72.55
5/16	.3125	5.15	45/64	.7031	27.92	1-5/16	1.3125	83.77
21/64	.3281	6.71	23/32	.7188	28.44	1-3/8	1.3750	87.80
11/32	.3438	6.82	47/64	.7344	30.44	1-7/16	1.4375	100.54
23/64	.3594	8.06	3/4	.7500	26.26	1-1/2	1.5000	103.45
3/8	.3750	7.24	49/64	.7656	32.40	1-9/16	1.5625	111.56
25/64	.3906	9.27	25/32	.7813	32.89	1-5/8	1.6250	127.16
13/32	.4062	9.40	51/64	.7969	35.09	1-3/4	1.7500	140.82
27/64	.4219	10.81	13/16	.8125	33.96	1-7/8	1.8750	169.32
7/16	.4375	9.82	53/64	.8281	37.93	2	2.0000	182.43

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

DRILL ROD IS NOT HEAT TREATED

**ALL DRILL ROD CAN  
BE CUT AND HEAT TREATED  
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**PRECISION GRINDING  
OF DRILL ROD  
AVAILABLE TO A  
.0002 TOLERANCE.**

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

**CALL FOR PRICING  
AND DELIVERY.**

**WILLIAM T. HUTCHINSON CO.**

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

# 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	5.76	—	4.97	—	4.86	—
3/32	.09375	2 1/2	5.39	—	4.79	—	4.70	—
1/8	.1250	2 1/2	4.00	—	3.53	—	3.48	5.42
		4	5.45	—	4.82	—	4.72	8.62
		6	7.85	—	6.94	—	6.80	12.94
3/16	.1875	2 1/2	4.40	—	3.99	13.71	4.33	5.61
		4	6.73	—	5.73	21.84	5.73	7.91
		6	10.64	—	9.02	33.46	9.09	12.82
1/4	.2500	2 1/2	5.80	8.24	4.88	13.29	4.91	7.02
		4	8.63	12.27	7.28	19.73	7.31	11.24
		6	13.28	18.86	11.20	30.41	11.27	16.91
5/16	.3125	4	11.16	15.80	9.36	25.25	9.39	15.02
		6	15.67	22.22	13.16	35.42	13.22	22.53
3/8	.3750	4	13.66	18.62	11.07	30.41	11.33	17.95
		6	20.49	27.95	16.59	45.62	16.99	26.90
7/16	.4375	6	26.47	36.13	21.59	—	22.80	—
1/2	.5000	4	21.43	29.33	17.27	47.22	17.68	26.66
		6	29.90	41.10	24.14	65.85	24.69	39.72
5/8	.6250	4	36.46	47.95	29.32	80.49	30.01	43.25
		6	49.08	66.59	39.54	108.26	40.47	64.87
3/4	.7500	4	48.38	65.53	38.95	106.73	39.89	58.88
		6	66.50	90.41	53.69	146.66	54.93	88.03
7/8	.8750	6	86.24	117.20	69.64	—	—	115.51
1	1.0000	6	107.00	146.04	86.68	240.04	—	148.37

**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	14.09
4	80	11.54
4	100	14.74
5	100	15.83
5	160*	18.76
6	63*	8.47
6	80*	10.76
6	100	17.30
6	160	23.09
8	100	20.34
8	160	28.42
8	200	34.23
10	100	25.78
10	160	37.87
10	200*	85.68
12	100*	29.27
12	160*	51.82
12	200*	59.75
14	160*	59.68
15	100*	44.72
16	100*	45.37
16	160*	71.36
16	200*	87.40
18	100*	55.78
18	200*	106.53
20	200	125.21

FRACTIONAL		
Dia. Inches	Length Overall Inches	Net Price Each
1/8	4	9.98
3/16	2 1/2*	8.08
3/16	4	12.36
1/4	2 1/2*	9.55
1/4	4	15.59
1/4	6	23.94
5/16	4	21.04
5/16	6 9/32	32.42
3/8	4	26.15
3/8	6	33.00
3/8	8*	41.21
1/2	4	37.78
1/2	6	51.34
1/2	8	68.94
5/8	4*	46.75
5/8	6	79.12
3/4	6	100.69
3/4	8*	159.32

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	5.47	8.83
1/8	2	3/8	6.67	9.44
1/8	3	3/8	8.35	10.85
1/8	4	3/8	11.64	17.84
1/8	6	3/8	19.08	23.62
3/16	2	1/2	8.55	12.34
3/16	2-1/2	1/2	9.43	13.22
3/16	3	1/2	12.38	15.58
3/16	4	1/2	17.27	20.49
3/16	6	1/2	24.44	29.54
1/4	2	1/2	11.25	15.79
1/4	2-1/2	1/2	11.96	17.40
1/4	3	1/2	16.23	19.77
1/4	4	1/2	22.74	26.27
1/4	6	1/2	33.26	38.40
5/16	2-1/2	1/2	17.67	22.49
5/16	3	1/2	26.97	31.98
5/16	4	1/2	34.78	37.27
5/16	6	1/2	48.68	54.22
3/8	2-1/2	1/2	23.13	29.16
3/8	3	1/2	30.84	36.80
3/8	4	1/2	41.45	46.76
3/8	6	1/2	60.89	67.40
7/16	2-1/2	5/8	24.41	31.79
7/16	3	5/8	30.84	36.80
7/16	4	5/8	41.45	46.76
7/16	6	5/8	60.89	67.40
1/2	3	5/8	44.91	52.13
1/2	4	5/8	59.04	66.26
1/2	6	5/8	98.24	107.16

Tolerances: Diameter  $\begin{matrix} +.0 \\ -.0005 \end{matrix}$  Split/Flats  $\begin{matrix} +.001 \\ -.0 \end{matrix}$  above centerline  
 END SHAPES AVAILABLE ON REQUEST - 6PC. MINIMUM PER ITEM



INFORMATION AND PRICING AVAILABLE ON REQUEST  
 ALSO AVAILABLE IN BOXED SETS

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# 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	—	—	3.23	—	—	—	8.77	16.07
3/32	.09375	2.34	3.00	3.19	2.39	—	—	—	10.20	16.39
1/8	.1250	1.16	1.93	2.15	3.49	—	4.65	—	10.68	18.12
5/32	.15625	5.21	2.99	3.75	4.51	—	6.91	—	13.57	22.37
3/16	.1875	2.82	3.44	4.32	5.17	—	6.99	—	19.33	30.81
1/4	.2500	5.90	6.87	8.51	10.53	13.36	12.41	—	23.24	47.79
5/16	.3125	—	9.27	11.19	12.26	17.26	19.29	—	34.90	74.67
3/8	.3750	7.49	12.17	13.61	16.14	20.09	23.63	—	38.13	99.27
7/16	.4375	—	—	17.03	21.51	27.10	28.04	—	42.19	127.00
1/2	.5000	—	16.40	21.32	25.55	29.81	35.74	40.55	55.45	158.83
9/16	.5625	—	—	—	—	44.14	46.87	—	73.69	201.02
5/8	.6250	—	—	—	40.11	46.78	57.27	73.52	88.23	248.16
3/4	.7500	—	—	—	71.37	77.75	76.45	96.21	116.65	285.89
7/8	.8750	—	—	89.67	—	—	109.75	—	178.96	389.11
1	1.0000	—	—	—	—	—	126.69	165.95	201.74	361.91
1 1/4	1.2500	—	—	—	—	—	256.21	—	—	—

METRIC SIZES		
Dia.	Length	Price
3mm	39mm	1.47
4	51	4.30
5	51	4.61
6	51	5.53
6	64	7.81
8	64	11.81
10	70	18.06
10	100	28.06
12	76	25.76
14	84	38.49
16	89	53.47
18	100	87.47
20	100	100.57
25	100	132.09

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 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
DIAMETER	DECIMAL EQUIV.				
1/16	.0625	\$6.54	5.90	6.52	10.75
5/64	.078125	6.38	5.84	6.52	9.81
3/32	.09375	6.54	6.00	6.85	9.81
7/64	.109375	5.99	5.45	6.38	9.34
1/8	.1250	6.16	5.80	6.91	10.79
5/32	.15625	6.31	6.07	7.35	8.60
3/16	.1875	5.93	5.83	7.33	11.87
7/32	.21875	6.57	6.68	7.78	10.05
1/4	.2500	6.88	6.94	10.39	13.91
9/32	.28125	7.69	7.98	9.71	13.00
5/16	.3125	7.81	8.30	11.72	16.94
11/32	.34375	9.03	9.75	12.15	16.82
3/8	.3750	9.24	9.91	14.49	20.88
7/16	.4375	12.26	14.03	17.94	27.73
1/2	.5000	13.95	16.00	18.41	27.93
9/16	.5625	18.13	21.18	—	—
5/8	.6250	21.62	24.78	28.64	42.99
3/4	.7500	28.27	32.92	39.05	59.72
7/8	.8750	37.81	46.33	52.92	81.00
1"	1.0000	46.95	55.07	66.07	100.96

AVAILABLE IN SPECIAL LENGTHS, DIAMETERS,  
HARDNESS & TOLERANCES TO MEET YOUR REQUIREMENTS

CALL FOR PRICING & DELIVERY

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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	\$16.61	15.25	16.81	26.52
5/64	.078125	16.22	15.12	16.81	25.05
3/32	.09375	10.82	10.10	13.43	20.74
7/64	.109375	11.69	10.82	13.14	20.56
1/8	.1250	12.12	11.69	14.58	25.22
5/32	.15625	12.49	12.37	15.61	20.84
3/16	.1875	11.83	12.90	16.66	26.00
7/32	.21875	12.16	12.98	16.34	21.64
1/4	.2500	12.54	13.27	22.66	31.09
9/32	.28125	14.01	15.35	19.66	27.89
5/16	.3125	15.28	17.05	27.09	38.86
11/32	.34375	17.40	18.96	25.80	37.47
3/8	.3750	16.99	19.54	32.53	46.98
7/16	.4375	24.20	29.17	39.73	61.75
1/2	.5000	27.32	32.62	39.14	62.34
9/16	.5625	33.40	43.67	—	—
5/8	.6250	42.44	48.61	61.36	91.29
3/4	.7500	53.26	63.47	80.75	124.67
7/8	.8750	69.90	88.86	109.49	169.15
1"	1.0000	88.12	99.90	139.60	211.15

AVAILABLE IN SPECIAL LENGTHS, DIAMETERS,  
HARDNESS & TOLERANCES TO MEET YOUR REQUIREMENTS

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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	\$18.50	\$35.38
5/64	.078125	16.50	34.00
3/32	.09375	14.50	30.00
7/64	.109375	12.50	26.00
1/8	.1250	15.25	32.00
5/32	.15625	16.50	34.00
3/16	.1875	17.25	35.00
7/32	.21875	13.25	27.00
1/4	.2500	22.00	45.00
9/32	.28125	18.00	37.00
5/16	.3125	20.00	41.00
11/32	.34375	17.00	36.00
3/8	.3750	22.00	45.00
7/16	.4375	24.25	49.00
1/2	.5000	27.50	56.00
9/16	.5625	36.25	74.25
5/8	.6250	39.00	78.00
3/4	.7500	45.00	87.50
7/8	.8750	56.50	110.00
1"	1.0000	63.50	125.00

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

AVAILABLE IN SPECIAL LENGTHS, DIAMETERS,  
HARDNESS & TOLERANCES TO MEET YOUR REQUIREMENTS

CALL FOR PRICING & DELIVERY

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