













# 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	7.17	19.18
5/64	.0781	7.68	20.71
3/32	.0938	8.19	20.80
7/64	.1094	8.64	22.86
1/8	.1250	9.48	23.97
9/64	.1406	10.50	24.11
5/32	.1562	11.64	24.26
11/64	.1719	12.81	25.44
3/16	.1875	13.77	25.62
13/64	.2031	15.06	26.69
7/32	.2188	16.41	26.91
15/64	.2344	17.55	28.03
1/4	.2500	19.11	28.28
17/64	.2656	20.85	32.42
9/32	.2812	22.56	32.70
19/64	.2969	24.48	34.28
5/16	.3125	26.52	34.60
21/64	.3281	28.50	39.26
11/32	.3438	30.72	39.61
23/64	.3594	32.64	43.82
3/8	.3750	34.89	44.19
25/64	.3906	37.35	48.64
13/32	.4062	39.78	49.05
27/64	.4219	42.45	52.09
7/16	.4375	45.24	52.53
29/64	.4531	47.94	55.13
15/32	.4688	50.01	55.60
31/64	.4844	53.97	59.26
1/2	.5000	56.97	59.76
17/32	.5312	63.36	134.04
9/16	.5625	70.41	136.92
5/8	.6250	82.77	144.90
11/16	.6875	98.79	174.26
23/32	.7188	107.22	185.59
3/4	.7500	116.04	197.01
7/8	.8750	155.22	234.46
1	1.0000	200.34	273.23

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	20.90
62	.0380	20.90
63	.0370	20.90
64	.0360	20.90
65	.0350	21.18
66	.0330	21.18
67	.0320	21.18
68	.0310	21.38
69	.0292	21.38
70	.0280	21.38
71	.0260	21.96
72	.0250	21.96
73	.0240	21.96
74	.0225	22.53
75	.0210	22.53
76	.0200	22.53
77	.0180	22.96
78	.0160	22.96
79	.0145	23.47
80	.0135	23.47

### METRIC SIZE

TOLERANCE  $\begin{matrix} +.0000 \\ -.0005 \end{matrix}$

Metric Size	Decimal Equiv.	Price Each
.50mm	.0199	22.53
.60	.0236	21.96
.70	.0276	21.38
.80	.0315	21.38
.90	.0354	21.18
1.00	.0394	20.90
1.10	.0433	20.90
1.20	.0472	20.04
1.30	.0512	20.04
1.40	.0551	20.04
1.50	.0591	19.18
1.60	.0630	19.18
1.70	.0669	19.18
1.80	.0709	20.71
1.90	.0748	20.71
2.00	.0787	20.71
2.10	.0827	20.80
2.20	.866	20.80
2.30	.0906	20.80
2.40	.0945	22.86
2.50	.0984	22.86

## 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.

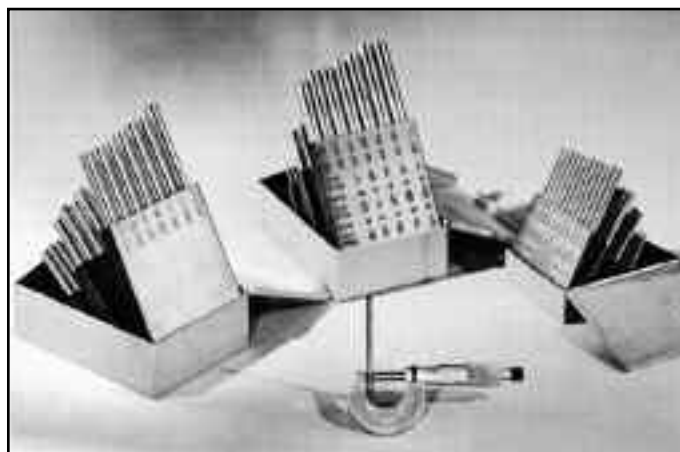
TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

## 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	115.94	9.45
WIRE SET #1 - #60 60 PIECES	81.90	99.00	7.45
WIRE SET #61 - #80 20 PIECES	29.00	45.21	4.95
FRACTIONAL SET 1/16" - 1/2" x 1/64ths 29 PIECES	110.30	130.36	8.65
FRACTIONAL SET 1/16" - 1/2" x 1/32nds 15 PIECES	59.60	70.77	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	27.01	6.15
1 mm. - 13mm. x 1/2 mm. 25 PIECES	99.30	128.73	8.65
1 mm. - 5.9 mm. x .1 mm. 50 PIECES	75.45	101.61	9.65
6 mm. - 10 mm. x .1 mm. 41 PIECES	178.40	215.03	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	354.40	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	1.49
5/64	.0781	2.44
3/32	.0937	2.71
7/64	.1094	3.13
1/8	.1250	3.30
9/64	.1406	3.55
5/32	.1562	3.67
11/64	.1719	4.33
3/16	.1875	4.40
13/64	.2031	4.91
7/32	.2187	5.08
15/64	.2344	6.12
1/4	.2500	6.22
17/64	.2656	6.49
9/32	.2812	6.98
19/64	.2969	8.14
5/16	.3125	8.40
21/64	.3281	9.16
11/32	.3437	9.59
23/64	.3594	10.96
3/8	.3750	11.31
25/64	.3906	12.82
13/32	.4062	13.27
27/64	.4219	15.59
7/16	.4375	15.36
29/64	.4531	17.21
15/32	.4687	18.25
31/64	.4844	19.73
1/2	.5000	20.72
17/32	.5312	22.69
9/16	.5625	24.35
19/32	.5937	27.35
5/8	.6250	29.73
21/32	.6562	32.79
11/16	.6875	36.00
23/32	.7187	40.41
3/4	.7500	42.46
13/16	.8125	49.85
7/8	.8750	57.80
1	1.0000	75.04
1-1/16	1.0625	84.74
1-1/8	1.1250	95.03
1-1/4	1.2500	109.80
1-3/8	1.3750	132.89
1-1/2	1.5000	156.79
1-3/4	1.7500	213.41
2	2.0000	276.61

## AISI TYPE D2

Size	Decimal	Price
2mm	.0787	3.75
3mm	.1181	5.55
5mm	.1969	7.17
6mm	.2362	9.55
7mm	.2756	10.79
8mm	.3150	13.28
9mm	.3543	16.13
10mm	.3937	19.84
11mm	.4331	24.62
12mm	.4724	28.46
13mm	.5118	32.93
14mm	.5512	38.19
15mm	.5906	43.49
16mm	.6299	48.13
17mm	.6693	54.90
18mm	.7087	61.83
19mm	.7480	67.27
20mm	.7874	78.55
21mm	.8268	83.14
22mm	.8661	91.27
23mm	.9055	97.86
24mm	.9449	108.10
25mm	.9843	117.29

Size	Decimal	Price
1/8	.1250	17.34
3/16	.1875	16.69
1/4	.2500	19.99
5/16	.3125	30.43
3/8	.3750	42.29
7/16	.4375	57.67
1/2	.5000	72.21
5/8	.6250	109.27
3/4	.7500	157.36
7/8	.8750	213.99
1	1.0000	268.93
1 1/8	1.1250	338.95
1 1/4	1.2500	463.18
1 1/2	1.5000	665.82
1 3/4	1.7500	648.61
2	2.0000	822.63

## AISI TYPE S7

Size	Decimal	Price
1/16	.0625	3.13
3/32	.0937	4.58
1/8	.1250	5.60
5/32	.1562	7.26
3/16	.1875	8.38
7/32	.2187	9.92
1/4	.2500	11.19
5/16	.3125	14.73
3/8	.3750	20.14
7/16	.4375	27.37
1/2	.5000	28.97
5/8	.6250	44.00
3/4	.7500	63.38
7/8	.8750	86.29
1	1.0000	109.86
1 1/4	1.2500	171.63
1 3/8	1.3750	207.70
1 1/2	1.5000	247.17
1 3/4	1.7500	336.28
2	2.0000	439.84

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	8.63	37	.103	1.64	14	.180	2.84	K	.281	3.50
59	.040	8.63	36	.106	1.68	13	.182	3.06	L	.290	4.16
58	.041	8.63	35	.108	1.75	12	.185	3.21	M	.295	4.16
57	.042	8.63	34	.110	1.69	11	.188	3.21	N	.302	4.16
56	.045	8.63	33	.112	1.70	10	.191	3.21	O	.316	4.16
55	.050	8.63	32	.115	1.75	9	.194	3.21	P	.323	4.52
54	.055	8.63	31	.120	1.97	8	.197	3.21	Q	.332	4.52
53	.058	8.63	30	.127	1.97	7	.199	3.21	R	.339	4.64
52	.063	1.32	29	.134	2.12	6	.201	3.21	S	.348	4.82
51	.066	1.33	28	.139	2.26	5	.204	3.21	T	.358	5.29
50	.069	1.34	27	.143	2.12	4	.207	3.21	U	.368	5.39
49	.072	1.46	26	.146	2.26	3	.212	3.21	V	.377	6.12
48	.075	1.61	25	.148	2.26	2	.219	3.36	W	.386	6.12
47	.077	1.61	24	.151	2.41	1	.227	3.50	X	.397	6.42
46	.079	1.75	23	.153	2.41	A	.234	3.14	Y	.404	6.42
45	.081	1.75	22	.155	2.41	B	.238	3.14	Z	.413	7.14
44	.085	1.97	21	.157	2.41	C	.242	3.14			
43	.088	2.12	20	.161	2.41	D	.246	3.16			
42	.092	2.12	19	.164	2.55	F	.257	3.50			
41	.095	1.60	18	.168	2.70	G	.261	3.50			
40	.097	1.60	17	.172	2.70	H	.266	3.50			
39	.099	1.61	16	.175	2.70	I	.272	3.50			
38	.101	1.63	15	.178	2.70	J	.277	3.50			

## MILLIMETER SIZES

Size	Decimal	Price
2mm	.0787	1.75
3mm	.1181	1.97
4mm	.1575	2.14
5mm	.1969	2.77
6mm	.2362	3.42
7mm	.2756	3.71
8mm	.3150	4.48
9mm	.3543	5.42
10mm	.3937	6.65
11mm	.4331	8.19
12mm	.4724	9.41
13mm	.5118	10.72
14mm	.5512	12.38
15mm	.5906	14.19
16mm	.6299	15.60
17mm	.6693	17.87
18mm	.7087	20.11
19mm	.7480	21.79
20mm	.7874	24.13
21mm	.8268	26.66
22mm	.8661	30.68
23mm	.9055	31.08
24mm	.9449	34.70
25mm	.9843	37.69

## FRACTIONAL SIZES

Size	Decimal	Price	Size	Decimal	Price	Size	Decimal	Price
1/16	.0625	\$1.37	29/64	.4531	8.36	27/32	.8438	25.74
5/64	.0781	1.49	15/32	.4688	8.56	55/64	.8594	27.35
3/32	.0937	1.65	31/64	.4844	9.56	7/8	.8750	27.40
7/64	.1094	1.73	1/2	.5000	9.62	57/64	.8906	29.38
1/8	.1250	1.85	33/64	.5156	10.18	29/32	.9063	30.09
9/64	.1406	1.96	17/32	.5313	10.33	59/64	.9219	31.46
5/32	.1563	2.09	35/64	.5469	11.46	15/16	.9375	31.68
11/64	.1719	2.34	9/16	.5625	11.60	61/64	.9531	33.63
3/16	.1875	2.38	37/64	.5781	12.79	31/32	.9688	33.99
13/64	.2031	2.71	19/32	.5938	12.91	63/64	.9844	35.85
7/32	.2188	2.91	39/64	.6094	14.23	1	1.0000	35.98
15/64	.2344	3.14	5/8	.6250	14.54	1-1/16	1.0625	38.74
1/4	.2500	3.35	41/64	.6406	15.55	1-3/32	1.0938	41.51
17/64	.2656	3.50	21/32	.6563	15.63	1-1/8	1.1250	44.97
9/32	.2813	3.69	43/64	.6719	17.09	1-3/16	1.1875	48.55
19/64	.2969	4.16	11/16	.6875	17.15	1-1/4	1.2500	53.95
5/16	.3125	4.09	45/64	.7031	18.72	1-5/16	1.3125	56.83
21/64	.3281	4.53	23/32	.7188	18.82	1-3/8	1.3750	62.38
11/32	.3438	4.86	47/64	.7344	20.41	1-7/16	1.4375	68.06
23/64	.3594	5.42	3/4	.7500	20.47	1-1/2	1.5000	74.36
3/8	.3750	5.68	49/64	.7656	21.70	1-9/16	1.5625	75.06
25/64	.3906	6.12	25/32	.7813	21.80	1-5/8	1.6250	83.41
13/32	.4062	6.66	51/64	.7969	23.52	1-3/4	1.7500	96.80
27/64	.4219	7.26	13/16	.8125	24.22	1-7/8	1.8750	118.76
7/16	.4375	7.47	53/64	.8281	25.39	2	2.0000	125.37

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  
TO MEET YOUR  
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**PRECISION GRINDING  
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**ALSO AVAILABLE  
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AISI TYPE W1**

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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	4.99	—	4.30	—	4.21	—
3/32	.09375	2 1/2	4.67	—	4.15	—	4.07	—
1/8	.1250	2 1/2	3.46	—	3.06	—	3.01	4.69
		4	4.72	—	4.17	—	4.09	7.46
		6	6.80	—	6.01	—	5.89	11.20
3/16	.1875	2 1/2	3.81	—	3.55	11.87	3.75	4.99
		4	5.83	—	5.10	18.91	4.96	7.04
		6	9.21	—	8.03	28.97	7.87	11.41
1/4	.2500	2 1/2	5.02	7.33	4.34	11.51	4.25	6.25
		4	7.47	10.92	6.48	17.08	6.33	10.00
		6	11.50	16.79	9.97	26.33	9.76	15.05
5/16	.3125	4	9.66	14.06	8.33	21.86	8.13	13.37
		6	13.57	19.78	11.71	30.67	11.45	20.05
3/8	.3750	4	11.83	16.89	10.04	26.33	9.81	16.28
		6	17.74	25.35	15.05	39.50	14.71	24.40
7/16	.4375	6	22.92	32.77	19.58	—	19.74	—
1/2	.5000	4	18.55	26.60	15.66	40.88	15.31	24.18
		6	25.89	37.28	21.90	57.01	21.38	36.03
5/8	.6250	4	31.57	43.49	26.59	69.69	25.98	39.23
		6	42.49	60.40	35.86	93.73	35.04	58.84
3/4	.7500	4	41.89	59.44	35.33	92.41	34.54	53.41
		6	57.58	82.00	48.70	126.98	47.56	79.85
7/8	.8750	6	74.67	106.30	63.17	—	—	104.77
1	1.0000	6	92.64	132.46	78.62	207.83	—	134.58

**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**

	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

## WILLIAM T. HUTCHINSON CO.

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

# 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	12.52
4	80	10.25
4	100	13.10
5	100	14.06
5	160	18.76
6	63*	8.47
6	80*	10.76
6	100	15.37
6	160	20.92
8	100	18.07
8	160	25.25
8	200	30.42
10	100	22.90
10	160	33.66
10	200*	85.68
12	100	27.73
12	160	47.80
12	200	59.75
14	160	56.53
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	111.26

FRACTIONAL		
Dia. Inches	Length Overall Inches	Net Price Each
1/8	4	9.08
3/16	2 1/2	8.08
3/16	4	11.43
1/4	2 1/2	9.55
1/4	4	13.86
1/4	6	21.26
5/16	4	18.70
5/16	6 9/32	28.25
5/16	8	32.72
3/8	4	23.24
3/8	6	29.33
3/8	8	41.21
1/2	4	33.57
1/2	6	45.61
1/2	8	61.26
5/8	4	46.75
5/8	6	70.30
3/4	6	89.47
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	—	—	—	—	13.57	22.37
3/16	.1875	2.82	3.44	4.32	5.17	—	6.99	—	12.46	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	141.74
9/16	.5625	—	—	—	—	44.14	—	—	73.69	158.83
5/8	.6250	—	—	—	86.63	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	1.39
4	51	4.30
5	51	4.37
6	51	5.20
6	64	7.07
8	64	11.11
10	70	17.46
10	100	25.04
12	76	25.76
14	84	37.54
16	89	46.10
18	100	84.16
20	100	69.86
25	100	126.69

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"*

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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 01 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	\$4.48	\$4.28	\$5.83	\$10.05
5/64	.078125	4.51	4.35	4.81	9.03
3/32	.09375	4.54	4.40	5.27	8.01
7/64	.109375	3.62	3.65	4.25	6.99
1/8	.1250	3.66	3.72	5.69	10.08
5/32	.15625	3.80	3.92	5.97	8.04
3/16	.1875	4.35	4.47	6.76	11.09
7/32	.21875	4.53	4.77	7.07	9.05
1/4	.2500	4.78	4.78	9.71	13.00
9/32	.28125	5.23	5.23	7.67	10.96
5/16	.3125	5.58	5.58	10.95	15.83
11/32	.34375	6.16	6.16	8.86	13.79
3/8	.3750	6.78	6.78	13.01	12.77
7/16	.4375	8.87	8.87	16.77	25.92
1/2	.5000	11.26	11.26	15.60	21.33
9/16	.5625	14.55	17.22	—	—
5/8	.6250	16.98	16.98	22.71	32.11
3/4	.7500	23.11	23.11	30.32	45.02
7/8	.8750	30.35	30.35	38.49	60.20
1"	1.0000	38.30	38.31	55.72	75.29

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

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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

		MATERIAL			
DIAMETER	DECIMAL EQUIV.	AISI 01 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	\$11.07	\$11.67	\$15.05	\$23.92
5/64	.078125	11.14	11.84	13.01	21.92
3/32	.09375	7.30	8.08	12.55	19.38
7/64	.109375	8.12	9.00	10.51	17.34
1/8	.1250	8.19	9.17	13.59	23.57
5/32	.15625	8.48	9.68	14.28	19.48
3/16	.1875	8.20	9.29	14.49	24.30
7/32	.21875	8.49	10.03	15.27	20.22
1/4	.2500	9.29	9.93	20.82	29.06
9/32	.28125	10.19	10.86	16.74	24.98
5/16	.3125	11.69	12.19	24.69	36.32
11/32	.34375	12.83	13.21	20.61	32.24
3/8	.3750	13.63	14.24	30.40	35.28
7/16	.4375	18.86	19.49	37.13	56.01
1/2	.5000	22.86	24.37	36.58	50.91
9/16	.5625	28.27	38.22	—	—
5/8	.6250	36.07	36.72	54.80	78.31
3/4	.7500	45.59	48.20	69.89	106.64
7/8	.8750	60.05	67.81	88.93	143.71
1"	1.0000	75.97	79.99	130.47	179.40

AVAILABLE IN SPECIAL LENGTHS, DIAMETERS,  
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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	\$15.84	\$33.86
5/64	.078125	13.84	29.86
3/32	.09375	11.84	25.86
7/64	.109375	9.84	21.86
1/8	.1250	12.52	27.40
5/32	.15625	13.57	29.04
3/16	.1875	15.03	30.09
7/32	.21875	11.03	22.09
1/4	.2500	18.92	39.02
9/32	.28125	14.92	31.02
5/16	.3125	17.96	36.16
11/32	.34375	13.96	28.16
3/8	.3750	19.87	40.70
7/16	.4375	21.92	45.53
1/2	.5000	25.43	50.10
9/16	.5625	34.17	70.51
5/8	.6250	37.00	74.09
3/4	.7500	43.92	86.81
7/8	.8750	56.37	111.72
1"	1.0000	63.36	125.71

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

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