

HIGH SPEED STEEL DRILL BLANKS

36 INCH HSS LENGTHS

TOLERANCE $\pm .001$

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

36 INCH HARDENED & GROUND HSS LENGTHS

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	29.28
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	41.61
23/64	.3594	32.64	43.82
3/8	.3750	34.89	44.19
25/64	.3906	37.35	50.94
13/32	.4062	39.78	51.15
27/64	.4219	42.45	54.09
7/16	.4375	45.24	56.13
29/64	.4531	47.94	57.13
15/32	.4688	50.01	59.60
31/64	.4844	53.97	61.26
1/2	.5000	56.97	63.76
17/32	.5312	63.36	161.78
9/16	.5625	70.41	171.18
5/8	.6250	82.77	185.44
11/16	.6875	98.79	209.02
23/32	.7188	107.22	215.38
3/4	.7500	116.04	220.38
7/8	.8750	155.22	245.74
1	1.0000	200.34	275.46
1 1/8	1.1250	265.60	370.02

WIRE SIZE

TOLERANCE $\pm .0003$

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 $\pm .0005$

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	.0866	20.80
2.30	.0906	20.80
2.40	.0945	22.86
2.50	.0984	22.86

24 INCH HARDENED & GROUND HSS LENGTHS

TOLERANCE $\pm .001$

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.

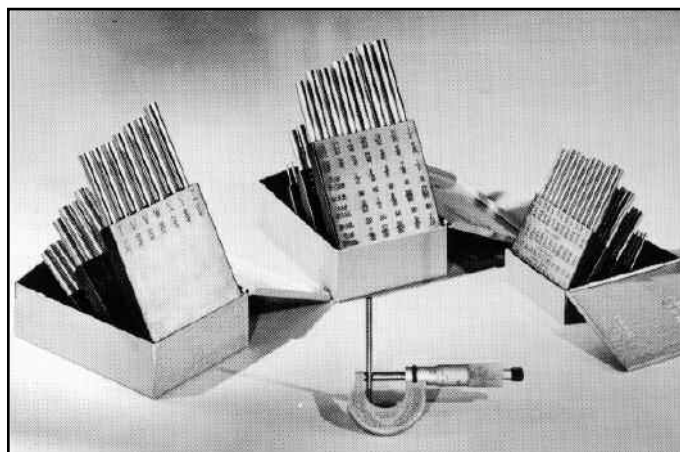
TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

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.

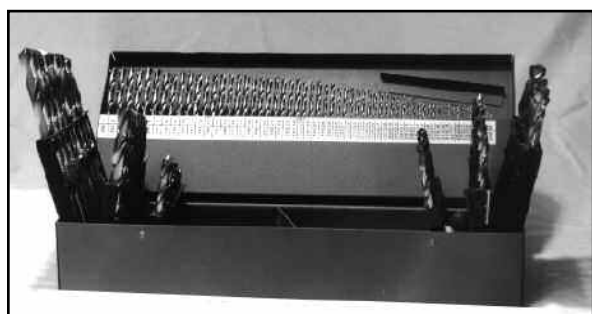
Please specify when ordering: Drill set / Drill blank ($\pm .0000$) set / Reamer Blank ($\pm .0002$) set

	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 ($\begin{smallmatrix} +.0000 \\ -.0051 \text{ MM} \end{smallmatrix}$) OR
REAMER BLANKS ($\begin{smallmatrix} +.0051 \\ -.0000 \text{ MM} \end{smallmatrix}$)

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

www.hssblanks.com

36" LONG AIR HARDENING DRILL RODS

AISI TYPE A2

Size	Decimal	Price
1/16	.0625	2.21
5/64	.0781	3.80
3/32	.0937	3.56
7/64	.1094	4.26
1/8	.1250	3.91
9/64	.1406	5.49
5/32	.1562	5.56
11/64	.1719	6.71
3/16	.1875	5.94
13/64	.2031	7.68
7/32	.2187	8.27
15/64	.2344	9.50
1/4	.2500	8.13
17/64	.2656	9.06
9/32	.2812	10.17
19/64	.2969	11.37
5/16	.3125	10.49
21/64	.3281	12.79
11/32	.3437	14.00
23/64	.3594	15.31
3/8	.3750	14.93
25/64	.3906	17.87
13/32	.4062	19.34
27/64	.4219	20.87
7/16	.4375	20.32
29/64	.4531	24.04
15/32	.4687	25.77
31/64	.4844	27.51
1/2	.5000	25.45
17/32	.5312	32.25
9/16	.5625	32.19
19/32	.5937	39.59
5/8	.6250	39.28
21/32	.6562	47.86
11/16	.6875	47.55
23/32	.7187	57.45
3/4	.7500	56.14
13/16	.8125	65.88
7/8	.8750	76.41
1	1.0000	99.19
1-1/16	1.0625	111.99
1-1/8	1.1250	125.54
1-1/4	1.2500	145.09
1-3/8	1.3750	175.61
1-1/2	1.5000	207.21
1-3/4	1.7500	281.99
2	2.0000	365.51

AISI TYPE D2

Size	Decimal	Price
2mm	.0787	5.95
3mm	.1181	8.82
4mm	.1575	10.52
5mm	.1969	11.37
6mm	.2362	15.17
7mm	.2756	15.33
8mm	.3150	18.89
9mm	.3543	22.96
10mm	.3937	28.19
11mm	.4331	35.04
12mm	.4724	40.48
13mm	.5118	46.88
14mm	.5512	54.36
15mm	.5906	61.88
16mm	.6299	68.49
17mm	.6693	78.14
18mm	.7087	88.01
19mm	.7480	95.72
20mm	.7874	111.78
21mm	.8268	118.33
22mm	.8661	129.88
23mm	.9055	139.26
24mm	.9449	153.83
25mm	.9843	166.88

AISI TYPE S7

Size	Decimal	Price
1/8	.1250	21.17
3/16	.1875	18.38
1/4	.2500	24.30
5/16	.3125	33.47
3/8	.3750	46.52
7/16	.4375	63.44
1/2	.5000	79.43
5/8	.6250	120.20
3/4	.7500	173.10
7/8	.8750	235.39
1	1.0000	295.81
1 1/8	1.1250	372.84
1 1/4	1.2500	509.50
1 1/2	1.5000	732.40
1 3/4	1.7500	713.47
2	2.0000	904.88

Size	Decimal	Price
1/16	.0625	4.47
3/32	.0937	6.51
1/8	.1250	7.97
5/32	.1562	10.35
3/16	.1875	12.79
7/32	.2187	14.22
1/4	.2500	15.96
5/16	.3125	18.82
3/8	.3750	25.74
7/16	.4375	35.01
1/2	.5000	37.08
5/8	.6250	56.31
3/4	.7500	81.12
7/8	.8750	110.42
1	1.0000	140.53
1 1/4	1.2500	219.58
1 3/8	1.3750	265.67
1 1/2	1.5000	316.16
1 3/4	1.7500	430.36
2	2.0000	562.64

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.

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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	8.63	37	.103	2.15	14	.180	4.00	K	.281	4.94
59	.040	8.63	36	.106	2.30	13	.182	4.05	L	.290	5.24
58	.041	8.63	35	.108	2.38	12	.185	4.21	M	.295	5.44
57	.042	8.63	34	.110	2.45	11	.188	3.48	N	.302	5.71
56	.045	8.63	33	.112	2.52	10	.191	3.57	O	.316	5.59
55	.050	8.63	32	.115	2.69	9	.194	3.73	P	.323	5.78
54	.055	8.63	31	.120	2.92	8	.197	3.84	Q	.332	6.13
53	.058	8.63	30	.127	2.43	7	.199	3.87	R	.339	6.41
52	.063	1.59	29	.134	2.69	6	.201	3.96	S	.348	6.71
51	.066	1.73	28	.139	2.92	5	.204	4.12	T	.358	7.11
50	.069	1.87	27	.143	3.09	4	.207	4.19	U	.368	7.53
49	.072	2.06	26	.146	3.23	3	.212	4.43	V	.377	7.72
48	.075	2.23	25	.148	3.78	2	.219	4.16	W	.386	8.10
47	.077	2.38	24	.151	3.43	1	.227	4.46	X	.397	8.58
46	.079	2.48	23	.153	3.56	A	.234	4.73	Y	.404	8.87
45	.081	2.61	22	.155	3.58	B	.238	4.93	Z	.413	9.26
44	.085	2.81	21	.157	3.03	C	.242	5.06			
43	.088	3.07	20	.161	3.21	D	.246	5.21			
42	.092	3.38	19	.164	3.31	F	.257	4.12			
41	.095	1.84	18	.168	3.48	G	.261	4.25			
40	.097	1.89	17	.172	3.64	H	.266	4.43			
39	.099	2.00	16	.175	3.75	I	.272	4.63			
38	.101	2.13	15	.178	3.90	J	.277	4.80			

MILLIMETER SIZES

Size	Decimal	Price
2mm	.0787	2.98
3mm	.1181	3.45
4mm	.1575	3.77
5mm	.1969	4.73
6mm	.2362	6.50
7mm	.2756	5.84
8mm	.3150	7.02
9mm	.3543	8.45
10mm	.3937	10.34
11mm	.4331	12.73
12mm	.4724	14.63
13mm	.5118	16.66
14mm	.5512	19.30
15mm	.5906	22.08
16mm	.6299	24.28
17mm	.6693	27.81
18mm	.7087	31.26
19mm	.7480	33.89
20mm	.7874	37.53
21mm	.8268	41.50
22mm	.8661	45.51
23mm	.9055	48.34
24mm	.9449	54.01
25mm	.9843	58.64

FRACTIONAL SIZES

Size	Decimal	Price	Size	Decimal	Price	Size	Decimal	Price
1/16	.0625	\$1.45	29/64	.4531	11.14	27/32	.8438	34.26
5/64	.0781	2.43	15/32	.4688	11.11	55/64	.8594	36.43
3/32	.0937	1.74	31/64	.4844	12.73	7/8	.8750	35.13
7/64	.1094	2.43	1/2	.5000	10.78	57/64	.8906	39.15
1/8	.1250	2.22	33/64	.5156	13.58	29/32	.9063	39.51
9/64	.1406	2.98	17/32	.5313	14.03	59/64	.9219	41.93
5/32	.1563	2.79	35/64	.5469	15.27	15/16	.9375	42.26
11/64	.1719	3.63	9/16	.5625	15.06	61/64	.9531	44.82
3/16	.1875	3.21	37/64	.5781	17.08	31/32	.9688	45.14
13/64	.2031	4.05	19/32	.5938	17.57	63/64	.9844	47.79
7/32	.2188	3.84	39/64	.6094	18.74	1	1.0000	39.67
15/64	.2344	4.76	5/8	.6250	16.66	1-1/16	1.0625	51.63
1/4	.2500	3.65	41/64	.6406	20.69	1-3/32	1.0938	54.44
17/64	.2656	4.43	21/32	.6563	21.16	1-1/8	1.1250	55.28
9/32	.2813	4.59	43/64	.6719	22.76	1-3/16	1.1875	64.52
19/64	.2969	5.49	11/16	.6875	22.21	1-1/4	1.2500	64.77
5/16	.3125	4.59	45/64	.7031	24.93	1-5/16	1.3125	74.79
21/64	.3281	6.00	23/32	.7188	25.38	1-3/8	1.3750	78.36
11/32	.3438	6.08	47/64	.7344	27.18	1-7/16	1.4375	89.76
23/64	.3594	7.19	3/4	.7500	23.44	1-1/2	1.5000	92.34
3/8	.3750	6.47	49/64	.7656	28.93	1-9/16	1.5625	99.56
25/64	.3906	8.28	25/32	.7813	29.36	1-5/8	1.6250	113.50
13/32	.4062	8.40	51/64	.7969	31.31	1-3/4	1.7500	125.69
27/64	.4219	9.64	13/16	.8125	30.31	1-7/8	1.8750	151.14
7/16	.4375	8.77	53/64	.8281	33.86	2	2.0000	162.83

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

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**PRECISION GRINDING
OF DRILL ROD
AVAILABLE TO A
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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 $\pm .0002$ OR $\pm .0000$
 $-.0000$ $-.0002$**
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.

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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**

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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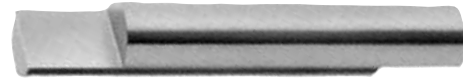
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ENGRAVING BLANKS

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

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
-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

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	\$5.71	\$5.49	\$5.83	\$10.05
5/64	.078125	5.57	5.44	5.59	9.03
3/32	.09375	5.71	5.58	5.88	8.52
7/64	.109375	5.23	5.07	5.14	7.80
1/8	.1250	5.38	5.38	5.69	10.08
5/32	.15625	5.51	5.63	6.02	8.04
3/16	.1875	5.18	5.40	6.76	11.09
7/32	.21875	5.74	6.19	7.07	9.05
1/4	.2500	6.01	6.43	9.71	13.00
9/32	.28125	6.72	7.39	8.42	11.35
5/16	.3125	6.82	7.68	10.95	15.83
11/32	.34375	7.89	9.02	10.64	14.80
3/8	.3750	8.07	9.17	13.01	18.48
7/16	.4375	10.89	12.97	16.77	25.92
1/2	.5000	12.18	14.80	16.18	24.65
9/16	.5625	15.83	19.79	—	—
5/8	.6250	18.89	22.92	25.16	37.94
3/4	.7500	24.78	30.44	34.22	52.62
7/8	.8750	33.30	42.81	46.38	71.37
1"	1.0000	41.34	50.90	57.79	88.84

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

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	\$14.51	\$14.19	\$15.55	\$24.79
5/64	.078125	14.16	14.07	15.55	22.88
3/32	.09375	9.45	9.37	12.55	19.38
7/64	.109375	10.21	10.05	12.08	18.69
1/8	.1250	10.59	10.84	13.62	23.57
5/32	.15625	10.91	11.46	14.59	19.48
3/16	.1875	10.33	11.94	15.21	24.30
7/32	.21875	10.62	11.99	15.27	20.22
1/4	.2500	10.96	12.27	21.18	29.06
9/32	.28125	12.24	14.17	17.90	25.23
5/16	.3125	13.35	15.75	25.32	36.32
11/32	.34375	15.20	16.56	23.47	33.86
3/8	.3750	14.84	18.26	30.40	42.32
7/16	.4375	21.45	26.90	37.13	57.71
1/2	.5000	23.86	30.49	36.58	56.27
9/16	.5625	29.96	40.22	—	—
5/8	.6250	37.07	45.43	55.94	85.32
3/4	.7500	46.59	59.32	73.44	116.51
7/8	.8750	61.05	83.05	99.57	158.08
1"	1.0000	76.97	92.25	130.47	197.34

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

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