

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	3.83	5.45	2.10	57	1.77	2.74
.40	38	3.83	5.45	2.15	57	1.77	2.74
.45	38	3.83	5.45	2.20	57	1.77	2.74
.50	38	3.83	5.45	2.25	57	1.77	2.74
.55	38	3.13	4.41	2.30	57	1.77	2.74
.60	38	3.13	4.41	2.35	57	1.77	2.74
.65	38	3.13	4.41	2.40	57	1.82	2.86
.70	38	2.67	3.79	2.45	64	1.82	2.86
.75	38	2.67	3.79	2.50	64	1.82	2.86
.80	38	2.39	3.36	2.60	64	1.82	2.86
.85	38	2.39	3.36	2.70	64	1.82	2.86
.90	38	2.39	3.36	2.75	70	1.82	2.92
.95	38	2.21	3.05	2.80	70	1.82	2.92
1.00	38	2.21	3.05	2.90	70	1.82	2.92
1.05	41	2.03	2.90	3.00	70	1.88	2.96
1.10	44	2.03	2.90	3.10	70	1.88	2.96
1.15	44	2.03	2.90	3.20	70	1.92	3.02
1.20	48	2.03	2.90	3.25	70	1.92	3.02
1.25	48	2.03	2.90	3.30	76	1.92	3.02
1.30	48	1.93	2.76	3.40	76	1.92	3.02
1.35	48	1.93	2.80	3.50	76	1.92	3.03
1.40	48	1.93	2.80	3.60	76	1.92	3.03
1.45	48	1.93	2.80	3.70	76	1.92	3.03
1.50	48	1.93	2.80	3.75	76	2.03	3.25
1.55	48	1.93	2.80	3.80	76	2.03	3.25
1.60	48	1.93	2.80	3.90	76	2.03	3.25
1.65	51	1.93	2.80	4.00	83	2.03	3.25
1.70	51	1.93	2.80	4.10	83	2.03	3.25
1.75	51	1.76	2.64	4.20	83	2.03	3.26
1.80	51	1.76	2.64	4.25	83	2.07	3.36
1.85	51	1.76	2.64	4.30	83	2.07	3.36
1.90	51	1.76	2.64	4.40	86	2.07	3.37
1.95	51	1.76	2.64	4.50	86	2.07	3.37
2.00	51	1.76	2.73	4.60	89	2.37	3.92
2.05	57	1.77	2.74	4.70	89	2.37	3.92

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

**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	2.37	3.92	7.70	114	5.15	8.76
4.80	89	2.46	2.86	7.75	114	5.15	8.76
4.90	92	2.81	4.57	7.80	114	5.15	8.76
5.00	92	2.81	4.57	7.90	114	5.15	8.76
5.10	92	2.81	4.57	8.00	114	5.15	8.76
5.20	95	2.81	4.58	8.10	117	5.68	9.46
5.25	95	3.10	5.03	8.20	117	5.68	9.46
5.30	95	3.10	5.03	8.25	117	5.68	9.46
5.40	95	3.10	5.03	8.30	117	5.68	9.46
5.50	95	3.10	5.03	8.40	121	5.68	9.46
5.60	98	3.10	5.03	8.50	121	6.25	10.44
5.70	98	3.10	5.03	8.60	121	6.25	10.44
5.75	98	3.10	5.03	8.70	121	6.73	11.23
5.80	98	3.43	5.54	8.75	124	6.73	11.35
5.90	98	3.43	5.54	8.80	124	6.73	11.35
6.00	102	3.43	5.54	8.90	124	6.73	11.35
6.10	102	3.43	5.54	9.00	124	6.73	11.35
6.20	102	3.61	5.92	9.10	124	6.73	11.35
6.25	102	3.61	5.92	9.20	127	7.26	12.44
6.30	102	3.61	5.92	9.25	127	7.26	12.44
6.40	105	4.07	6.81	9.30	127	7.26	12.44
6.50	105	4.07	6.81	9.40	127	7.27	12.45
6.60	105	4.07	6.81	9.50	127	7.27	12.45
6.70	105	4.07	6.81	9.60	130	7.89	13.56
6.75	105	4.07	6.81	9.70	130	7.89	13.56
6.80	105	4.40	7.32	9.75	130	7.91	13.58
6.90	105	4.40	7.32	9.80	130	7.91	13.58
7.00	108	4.40	7.32	9.90	130	7.91	13.58
7.10	108	4.40	7.32	10.00	130	7.91	13.58
7.20	108	4.40	7.37	10.50	133	8.70	14.95
7.25	108	4.40	7.37	11.00	140	10.06	17.19
7.30	108	4.40	7.37	11.50	142	11.07	18.40
7.40	111	4.69	7.87	12.00	149	11.66	19.41
7.50	111	4.69	7.87	12.50	152	14.06	21.53
7.60	111	4.69	7.87	13.00	152	16.20	27.20

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

SPECIALLY EQUIPPED FOR SMALL LOT, HIGH PRECISION CENTERLESS GRINDING

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	9.13	21.13
5/64	.0781	9.77	22.82
3/32	.0938	10.42	26.07
7/64	.1094	11.00	26.07
1/8	.1250	12.06	26.41
9/64	.1406	13.36	28.49
5/32	.1562	14.81	28.60
11/64	.1719	16.30	28.76
3/16	.1875	17.52	28.96
13/64	.2031	19.17	29.41
7/32	.2188	20.88	32.33
15/64	.2344	22.34	32.57
1/4	.2500	24.32	32.81
17/64	.2656	26.54	35.72
9/32	.2812	28.71	36.03
19/64	.2969	31.15	37.77
5/16	.3125	33.75	38.12
21/64	.3281	36.27	47.58
11/32	.3438	39.10	47.93
23/64	.3594	41.54	48.28
3/8	.3750	44.40	48.69
25/64	.3906	47.53	62.37
13/32	.4062	50.63	62.78
27/64	.4219	54.02	63.20
7/16	.4375	57.58	63.64
29/64	.4531	61.01	74.66
15/32	.4688	63.65	75.13
31/64	.4844	68.69	76.14
1/2	.5000	72.50	76.14
17/32	.5312	80.64	215.48
9/16	.5625	89.61	227.29
5/8	.6250	105.34	241.77
11/16	.6875	125.73	Call for pricing
23/32	.7188	136.46	
3/4	.7500	147.68	
7/8	.8750	197.54	
1	1.0000	254.97	
1 1/8	1.1250	338.02	

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	24.18
62	.0380	24.18
63	.0370	24.18
64	.0360	24.18
65	.0350	24.50
66	.0330	24.50
67	.0320	24.50
68	.0310	24.74
69	.0292	24.74
70	.0280	24.74
71	.0260	25.41
72	.0250	25.41
73	.0240	25.41
74	.0225	26.07
75	.0210	26.07
76	.0200	26.07
77	.0180	26.56
78	.0160	26.56
79	.0145	27.15
80	.0135	27.15

METRIC SIZE

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

Metric Size	Decimal Equiv.	Price Each
.50mm	.0199	26.07
.60	.0236	24.79
.70	.0276	24.13
.80	.0315	24.13
.90	.0354	23.91
1.00	.0394	23.59
1.10	.0433	23.59
1.20	.0472	22.62
1.30	.0512	22.62
1.40	.0551	22.62
1.50	.0591	21.65
1.60	.0630	21.65
1.70	.0669	21.65
1.80	.0709	23.38
1.90	.0748	23.38
2.00	.0787	23.38
2.10	.0827	23.48
2.20	.0866	23.48
2.30	.0906	23.48
2.40	.0945	25.80
2.50	.0984	25.80

24 INCH HARDENED & GROUND HSS LENGTHS

TOLERANCE ± .001

Diameter Inches	Decimal Equivalent	Price Each
17/32	.5312	109.37
9/16	.5625	126.00
5/8	.6250	131.35
11/16	.6875	158.70
23/32	.7188	167.43
3/4	.7500	176.45
13/16	.8125	199.57
7/8	.8750	205.21
1	1.0000	234.52

WILLIAM T. HUTCHINSON CO.

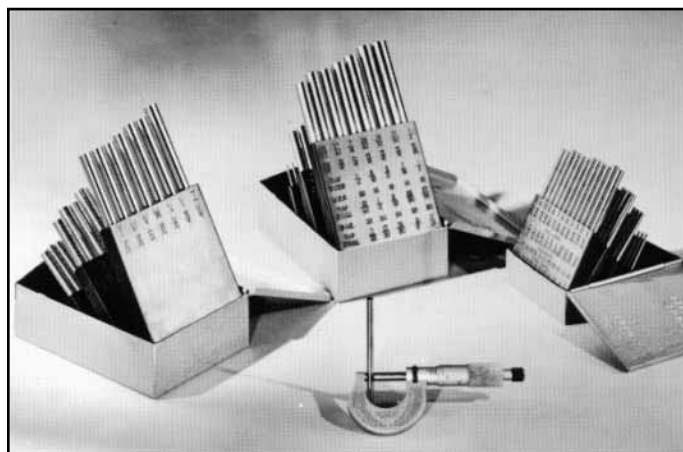
TOLL FREE 1-800-544-7934 • (908) 688-0533 • FAX (908) 688-8296 • ESTABLISHED 1927

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.

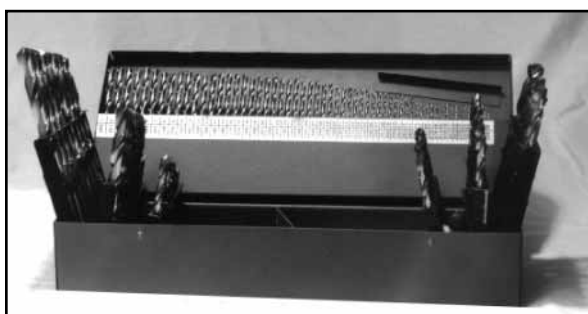
Please specify when ordering: Drill set / Drill blank ($^{+.0000}_{-.0002}$) set / Reamer Blank ($^{+.0002}_{-.0000}$) set

	DRILL SET	M2 HSS BLANK SET	INDEX ONLY
LETTER SET "A" - "Z" 26 PIECES	95.35	130.14	9.45
WIRE SET #1 - #60 60 PIECES	81.90	111.24	7.45
WIRE SET #61 - #80 20 PIECES	29.00	52.37	4.95
FRACTIONAL SET 1/16" - 1/2" x 1/64ths 29 PIECES	110.30	146.76	8.65
FRACTIONAL SET 1/16" - 1/2" x 1/32nds 15 PIECES	59.60	79.38	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	29.37	6.15
1 mm. - 13mm. x 1/2 mm. 25 PIECES	99.30	141.87	8.65
1 mm. - 5.9 mm. x .1 mm. 50 PIECES	75.45	111.87	9.65
6 mm. - 10 mm. x .1 mm. 41 PIECES	178.40	235.87	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	397.25	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	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

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**

**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	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

DRILL ROD IS NOT HEAT TREATED

**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.**

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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	6.34	—	5.46	—	5.11	—
3/32	.09375	2 1/2	5.93	—	5.27	—	4.94	—
1/8	.1250	2 1/2	4.40	—	3.89	—	3.65	5.69
		4	6.00	—	5.30	—	4.96	9.05
		6	8.64	—	7.64	—	7.14	13.58
3/16	.1875	2 1/2	4.84	—	4.39	14.40	4.55	5.89
		4	7.41	—	6.30	22.93	6.02	8.30
		6	11.70	—	9.92	35.13	9.54	13.46
1/4	.2500	2 1/2	6.38	9.06	5.36	13.96	5.15	7.37
		4	9.49	13.50	8.01	20.71	7.68	11.80
		6	14.61	20.75	12.32	31.93	11.84	17.75
5/16	.3125	4	12.27	17.38	10.29	26.51	9.86	15.77
		6	17.24	24.45	14.47	37.20	13.89	23.65
3/8	.3750	4	15.03	20.48	12.18	31.93	11.90	18.85
		6	22.54	30.74	18.25	47.90	17.84	28.25
7/16	.4375	6	29.12	39.74	23.75	—	23.94	—
1/2	.5000	4	23.57	32.26	18.99	49.58	18.57	27.99
		6	32.89	45.12	26.56	69.14	25.93	41.71
5/8	.6250	4	40.11	52.74	32.25	84.52	31.51	45.41
		6	53.98	73.25	43.49	113.67	42.49	68.11
3/4	.7500	4	53.22	72.09	42.85	112.07	41.89	61.83
		6	73.16	99.45	59.06	153.99	57.68	92.44
7/8	.8750	6	94.87	128.92	76.61	—	—	121.28
1	1.0000	6	117.70	160.64	95.35	252.05	—	155.79

CHOICE OF TOLERANCE $\pm .0002$ **OR** $\pm .0000$
 $-.0000$ $-.0002$

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	14.51
4	80	11.80
4	100	15.18
5	100	16.30
5	160*	—
6	63*	6.60
6	80*	—
6	100	17.82
6	160	23.78
8	100	20.95
8	160	29.27
8	200	35.26
10	100	26.55
10	160	39.01
10	200*	—
12	100*	13.20
12	160*	—
12	200*	—
14	160*	15.40
15	100*	—
16	100*	—
16	160*	—
16	200*	—
18	100*	—
18	200*	—
20	200	128.97

FRACTIONAL		
Dia. Inches	Length Overall Inches	Net Price Each
1/8	4	10.28
3/16	2 1/2*	8.89
3/16	4	12.73
1/4	2 1/2*	10.51
1/4	4	16.06
1/4	6	24.66
5/16	4	21.67
5/16	6 9/32	31.08
3/8	4	26.93
3/8	6	33.99
3/8	8*	45.33
1/2	4	38.91
1/2	6	52.88
1/2	8	71.01
5/8	4*	51.43
5/8	6	81.49
3/4	6	103.71
3/4	8*	175.25
1	6	220.00

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



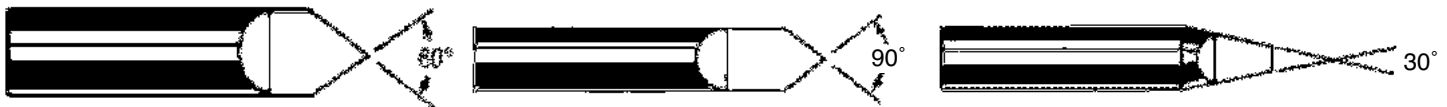
SINGLE END

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	5.42	8.71
1/8	2	3/8	6.06	9.34
1/8	3	3/8	6.50	9.79
1/8	4	3/8	7.84	12.26
1/8	6	3/8	19.92	24.34
3/16	2	1/2	8.59	12.29
3/16	2-1/2	1/2	9.52	13.22
3/16	3	1/2	10.47	14.17
3/16	4	1/2	12.29	17.27
3/16	6	1/2	25.63	30.62
1/4	2	1/2	10.26	15.79
1/4	2-1/2	1/2	11.90	17.44
1/4	3	1/2	13.45	18.98
1/4	4	1/2	16.02	21.55
1/4	6	1/2	28.65	34.19
5/16	2-1/2	1/2	15.55	21.64
5/16	3	1/2	17.62	23.71
5/16	4	1/2	21.22	27.31
5/16	6	1/2	45.52	51.60
3/8	2-1/2	1/2	19.67	26.31
3/8	3	1/2	22.37	29.02
3/8	4	1/2	27.61	34.25
3/8	6	1/2	43.85	50.49
7/16	2-1/2	5/8	25.02	32.22
7/16	3	5/8	29.61	36.81
7/16	4	5/8	33.19	40.39
7/16	6	5/8	49.89	57.09
1/2	3	5/8	34.56	42.31
1/2	4	5/8	43.27	51.02
1/2	6	5/8	65.40	73.15

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

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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	—	—	3.57	—	—	—	8.77	16.07
3/32	.09375	2.40	3.19	3.41	3.37	—	—	—	10.20	16.73
1/8	.1250	1.23	2.03	2.29	3.49	—	4.65	—	15.36	18.87
5/32	.15625	5.21	3.14	3.99	4.83	—	—	—	23.10	23.59
3/16	.1875	2.82	3.66	4.60	5.69	—	7.40	—	26.93	32.93
1/4	.2500	5.90	6.87	8.51	10.53	13.36	12.41	—	23.47	50.39
5/16	.3125	—	9.27	11.19	12.26	17.26	35.24	—	40.09	79.81
3/8	.3750	8.13	12.17	13.61	16.14	20.09	23.63	—	38.13	104.60
7/16	.4375	—	—	18.09	22.76	27.10	28.04	—	43.31	135.76
1/2	.5000	—	17.81	22.77	27.20	29.81	36.04	48.80	58.53	168.17
9/16	.5625	—	—	—	—	44.14	49.79	—	73.69	214.87
5/8	.6250	—	—	—	42.76	49.87	60.90	78.06	93.67	265.26
3/4	.7500	—	—	—	77.75	77.75	81.36	102.59	124.29	305.31
7/8	.8750	—	—	89.67	—	—	117.21	—	177.71	415.93
1	1.0000	—	—	—	—	—	135.17	176.50	214.10	543.37

METRIC SIZES				
Dia.	Length	Price	Length	Price
3mm	39mm	1.47	12"	19.14
4	51	4.50	12"	24.03
5	51	4.61	12"	31.67
6	51	5.53	12"	51.09
6	64	7.81	12"	—
8	64	11.81	12"	81.10
10	76	18.69	12"	116.96
10	102	28.06	12"	—
12	76	27.34	12"	151.16
14	102	49.79	12"	—
16	102	61.01	12"	269.44
18	102	87.53	12"	341.06
20	102	106.74	12"	—
25	—	—	12"	526.44

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 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	\$8.57	7.96	8.17	12.53
5/64	.078125	8.32	7.89	8.17	12.53
3/32	.09375	8.57	8.11	8.57	12.53
7/64	.109375	7.84	7.34	7.94	11.90
1/8	.1250	8.08	7.85	8.58	10.79
5/32	.15625	8.30	8.25	9.11	10.69
3/16	.1875	7.80	7.93	9.03	12.20
7/32	.21875	8.66	9.15	9.63	12.81
1/4	.2500	8.99	9.44	11.29	15.79
9/32	.28125	10.00	10.85	11.92	16.42
5/16	.3125	10.16	11.31	13.79	20.14
11/32	.34375	11.64	13.22	14.83	21.19
3/8	.3750	12.35	13.45	17.69	26.38
7/16	.4375	15.91	19.04	20.75	33.48
1/2	.5000	18.59	21.85	22.55	35.28
9/16	.5625	23.98	28.09	—	—
5/8	.6250	28.58	33.75	35.07	58.63
3/4	.7500	37.66	45.03	47.89	75.59
7/8	.8750	50.52	60.06	64.92	102.54
1"	1.0000	63.02	75.49	81.12	127.95

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	\$21.84	20.86	21.34	32.23
5/64	.078125	21.24	20.67	21.34	32.23
3/32	.09375	14.41	13.80	15.24	25.15
7/64	.109375	15.54	14.80	16.47	26.38
1/8	.1250	16.15	16.09	18.09	25.22
5/32	.15625	16.68	17.08	19.40	23.36
3/16	.1875	16.40	17.86	20.71	28.64
7/32	.21875	16.30	17.99	19.48	27.41
1/4	.2500	16.69	18.34	23.22	34.46
9/32	.28125	18.55	21.20	24.15	35.40
5/16	.3125	20.24	23.63	30.06	45.95
11/32	.34375	22.85	26.28	31.62	47.51
3/8	.3750	23.55	27.08	37.91	59.64
7/16	.4375	32.00	40.35	44.96	76.80
1/2	.5000	36.50	45.21	47.37	79.20
9/16	.5625	44.62	60.53	—	—
5/8	.6250	58.22	67.37	75.58	102.14
3/4	.7500	71.98	87.97	99.12	126.98
7/8	.8750	96.50	123.16	134.42	172.21
1"	1.0000	121.72	138.46	169.17	215.53

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	\$20.75	\$44.31
5/64	.078125	18.25	39.31
3/32	.09375	15.75	34.31
7/64	.109375	13.25	29.31
1/8	.1250	16.80	36.62
5/32	.15625	18.31	39.06
3/16	.1875	19.18	39.22
7/32	.21875	14.18	29.22
1/4	.2500	25.66	53.47
9/32	.28125	20.66	43.47
5/16	.3125	24.30	51.24
11/32	.34375	19.30	41.24
3/8	.3750	27.10	57.83
7/16	.4375	28.55	60.09
1/2	.5000	32.77	67.40
9/16	.5625	42.52	90.72
5/8	.6250	46.85	97.83
3/4	.7500	55.33	114.87
7/8	.8750	67.41	140.87
1"	1.0000	76.88	161.05

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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