

# HIGH SPEED STEEL BLANKS

AVAILABLE IN ANY DIAMETER .005" - 3.500"

GROUND TO .0002 TOLERANCE

LENGTH TO 78" TO SUIT YOUR REQUIREMENTS

*The following standard size M2 High Speed Steel Blanks*

*Hardness Rockwell "C" 62-64 or M42 "C" 65-67*

*Available for immediate delivery from our plant.*

Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
1/64	.015625	1 1/2	2.85	4.06
1/32	.03125	1 1/2	1.75	2.50
3/64	.046875	1 3/4	1.50	2.19
1/16	.0625	1 7/8	1.43	2.11
5/64	.078125	2	1.50	2.18
3/32	.09375	2 1/4	1.52	2.30
7/64	.109375	2 3/4	1.55	2.40
1/8	.1250	2 3/4	1.60	2.47
9/64	.140625	3	1.65	2.53
5/32	.15625	3 1/4	1.92	2.88
11/64	.171875	3 1/4	1.95	2.94
3/16	.1875	3 1/2	2.15	3.30
13/64	.203125	3 5/8	2.55	3.90
7/32	.21875	3 3/4	2.88	4.33
15/64	.234375	3 7/8	3.10	4.74
1/4	.2500	4	3.33	5.82
17/64	.265625	4 1/8	3.73	5.81
9/32	.28125	4 1/4	4.03	6.27
19/64	.296875	4 3/8	4.35	6.90
5/16	.3125	4 1/2	4.79	7.49
21/64	.328125	4 5/8	5.18	8.08
11/32	.34375	4 3/4	5.71	8.90
23/64	.359375	4 7/8	6.14	9.70
3/8	.3750	5	6.80	10.90
25/64	.390625	5 1/8	7.50	11.68
13/32	.40625	5 1/4	8.22	12.85
27/64	.421875	5 3/8	9.12	14.20
7/16	.4375	5 1/2	9.75	15.20
29/64	.453125	5 5/8	10.40	16.08
15/32	.46875	5 3/4	10.95	16.80
31/64	.484375	5 7/8	11.85	18.15
1/2	.5000	6	12.65	19.42

Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
A	.234	3 7/8	3.15	4.75
B	.238	4	3.15	4.75
C	.242	4	3.15	4.75
D	.246	4	3.33	5.15
E	.250	4	3.33	5.15
F	.257	4 1/8	3.72	5.81
G	.261	4 1/8	3.73	5.82
H	.266	4 1/8	3.73	5.82
I	.272	4 1/8	3.95	6.16
J	.277	4 1/4	4.03	6.30
K	.281	4 1/4	4.03	6.30
L	.290	4 1/4	4.10	6.40
M	.295	4 3/8	4.35	6.90
N	.302	4 3/8	4.36	6.90
O	.316	4 1/2	4.80	7.45
P	.323	4 5/8	5.17	8.09
Q	.332	4 3/4	5.20	8.09
R	.339	4 3/4	5.70	8.88
S	.348	4 7/8	6.15	9.70
T	.358	4 7/8	6.15	9.70
U	.368	5	6.80	10.93
V	.377	5	6.80	10.93
W	.386	5 1/8	7.25	11.45
X	.397	5 1/8	7.29	11.48
Y	.404	5 1/4	7.95	12.60
Z	.413	5 1/4	8.10	12.61

**CHOICE OF TOLERANCE**

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

## A NOTE TO REMEMBER

**WE CAN GRIND BLANKS TO A .00005 TOLERANCE**

**SIZES 33/64" THRU 1"**  
**M2 HSS BLANKS**  
**M42 SUPER HSS BLANKS**



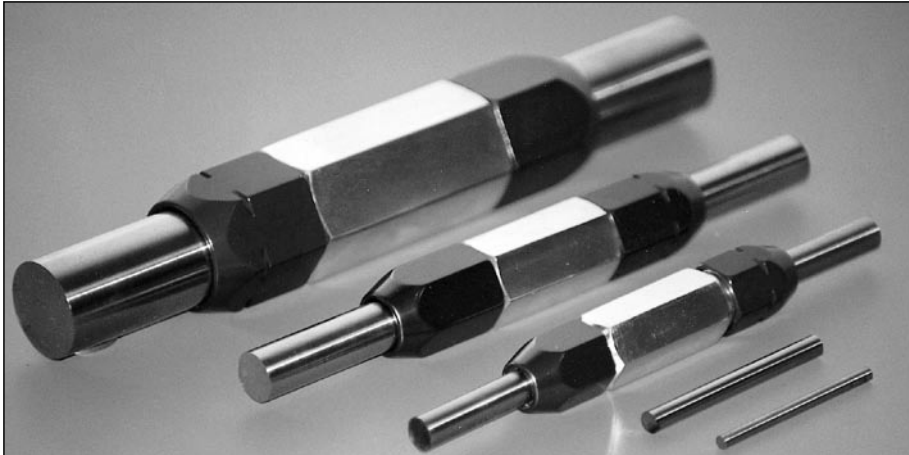
Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
33/64	.515625	6	15.62	23.62
		9	26.33	40.58
		12	35.15	54.25
17/32	.53125	6	16.05	24.25
		9	27.85	42.95
		12	36.60	56.40
35/64	.546875	6	16.55	25.00
		9	28.54	43.95
		12	37.90	58.40
9/16	.5625	6	17.85	26.50
		9	30.45	46.95
		12	39.65	61.10
37/64	.578125	6	18.35	27.70
		9	31.35	48.35
		12	42.35	65.00
19/32	.59375	6	19.55	29.55
		9	33.02	50.90
		12	44.40	68.10
39/64	.609375	6	20.70	30.75
		9	34.85	54.84
		12	46.10	72.25
5/8	.6250	6	21.25	32.75
		9	35.85	56.40
		12	47.70	74.75
41/64	.640625	6	22.75	33.80
		9	39.33	59.65
		12	51.65	75.40
21/32	.65625	6	23.45	34.85
		9	40.25	61.05
		12	52.85	80.01
43/64	.671875	6	24.85	36.75
		9	41.25	62.45
		12	54.88	83.05
11/16	.6875	6	25.05	37.30
		9	43.02	65.20
		12	56.90	86.25
45/64	.703125	6	26.25	39.00
		9	44.50	67.45
		12	59.50	90.15
23/32	.71875	6	27.65	41.08
		9	46.10	69.85
		12	61.45	93.10
47/64	.734375	6	28.35	42.10
		9	46.70	70.75
		12	62.75	95.05
3/4	.7500	6	29.32	43.15
		9	49.10	73.70
		12	63.85	95.75

Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
49/64	.765625	6	31.20	45.00
		9	50.65	74.60
		12	66.70	98.24
25/32	.78125	6	31.65	46.60
		9	52.30	77.00
		12	68.00	100.15
51/64	.796875	6	33.35	48.15
		9	53.70	79.10
		12	70.40	103.65
13/16	.8125	6	34.75	50.20
		9	55.15	81.20
		12	72.75	107.05
53/64	.828125	6	35.95	51.95
		9	56.45	83.10
		12	74.15	109.15
27/32	.84375	6	36.35	54.10
		9	57.75	85.00
		12	76.86	113.15
55/64	.859375	6	38.05	56.60
		9	59.45	87.47
		12	78.57	115.62
7/8	.8750	6	39.15	58.55
		9	62.00	90.40
		12	82.05	118.55
57/64	.890625	6	40.10	58.55
		9	64.12	93.50
		12	87.35	126.20
29/32	.90625	6	41.25	60.20
		9	65.45	95.42
		12	89.10	128.70
59/64	.921875	6	42.20	61.60
		9	67.40	97.90
		12	91.60	132.35
15/16	.9375	6	43.70	63.75
		9	68.80	100.30
		12	93.20	134.62
61/64	.953125	6	44.60	65.03
		9	70.25	105.45
		12	95.60	138.08
31/32	.96875	6	46.05	69.60
		9	72.15	108.30
		12	98.10	141.75
63/64	.984375	6	48.60	70.70
		9	75.10	111.75
		12	101.00	150.35
1"	1.0000	6	49.90	71.65
		9	77.35	115.15
		12	104.20	155.15

**CHOICE OF TOLERANCE**     $\begin{matrix} +.0002 \\ -.0000 \end{matrix}$     **OR**     $\begin{matrix} +.0000 \\ -.0002 \end{matrix}$     **OR**     $\begin{matrix} +.0001 \\ -.0001 \end{matrix}$

## GAGE MEMBERS

**ALL GAGE MEMBERS ARE MADE OF M2 HIGH SPEED STEEL  
HARDNESS ROCKWELL "C" 62-64**



**HSS GAGE MEMBER  
DISCOUNTS  
ASSORTED SIZES**

25 pieces - 5%  
50 pieces - 10%  
100 pieces - 25%

**YOUR CHOICE OF  
THREE TOLERANCES**

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

### 2" LONG HSS GAGE MEMBER PRICES

.0100 - .0200 .....\$4.67	.3751 - .4375 ..... 7.83	.9376 - 1.000..... 18.75
.0201 - .0312 .....4.43	.4376 - .5000 ..... 7.99	1.0001 - 1.0625 ..... 23.44
.0313 - .0625 .....4.22	.5001 - .5625 ..... 9.48	1.0626 - 1.1250 ..... 26.11
.0626 - .0938 .....4.22	.5626 - .6250 ..... 10.13	1.1251 - 1.1875 ..... 28.26
.0939 - .1250 ..... 4.60	.6251 - .6875 ..... 11.30	1.1876 - 1.2500 ..... 30.92
.1251 - .1875 ..... 5.97	.6876 - .7500 ..... 12.13	1.2501 - 1.3125 ..... 32.94
.1876 - .2500 ..... 6.49	.7501 - .8125 ..... 13.55	1.3126 - 1.3750 ..... 35.91
.2501 - .3125 ..... 7.00	.8126 - .8750 ..... 14.48	1.3751 - 1.4375 ..... 39.95
.3126 - .3750 ..... 7.31	.8751 - .9375 ..... 17.24	1.4376 - 1.5010 ..... 44.31

### 50.8 MM LONG METRIC HSS GAGE MEMBER PRICES

.2540 - .5080 ..... 4.67	9.5275 - 11.1125 ..... \$7.83	23.8150 - 25.4000..... 18.75
.5105 - .7925 ..... 4.43	11.1150 - 12.7000 ..... 7.99	25.4025 - 26.9875..... 23.44
.7950 - 1.5875 ..... 4.22	12.7025 - 14.2875..... 9.48	26.9900 - 28.5750..... 26.11
1.5900 - 2.3825 ..... 4.22	14.2900 - 15.8750 ..... 10.13	28.5775 - 30.1625..... 28.26
2.3850 - 3.1750 ..... 4.60	15.8775 - 17.4625 ..... 11.30	30.1650 - 31.7500..... 30.92
3.1775 - 4.7625 ..... 5.97	17.4650 - 19.0500 ..... 12.13	31.7525 - 33.3375..... 32.94
4.7650 - 6.3500 ..... 6.49	19.0525 - 20.6375 ..... 13.55	33.3400 - 34.9250..... 35.91
6.3525 - 7.9375 ..... 7.00	20.6400 - 22.2250 ..... 14.48	34.9275 - 36.5125..... 39.95
7.9400 - 9.5250 ..... 7.31	22.2275 - 23.8125 ..... 17.24	36.5150 - 38.1254..... 44.31

**OTHER SIZES AND MATERIALS AVAILABLE  
CALL FOR PRICING!**

**HANDLES FOR ABOVE MEMBERS UP TO 1" CAN BE SUPPLIED**

411 Business Park Lane • Allentown, PA 18109 • 610-434-5740 • FAX 610-434-7301

Visit us on the web at [www.cencogrinding.com](http://www.cencogrinding.com) or [www.drillblanks.com](http://www.drillblanks.com)

**QUICK DELIVERY**  
**DIRECT FROM OUR PLANT**

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
1	.2280	3 7/8	2.85	4.30
2	.2210	3 7/8	2.85	4.30
3	.2130	3 3/4	2.85	4.30
4	.2090	3 3/4	2.85	4.30
5	.2055	3 3/4	2.85	4.30
6	.2040	3 3/4	2.50	3.85
7	.2010	3 5/8	2.50	3.85
8	.1990	3 5/8	2.50	3.85
9	.1960	3 5/8	2.50	3.85
10	.1935	3 5/8	2.50	3.85
11	.1910	3 1/2	2.22	3.35
12	.1890	3 1/2	2.22	3.35
13	.1850	3 1/2	2.15	3.30
14	.1820	3 1/2	2.15	3.30
15	.1800	3 1/2	2.15	3.30
16	.1770	3 3/8	1.92	2.96
17	.1730	3 3/8	1.92	2.96
18	.1695	3 1/4	1.92	2.96
19	.1660	3 1/4	1.90	2.85
20	.1610	3 1/4	1.90	2.85
21	.1590	3 1/4	1.90	2.85
22	.1570	3 1/4	1.90	2.85
23	.1540	3	1.90	2.85
24	.1520	3	1.90	2.85
25	.1495	3	1.90	2.85
26	.1470	3	1.65	2.55
27	.1440	3	1.65	2.55
28	.1405	3	1.65	2.55
29	.1360	3	1.65	2.55
30	.1285	2 3/4	1.65	2.55

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
31	.1200	2 3/4	1.57	2.47
32	.1160	2 3/4	1.57	2.41
33	.1130	2 3/4	1.57	2.41
34	.1110	2 3/4	1.57	2.41
35	.1100	2 3/4	1.57	2.41
36	.1065	2 1/2	1.57	2.41
37	.1040	2 1/2	1.57	2.41
38	.1015	2 1/2	1.57	2.41
39	.0995	2 1/2	1.57	2.41
40	.0980	2 1/2	1.57	2.41
41	.0960	2 1/2	1.52	2.30
42	.0935	2 1/4	1.52	2.30
43	.0890	2 1/4	1.52	2.30
44	.0860	2 1/4	1.52	2.30
45	.0820	2 1/4	1.52	2.30
46	.0810	2 1/4	1.52	2.30
47	.0785	2	1.50	2.30
48	.0760	2	1.50	2.30
49	.0730	2	1.50	2.30
50	.0700	2	1.50	2.30
51	.0670	2	1.43	2.12
52	.0635	1 7/8	1.43	2.12
53	.0595	1 7/8	1.43	2.12
54	.0550	1 7/8	1.43	2.12
55	.0520	1 7/8	1.43	2.12
56	.0465	1 3/4	1.50	2.24
57	.0430	1 3/4	1.50	2.24
58	.0420	1 5/8	1.50	2.24
59	.0410	1 5/8	1.50	2.24
60	.0400	1 5/8	1.50	2.24

**CHOICE OF TOLERANCE**

+ .0002    - .0000    **OR**    + .0000    - .0002    **OR**    + .0001    - .0001

**No Minimum Order**

# METRIC BLANKS

**4.75 mm - 13.0 mm DIAMETER**  
**M2 HIGH SPEED STEEL - ROCKWELL "C" 62-64**  
**M42 HIGH SPEED STEEL - ROCKWELL "C" 65-67**

Diameter mm	Length Overall mm	M2 Net Price Each	M42 Net Price Each
4.75	89	2.37	3.92
4.80	89	2.46	3.85
4.90	92	2.80	4.57
5.00	92	2.80	4.57
5.10	92	2.80	4.57
5.20	95	2.80	4.57
5.25	95	3.10	5.03
5.30	95	3.10	5.03
5.40	95	3.10	5.03
5.50	95	3.10	5.03
5.60	98	3.10	5.03
5.70	98	3.10	5.03
5.75	98	3.10	5.03
5.80	98	3.40	5.54
5.90	98	3.40	5.54
6.00	102	3.40	5.54
6.10	102	3.40	5.54
6.20	102	3.60	5.90
6.25	102	3.60	5.90
6.30	102	3.60	5.90
6.40	105	4.05	6.34
6.50	105	4.05	6.34
6.60	105	4.05	6.34
6.70	105	4.05	6.34
6.75	105	4.05	6.34
6.80	105	4.40	7.35
6.90	105	4.40	7.35
7.00	108	4.40	7.35
7.10	108	4.40	7.35
7.20	108	4.40	7.35
7.25	108	4.40	7.35
7.30	108	4.40	7.35
7.40	111	4.68	7.85
7.50	111	4.68	7.85
7.60	111	4.68	7.85

Diameter mm	Length Overall mm	M2 Net Price Each	M42 Net Price Each
7.70	114	5.15	8.75
7.75	114	5.15	8.75
7.80	114	5.15	8.75
7.90	114	5.15	8.75
8.00	114	5.15	8.75
8.10	117	5.67	9.45
8.20	117	5.67	9.45
8.25	117	5.67	9.45
8.30	117	5.67	9.45
8.40	121	5.67	9.45
8.50	121	6.25	10.44
8.60	121	6.25	10.44
8.70	121	6.73	11.35
8.75	124	6.73	11.35
8.80	124	6.73	11.35
8.90	124	6.73	11.35
9.00	124	6.73	11.35
9.10	124	6.73	11.35
9.20	127	7.25	12.44
9.25	127	7.25	12.44
9.30	127	7.25	12.44
9.40	127	7.25	12.44
9.50	127	7.25	12.44
9.60	130	7.89	13.55
9.70	130	7.89	13.55
9.75	130	7.90	13.58
9.80	130	7.90	13.58
9.90	130	7.90	13.58
10.00	130	7.90	13.58
10.50	133	8.70	14.95
11.00	140	10.05	17.19
11.50	142	11.05	18.40
12.00	149	11.65	19.40
12.50	152	14.05	21.53
13.00	152	16.20	27.20

**CHOICE OF TOLERANCE**  $+0.0051\text{mm}$   $-0.0000\text{mm}$  **OR**  $+0.0000\text{mm}$   $-0.0051\text{mm}$  **OR**  $+0.0025\text{mm}$   $-0.0025\text{mm}$

**METRIC BLANKS AVAILABLE .13 mm - 89 mm DIAMETER**  
**LENGTHS UP TO 1981 mm TO SUIT YOUR REQUIREMENTS**



# **QUICK DELIVERY DIRECT FROM OUR PLANT**

## **No Minimum Order**

Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each	Wire Size	Decimal Equivalent	Length Overall Inches	M2 Net Price Each	M42 Net Price Each
61	.0390	1 1/2	1.71	2.33	61	.0390	2	2.10	2.91
62	.0380	1 1/2	1.71	2.33	62	.0380	2	2.10	2.91
63	.0370	1 1/2	1.71	2.33	63	.0370	2	2.10	2.91
64	.0360	1 1/2	1.71	2.33	64	.0360	2	2.10	2.91
65	.0350	1 1/2	1.95	2.68	65	.0350	2	2.30	3.15
66	.0330	1 1/2	1.95	2.68	66	.0330	2	2.30	3.15
67	.0320	1 1/2	1.95	2.68	67	.0320	2	2.30	3.15
1/32	.03125	1 1/2	1.95	2.68	1/32	.03125	2	2.30	3.15
68	.0310	1 1/2	1.95	2.68	68	.0310	2	2.30	3.15
69	.0292	1 1/2	2.10	2.75	69	.0292	2	2.73	3.75
70	.0280	1 1/2	2.10	2.75	70	.0280	2	2.73	3.75
71	.0260	1 1/2	2.10	2.75	71	.0260	2	2.73	3.75
72	.0250	1 1/2	2.45	3.45	72	.0250	2	3.10	4.34
73	.0240	1 1/2	2.45	3.45	73	.0240	2	3.10	4.34
74	.0225	1 1/2	2.45	3.45	74	.0225	2	3.10	4.34
75	.0210	1 1/2	2.45	3.45	75	.0210	2	3.10	4.34
76	.0200	1 1/2	3.05	4.25	76	.0200	2	4.10	5.75
77	.0180	1 1/2	3.05	4.25	77	.0180	2	4.10	5.75
78	.0160	1 1/2	3.05	4.25	78	.0160	2	4.10	5.75
1/64	.015625	1 1/2	3.05	4.25	1/64	.015625	2	4.10	5.75
79	.0145	1 1/2	3.05	4.25	79	.0145	2	4.10	5.75
80	.0135	1 1/2	3.05	4.25	80	.0135	2	4.10	5.75

**CHOICE OF TOLERANCE**     $+ .0002$     **OR**     $+ .0000$     **OR**     $+ .0001$   
 $- .0000$                                          $- .0002$                                          $- .0001$

**QUANTITY DISCOUNTS**

The following discounts apply to orders for standard M2 & M42 HSS blanks, that is, blanks of standard length and standard diameter only:

100 pieces of one size	5%
250 pieces of one size	10%
500 pieces of one size	15%
1000 pieces of one size	20%

# M-2 HIGH SPEED STEEL HARDENED & GROUND BLANKS

ALL HARDENED BLANKS ARE 62 – 64 R/C

**36 INCH HARDENED & GROUND  
WIRE SIZE HSS LENGTHS**  
TOLERANCE  $\pm$  .0003

**36 INCH HSS LENGTHS**  
TOLERANCE  $\pm$  .001

Wire Size	Decimal Equivalent	Price Each
61	.0390	24.60
62	.0380	24.60
63	.0370	24.60
64	.0360	24.60
65	.0350	24.93
66	.0330	24.93
67	.0320	24.93
68	.0310	25.17
69	.0292	25.17
70	.0280	25.17
71	.0260	25.85
72	.0250	25.85
73	.0240	25.85
74	.0225	26.53
75	.0210	26.53
76	.0200	26.53
77	.0180	27.03
78	.0160	27.03
79	.0145	27.64
80	.0135	27.64

Fractional Size	Decimal Equivalent	Annealed M2 High Speed Blanks	Hardened Ground
1/16	.0625	8.45	22.43
5/64	.078125	9.05	24.14
3/32	.09375	9.65	24.24
7/64	.109375	10.20	25.55
1/8	.1250	11.20	27.79
9/64	.140625	12.40	27.95
5/32	.15625	13.75	28.12
11/64	.171875	15.15	29.44
3/16	.1875	16.25	29.64
13/64	.203125	17.80	30.84
7/32	.21875	19.40	31.08
15/64	.234375	20.75	32.34
1/4	.2500	22.60	32.62
17/64	.265625	24.65	37.25
9/32	.28125	26.70	37.57
19/64	.296875	29.95	39.35
5/16	.3125	31.35	39.71
21/64	.328125	33.70	44.92
11/32	.343875	36.35	45.31
23/64	.359375	38.60	50.02
3/8	.3750	41.30	50.44
25/64	.390625	44.20	57.75
13/32	.40625	47.05	58.30
27/64	.421875	52.25	59.28
7/16	.4375	53.55	59.78
29/64	.453125	56.75	69.38
15/32	.46875	59.20	69.75
31/64	.484375	63.85	70.75
1/2	.5000	67.40	70.80
17/32	.53125	75.00	200.35
9/16	.5625	83.35	211.40
19/32	.59375	95.00	220.75
5/8	.6250	97.95	224.85
21/32	.65625	108.50	196.08
11/16	.6875	116.95	218.31
23/32	.71875	126.90	230.63
3/4	.7500	137.35	293.05
7/8	.8750	183.75	313.77
1	1.0000	237.15	325.93

**24 INCH HARDENED & GROUND**  
TOLERANCE  $\pm$  .001

Fractional Size	Decimal Equivalent	Hardened Ground
17/32	.5312	99.35
9/16	.5625	114.50
5/8	.6250	119.35
11/16	.6875	144.25
23/32	.7188	152.20
3/4	.7500	160.40
13/16	.8125	181.40
7/8	.8750	186.50
1	1.0000	213.15
1-1/16	1.0620	247.70
1-1/8	1.1250	278.09
1-3/16	1.1870	301.48
1-1/4	1.2500	320.15
1-5/16	1.3125	344.18
1-3/8	1.3750	361.12
1-7/16	1.4375	367.96
1-1/2	1.5000	422.95

Additional sizes and tolerances available.



# M42 HIGH SPEED STEEL HARDENED & GROUND BLANKS

## 36 INCH HSS LENGTHS TOLERANCE $\pm .001$

- **HARDENED**
- **TEMPERED**
- **PRECISION GROUND....**

Hardness: Rockwell C 65-67  
DIAM.: TOLERANCE:  $\pm .001$

## 24 INCH HARDENED & GROUND TOLERANCE $\pm .001$

Fractional Size	Decimal Equivalent	Price Each
9/16	.5625	151.02
5/8	.6250	174.03
11/16	.6875	178.06
3/4	.7500	173.24
13/16	.8125	201.63
7/8	.8750	228.54
1	1.0000	267.93
1-1/16	1.0620	360.98
1-1/8	1.1250	425.77
1-3/16	1.1875	463.75
1-1/4	1.2500	471.18
1-5/16	1.3125	557.03
1-3/8	1.3750	561.11
1-7/16	1.4375	616.99
1-1/2	1.5000	640.75

Fractional Size	Decimal Equivalent	Price Each
1/16	.0625	45.25
5/64	.078125	48.75
3/32	.09375	48.85
7/64	.109375	53.60
1/8	.1250	56.25
9/64	.140625	56.40
5/32	.15625	57.75
11/64	.171875	59.40
3/16	.1875	59.79
13/64	.203125	62.23
7/32	.21875	62.77
15/64	.234375	66.24
1/4	.2500	66.83
17/64	.265625	76.22
9/32	.28125	77.14
19/64	.296875	80.23
5/16	.3125	81.15
21/64	.328125	92.55
11/32	.343875	93.33
23/64	.359375	105.82
3/8	.3750	105.75
25/64	.390625	115.67
13/32	.40625	116.82
27/64	.421875	125.43
7/16	.4375	127.40
29/64	.453125	130.62
15/32	.46875	131.56
31/64	.484375	140.61
1/2	.5000	145.75