

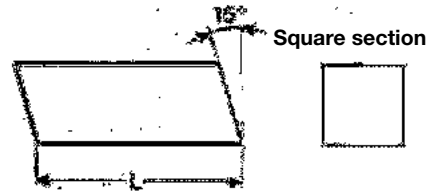
# WKE45 SUPER COBALT HSS TOOL BITS

RECTANGULAR		
B A Size	L Overall Length	Net Price Each
1/8x5/8"	6"	41.22
3/16x5/16	4	29.84
1/4x3/8	2½	21.44
1/4x3/8	4	25.53
1/4x1/2	3	23.59
1/4x1/2	4	27.47
1/4x1/2	6	41.99
1/4x3/4	5	45.50
1/4x3/4	6	50.91
1/4x1	6	84.06
5/16x7/16	4	39.57
5/16x1/2	3	29.38
5/16x1/2	6	58.30
5/16x3/4	5*	103.99
5/16x1	6*	104.60
3/8x1/2	3	35.55
3/8x1/2	4	45.25
3/8x1/2	6	54.56
3/8x5/8	4	50.14
3/8x5/8	5	57.53
3/8x5/8	6	56.72
3/8x3/4	4	50.75
3/8x3/4	5	59.61
3/8x3/4	6	66.17
3/8x1	6	124.41
1/2x3/4	4	57.44
1/2x3/4	5	62.94
1/2x3/4	6	77.91
1/2x1	7	120.25
1/2x1¼	7	209.12
1/2x1½	7	255.25
5/8x3/4	5	111.19
5/8x7/8	6	206.56
5/8x1	7	206.03
5/8x1¼	7	250.68
3/4x1	6	204.07
3/4x1¼	6	246.53

METRIC RECTANGULAR		
B A Size	L Overall Length	Net Price Each
3x12mm	90mm	21.50
3x12	200	44.44
4x10	100	26.39
4x10	120*	—
4x16	160	51.57
4x16	200*	54.47
4x20	200*	56.99
5x20	200*	72.56
6x8	70	21.61
6x10	200	57.37
6x12	200	66.73
6x14	140	47.33
6x14	200*	—
6x20	200*	89.09
8x12	160	58.57
8x12	200	70.98
8x16	140	64.70
8x16	160*	—
8x16	200*	82.33
8x20	200*	119.65
10x12	200	82.13
10x14	80	41.69
10x14	200*	—
10x16	160	79.58
10x16	200	100.51
10x20	160	95.82
10x20	200	114.11
10x40	200*	221.47
12x16	200	106.74
12x25	200*	124.88
12x30	200*	162.65
14x20	200*	136.91
16x20	200	163.98
20x25	200*	252.03

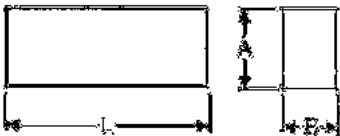
SQUARE		
Size Square	L Overall Length	Net Price Each
3/16"	2½"	10.20
3/16	4	16.99
1/4	2½	11.36
1/4	4	19.11
1/4	6*	27.52
1/4	8*	34.83
5/16	2½	13.69
5/16	3	16.06
5/16	4	21.44
5/16	6	33.17
5/16	8	58.10
3/8	3	18.78
3/8	4	24.85
3/8	6	38.55
3/8	8	63.49
7/16	3½	69.89
1/2	4	33.92
1/2	6	53.16
1/2	8	91.03
5/8	4½	60.36
5/8	6	106.68
3/4	5	86.64
3/4	6	102.13
1	5½	217.45
1	8	309.88

METRIC SQUARE		
Size Square	L Overall Length	Net Price Each
4mm	63mm	11.24
4	100	18.03
5	63	10.42
5	160	27.78
6	63	14.01
6	100	21.50
6	160	30.96
6	200	37.16
7	200	39.71
8	63	18.42
8	100	28.57
8	160	38.90
8	200	44.67
10	125	43.30
10	160	43.90
10	200	54.05
12	100	44.91
12	160	50.64
12	200	60.43
14	100	61.25
14	160	90.74
14	200*	95.34
16	100*	79.81
16	160	114.75
16	200*	134.85
18	200*	175.88
20	160*	177.96
20	200	213.71
25	200*	305.71



**\* AVAILABLE UNTIL STOCK IS EXHAUSTED**

**All Toolbits can be custom ground to meet your requirements**



WKE45 TYPICAL ANALYSIS					
C	Cr	Mo	W	V	Co
1.40	4.2	3.5	9.0	3.5	11.0

SEE PAGE 13 FOR WKE45 ROUND BLANKS

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# SQUARE & FLAT FORM TOOL BITS

## Square - Ground High Speed Tool Bits

Tolerance on Width and Thickness ±.002

Ends Beveled 10°



SIZE	M2 R/C 64.5-66	M3 * R/C 65-66.5	M42 R/C 67-69	M34 R/C 65-67	T15PM R/C 65-67	PM M-48 R/C 65-67
1/8 sq. x 2 1/2"	<p>Call for Current Pricing</p>					
3/16 sq. x 2 1/2"						
1/4 sq. x 2 1/2"						
5/16 sq. x 2 1/2"						
3/8 sq. x 3"						
7/16 sq. x 3 1/2"						
1/2 sq. x 4"						
5/8 sq. x 4 1/2"						
3/4 sq. x 5"						
7/8 sq. x 6" *						
1 sq. x 7"						

SIZE	M2 R/C 64.5-66	M3* R/C 65-66.5	M42 R/C 67-69	M34* R/C 65-67	T15PM R/C 65-67
1/4" x 3/8" x 2-1/2"	<p>Call for Current Pricing</p>				
x 3/8" x 3"					
x 1/2" x 3"					
x 1/2" x 4"					
x 1/2" x 6"					
x 3/4" x 5"					
x 1" x 6"					
5/16" x 7/16" x 3"					
x 7/16" x 3-1/2"					
x 1/2" x 3"					
x 5/8" x 4"					
3/8" x 1/2" x 3"					
x 1/2" x 4"					
x 1/2" x 6"					
x 5/8" x 4"					
x 5/8" x 4-1/2"					
x 5/8" x 5"					
x 5/8" x 6"					
x 3/4" x 4"					
x 3/4" x 5"					
x 3/4" x 6"					
x 1" x 6"					
1/2" x 5/8" x 4-1/2"					
x 3/4" x 4"					
x 3/4" x 5"					
x 3/4" x 6"					
x 1" x 7"					
x 1" x 8"					
5/8" x 3/4" x 5"					
x 7/8" x 6"					
x 1" x 7"					
x 1-1/4" x 7"					
x 1-1/2" x 7"					

\* AVAILABLE UNTIL STOCK IS EXHAUSTED

## Flat Form - Ground High Speed Tool Bits

Tolerance on Width and Thickness ±.002  
Square Ends

Additional Sizes and Materials Available — Call for Price and Delivery

All Toolbits can be custom ground to meet your requirements

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# SQUARE & FLAT FORM TOOL BITS

SIZE	M2 R/C 64.5-66	M3* R/C 65-66.5	M42 R/C 67-69	T15 R/C 65-67
3/4" x 1" x 6" x 1" x 7" x 1-1/4" x 7" x 1-1/2" x 7" 7/8" x 1-1/8" x 7" x 1-1/4" x 7" 1" x 1-1/4" x 6"	Call for Current Pricing			

**Flat Form - Ground  
High Speed Tool Bits**  
Tolerance on Width and  
Thickness  $\pm .002$   
**Square Ends**

**\* AVAILABLE UNTIL  
STOCK IS EXHAUSTED**

**Thin Flat Form - Ground  
High Speed Tool Bits**  
Tolerance on Width and  
Thickness  $+.002$   
 $-.000$   
**Square Ends**

**T15 & T15PM  
Long High Speed Tool Bits**  
R/C 65-67

SIZE	T15PM
3/16 x sq. x 6" 1/4 x sq. x 6" 1/4 x sq. x 8" 5/16 x sq. x 6" 3/8 x sq. x 6" 3/8 x sq. x 8" 7/16 x sq. x 6" 1/2 x sq. x 6" 1/2 x sq. x 8" 5/8 x sq. x 6" 5/8 x sq. x 8"	Call for Current Pricing

**Tolerance on Width  
and Thickness  $\pm .002$**   
**Ends Beveled 10°**

SIZE	M2 R/C 62-64	M42 R/C 66-68	T15PM R/C 65-67
1/16" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 3/32" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 1/8" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 5/32" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 3/16" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6" 1/4" x 1/2" x 6" x 5/8" x 6" x 3/4" x 6" x 7/8" x 6" x 1" x 6"	Call for Current Pricing		

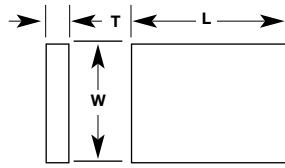
**Typical Analysis of High Speed Steel  
Tool Bit Materials**

	C	Cr	Mo	W	V	Co
<b>M2</b>	.85	4.15	5.00	6.30	1.85	—
<b>M3</b>	1.20	4.10	5.00	6.00	3.00	—
<b>M42</b>	1.10	3.75	9.50	1.50	1.15	8.25
<b>T15 &amp; T15PM</b>	1.57	4.00	—	12.25	5.00	5.00
<b>M34</b>	.90	3.75	8.00	1.50	2.05	8.25

**WILLIAM T. HUTCHINSON CO.**

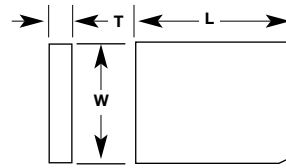
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# CARBIDE BLANKS STYLE 1000 & 2000



Style 1000

C-2 GRADE  
PREMIUM MEDIUM  
GRAIN CARBIDE  
WITH 6-8% COBALT



Style 2000

Dimensions				Blank Number	Price	Blank Number	Price
T	W	L	R	STYLE 1000	1 - 249 pcs.	STYLE 2000	1 - 249 pcs.
1/16	1/8	5/8	1/8	1010	0.88	2010	0.88
1/16	3/16	1/4	1/8	1020	0.86	2020	0.86
1/16	1/4	5/16	1/8	1030	0.88	2030	0.88
3/32	3/16	5/16	1/8	1040	0.80	2040	0.80
3/32	3/16	1/2	1/8	1050	1.25	2050	1.25
3/32	1/4	3/8	1/8	1060	1.16	2060	1.16
3/32	1/4	1/2	1/8	1070	1.35	2070	1.35
3/32	5/16	3/8	3/16	1080	1.28	2080	1.20
3/32	3/8	3/8	3/16	1090	1.42	2090	1.27
3/32	3/8	1/2	3/16	1100	1.56	2100	1.62
3/32	7/16	1/2	1/4	1105	1.86	2105	1.86
1/8	3/16	3/4	1/8	1110	1.62	2110	1.56
1/8	1/4	1/2	1/8	1120	1.26	2120	1.39
1/8	1/4	5/8	1/8	1130	1.59	2130	1.74
1/8	1/4	3/4	1/8	1140	2.10	2140	2.10
1/8	5/16	7/16	3/16	1150	1.37	2150	1.37
1/8	5/16	1/2	3/16	1160	1.59	2160	1.59
1/8	5/16	5/8	3/16	1170	1.97	2170	1.97
1/8	3/8	1/2	3/16	1180	1.91	2180	1.91
1/8	3/8	3/4	3/16	1190	2.85	2190	2.79
1/8	1/2	1/2	1/4	1200	2.52	2200	2.52
1/8	1/2	3/4	1/4	1210	3.77	2210	4.38
1/8	3/4	3/4	1/4	1215	5.64	2215	5.58
5/32	3/8	9/16	3/16	1220	2.63	2220	2.63
5/32	3/8	3/4	3/16	1230	3.50	2230	3.50
5/32	5/8	5/8	1/4	1240	4.87	2240	4.81
3/16	5/16	7/16	3/16	1250	2.02	2250	2.02
3/16	5/16	5/8	3/16	1260	2.90	2260	2.90
3/16	3/8	1/2	3/16	1270	2.79	2270	2.79
3/16	3/8	5/8	3/16	1280	3.50	2280	3.44
3/16	3/8	3/4	3/16	1290	4.16	2290	4.16
3/16	7/16	5/8	1/4	1300	4.05	2300	3.99
3/16	7/16	13/16	1/4	1310	5.19	2310	5.25
3/16	1/2	1/2	1/4	1320	3.72	2320	3.75
3/16	1/2	3/4	1/4	1330	5.52	2330	5.52
3/16	3/4	3/4	1/4	1340	7.95	2340	8.21

ALL STYLE 1000, 2000, STB & STBL SERIES  
BLANKS LISTED ARE **UNGROUND**

THICKNESS: MINIMUM GRIND STOCK  
1/16" TO 5/16" +0.04" - +0.015" ON ALL DIMENSIONS  
3/8" TO 1" +0.06" - +0.020" ON ALL DIMENSIONS

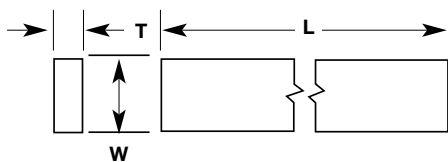
GROUND BLANKS TO YOUR SPECIFICATIONS  
ARE AVAILABLE • PRICES UPON REQUEST

C-5 GRADE PREMIUM MEDIUM GRAIN  
CARBIDE WITH 10% COBALT ALSO AVAILABLE

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# CARBIDE BLANKS STYLE STB - STBL



Style STB-STBL

Dimensions			Blank Number	Price ea.
T	W	L		
1/32	1/16	1	STB-12	1.10
1/32	1/16	1-1/2	STB-12A	1.54
3/64	3/32	13/16	STB-13A	1.28
3/64	3/32	1	STB-13	1.54
1/16	1/16	6	STB-22L	7.18
1/16	1/8	1	STB-24A	1.36
1/16	1/8	1-1/4	STB-24C	1.69
1/16	1/8	1-1/2	STB-24D	1.81
1/16	1/8	3	STB-24B	3.47
1/16	1/8	6	STB-24L	8.56
1/16	3/16	1	STB-26A	1.73
1/16	3/16	3	STB-26C	5.06
1/16	3/16	6	STB-26L	12.40
1/16	1/4	1	STB-28A	2.29
1/16	1/4	1-1/4	STB-28B	2.85
1/16	1/4	3	STB-28D	6.59
1/16	1/4	6	STB-28L	12.06
1/16	5/16	6	STB-210L	14.91
1/16	3/8	6	STB-212L	16.42
1/16	1/2	6	STB-216L	21.62
1/16	5/8	6	STB-220L	26.88
1/16	3/4	6	STB-224L	32.13
1/16	1	6	STB-232L	42.91
5/64	1/8	1-1/8	STB-14	1.85
3/32	1/8	5	STB-34	9.15
3/32	1/8	8	STB-34L	11.86
3/32	3/16	1-1/8	STB-36	2.50
3/32	3/16	1-1/4	STB-36A	2.77
3/32	3/16	8	STB-36L	14.09
3/32	1/4	1	STB-38A	2.10
3/32	1/4	1-1/2	STB-38B	4.30
3/32	1/4	5	STB-38D	13.73
3/32	1/4	8	STB-38L	15.99
3/32	5/16	2	STB-310A	7.01
3/32	5/16	3	STB-310B	7.45
3/32	5/16	5	STB-310C	12.29
3/32	5/16	8	STB-310L	19.98
3/32	3/8	5	STB-312	16.93
3/32	3/8	8	STB-312L	23.44
3/32	1/2	8	STB-316L	30.89
3/32	5/8	8	STB-320L	38.39
1/8	1/8	12	STB-44L	16.33

Dimensions			Blank Number	Price ea.
T	W	L		
1/8	3/16	6	STB-46	13.29
1/8	3/16	12	STB-46L	29.83
1/8	1/4	1	STB-48A	3.74
1/8	1/4	1-1/4	STB-48B	4.64
1/8	1/4	1-1/2	STB-48F	5.55
1/8	1/4	2-1/4	STB-48C	8.25
1/8	1/4	3	STB-48D	7.75
1/8	1/4	6	STB-48E	15.39
1/8	1/4	12	STB-48L	30.84
1/8	5/16	1-1/2	STB-410A	6.86
1/8	5/16	3	STB-410B	9.57
1/8	5/16	6	STB-410	19.05
1/8	3/8	1	STB-412D	5.55
1/8	3/8	2	STB-412A	7.64
1/8	3/8	3	STB-412B	11.40
1/8	3/8	6	STB-412C	22.65
1/8	3/8	12	STB-412L	43.35
1/8	1/2	1	STB-416A	7.28
1/8	1/2	1-1/2	STB-416B	7.64
1/8	1/2	3	STB-416C	15.05
1/8	1/2	6	STB-416	29.90
1/8	1/2	12	STB-416L	59.80
1/8	5/8	6	STB-420	37.16
1/8	5/8	12	STB-420L	74.31
1/8	3/4	6	STB-424	44.41
1/8	3/4	12	STB-424L	88.82
1/8	1	6	STB-432	59.36
1/8	1	12	STB-432L	118.72
3/16	3/16	12	STB-66L	32.17
3/16	1/4	3	STB-68A	11.25
3/16	1/4	6	STB-68	22.35
3/16	1/4	12	STB-68L	44.70
3/16	5/16	3	STB-610A	16.08
3/16	5/16	6	STB-610	27.59
3/16	5/16	12	STB-610L	55.21
3/16	3/8	3	STB-612A	16.53
3/16	3/8	6	STB-612	32.86
3/16	3/8	12	STB-612L	65.73
3/16	1/2	3	STB-616A	21.81
3/16	1/2	6	STB-616	43.37
3/16	1/2	12	STB-616L	86.69
3/16	5/8	3	STB-620A	53.88

C2 MEDIUM  
GRAIN CARBIDE  
6-8% COBALT

OTHER GRADES  
AVAILABLE UPON  
REQUEST

MINIMUM GRIND  
STOCK TOLERANCES

THICKNESS +0.008"  
WIDTH +0.012"  
LENGTH +0.008"

PARALLEL AND FLAT  
WITHIN 0.020"

ADDITIONAL  
QUANTITY  
DISCOUNTS  
AVAILABLE

SEE PAGE 15  
FOR  
CARBIDE  
DRILL BLANKS

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# INDEXABLE INSERTS & DOVETAIL TOOL BLANKS

## Triangular High Speed Steel T15 Inserts

Style Number	ANSI Standard	DIMENSIONS			PRICE PER PIECE
		S	T	R	
30074	TPG-322	.375	.125	.031	11.30
30085	TPG-433	.500	.188	.047	13.74
30096	TPG-544	.625	.250	.062	21.13



## Square High Speed Steel T15 Inserts

Style Number	ANSI Standard	DIMENSIONS			PRICE PER PIECE
		S	T	R	
30110	SPG-322	.375	.125	.031	10.02
30121	SPG-422	.500	.125	.031	11.84
30132	SPG-633	.750	.188	.047	17.75



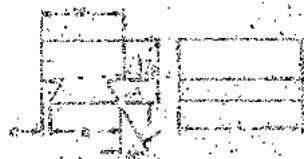
All sizes fit standard positive rake holders same as used for carbide inserts. Other radii available on application. Standard package quantity 10 pieces.

## Dovetail Form Tool Blanks (M42)



Dovetail Form Tool Holder	H	W	L	A	B	C	Style	Price Per Piece	Style Number
	+0.015 -0.000	+0.015 -0.000	±0.030	+0.015 -0.000	±0.003	±0.005			
3/8	3/4	1	1-1/2	19/64	.700	1/4	3/8-DF-1	41.57	35588
5/8	1	1	2-1/4	19/64	.951	1/16	5/8-DF-1	63.84	35599
5/8	1	1-1/2	2-1/4	19/64	.951	9/16	5/8-DF-2	83.93	35602
5/8	1	2	2-1/4	19/64	.951	17/32	5/8-DF-3	104.39	35613
1	1-1/2	2	3	35/64	1.614	3/16	1-DF-1	176.22	35624
1	1-1/2	2-1/2	3	35/64	1.614	7/16	1-DF-2	211.66	35635
1	1-1/2	3	3	35/64	1.614	11/16	1-DF-3	248.34	35646
1-1/4	1-1/2	2	3	35/64	1.882	1/8	1-1/4-DF-1	180.34	35657
1-1/4	1-1/2	2-1/2	3	35/64	1.882	9/16	1-1/4-DF-2	215.76	35668
1-1/4	1-1/2	3	3	35/64	1.882	9/16	1-1/4-DF-3	250.60	35679
1-5/8	1-1/2	3	3	35/64	2.238	3/8	1-5/8DF-1	255.56	35690
2-1/8	1-1/2	3	3	43/64	2.883	1/8	2-1/8DF-1	259.00	35704

## Dovetail Shave Tool Blanks (M42)



Dovetail Shave Tool Holder	H	W	L	A	B	C	Style	Price Per Piece	Style Number
	+0.015 -0.000	+0.015 -0.000	±0.030	+0.015 -0.000	±0.003	±0.005			
1/2	5/8	1-1/4	1-1/8	13/64	.714	3/8	1/2-DS-1	34.68	35715
5/8	3/4	1	1-1/2	17/64	.912	3/32	5/8-DS-1	40.52	35726
5/8	3/4	1-1/2	1-1/2	17/64	.912	19/64	5/8-DS-2	52.89	35737
5/8	3/4	2	1-1/2	17/64	.912	35/64	5/8-DS-3	64.76	35748
1	1	1-1/2	1-3/4	17/64	1.287	7/32	1-DS-1	67.94	35759
1	1	2	1-3/4	17/64	1.287	23/64	1-DS-2	83.99	35770
1-1/4	1	2	1-3/4	17/64	1.554	11/32	1-1/4-DS-1	88.11	35781
1-1/2	1	2	1-7/8	17/64	1.787	7/32	1-1/2-DS-1	92.81	35792
1-5/8	1-1/2	2-1/2	2-9/16	25/64	2.057	11/32	1-5/8DS-1	180.49	35806

# WILLIAM T. HUTCHINSON CO.

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# CUTOFF WHEELS

DIAMETER	WIDTH	BORE	PRICE
7"	1/32 1/16	1-1/4	CALL FOR PRICING
8"	1/32 1/16	1-1/4	

Hutchinson tool room cut off wheels are designed by toolmakers for toolmakers. These wheels are formulated for tool room applications where precise cutting is required.

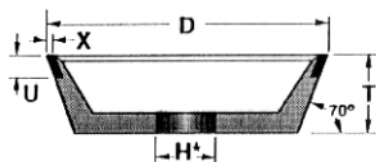
## REINFORCED CUTOFF WHEELS

DIAMETER	WIDTH	BORE	PRICE
10"	1/16	5/8	CALL FOR PRICING
12"	1/32	1-1/4 1" (w/bushing)	



Free cutting, long lasting, designed for applications where the workpiece is hand clamped or side pressure is evident. Center reinforced for reduced drag.

# DIAMOND WHEELS AND TOOLS



100% CONCENTRATION

## TYPE 11V9 FLARING CUP DIAMOND WHEELS

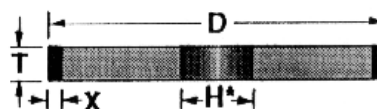
D IN.	T IN.	U IN.	X IN.	PRICE EACH
3 3/4	1 1/2	3/8	1/16	99.00
			1/8	115.00
5	1 3/4	7/16	1/16	130.00
			1/8	150.00

AVAILABLE IN GRIT SIZES  
 320-(FINE)  
 150-(MEDIUM)  
 100-(COARSE)  
 Specify (H) hole size

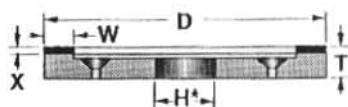
## TYPE 1A1 STRAIGHT STYLE 6" DIAMOND WHEELS

T IN.	X IN.	PRICE EACH
1/8	1/8	114.00
1/4	1/16	128.00
1/4	1/8	138.00
3/8	1/8	169.00
1/2	1/8	190.00

AVAILABLE IN GRIT SIZES  
 320-(FINE)  
 150-(MEDIUM)  
 100-(COARSE)  
 100% CONCENTRATION  
 Specify (H) hole size



## TYPE 6A2C CUP STYLE DIAMOND WHEELS WITH COUNTERSUNK BOLT HOLES



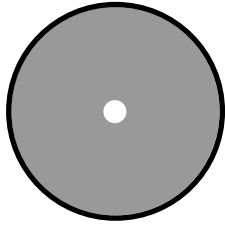
D IN.	T IN.	W IN.	X IN.	PRICE EACH
6	3/4	3/4	1/16	149.00
			1/8	199.00

75% CONCENTRATION  
 AVAILABLE IN GRIT SIZES  
 320-(FINE)  
 150-(MEDIUM)  
 100-(COARSE)  
 Specify (H) hole size

# WILLIAM T. HUTCHINSON CO.

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# DIAMOND TOOLS



### 6" DIAMOND CUT-OFF WHEEL

.035 Thickness  
 1 1/4" Hole  
 1/4" Diamond Depth  
 100% Concentration  
 GRIT D100  
 92.00 Each

### DIAMOND CLEANING STICK



Aluminum Oxide  
 150 Grit  
 1 x 1 x 6  
 6.79 Each

## Diamond Plated Bore Laps

Diameter	Length of Diamond	Price Each
3/16	1/2	*
7/32	1/2	*
1/4	1/2	*
9/32	1/2	*
5/16	1/2	*
11/32	1/2	*
3/8	3/4	*
13/32	3/4	*
7/16	3/4	*
15/32	3/4	*
1/2	1	*
9/16	1	*
5/8	1	*
11/16	1	*
3/4	1	*
7/8	1	*
1	1	*



STANDARD GRIT 220  
 OTHER GRITS AVAILABLE

SCREW ADJUSTMENT EXPANDS  
 DIAMETER

CBN PLATED ALSO AVAILABLE

SPECIFY BARREL OR BLIND HOLE  
 LAP WHEN ORDERING

NEEDLE EYE LAPS AVAILABLE TO  
 .030 DIA - CALL FOR PRICING

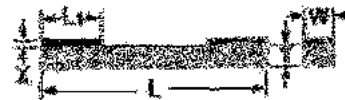
**\*Call for current pricing**

### SINGLE END DIAMOND HAND HONE



L IN.	W IN.	T IN.	L1 IN.	X IN.	PRICE EACH
4	1/4	1/4	1 1/4	1/8	65.00
6	3/8	3/8	1 1/4	1/8	95.00

### DOUBLE END DIAMOND HAND HONE



L IN.	W IN.	T IN.	L1 IN.	X IN.	PRICE EACH
4	1/4	1/4	1 1/4	1/8	80.00
6	3/8	3/8	1 1/4	1/8	112.00

AVAILABLE IN  
 GRIT SIZES  
 600-(FINE)  
 320-(MEDIUM)  
 150-(COURSE)

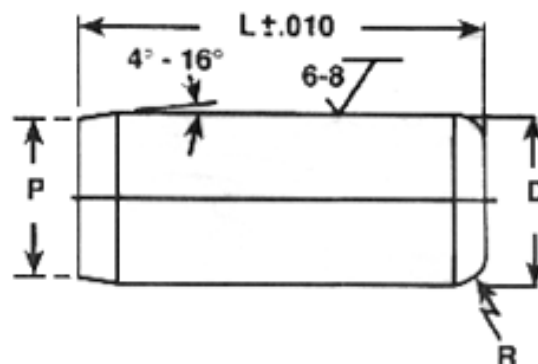
## WILLIAM T. HUTCHINSON CO.

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# DOWEL PINS

Length	Diameter					
	1/16	3/32	1/8	3/16	1/4	5/16
3/16	*	*	*	—	—	—
1/4	*	*	*	*	*	—
5/16	*	*	*	*	*	—
3/8	*	*	*	*	*	*
7/16	*	*	*	*	*	—
1/2	*	*	*	*	*	*
5/8	*	*	*	*	*	*
3/4	*	*	*	*	*	*
7/8	*	*	*	*	*	*
1	*	*	*	*	*	*
1 1/8	—	—	*	*	*	*
1 1/4	*	*	*	*	*	*
1 3/8	—	—	*	*	*	*
1 1/2	—	*	*	*	*	*
1 5/8	—	—	*	—	*	—
1 3/4	—	*	*	*	*	*
2	—	—	*	*	*	*
2 1/4	—	—	*	*	*	*
2 1/2	—	—	*	*	*	*
2 3/4	—	—	*	*	*	*
3	—	—	*	*	*	*
3 1/4	—	—	—	—	*	*
3 1/2	—	—	—	—	*	*
3 3/4	—	—	—	—	—	*
4	—	—	—	—	*	*



Nom Size	D				P		R	
	STANDARD		.001 Oversized		Point Diameter		Crown height or Radius	
	.0002 Max.	.0002 Min.	.001 Max.	.001 Min.	Max.	Min.	Max.	Min.
1/16	.0628	.0626	.0636	.0634	0.058	0.048	0.020	0.008
3/32	.0941	.0939	.0949	.0947	0.089	0.079	0.031	0.012
1/8	.1253	.1251	.1261	.1259	0.120	0.110	0.041	0.016
3/16	.1878	.1876	.1886	.1884	0.180	0.179	0.062	0.023
1/4	.2503	.2501	.2511	.2509	0.240	0.230	0.083	0.031
5/16	.3128	.3126	.3136	.3134	0.302	0.290	0.104	0.039
3/8	.3753	.3751	.3761	.3759	0.365	0.350	0.125	0.047
7/16	.4378	.4376	.4386	.4384	0.424	0.409	0.146	0.055
1/2	.5003	.5001	.5011	.5009	0.486	0.471	0.167	0.063
5/8	.6253	.6251	.6261	.6259	0.611	0.595	0.208	0.078
3/4	.7503	.7501	.7511	.7509	0.735	0.715	0.250	0.094
7/8	.8753	.8751	.8761	.8759	0.860	0.840	0.293	0.109
1	1.0003	1.0001	1.0011	1.0009	0.980	0.960	0.333	0.125

Length	Diameter							
	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1"
1/2	*	*	*	—	—	—	—	—
5/8	*	—	*	—	—	—	—	—
3/4	*	*	*	—	*	*	—	—
7/8	*	*	*	—	—	—	—	—
1	*	*	*	*	*	*	*	*
1 1/8	*	—	*	—	—	—	—	*
1 1/4	*	*	*	*	*	*	—	*
1 3/8	*	—	—	—	—	*	—	*
1 1/2	*	*	*	*	*	*	*	*
1 5/8	—	*	*	—	—	*	—	—
1 3/4	*	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*	*
2 1/4	*	*	*	*	*	*	*	*
2 1/2	*	*	*	*	*	*	*	*
2 3/4	*	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*	*
3 1/4	*	*	*	—	*	*	*	*
3 1/2	*	*	*	*	*	*	*	*
3 3/4	*	—	*	—	*	—	—	—
4	*	*	*	*	*	*	*	*
4 1/2	—	—	*	*	*	*	*	*
5	—	—	*	*	*	*	*	*
5 1/2	—	—	*	—	—	—	—	—
6	—	—	*	—	*	*	*	*

- All pins are heat treated to Rockwell 60-64C
- .001 oversized  $\pm .0001$  Prices on application
- Made in USA
- Dowel pins can be custom ground to special diameters to meet your requirements

NO MINIMUM ORDER

**\*Call for current pricing**

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# DOWEL PINS

## 303 STAINLESS DOWEL PINS

Length	1/8	3/16	1/4	5/16	3/8	1/2	5/8
1/2	*	*	*	*	*	—	—
5/8	*	*	*	*	*	*	—
3/4	*	*	*	*	*	*	—
7/8	*	*	*	*	*	—	—
1	*	*	*	*	*	*	*
1 1/4	*	*	*	*	*	*	*
1 1/2	*	*	*	*	*	*	*
1 3/4	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*
2 1/2	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*
3 1/2	*	—	*	*	*	*	*
4	*	—	*	*	*	*	*

## METRIC DOWEL PINS

Length in MM	4	5	6	8	10	12	16	20	Length in MM
12	*	*	*	*	—	—	—	—	12
14	*	*	—	—	—	—	—	—	14
16	*	*	*	*	*	—	—	—	16
18	*	*	—	—	*	—	—	—	18
20	*	*	*	*	*	*	*	—	20
25	*	*	*	*	*	*	*	*	25
30	*	*	*	*	*	*	*	*	30
35	*	*	*	*	*	*	*	—	35
40	*	*	*	*	*	*	*	*	40
45	—	—	*	*	*	*	*	—	45
50	*	*	*	*	*	*	*	*	50
55	*	*	*	*	*	*	—	—	55
60	*	*	*	*	*	*	*	*	60
65	—	*	*	*	*	*	—	—	65
70	*	*	—	*	*	*	*	*	70
80	—	—	*	*	*	*	—	*	80
90	—	—	*	*	*	*	*	—	90
100	—	—	*	—	*	*	—	*	100

## METRIC PULL DOWEL PINS

Length in MM	6	8	10	12	16	20	Length in MM
20	*	*	*	*	—	—	20
25	*	*	*	*	*	—	25
30	*	*	*	*	*	*	30
35	*	*	*	*	*	*	35
40	*	*	*	*	*	*	40
45	*	*	*	*	*	*	45
50	*	*	*	*	*	*	50
55	*	*	*	*	*	*	55
60	*	*	*	*	*	*	60
70	*	*	*	*	*	*	70
75	—	—	*	*	*	*	75
80	*	*	*	*	*	*	80
100	—	—	*	*	*	*	100

**NO MINIMUM ORDER**

**\*CALL FOR CURRENT PRICING**

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[www.hssblanks.com](http://www.hssblanks.com)

# SOCKET HEAD CAP & SET SCREWS

## BUTTON HEAD SOCKET CAP SCREWS

Length	4/40	6/32	8/32	10/24	10/32	1/4-20	5/16-18	3/8-16
1/4	*	*	*	*	*	—	—	—
3/8	*	*	*	*	*	*	—	—
1/2	*	*	*	*	*	*	*	*
5/8	—	*	*	*	*	*	*	*
3/4	—	—	*	*	*	*	*	*
1	—	—	—	*	*	*	*	*
1 1/4	—	—	—	—	—	—	—	*

## METRIC SOCKET HEAD CAP SCREWS

Length	M8	M10
16	*	—
20	*	*
25	*	*
30	*	*
35	*	*
40	*	*
45	*	*
50	*	*
55	*	*
60	*	*
65	*	*
70	*	*
75	*	*

**\*Call for current pricing**

## FLAT HEAD SOCKET CAP SCREWS

Length	4/40	5/40	6/32	8/32	10/24	10/32	1/4-20	5/16-18	3/8-16	1/2-13	5/8-11	3/4-10
1/4	*	*	*	—	—	—	—	—	—	—	—	—
3/8	*	*	*	*	*	*	*	—	—	—	—	—
1/2	*	*	*	*	*	*	*	*	—	—	—	—
5/8	*	*	*	*	*	*	*	*	—	—	—	—
3/4	*	*	*	*	*	*	*	*	*	*	—	—
1	—	—	—	*	*	*	*	*	*	*	—	—
1 1/4	—	—	—	—	*	*	*	*	*	*	*	—
1 1/2	—	—	—	—	*	*	*	*	*	*	*	*
1 3/4	—	—	—	—	—	—	*	*	*	*	*	*
2	—	—	—	—	—	—	*	*	*	*	*	*
2 1/4	—	—	—	—	—	—	—	—	—	*	*	*
2 1/2	—	—	—	—	—	—	—	—	—	*	*	*
3	—	—	—	—	—	—	—	—	—	*	*	*

## SOCKET SET SCREWS – CUP POINT (OTHER POINTS AND DIAMETERS AVAILABLE PRICES ON APPLICATION)

Length	0/80	1/72	2/56	3/48	4/40	5/40	6/32	8/32	10/24	10/32
1/16	—	*	*	—	—	—	—	—	—	—
3/32	*	*	*	*	—	—	—	—	—	—
1/8	*	*	*	*	*	*	*	*	—	—
3/16	*	*	*	*	*	*	*	*	*	*
1/4	*	*	*	*	*	*	*	*	*	*
5/16	—	—	—	—	*	*	*	*	*	*
3/8	—	—	—	—	*	*	*	*	*	*
1/2	—	—	—	—	*	*	*	*	*	*
5/8	—	—	—	—	—	—	—	—	*	*
3/4	—	—	—	—	—	—	—	—	*	*
1	—	—	—	—	—	—	—	—	—	*
1 1/4	—	—	—	—	—	—	—	—	—	*

Length	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	1/2-13
3/16	*	*	—	—	—	—	—
1/4	*	*	*	*	*	*	—
5/16	*	*	*	*	*	*	—
3/8	*	*	*	*	*	*	—
1/2	*	*	*	*	*	*	*
5/8	*	—	*	*	*	*	*
3/4	*	—	*	*	*	*	*
1	*	—	*	*	*	*	*
1 1/4	*	—	*	—	*	*	*
1 1/2	*	—	*	—	*	*	*

## WILLIAM T. HUTCHINSON CO.

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# SOCKET HEAD CAP SCREWS

Length	0/80	1/72	2/56	3/48	4/40	5/40	6/32	6/40	8/32	8/36	10/24	10/32	1/4-20	1/4-28
1/8	*	*	—	—	—	—	—	—	—	—	—	—	—	—
3/16	*	*	*	*	—	—	—	—	—	—	—	—	—	—
1/4	*	*	*	*	*	*	*	—	*	—	—	—	—	—
3/8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1/2	—	—	*	*	*	*	*	*	*	*	*	*	*	*
5/8	—	—	—	—	*	*	*	*	*	—	*	*	*	*
3/4	—	—	—	—	*	*	*	*	*	*	*	*	*	*
7/8	—	—	—	—	—	—	*	—	*	—	*	*	*	—
1	—	—	—	—	—	—	*	—	*	—	*	*	*	*
1 1/4	—	—	—	—	—	—	—	—	*	—	*	*	*	*
1 1/2	—	—	—	—	—	—	—	—	*	—	*	*	*	*
1 3/4	—	—	—	—	—	—	—	—	—	—	*	*	*	*
2	—	—	—	—	—	—	—	—	—	—	*	*	*	*
2 1/4	—	—	—	—	—	—	—	—	—	—	—	—	*	—
2 1/2	—	—	—	—	—	—	—	—	—	—	—	—	*	—
2 3/4	—	—	—	—	—	—	—	—	—	—	—	—	*	—
3	—	—	—	—	—	—	—	—	—	—	—	—	*	—

Length	5/16-18	5/16-24	3/8-16	3/8-24	7/16-14	1/2-13	1/2-20	5/8-11	3/4-10	1-8
1/2	*	—	*	—	—	*	—	—	—	—
5/8	*	*	*	—	—	—	—	—	—	—
3/4	*	*	*	*	*	*	—	—	—	—
7/8	*	*	*	—	*	*	—	—	—	—
1	*	*	*	*	*	*	*	*	—	—
1 1/4	*	*	*	*	*	*	*	*	*	—
1 1/2	*	*	*	*	*	*	*	*	*	—
1 3/4	*	*	*	*	*	*	*	*	*	—
2	*	*	*	*	*	*	*	*	*	*
2 1/4	*	—	*	—	*	*	*	*	*	*
2 1/2	*	—	*	—	*	*	*	*	*	*
2 3/4	*	—	*	—	*	*	—	*	*	*
3	*	—	*	—	*	*	*	*	*	*
3 1/4	*	—	*	—	—	*	—	*	*	*
3 1/2	*	—	*	—	—	*	—	*	*	*
4	—	—	*	—	—	*	—	*	*	*
4 1/2	—	—	*	—	—	*	—	*	*	*
5	—	—	*	—	—	*	—	*	*	*
5 1/2	—	—	—	—	—	*	—	*	*	*
6	—	—	—	—	—	*	—	*	*	*
6 1/2	—	—	—	—	—	*	—	*	*	*
7	—	—	—	—	—	*	—	*	*	*
8	—	—	—	—	—	*	—	*	*	*

**\*Call for current pricing**

**Also Available:**

**COMPLETE LINE OF HOLO-KROME FASTENERS**

**CALL 1-800-544-7934 TO REQUEST LATEST HOLO-KROME CATALOG**



**WILLIAM T. HUTCHINSON CO.**

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# LIXIE HAMMERS AND MALLETS

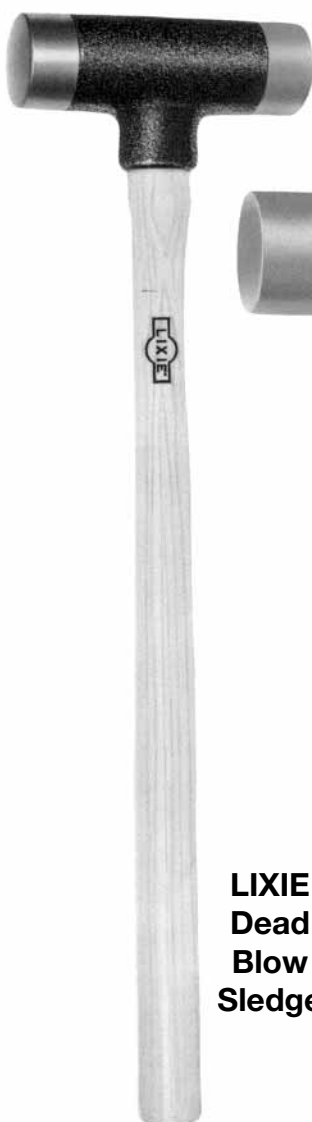
## SOFT FACE DEAD BLOW

### Hammers, Mallets and Sledges with Replaceable Faces

All Lixie Dead Blow striking tool head castings feature an unobstructed cavity, partially filled with iron shot. As the hammer is struck on a surface, the urethane face absorbs a portion of the blow's energy. The shot moves forward immediately behind the blow, dampening the rebound and insuring that the force of the blow is transmitted solidly to the struck surface. Lixie Dead Blow Hand Hammers and Mallets are available in 6 sizes, with a selection of two weights in each size. The rugged head casting is of either malleable iron (Heavy Dead Blow) or hi-tensile, non-sparking Aluminum (Light Dead Blow).

Lixie Dead Blow Sledges have the same features as the Hammers and Mallets. They are used where a heavy blow is desired, yet still retain the highly protective quality of Lixie urethane. They are available in 3 sizes with 2 weights in each size furnished with smooth hickory grip handles.

SEE PAGE 55 FOR AVAILABLE FACES



**LIXIE  
Dead  
Blow  
Sledge**



**LIXIE  
Dead  
Blow  
Mallet**

	MODEL	HEAD DIAM.	HEAD LENGTH	OVERALL LENGTH	WEIGHT (OUNCES)	PRICE EACH
<b>HAMMERS &amp; MALLETS</b>	*100L-MH	1"	4-1/4"	11"	10	47.78
	100H-MH	1"	4-1/4"	11"	14	53.99
	*125L-MH	1-1/4"	4-7/8"	12"	14	52.95
	125H-MH	1-1/4"	4-7/8"	12"	22	59.65
	*150L-MH	1-1/2"	5-1/4"	13"	22	60.71
	150H-MH	1-1/2"	5-1/4"	13"	30	72.25
	*200L-MH	2"	6-1/4"	15"	38	91.85
	200H-MH	2"	6-1/4"	15"	56	103.74
	*250L-MH	2-1/2"	7"	17"	66	157.25
	250H-MH	2-1/2"	7"	17"	100	149.36
<b>SLEDGES</b>	*300L-MH	3"	8-1/2"	19"	116	203.29
	300H-MH	3"	8-1/2"	19"	168	235.06
	*250L-MH-32	2-1/2"	7-1/8"	32"	80	210.58
	250H-MH-32	2-1/2"	7-1/8"	32"	114	219.69
	*300L-MH-35	3"	8-1/2"	35"	120	264.48
300H-MH-35	3"	8-1/2"	35"	180	320.20	

**HAMMERS FURNISHED COMPLETE WITH 2 FACES**

Grade of face may be interchanged without increase in cost. Where not specified standard face makeup of Medium and Hard (MH) will be furnished.

\*All L-Light Dead Blow models are sparkproof.

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## LIXIE HAMMERS AND MALLETS

## MULTI HAMMER

## with Replaceable Urethane Face

ONE HAMMER DOES THE JOB OF TWO! With a flip of the wrist you can switch from a sparkproof bronze to a soft, protective urethane face without fumbling for another hammer. Lixie's exclusive all-purpose model has a machinist's head cast in our special bronze alloy, with the opposite face incorporating replaceable screw-in faces in your choice of 4 grades, soft to hard. The handle is Grade A hickory with an exclusive non-slip grooved handle and special epoxy wedge construction. The All-Purpose hammer comes in a choice of 3 sizes with face diameters of 1", 1-1/4" or 1-1/2".



MODEL	HEAD DIAM.	HEAD LENGTH	OVERALL LENGTH	WEIGHT (OUNCES)	PRICE EACH
AB 100-T	1"	3-7/8"	12-1/2"	16	61.19
AB 125-T	1-1/4"	4-3/8"	13"	26	77.34
AB 150-T	1-1/2"	5"	13"	36	102.44

## HAMMERS FURNISHED COMPLETE WITH 1 URETHANE FACE

Grade of face may be interchanged without increase in cost. Where not specified standard Tough grade (T) will be furnished. All are sparkproof.

## REPLACEABLE URETHANE SCREW-IN FACES

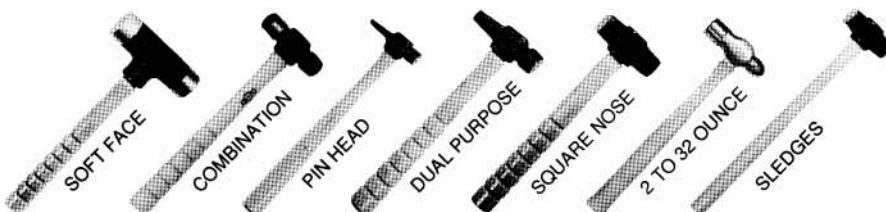
Lixie screw-type replaceable polyurethane faces are included on all Lixie Dead Blow and Multi Hammers. They are available in six sizes, with a range of four hardnesses in each size. This permits custom fitting a Lixie hammer to your individual requirements. Impervious to oils and most solvents, these solid polyurethane faces have high impact absorption, yet will not mar,peen or deform the struck surface.



## COLOR DENOTES HARDNESS

COLOR	DIAMETER					
	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
BROWN (Soft)	9.68	10.74	12.79	17.51	31.96	43.06
GREEN (Medium)	9.68	10.74	12.79	17.51	31.96	43.06
RED (Tough)	9.68	10.74	12.79	17.51	31.96	43.06
BLACK (Hard)	12.13	13.75	16.64	24.04	43.23	59.63

**NOTE:** Order face diameter to coincide with hammer diameter. Faces packaged one each per container.



To request full line brochure of Lixie Hammers -  
Call 1-800-544-7934

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## STEEL SHIM STOCK

Steel Shim Stock is low carbon mild steel cold rolled to a #1 hard temper. It is stiff and springy. The material can be punched or sheared with minimum burring and distortion.

**1008/1010 Full Hard, AISI1010, QQS 698**

### 6" x 100" Rolls

THICKNESS	PRICE EACH
.001	\$ 14.39
.0015	17.10
.002	9.85
.0025	10.36
.003	12.46
.004	12.03
.005	10.99
.006	10.51
.007	10.96
.008	10.88
.009	11.40
.010	11.59
.012	11.36
.015	11.80
.018	13.41
.020	13.85
.025	14.81
.031	15.58

### 6" x 180" Rolls

THICKNESS	PRICE EACH
.001	\$ 29.78
.0015	35.41
.002	20.38
.0025	21.45
.003	26.00
.004	24.90
.005	22.74
.006	21.77
.007	22.69
.008	22.53
.009	23.57
.010	24.01
.012	23.53
.015	24.42
.018	27.80
.020	28.70
.025	30.64
.031	32.28

### Assortments

12 Pak – 1 Pc. each 6"x12"		
\$ 43.26		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
15 Pak – 1 Pc. each 6"x12"		
\$ 50.41		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
.020	.025	.031
4 Pak – 1 Pc. each 6"x50"		
\$ 45.77		
.001		
.002		
.003		
.005		

## BRASS SHIM STOCK

Use Brass Shim Stock where some stiffness is required and where corrosion problems exist. 70% copper and 30% zinc it has been cold rolled to a 1/2 hard temper, Rockwell hardness of 30T 56/68.

**260 Half Hard**

### 6" x 100" Rolls

THICKNESS	PRICE EACH
.001	\$ 24.90
.0015	25.02
.002	25.81
.003	26.65
.004	28.08
.005	29.05
.006	29.89
.007	31.38
.008	33.09
.009	35.55
.010	38.69
.012	41.90
.015	48.39
.020	56.73
.025	67.77
.031	80.18

### 6" x 180" Rolls

THICKNESS	PRICE EACH
.001	\$ 45.84
.0015	45.84
.002	45.84
.003	45.84
.004	48.11
.005	55.37
.006	60.26
.007	67.24
.008	67.24
.009	71.61
.010	71.61
.012	89.08
.015	98.48
.020	118.79
.025	142.35
.031	157.21

### Assortments

12 Pak – 1 Pc. each 6"x12"		
\$ 50.22		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
15 Pak – 1 Pc. each 6"x12"		
\$ 68.47		
.001	.0015	.002
.003	.004	.005
.006	.007	.008
.010	.012	.015
.020	.025	.031
4 Pak – 1 Pc. each 6"x50"		
\$ 55.90		
.001		
.002		
.003		
.005		

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# STAINLESS STEEL SHIM STOCK

Stainless Steel Shim Stock can be used in any applications where corrosion is a concern, Available as follows:

300 Series Full Hard, R/C 40-45

302 Half Hard, R/C 30-35

302 Annealed

Stainless Steel Metric

## 300 Series Full Hard, R/C 40-45

### 6" x 50" Rolls

THICKNESS	PRICE EACH
.0005	\$ 76.09
.001	36.69
.0015	33.62
.002	23.22
.003	22.32
.004	21.78
.005	25.05
.006	25.03
.007	25.80
.008	26.22
.009	50.14
.010	27.21
.012	28.43
.015	30.76
.020	36.53
.025	42.78
.031	48.75

### 6" x 60" Rolls

THICKNESS	PRICE EACH
.0005	—
.001	52.85
.0015	—
.002	33.47
.003	32.13
.004	31.35
.005	36.07
.006	36.01
.007	37.15
.008	37.74
.009	42.51
.010	39.15
.012	40.93
.015	44.26
.020	51.04
.025	61.11
.031	70.21

### 12' x 50" Rolls

THICKNESS	PRICE EACH
.0005	—
.001	72.76
.0015	—
.002	46.10
.003	45.80
.004	46.72
.005	50.77
.006	57.61
.007	59.53
.008	60.58
.009	—
.010	61.88
.012	64.60
.015	64.72
.020	70.43
.025	84.71
.031	111.44

## 1/2 Hard Stainless Shim R/C 30-35 AISI 302

### 12" x 50" Rolls

THICKNESS	PRICE EACH
.003	\$ 96.73
.004	103.85
.005	104.96
.006	128.12
.008	134.67
.010	148.07
.012	143.69
.015	136.74
.020	148.80
.025	188.40

## Annealed Stainless Shim AISI 302

### 12" x 50" Rolls

THICKNESS	PRICE EACH
.003	\$ 96.73
.004	103.85
.005	104.96
.006	128.12
.008	134.67
.010	148.07
.012	143.69
.015	136.74
.020	148.80
.025	188.40

## Metric Stainless

300 Series Full Hard, R/C 40-45

### 150mm x 1.25m

THICKNESS	PRICE EACH
.05 mm	\$ 24.48
.10	24.89
.15	26.25
.20	27.52
.25	28.53
.30	29.80
.40	32.29
.50	38.34
.65	44.90
.80	51.16

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# AISI TYPE 0-1 OIL HARDENING GROUND FLAT STOCK

**Overall Length: 18"**

Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each	
1/64	1/2	117.76	5/64	1/2	17.26	1/8	3	56.36	3/16	3-1/2	78.20	
	3/4	122.45		3/4	21.38		3-1/2	64.19		4	87.38	
	1	128.64		1	25.56		4	72.00		5	106.01	
	1-1/4	134.81		1-1/4	29.63		5	87.62		6	124.61	
	1-1/2	148.46		1-1/2	33.80		6	103.23		8	185.27	
	2	184.44		2	42.12		7	136.35	10	227.89		
	2-1/2	211.46		2-1/2	50.07		8	154.53	12	270.85		
	3	253.34		3	58.39		10	190.51	7/32	7/32	31.75	
	4	341.12		4	75.18		12	226.68		1/2	27.20	
1/32	1/2	21.36	3/32	6	108.79		14	261.79		3/4	32.76	
	3/4	28.85		1/4	55.84		9/64	1/2		21.61	1	38.35
	1	33.63		3/8	30.67			3/4		24.63	1-1/4	43.57
	1-1/4	39.85		1/2	17.26			1	29.16	1-1/2	49.12	
	1-1/2	46.07		3/4	21.38			1-1/4	35.09	2	60.22	
	2	58.27		1	25.56	1-1/2		37.88	2-1/2	71.85		
	2-1/2	70.57		1-1/4	29.63	2		46.91	3	82.45		
	3	83.21		1-1/2	33.80	3		64.80	4	104.54		
	4	107.07		1-3/4	37.95	4		82.71	6	148.90		
	6	190.31		2	42.12	5/32		5/32	35.33	1/4	1/4	31.76
	3/64	1/2		18.75	2-1/2			50.48	1/4		52.85	5/16
3/4		24.16	3	58.83	3/8		30.69	3/8	24.85			
1		29.45	4	75.44	1/2		21.42	1/2	27.09			
1-1/4		34.56	5	92.08	3/4		26.26	5/8	29.77			
1-1/2		39.88	6	108.72	1		31.04	3/4	32.32			
2		50.53	8	162.59	1-1/4		35.54	1	37.67			
2-1/2		60.95	10	214.09	1-1/2		40.22	1-1/4	42.51			
3		71.54	7/64	1/2	20.54		1-3/4	44.99	1-1/2		47.87	
3-1/2		82.13		3/4	25.51		2	49.84	1-3/4		52.75	
4	112.09	1		30.35	2-1/2	59.25	2	58.43				
6	134.61	1-1/4		35.07	3	68.82	2-1/2	68.96				
1/16	1/4	44.34		1-1/2	40.01	3-1/2	78.35	3	79.52			
	3/8	22.15		2	49.85	4	87.87	3-1/2	90.11			
	1/2	13.23		2-1/2	62.39	5	106.94	4	100.71			
	5/8	15.19		3	69.45	6	125.92	4-1/2	111.23			
	3/4	16.69		4	89.04	8	187.76	5	121.76			
	1	20.13		6	140.54	3/16	3/16	33.04	5-1/2	132.39		
	1-1/4	23.49	1/8	1/8	38.06		1/4	18.23	6	148.68		
	1-1/2	27.00		1/4	13.68		5/16	19.76	7	188.06		
	1-3/4	30.39		5/16	14.94		3/8	20.65	8	212.75		
	2	33.87		3/8	15.77		1/2	22.73	10	261.34		
	2-1/2	40.68		1/2	17.40		5/8	25.53	12	310.19		
3	47.52	5/8		19.38	3/4		27.23	14	357.56			
3-1/2	54.53	3/4		21.38	1		31.92	9/32	9/32	33.03		
4	61.21	1		25.30	1-1/4		36.29		1/2	31.29		
5	75.00	1-1/4		28.98	1-1/2		40.94		3/4	37.23		
6	88.72	1-1/2		32.88	1-3/4	45.54	1		43.28			
8	133.01	1-3/4	21.22	2	50.26	1-1/4	48.76					
10	164.44	2	40.72	2-1/2	59.50	1-1/2	54.83					
		2-1/2	48.51	3	68.85							

**Tolerance:** Thickness ± .001  
 Width + .005  
 - .0

**Also Available:**

36" Lengths • Oversize • Low Carbon • A-2, D-2, S-7

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# AISI TYPE 0-1 OIL HARDENING GROUND FLAT STOCK

**Overall Length: 18"**

Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each	Thickness	Width	Price Each			
9/32	2	66.79	7/16	1-1/4	72.59	3/4	2	146.12	1-1/2	2	262.88			
	3	90.76		1-1/2	81.32		2-1/2	171.04		3	305.11			
	4	114.66		2	98.74		3	196.09		4	431.81			
	6	162.41		2-1/2	116.20		3-1/2	221.01		6	609.51			
5/16	5/16	34.34		3	133.62		4	245.99		8	843.62	2	2	336.78
	3/8	29.90		4	164.31		4-1/2	270.97		3	442.93			
	1/2	32.42	6	238.31	5		297.34	4		549.22				
	5/8	35.56	1/2	1/2	50.01		6	347.26		6	731.16			
	3/4	38.65		5/8	54.68		8	508.04	2-1/2	2-1/2	578.96			
	1	45.07		3/4	59.33		10	612.72						
	1-1/4	50.58		1	68.62		12	717.50						
	1-1/2	56.84		1-1/4	77.63		7/8	7/8		105.64				
	1-3/4	63.03		1-1/2	86.91	1		112.77						
	2	69.28		1-3/4	96.54	1-1/4		126.13						
	2-1/2	81.73		2	105.59	1-1/2		140.29						
	3	94.11		2-1/2	124.25	2		168.61						
3-1/2	106.56	3		142.92	3	225.44								
4	119.02	3-1/2		161.55	4	282.17								
5	143.61	4		180.24	6	397.07								
6	174.95	4-1/2	198.92	1	1	90.07								
7	221.40	5	218.84		1-1/4	135.19								
8	250.12	6	268.20		1-1/2	150.12								
10	307.05	7	339.21		1-3/4	164.97								
12	364.35	8	383.09		2	179.87								
3/8	3/8	43.20	10		461.12	2-1/2	209.68							
	1/2	39.51	12		538.36	3	239.36							
	5/8	43.34	9/16		9/16	60.01	3-1/2	269.15						
	3/4	47.12			3/4	67.69	4	298.90						
	1	54.58			1	78.02	5	359.81						
	1-1/4	61.47			1-1/4	88.16	6	419.41						
	1-1/2	68.98			1-1/2	98.47	8	611.61						
	1-3/4	78.75		2	119.23	10	738.20							
	2	84.06		5/8	5/8	65.52	12	864.69						
	2-1/2	99.00			3/4	70.92	1-1/8	1-1/8	154.64					
	3	114.05			1	81.60		1-1/2	180.06					
	3-1/2	129.09			1-1/4	91.97		2	214.16					
4	144.08	1-1/2			102.67	3		282.26						
4-1/2	159.06	2			124.11	4		350.43						
5	174.02	2-1/2	145.52		6	488.21								
5-1/2	189.13	3	166.96		1-1/4	1-1/4		170.74						
6	204.11	3-1/2	188.43			1-1/2		189.12						
7	267.64	4	209.85			2		226.06						
8	302.41	5	254.09			2-1/2		262.84						
10	371.19	6	296.97			3		299.54						
12	440.38	3/4	3/4	84.31		4		373.14						
7/16	7/16		52.12	1		96.86	5	448.20						
	1/2		47.12	1-1/4		108.69	6	521.82						
	3/4		55.83	1-1/2		121.14	1-1/2	1-1/2	220.67					
	1		64.55	1-3/4		133.63								

**Tolerance:**

Thickness ± .001  
Width + .005  
- .0

**Also Available:**

- 36" Lengths
- Oversize
- Low Carbon
- A-2, D-2, S-7

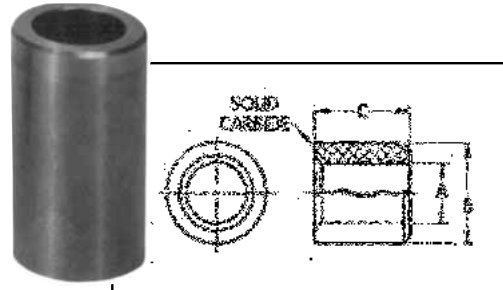
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# SOLID CARBIDE PLAIN PRESS FIT BUSHINGS

Std. Drill Size A	Actual O.D. B	Length C	Symbol for O.D. Finish Ground
.0135 to .0625	.1578 .1575	1/4	PC-10-4
		5/16	PC-10-5
		3/8	PC-10-6
		1/2	PC-10-8
.0625 to .0995	.2046 .2043	1/4	PC-13-4
		5/16	PC-13-5
		3/8	PC-13-6
		1/2	PC-13-8
.0980 to .1406	.2516 .2513	1/4	PC-16-4
		5/16	PC-16-5
		3/8	PC-16-6
		1/2	PC-16-8
.1250 to .1935	.3141 .3138	3/4	PC-16-12
		1	PC-20-4
		5/16	PC-20-5
		3/8	PC-20-6
.1875 to .2570	.4078 .4075	1/2	PC-20-8
		3/4	PC-20-12
		1	PC-20-16
		1-3/8	PC-26-4
.1875 to .3160	.5017 .5014	5/16	PC-26-5
		3/8	PC-26-6
		1/2	PC-26-8
		3/4	PC-26-12
.3125 to .4375	.6267 .6264	1	PC-26-16
		1-3/8	PC-26-22
		1-3/4	PC-26-28
		2-1/8	PC-26-22
.3750 to .5312	.7518 .7515	1-3/4	PC-32-6
		2-1/8	PC-32-8
		1	PC-32-12
		3/4	PC-32-16
.5000 to .6250	.8768 .8765	1	PC-32-22
		3/8	PC-32-28
		1/2	PC-40-6
		3/4	PC-40-8
.6250 to .7500	1.0018 1.0015	1	PC-40-12
		3/4	PC-40-16
		1-3/8	PC-40-22
		1-3/4	PC-40-28
.7500 to 1.0000	1.3772 1.3768	2-1/8	PC-40-34
		2-1/2	PC-48-8
		1	PC-48-12
		3/4	PC-48-16
		1-3/8	PC-48-22
		1-3/4	PC-48-28
		2-1/8	PC-48-34
		2-1/2	PC-48-34
		1/2	PC-56-8
		3/4	PC-56-12
		1	PC-56-16
		1-3/8	PC-56-22
		1-3/4	PC-56-28
		2-1/8	PC-56-34
		1/2	PC-64-8
		3/4	PC-64-12
		1	PC-64-16
		1-3/8	PC-64-22
		1-3/4	PC-64-28
		2-1/8	PC-64-34
		2-1/2	PC-64-40
		3/4	PC-88-12
		1	PC-88-16
		1-3/8	PC-88-22
		1-3/4	PC-88-28
		2-1/8	PC-88-34
		2-1/2	PC-88-40



## SOLID CARBIDE SLIP & FIXED RENEWABLE BUSHINGS

ALSO AVAILABLE  
PRICES UPON REQUEST

### STANDARD I.D. TOLERANCES

Up to 1/4	Nominal +.0001/+.0004
Over 1/4 to 3/4	Nominal +.0001/+.0005
Over 3/4 to 1-1/2	Nominal +.0002/+.0006
Over 1-1/2 to 1-3/4	Nominal +.0003/+.0007

### Counterbore

Unless otherwise specified, all Carbide Bushings are supplied without counterbore. (Carbide Bushings with counterbore are priced as specials.)

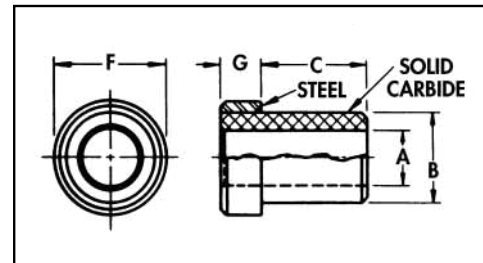
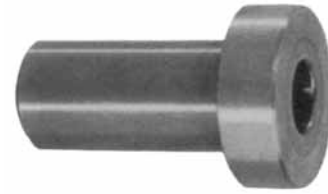
AVAILABLE IN DRILL SIZES  
UP TO 1.750  
PRICES ON REQUEST

**WILLIAM T. HUTCHINSON CO.**

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# CARBIDE HEAD PRESS FIT BUSHINGS

Std. Drill Size A	Actual O.D. B	Length C	Symbol for O.D. Finish Ground	HEAD DIMENSIONS	
				F	G
.0135 to .0625	.1578 .1575	1/4	HC-10-4	1/4	3/32
		5/16	HC-10-5		
		3/8	HC-10-6		
		1/2	HC-10-8		
.0625 to .0995	.2046 .2043	1/4	HC-13-4	19/64	3/32
		5/16	HC-13-5		
		3/8	HC-13-6		
		1/2	HC-13-8		
.0980 to .1406	.2516 .2513	1/4	HC-16-4	23/64	3/32
		5/16	HC-16-5		
		3/8	HC-16-6		
		1/2	HC-16-8		
.1250 to .1935	.3141 .3138	3/4	HC-16-12	27/64	1/8
		1/4	HC-20-4		
		5/16	HC-20-5		
		3/8	HC-20-6		
		1/2	HC-20-8		
.1875 to .2570	.4078 .4075	3/4	HC-20-12	1/2	5/32
		1	HC-20-16		
		1-3/8	HC-26-4		
		1/4	HC-26-5		
		3/8	HC-26-6		
		1/2	HC-26-8		
.1875 to .3160	.5017 .5014	3/4	HC-26-12	39/64	7/32
		1	HC-26-16		
		1-3/8	HC-26-22		
		1-3/4	HC-26-28		
		3/8	HC-32-6		
		1/2	HC-32-8		
.3125 to .4375	.6267 .6264	3/4	HC-32-12	51/64	7/32
		1	HC-32-16		
		1-3/8	HC-32-22		
		1-3/4	HC-32-28		
		3/8	HC-40-6		
		1/2	HC-40-8		
.3750 to .5312	.7518 .7515	3/4	HC-40-12	59/64	7/32
		1	HC-40-16		
		1-3/8	HC-40-22		
		1-3/4	HC-40-28		
		2-1/8	HC-40-34		
		1/2	HC-48-8		
.5000 to .6250	.8768 .8765	3/4	HC-48-12	1-7/64	1/4
		1	HC-48-16		
		1-3/8	HC-48-22		
		1-3/4	HC-48-28		
		2-1/8	HC-48-34		
		1/2	HC-56-8		
.6250 to .7500	1.0018 1.0015	3/4	HC-56-12	1-15/64	5/16
		1	HC-56-16		
		1-3/8	HC-56-22		
		1-3/4	HC-56-28		
		2-1/8	HC-56-34		
		1/2	HC-64-8		
.7500 to 1.0000	1.3772 1.3768	3/4	HC-64-12	1-39/64	3/8
		1	HC-64-16		
		1-3/8	HC-64-22		
		1-3/4	HC-64-28		
		2-1/8	HC-64-34		
		2-1/2	HC-64-40		
		3/4	HC-88-12		
		1	HC-88-16		
		1-3/8	HC-88-22		
		1-3/4	HC-88-28		
		2-1/8	HC-88-34		
		2-1/2	HC-88-40		



**SOLID CARBIDE SLIP  
& FIXED RENEWABLE BUSHINGS**

**ALSO AVAILABLE**

**PRICES UPON REQUEST**

#### STANDARD I.D. TOLERANCES

Up to 1/4	Nominal +.0001/+.0004
Over 1/4 to 3/4	Nominal +.0001/+.0005
Over 3/4 to 1-1/2	Nominal +.0002/+.0006
Over 1-1/2 to 1-3/4	Nominal +.0003/+.0007

**AVAILABLE IN DRILL SIZES  
UP TO 1.750**

**PRICES ON REQUEST**

**WILLIAM T. HUTCHINSON CO.**

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[www.hssblanks.com](http://www.hssblanks.com)

# STEEL FEELER GAGE STOCK

Thickness	Strips 1/2 x 12"	Coils 1/2 x 25'	Thickness	Strips 1/2 x 12"	Coils 1/2 x 25'
.001	\$7.05	\$126.87	.039	3.24	58.39
.0015	3.76	67.76	.040	3.24	58.39
.002	3.70	54.73	.041-.045	14.24	AVAILABLE IN .001 INCREMENTS — NOT AVAILABLE IN COIL
.0025	3.83	68.98	.046-.054	14.92	
.003	3.70	66.52	.055-.064	15.60	
.004	3.90	70.22	.065-.074	16.29	
.005	3.05	54.95	.075-.084	16.97	
.006	3.05	54.95	.085-.094	17.66	
.007	3.05	54.95	.095-.104	18.34	
.008	3.05	54.95	.105-.125	19.02	
.009	3.05	54.95			
.010	2.70	48.53			
.011	2.70	48.53			
.012	2.70	48.53			
.013	2.70	48.53			
.014	2.70	48.53			
.015	2.70	48.53			
.016	2.78	50.01			
.017	2.78	50.01			
.018	2.78	50.01			
.019	2.78	50.01			
.020	2.78	50.01			
.021	2.78	50.01			
.022	2.78	50.01			
.023	2.78	50.01			
.024	2.78	50.01			
.025	2.85	51.24			
.026	2.85	51.24			
.027	2.85	51.24			
.028	2.85	51.24			
.029	2.85	51.24			
.030	2.85	51.24			
.031	2.91	52.48			
.032	2.91	52.48			
.033	2.91	54.06			
.034	2.91	54.06			
.035	2.91	54.06			
.036	3.24	54.06			
.037	3.24	58.39			
.038	3.24	58.39			



TOLERANCE FOR  
.020 & LARGER = ± .0005  
FOR .019 & SMALLER  
SEE PAGE 63

Steel gage stock is made from fine quality 1095 tempered spring steel and etched every six inches for positive identification.

Available in 1/2" wide (12.7 MM) twelve inch (300 MM) lengths or 25' (7.62 M) rolls

Additional sizes and materials available. Call for pricing and delivery.

Metric - Steel		
Thickness	Strips 12.7mm x 300 mm	Coils 12.7mm x 7.62m
.04mm	\$ 5.93	\$127.75
.05	5.48	118.62
.06	6.39	109.50
.07	4.56	100.37
.08	4.56	100.37
.09	4.27	91.26
.10	4.28	91.26
.15	4.10	91.26
.20	4.10	86.68
.25	4.10	86.68
.30	4.10	86.68
.35	4.10	86.68
.40	4.10	86.68
.45	4.10	86.68
.50	4.10	86.68
.55	4.21	88.51
.60	4.21	88.51
.65	4.21	88.51
.70	4.21	88.51
.75	4.21	88.51
.80	4.28	91.26
.85	4.28	91.26
.90	4.28	91.26
.95	4.28	91.26
1.00	4.28	91.26
1.50	16.29	—
2.00	16.97	—
2.50	19.02	—
3.00	19.02	—

## WILLIAM T. HUTCHINSON CO.

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# STAINLESS STEEL FEELER GAGE STOCK

STAINLESS STEEL GAGE STOCK IS TYPE 301 EXTRA FULL HARD OR HIGH YIELD, WITH A #1 ROUND EDGE. LIKE THE STEEL STOCK IT IS ETCHED EVERY SIX INCHES FOR POSITIVE IDENTIFICATION.

AVAILABLE IN 1/2" AND 1" WIDTHS, TWELVE INCH LENGTHS OR 25' ROLLS.

SPECIAL LENGTHS, WIDTHS AND THICKNESS ON REQUEST.

Thickness	STRIPS 1/2 x 12"	COILS 1/2 x 25'	STRIPS 1 x 12"	COILS 1 x 25'	TOLERANCE +/-
.0005	\$9.86	\$177.59	\$12.25	\$220.51	.00005
.001	7.76	154.97	12.25	220.51	.00012
.0015	7.90	141.46	12.25	220.51	.00012
.002	5.35	96.29	12.25	220.51	.00016
.0025	5.93	118.43	12.25	220.51	.00016
.003	4.66	93.07	12.25	220.51	.00020
.004	3.55	70.67	12.25	220.51	.00020
.005	3.55	63.60	12.25	220.51	.00024
.006	3.55	63.60	12.25	220.51	.00028
.007	3.55	63.60	12.25	220.51	.00028
.008	3.55	63.60	12.25	220.51	.00031
.009	3.55	63.60	12.25	220.51	.00031
.010	3.55	63.60	12.25	220.51	.00035
.011	3.84	69.31	12.25	220.51	.00035
.012	3.84	69.31	12.25	220.51	.00035
.013	3.84	69.31	12.25	220.51	.00043
.014	3.84	69.31	12.25	220.51	.00043
.015	3.84	69.31	12.25	220.51	.00043
.016	4.23	78.83	Not Available in Coils		.00047
.017	4.23	78.83			.00047
.018	4.23	78.83			.00047
.019	4.23	78.83			.00047
.020	4.23	78.83			.00050
.021	4.94	88.89			.00050
.022	4.94	88.89			.00050
.023	4.94	88.89			.00050
.024	4.94	88.89			.00050
.025	4.94	88.89			.00050
.031	4.94	88.89			.00050

## WILLIAM T. HUTCHINSON CO.

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# INSPECTION BALL KITS

## GRADE 25 CHROME STEEL (R/C 60 MIN.)



Inspection ball kits are available from stock in the 14 most popular English sizes from 3/32" to 1.00", individually or all in a kit. The kit for each individual size contains 7 balls. A nominal fractional ball as well as one each of a +0.002", +001", +0005", +0002", and -0.001", -002". Kit BK-14 consists of all 14 individual size kits. The inspection ball kits are also excellent for ball sizing parts. Ball sizing is basically pushing a ball through a hole or tube which produces a certain finish or size.

Part #	Nominal Size		Price
BK-14	14 Sizes From 3/32" - 1" Kit	—	\$614.63
093-BK	3/32"	2.381 mm	44.17
125-BK	1/8"	3.175 mm	44.17
156-BK	5/32"	3.969 mm	44.17
187-BK	3/16"	4.763 mm	44.17
218-BK	7/32"	5.556 mm	44.17
250-BK	1/4"	6.35 mm	44.17
312-BK	5/16"	7.938 mm	46.03
375-BK	3/8"	9.525 mm	47.89
437-BK	7/16"	11.113 mm	47.89
500-BK	1/2"	12.7 mm	53.41
625-BK	5/8"	15.875 mm	53.41
750-BK	3/4"	19.05 mm	62.66
875-BK	7/8"	22.225 mm	73.71
100-BK	1"	25.4 mm	73.71

DECIMAL DIAMETER BALLS, OTHER MATERIALS AND  
TOLERANCES AVAILABLE

CALL FOR PRICING & DELIVERY

### Grade 25

BASIC DIAMETER

TOLERANCE =  $\pm .0001$

DEVIATION FROM  
SPHERICAL FORM  
.000025

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