

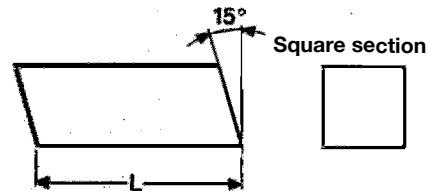
WKE45 SUPER COBALT HSS TOOL BITS

| RECTANGULAR | | |
|-------------|------------------|----------------|
| B A Size | L Overall Length | Net Price Each |
| 1/8x5/8" | 6" | 37.54 |
| 3/16x5/16 | 4 | 25.20 |
| 1/4x3/8 | 2½ | 19.73 |
| 1/4x3/8 | 4 | 22.34 |
| 1/4x1/2 | 3 | 21.30 |
| 1/4x1/2 | 4 | 23.20 |
| 1/4x1/2 | 6 | 37.84 |
| 1/4x3/4 | 5 | 41.44 |
| 1/4x3/4 | 6 | 44.57 |
| 1/4x1 | 6 | 75.75 |
| 5/16x7/16 | 4 | 35.99 |
| 5/16x1/2 | 3 | 26.75 |
| 5/16x1/2 | 6 | 53.56 |
| 5/16x3/4 | 5 | 94.54 |
| 5/16x1 | 6 | 95.09 |
| 3/8x1/2 | 3 | 32.38 |
| 3/8x1/2 | 4 | 39.29 |
| 3/8x1/2 | 6 | 48.37 |
| 3/8x5/8 | 4 | 42.28 |
| 3/8x5/8 | 5 | 48.59 |
| 3/8x5/8 | 6 | 55.56 |
| 3/8x3/4 | 4 | 46.23 |
| 3/8x3/4 | 5 | 54.29 |
| 3/8x3/4 | 6 | 57.35 |
| 3/8x1 | 6 | 105.96 |
| 1/2x3/4 | 4 | 51.95 |
| 1/2x3/4 | 5 | 57.32 |
| 1/2x3/4 | 6 | 70.96 |
| 1/2x1 | 7 | 109.52 |
| 1/2x1¼ | 7 | 190.47 |
| 1/2x1½ | 7 | 226.20 |
| 5/8x3/4 | 5 | 103.53 |
| 5/8x7/8 | 6 | 187.86 |
| 5/8x1 | 7 | 183.96 |
| 5/8x1¼ | 7 | 228.32 |
| 3/4x1 | 6 | 185.65 |
| 3/4x1¼ | 6 | 224.54 |

| METRIC RECTANGULAR | | |
|--------------------|------------------|----------------|
| B A Size | L Overall Length | Net Price Each |
| 3x12mm | 90mm | 19.58 |
| 3x12 | 200 | 40.48 |
| 4x10 | 100 | 24.04 |
| 4x10 | 120 | 45.17 |
| 4x16 | 160 | 16.69 |
| 4x16 | 200* | 49.52 |
| 4x20 | 200* | 51.81 |
| 5x20 | 200* | 65.96 |
| 6x8 | 70 | 19.69 |
| 6x10 | 200 | 52.25 |
| 6x12 | 200 | 56.35 |
| 6x14 | 140 | 43.11 |
| 6x14 | 200 | — |
| 6x20 | 200* | 80.99 |
| 8x12 | 160 | 53.34 |
| 8x12 | 200 | 64.65 |
| 8x16 | 140 | 56.56 |
| 8x16 | 160* | — |
| 8x16 | 200* | 74.84 |
| 8x20 | 200* | 108.77 |
| 10x12 | 200 | 74.80 |
| 10x14 | 80 | 37.12 |
| 10x14 | 200* | — |
| 10x16 | 160 | 72.48 |
| 10x16 | 200 | 91.55 |
| 10x20 | 160 | 87.27 |
| 10x20 | 200 | 100.33 |
| 10x40 | 200* | 201.34 |
| 12x16 | 200 | 97.22 |
| 12x25 | 200* | 113.53 |
| 12x30 | 200* | 147.86 |
| 14x20 | 200* | 124.47 |
| 16x20 | 200 | 144.77 |
| 20x25 | 200* | 229.12 |

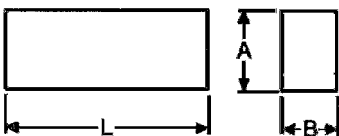
| SQUARE | | |
|-------------|------------------|----------------|
| Size Square | L Overall Length | Net Price Each |
| 3/16" | 2½" | 9.29 |
| 3/16 | 4 | 15.47 |
| 1/4 | 2½ | 10.34 |
| 1/4 | 4 | 16.59 |
| 1/4 | 6* | 25.02 |
| 1/4 | 8* | 31.67 |
| 5/16 | 2½ | 12.11 |
| 5/16 | 3 | 14.63 |
| 5/16 | 4 | 19.53 |
| 5/16 | 6 | 29.26 |
| 5/16 | 8 | 49.07 |
| 3/8 | 3 | 16.42 |
| 3/8 | 4 | 21.72 |
| 3/8 | 6 | 32.56 |
| 3/8 | 8 | 57.82 |
| 7/16 | 3½ | 33.60 |
| 1/2 | 4 | 30.08 |
| 1/2 | 6 | 44.98 |
| 1/2 | 8 | 83.09 |
| 5/8 | 4½ | 52.58 |
| 5/8 | 6 | 97.17 |
| 3/4 | 5 | 75.05 |
| 3/4 | 6 | 90.09 |
| 1 | 5½ | 198.05 |
| 1 | 8 | 282.24 |

| METRIC SQUARE | | |
|---------------|------------------|----------------|
| Size Square | L Overall Length | Net Price Each |
| 4mm | 63mm | 9.49 |
| 4 | 100 | 16.42 |
| 5 | 63 | 9.14 |
| 5 | 160 | 25.30 |
| 6 | 63 | 11.83 |
| 6 | 100 | 19.58 |
| 6 | 160 | 28.20 |
| 6 | 200 | 33.84 |
| 7 | 200 | 36.17 |
| 8 | 63 | 16.37 |
| 8 | 100 | 26.02 |
| 8 | 160 | 32.40 |
| 8 | 200 | 40.69 |
| 10 | 125 | 36.92 |
| 10 | 160 | 38.92 |
| 10 | 200 | 48.70 |
| 12 | 100 | 40.90 |
| 12 | 160 | 44.19 |
| 12 | 200 | 55.04 |
| 14 | 100 | 55.81 |
| 14 | 160 | 82.65 |
| 14 | 200* | 86.67 |
| 16 | 100* | 72.56 |
| 16 | 160 | 104.51 |
| 16 | 200* | 122.60 |
| 18 | 200* | 159.89 |
| 20 | 160* | 161.78 |
| 20 | 200 | 194.65 |
| 25 | 200* | 277.91 |



* 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 $\pm .002$
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" 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" | Call for Current Pricing | | | | | |

| 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" 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" | Call for Current Pricing | | | | |

*** AVAILABLE UNTIL
STOCK IS EXHAUSTED**

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Square Ends

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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 ±.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 ±.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 | | |

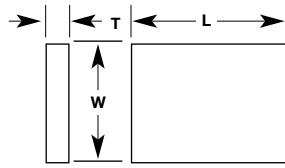
**Typical Analysis of High Speed Steel
Tool Bit Materials**

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

WILLIAM T. HUTCHINSON CO.

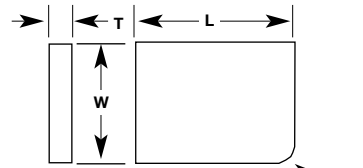
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CARBIDE BLANKS STYLE 1000 & 2000



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 | 0.70 | 2010 | 0.70 |
| 1/16 | 3/16 | 1/4 | 1/8 | 1020 | 0.69 | 2020 | 0.69 |
| 1/16 | 1/4 | 5/16 | 1/8 | 1030 | 0.70 | 2030 | 0.70 |
| 3/32 | 3/16 | 5/16 | 1/8 | 1040 | 0.70 | 2040 | 0.70 |
| 3/32 | 3/16 | 1/2 | 1/8 | 1050 | 1.00 | 2050 | 1.00 |
| 3/32 | 1/4 | 3/8 | 1/8 | 1060 | 0.92 | 2060 | 0.92 |
| 3/32 | 1/4 | 1/2 | 1/8 | 1070 | 1.08 | 2070 | 1.08 |
| 3/32 | 5/16 | 3/8 | 3/16 | 1080 | 1.02 | 2080 | 0.96 |
| 3/32 | 3/8 | 3/8 | 3/16 | 1090 | 1.13 | 2090 | 1.02 |
| 3/32 | 3/8 | 1/2 | 3/16 | 1100 | 1.25 | 2100 | 1.30 |
| 3/32 | 7/16 | 1/2 | 1/4 | 1105 | 1.49 | 2105 | 1.49 |
| 1/8 | 3/16 | 3/4 | 1/8 | 1110 | 1.30 | 2110 | 1.25 |
| 1/8 | 1/4 | 1/2 | 1/8 | 1120 | 1.00 | 2120 | 1.10 |
| 1/8 | 1/4 | 5/8 | 1/8 | 1130 | 1.27 | 2130 | 1.39 |
| 1/8 | 1/4 | 3/4 | 1/8 | 1140 | 1.68 | 2140 | 1.68 |
| 1/8 | 5/16 | 7/16 | 3/16 | 1150 | 1.16 | 2150 | 1.22 |
| 1/8 | 5/16 | 1/2 | 3/16 | 1160 | 1.27 | 2160 | 1.27 |
| 1/8 | 5/16 | 5/8 | 3/16 | 1170 | 1.57 | 2170 | 1.57 |
| 1/8 | 3/8 | 1/2 | 3/16 | 1180 | 1.53 | 2180 | 1.53 |
| 1/8 | 3/8 | 3/4 | 3/16 | 1190 | 2.27 | 2190 | 2.23 |
| 1/8 | 1/2 | 1/2 | 1/4 | 1200 | 2.01 | 2200 | 2.01 |
| 1/8 | 1/2 | 3/4 | 1/4 | 1210 | 3.01 | 2210 | 3.01 |
| 1/8 | 3/4 | 3/4 | 1/4 | 1215 | 4.50 | 2215 | 4.45 |
| 5/32 | 3/8 | 9/16 | 3/16 | 1220 | 2.11 | 2220 | 2.11 |
| 5/32 | 3/8 | 3/4 | 3/16 | 1230 | 2.79 | 2230 | 2.79 |
| 5/32 | 5/8 | 5/8 | 1/4 | 1240 | 3.89 | 2240 | 3.84 |
| 3/16 | 5/16 | 7/16 | 3/16 | 1250 | 1.62 | 2250 | 1.62 |
| 3/16 | 5/16 | 5/8 | 3/16 | 1260 | 2.31 | 2260 | 2.31 |
| 3/16 | 3/8 | 1/2 | 3/16 | 1270 | 2.23 | 2270 | 2.23 |
| 3/16 | 3/8 | 5/8 | 3/16 | 1280 | 2.79 | 2280 | 2.75 |
| 3/16 | 3/8 | 3/4 | 3/16 | 1290 | 3.32 | 2290 | 3.32 |
| 3/16 | 7/16 | 5/8 | 1/4 | 1300 | 3.23 | 2300 | 3.19 |
| 3/16 | 7/16 | 13/16 | 1/4 | 1310 | 4.15 | 2310 | 4.19 |
| 3/16 | 1/2 | 1/2 | 1/4 | 1320 | 2.97 | 2320 | 2.97 |
| 3/16 | 1/2 | 3/4 | 1/4 | 1330 | 4.41 | 2330 | 4.41 |
| 3/16 | 3/4 | 3/4 | 1/4 | 1340 | 6.35 | 2340 | 6.55 |

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

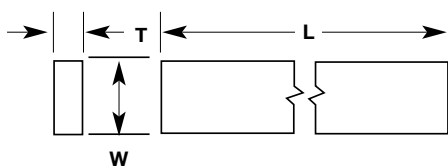
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CARBIDE BLANKS STYLE STB - STBL



Style STB-STBL

| Dimensions | | | Blank Number | Price ea. |
|------------|------|-------|--------------|-----------|
| T | W | L | | |
| 1/32 | 1/16 | 1 | STB-12 | 0.89 |
| 1/32 | 1/16 | 1-1/2 | STB-12A | 1.23 |
| 3/64 | 3/32 | 13/16 | STB-13A | 1.10 |
| 3/64 | 3/32 | 1 | STB-13 | 1.23 |
| 1/16 | 1/16 | 6 | STB-22L | 6.09 |
| 1/16 | 1/8 | 1 | STB-24A | 1.17 |
| 1/16 | 1/8 | 1-1/4 | STB-24C | 1.44 |
| 1/16 | 1/8 | 1-1/2 | STB-24D | 1.51 |
| 1/16 | 1/8 | 3 | STB-24B | 2.77 |
| 1/16 | 1/8 | 6 | STB-24L | 6.83 |
| 1/16 | 3/16 | 1 | STB-26A | 1.38 |
| 1/16 | 3/16 | 3 | STB-26C | 4.04 |
| 1/16 | 3/16 | 6 | STB-26L | 9.90 |
| 1/16 | 1/4 | 1 | STB-28A | 1.83 |
| 1/16 | 1/4 | 1-1/4 | STB-28B | 2.27 |
| 1/16 | 1/4 | 3 | STB-28D | 5.26 |
| 1/16 | 1/4 | 6 | STB-28L | 9.63 |
| 1/16 | 5/16 | 6 | STB-210L | 17.87 |
| 1/16 | 3/8 | 6 | STB-212L | 20.26 |
| 1/16 | 1/2 | 6 | STB-216L | 23.69 |
| 1/16 | 5/8 | 6 | STB-220L | 33.61 |
| 1/16 | 3/4 | 6 | STB-224L | 37.81 |
| 1/16 | 1 | 6 | STB-232L | 43.34 |
| 5/64 | 1/8 | 1-1/8 | STB-14 | 1.47 |
| 3/32 | 1/8 | 5 | STB-34 | 7.30 |
| 3/32 | 1/8 | 8 | STB-34L | 9.46 |
| 3/32 | 3/16 | 1-1/8 | STB-36 | 1.99 |
| 3/32 | 3/16 | 1-1/4 | STB-36A | 2.21 |
| 3/32 | 3/16 | 8 | STB-36L | 11.24 |
| 3/32 | 1/4 | 1 | STB-38A | 2.32 |
| 3/32 | 1/4 | 1-1/2 | STB-38B | 3.43 |
| 3/32 | 1/4 | 5 | STB-38D | 10.96 |
| 3/32 | 1/4 | 8 | STB-38L | 12.76 |
| 3/32 | 5/16 | 2 | STB-310A | 5.59 |
| 3/32 | 5/16 | 3 | STB-310B | 5.95 |
| 3/32 | 5/16 | 5 | STB-310C | 9.80 |
| 3/32 | 5/16 | 8 | STB-310L | 15.95 |
| 3/32 | 3/8 | 5 | STB-312 | 13.51 |
| 3/32 | 3/8 | 8 | STB-312L | 18.70 |
| 3/32 | 1/2 | 8 | STB-316L | 24.65 |
| 3/32 | 5/8 | 8 | STB-320L | 30.64 |
| 1/8 | 1/8 | 12 | STB-44L | 13.03 |

| Dimensions | | | Blank Number | Price ea. |
|------------|------|-------|--------------|-----------|
| T | W | L | | |
| 1/8 | 3/16 | 6 | STB-46 | 10.60 |
| 1/8 | 3/16 | 12 | STB-46L | 23.80 |
| 1/8 | 1/4 | 1 | STB-48A | 2.99 |
| 1/8 | 1/4 | 1-1/4 | STB-48B | 3.71 |
| 1/8 | 1/4 | 1-1/2 | STB-48F | 4.43 |
| 1/8 | 1/4 | 2-1/4 | STB-48C | 6.59 |
| 1/8 | 1/4 | 3 | STB-48D | 6.18 |
| 1/8 | 1/4 | 6 | STB-48E | 12.29 |
| 1/8 | 1/4 | 12 | STB-48L | 24.61 |
| 1/8 | 5/16 | 1-1/2 | STB-410A | 5.48 |
| 1/8 | 5/16 | 3 | STB-410B | 7.64 |
| 1/8 | 5/16 | 6 | STB-410 | 15.20 |
| 1/8 | 3/8 | 1 | STB-412D | 4.43 |
| 1/8 | 3/8 | 2 | STB-412A | 6.10 |
| 1/8 | 3/8 | 3 | STB-412B | 9.10 |
| 1/8 | 3/8 | 6 | STB-412C | 18.07 |
| 1/8 | 3/8 | 12 | STB-412L | 36.19 |
| 1/8 | 1/2 | 1 | STB-416A | 5.81 |
| 1/8 | 1/2 | 1-1/2 | STB-416B | 6.10 |
| 1/8 | 1/2 | 3 | STB-416C | 12.01 |
| 1/8 | 1/2 | 6 | STB-416 | 23.86 |
| 1/8 | 1/2 | 12 | STB-416L | 47.73 |
| 1/8 | 5/8 | 6 | STB-420 | 29.65 |
| 1/8 | 5/8 | 12 | STB-420L | 59.30 |
| 1/8 | 3/4 | 6 | STB-424 | 35.44 |
| 1/8 | 3/4 | 12 | STB-424L | 70.88 |
| 1/8 | 1 | 6 | STB-432 | 47.37 |
| 1/8 | 1 | 12 | STB-432L | 94.74 |
| 3/16 | 3/16 | 12 | STB-66L | 25.67 |
| 3/16 | 1/4 | 3 | STB-68A | 8.98 |
| 3/16 | 1/4 | 6 | STB-68 | 17.84 |
| 3/16 | 1/4 | 12 | STB-68L | 35.68 |
| 3/16 | 5/16 | 3 | STB-610A | 12.83 |
| 3/16 | 5/16 | 6 | STB-610 | 22.01 |
| 3/16 | 5/16 | 12 | STB-610L | 44.06 |
| 3/16 | 3/8 | 3 | STB-612A | 13.19 |
| 3/16 | 3/8 | 6 | STB-612 | 26.23 |
| 3/16 | 3/8 | 12 | STB-612L | 52.45 |
| 3/16 | 1/2 | 3 | STB-616A | 17.40 |
| 3/16 | 1/2 | 6 | STB-616 | 34.61 |
| 3/16 | 1/2 | 12 | STB-616L | 69.19 |
| 3/16 | 5/8 | 3 | STB-620A | 21.62 |

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6-8% COBALT

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MINIMUM GRIND
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THICKNESS +0.008"
WIDTH +0.012"
LENGTH +0.008"

PARALLEL AND FLAT
WITHIN 0.020"

ADDITIONAL
QUANTITY
DISCOUNTS
AVAILABLE

SEE PAGE 15
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DRILL BLANKS

WILLIAM T. HUTCHINSON CO.

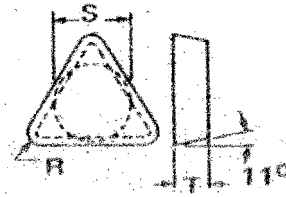
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INDEXABLE INSERTS & DOVETAIL TOOL BLANKS

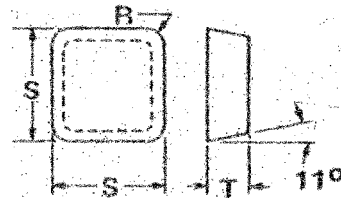
Triangular High Speed Steel T15 Inserts

| 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 |



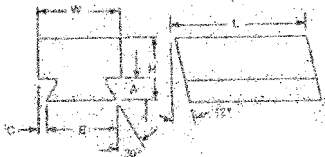
Square High Speed Steel T15 Inserts

| 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 |



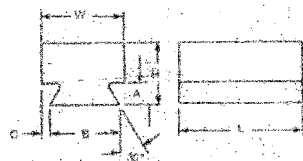
All sizes fit standard positive rake holders same as used for carbide inserts. Other radii available on application. Standard package quantity 10 pieces.

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 |

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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.

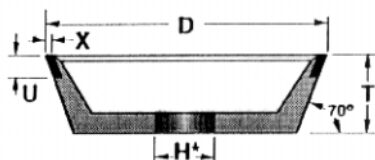


REINFORCED CUTOFF WHEELS

| 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

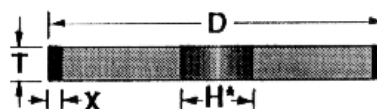
| D IN. | T IN. | U IN. | X IN. | PRICE EACH |
|-------|-------|-------|-------|------------|
| 3 3/4 | 1 1/2 | 3/8 | 1/16 | 99.00 |
| | | | 1/8 | 115.00 |
| 5 | 1 3/4 | 7/16 | 1/16 | 130.00 |
| | | | 1/8 | 150.00 |

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

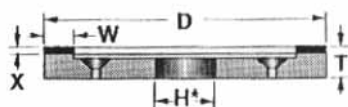
TYPE 1A1 STRAIGHT STYLE 6" DIAMOND WHEELS

| 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



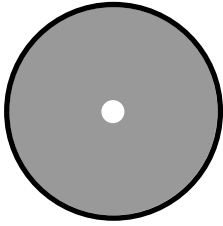
| D IN. | T IN. | W IN. | X IN. | PRICE EACH |
|-------|-------|-------|-------|------------|
| 6 | 3/4 | 3/4 | 1/16 | 149.00 |
| | | | 1/8 | 199.00 |

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

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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 | * |



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 DIAMETER

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SINGLE END DIAMOND HAND HONE



| L IN. | W IN. | T IN. | L1 IN. | X IN. | PRICE EACH |
|----------|----------|----------|-----------|----------|---------------|
| 4 | 1/4 | 1/4 | 1/4 | 1/8 | 65.00 |
| 6 | 3/8 | 3/8 | 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 | 1/4 | 1/8 | 80.00 |
| 6 | 3/8 | 3/8 | 1/4 | 1/8 | 112.00 |

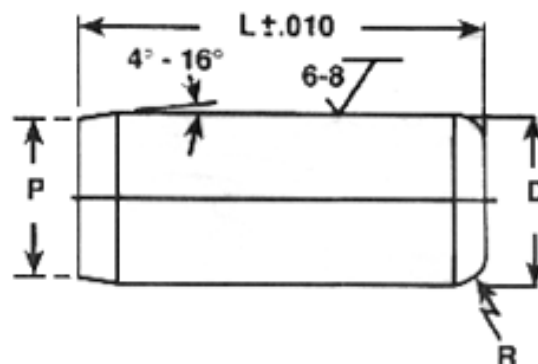
AVAILABLE IN
 GRIT SIZES
 600-(FINE)
 320-(MEDIUM)
 150-(COURSE)

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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 Oversized Max. | Min. | Max. | 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 | — | — | * | — | * | * | * | * |

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- .001 oversized $\pm .0001$ Prices on application
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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 |

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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 | * | — | * | — | * | * | * |

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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 | — | — | — | — | — | * | — | * | * | * |

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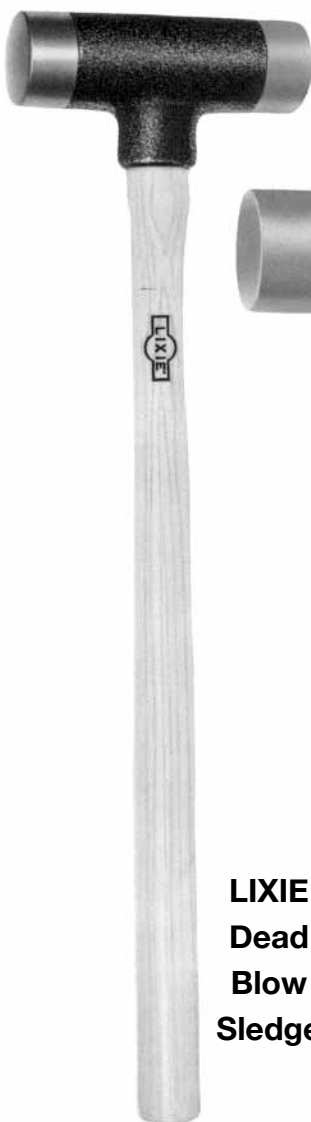
LIXIE HAMMERS AND MALLET

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.



**LIXIE
Dead
Blow
Sledge**



**LIXIE
Dead
Blow
Mallet**

SEE PAGE 55 FOR AVAILABLE FACES

| | MODEL | HEAD DIAM. | HEAD LENGTH | OVERALL LENGTH | WEIGHT (OUNCES) | PRICE EACH |
|-----------------------------|-------------|------------|-------------|----------------|-----------------|------------|
| HAMMERS & MALLET | *100L-MH | 1" | 4-1/4" | 11" | 10 | 38.48 |
| | 100H-MH | 1" | 4-1/4" | 11" | 14 | 38.95 |
| | *125L-MH | 1-1/4" | 4-7/8" | 12" | 14 | 42.58 |
| | 125H-MH | 1-1/4" | 4-7/8" | 12" | 22 | 42.23 |
| | *150L-MH | 1-1/2" | 5-1/4" | 13" | 22 | 50.34 |
| | 150H-MH | 1-1/2" | 5-1/4" | 13" | 30 | 50.36 |
| | *200L-MH | 2" | 6-1/4" | 15" | 38 | 70.15 |
| | 200H-MH | 2" | 6-1/4" | 15" | 56 | 69.11 |
| | *250L-MH | 2-1/2" | 7" | 17" | 66 | 123.70 |
| | 250H-MH | 2-1/2" | 7" | 17" | 100 | 106.93 |
| SLEDGES | *300L-MH | 3" | 8-1/2" | 19" | 116 | 167.06 |
| | 300H-MH | 3" | 8-1/2" | 19" | 168 | 158.49 |
| | *250L-MH-32 | 2-1/2" | 7-1/8" | 32" | 80 | 172.68 |
| | 250H-MH-32 | 2-1/2" | 7-1/8" | 32" | 114 | 169.94 |
| | *300L-MH-35 | 3" | 8-1/2" | 35" | 120 | 219.53 |
| 300H-MH-35 | 3" | 8-1/2" | 35" | 180 | 234.43 | |

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.

WILLIAM T. HUTCHINSON CO.

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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 | 45.80 |
| AB 125-T | 1-1/4" | 4-3/8" | 13" | 26 | 57.25 |
| AB 150-T | 1-1/2" | 5" | 13" | 36 | 78.41 |

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

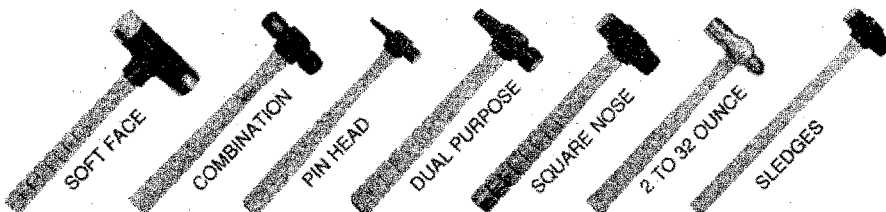
Lixie screw-type replaceable polyurethane faces are included on all Lixie Dead Blow and Multi Hammers. They are available in six sizes, with a range of four hardnesses in each size. This permits custom fitting a Lixie hammer to your individual requirements. Impervious to oils and most solvents, these 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) | 7.36 | 8.18 | 9.96 | 13.46 | 24.59 | 33.36 |
| GREEN (Medium) | 7.36 | 8.18 | 9.96 | 13.46 | 24.59 | 33.36 |
| RED (Tough) | 7.36 | 8.18 | 9.96 | 13.46 | 24.59 | 33.36 |
| BLACK (Hard) | 9.80 | 10.98 | 13.56 | 19.69 | 36.01 | 49.80 |

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 | 113.23 | 5/64 | 1/2 | 16.60 | 1/8 | 3 | 54.20 | 3/16 | 3-1/2 | 75.19 |
| | 3/4 | 117.74 | | 3/4 | 20.56 | | 3-1/2 | 61.72 | | 4 | 84.02 |
| | 1 | 123.69 | | 1 | 24.58 | | 4 | 69.23 | | 5 | 101.93 |
| | 1-1/4 | 129.62 | | 1-1/4 | 28.49 | | 5 | 84.25 | | 6 | 119.81 |
| | 1-1/2 | 142.75 | | 1-1/2 | 32.50 | | 6 | 99.26 | | 8 | 178.15 |
| | 2 | 177.35 | | 2 | 40.50 | | 7 | 131.11 | | 10 | 219.13 |
| | 2-1/2 | 203.33 | | 2-1/2 | 48.14 | | 8 | 148.59 | | 12 | 260.43 |
| | 3 | 243.60 | | 3 | 56.15 | | 10 | 183.18 | | | |
| | 4 | 328.00 | | 4 | 72.29 | | 12 | 217.96 | | 7/32 | 7/32 |
| 1/32 | 1/2 | 20.54 | 3/32 | 1/4 | 53.69 | 9/64 | 1/2 | 20.78 | | 1/2 | 26.15 |
| | 3/4 | 27.74 | | 3/8 | 29.49 | | 3/4 | 23.69 | 3/4 | 31.50 | |
| | 1 | 32.34 | | 1/2 | 16.60 | | 1 | 28.04 | 1 | 36.88 | |
| | 1-1/4 | 38.32 | | 3/4 | 20.56 | | 1-1/4 | 33.74 | 1-1/4 | 41.90 | |
| | 1-1/2 | 44.30 | | 1 | 24.58 | | 1-1/2 | 36.42 | 1-1/2 | 47.23 | |
| | 2 | 56.03 | | 1-1/4 | 28.49 | | 2 | 45.11 | 2 | 57.90 | |
| | 2-1/2 | 67.86 | | 1-1/2 | 32.50 | | 3 | 62.31 | 2-1/2 | 69.09 | |
| | 3 | 80.01 | | 1-3/4 | 36.49 | | 4 | 79.53 | 3 | 79.28 | |
| | 4 | 102.95 | | 2 | 40.50 | | 5/32 | 5/32 | 33.98 | 4 | 100.52 |
| 6 | 182.99 | 2-1/2 | 48.54 | 1/4 | 50.81 | 1/4 | 1/4 | 30.54 | | | |
| 3/64 | 1/2 | 18.03 | 7/64 | 1/2 | 19.75 | 5/32 | 1/2 | 20.60 | | 5/16 | 46.73 |
| | 3/4 | 23.24 | | 3/4 | 24.53 | | 3/8 | 29.51 | 3/8 | 23.90 | |
| | 1 | 28.32 | | 1 | 29.18 | | 1/2 | 20.60 | 1/2 | 26.05 | |
| | 1-1/4 | 33.23 | | 1-1/4 | 33.72 | | 3/4 | 25.25 | 5/8 | 28.63 | |
| | 1-1/2 | 38.35 | | 1-1/2 | 38.48 | | 1 | 29.84 | 3/4 | 31.07 | |
| | 2 | 48.59 | | 1-1/2 | 47.93 | | 1-1/4 | 34.17 | 1 | 36.22 | |
| | 2-1/2 | 58.61 | | 2 | 59.99 | | 1-1/2 | 38.67 | 1-1/4 | 40.88 | |
| | 3 | 68.79 | | 2-1/2 | 66.78 | | 1-3/4 | 43.26 | 1-1/2 | 46.03 | |
| | 3-1/2 | 78.97 | | 3 | 66.78 | | 2 | 47.93 | 1-3/4 | 50.72 | |
| 4 | 107.78 | 4 | 85.62 | 2-1/2 | 56.97 | 2 | 56.18 | | | | |
| 6 | 129.44 | 6 | 135.14 | 3 | 66.17 | 2-1/2 | 66.31 | | | | |
| 1/16 | 1/4 | 42.64 | 1/8 | 1/8 | 36.60 | 3/16 | 3-1/2 | 75.34 | | 3 | 76.46 |
| | 3/8 | 21.30 | | 1/4 | 13.16 | | 4 | 84.49 | 4 | 96.83 | |
| | 1/2 | 12.72 | | 5/16 | 14.36 | | 5 | 102.83 | 3-1/2 | 86.64 | |
| | 5/8 | 14.61 | | 3/8 | 15.17 | | 6 | 121.07 | 4 | 96.83 | |
| | 3/4 | 16.05 | | 1/2 | 16.73 | | 8 | 180.54 | 4-1/2 | 106.95 | |
| | 1 | 19.36 | | 5/8 | 18.63 | | | | 5 | 117.08 | |
| | 1-1/4 | 22.59 | | 3/4 | 20.56 | | 3/16 | 31.77 | 5-1/2 | 127.30 | |
| | 1-1/2 | 25.96 | | 1 | 24.32 | | 1/4 | 17.53 | 6 | 142.97 | |
| | 1-3/4 | 29.22 | | 1-1/4 | 27.87 | | 5/16 | 19.00 | 7 | 180.83 | |
| | 2 | 32.57 | | 1-1/2 | 31.61 | | 3/8 | 19.85 | 8 | 204.57 | |
| | 2-1/2 | 39.11 | | 1-3/4 | 20.41 | | 1/2 | 21.86 | 10 | 251.29 | |
| | 3 | 45.69 | | 2 | 39.15 | | 5/8 | 24.55 | 12 | 298.26 | |
| | 3-1/2 | 52.43 | | 2-1/2 | 46.64 | | 3/4 | 26.18 | 14 | 343.81 | |
| 4 | 58.86 | | | 1 | 30.69 | | | | | | |
| 5 | 72.11 | | | 1-1/4 | 34.89 | 9/32 | 9/32 | 31.76 | | | |
| 6 | 85.31 | | | 1-1/2 | 39.37 | | 1/2 | 30.08 | | | |
| 8 | 127.89 | | | 1-3/4 | 43.79 | | 3/4 | 35.80 | | | |
| 10 | 158.12 | | | 2 | 48.32 | | 1 | 41.62 | | | |
| | | | | 2-1/2 | 57.21 | | 1-1/4 | 46.88 | | | |
| | | | | 3 | 66.20 | | 1-1/2 | 52.72 | | | |

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 | 64.22 | 7/16 | 1-1/4 | 69.80 | 3/4 | 2 | 140.50 | 1-1/2 | 2 | 252.77 | | | |
| | 3 | 87.27 | | 1-1/2 | 78.20 | | 2-1/2 | 164.46 | | 3 | 293.38 | | | |
| | 4 | 110.25 | | 2 | 94.94 | | 3 | 188.55 | | 4 | 415.20 | | | |
| | 6 | 156.17 | | 2-1/2 | 111.73 | | 3-1/2 | 212.51 | | 6 | 586.07 | | | |
| 5/16 | 5/16 | 33.02 | | 3 | 128.48 | | 4 | 236.53 | | 8 | 811.17 | 2 | 2 | 323.83 |
| | 3/8 | 28.75 | | 4 | 157.99 | | 4-1/2 | 260.55 | | 3 | 425.90 | | 3 | 425.90 |
| | 1/2 | 31.18 | 6 | 229.14 | 5 | | 285.91 | 4 | | 528.10 | 4 | | 528.10 | |
| | 5/8 | 34.19 | 1/2 | 1/2 | 48.09 | | 6 | 333.91 | | 6 | 703.04 | | 6 | 703.04 |
| | 3/4 | 37.16 | | 5/8 | 52.58 | | 8 | 488.50 | 2-1/2 | 2-1/2 | 556.70 | | | |
| | 1 | 43.34 | | 3/4 | 57.05 | | 10 | 589.16 | | | | | | |
| | 1-1/4 | 48.63 | | 1 | 65.99 | | 12 | 689.90 | | | | | | |
| | 1-1/2 | 54.65 | | 1-1/4 | 74.65 | | 7/8 | 7/8 | | 101.58 | | | | |
| | 1-3/4 | 60.61 | | 1-1/2 | 83.57 | 1 | | 108.44 | | | | | | |
| | 2 | 66.62 | | 1-3/4 | 92.83 | 1-1/4 | | 121.28 | | | | | | |
| | 2-1/2 | 78.59 | | 2 | 101.53 | 1-1/2 | | 134.90 | | | | | | |
| | 3 | 90.49 | | 2-1/2 | 119.48 | 2 | | 162.13 | | | | | | |
| | 3-1/2 | 102.46 | | 3 | 137.42 | 3 | | 216.77 | | | | | | |
| | 4 | 114.44 | | 3-1/2 | 155.33 | 4 | | 271.32 | | | | | | |
| | 5 | 138.09 | | 4 | 173.31 | 6 | | 381.80 | | | | | | |
| | 6 | 168.23 | 4-1/2 | 191.27 | 1 | 1 | | 86.60 | | | | | | |
| | 7 | 212.88 | 5 | 210.42 | | 1-1/4 | | 129.99 | | | | | | |
| | 8 | 240.50 | 6 | 257.89 | | 1-1/2 | | 144.35 | | | | | | |
| 10 | 295.24 | 7 | 326.17 | 1-3/4 | | 158.63 | | | | | | | | |
| 12 | 350.33 | 8 | 368.36 | 2 | | 172.95 | | | | | | | | |
| 3/8 | 3/8 | 41.54 | 10 | 443.39 | | 2-1/2 | 201.62 | Also Available: | Thickness ± .001 Width + .005 - .0 | 36" Lengths Oversize Low Carbon A-2, D-2, S-7 | | | | |
| | 1/2 | 38.00 | 12 | 517.66 | | 3 | 230.15 | | | | | | | |
| | 5/8 | 41.67 | 9/16 | 9/16 | | 57.71 | 3-1/2 | | | | 258.80 | | | |
| | 3/4 | 45.31 | | 3/4 | | 65.09 | 4 | | | | 287.41 | | | |
| | 1 | 52.48 | | 1 | | 75.02 | 5 | | | | 345.98 | | | |
| | 1-1/4 | 59.11 | | 1-1/4 | | 84.77 | 6 | | | | 403.28 | | | |
| | 1-1/2 | 66.33 | | 1-1/2 | | 94.68 | 8 | | 588.09 | | | | | |
| | 1-3/4 | 75.72 | | 2 | 114.65 | 10 | 709.81 | | | | | | | |
| | 2 | 80.83 | 5/8 | 5/8 | 63.00 | 12 | 831.44 | | | | | | | |
| | 2-1/2 | 95.19 | | 3/4 | 68.19 | 1-1/8 | 1-1/8 | | 148.69 | | | | | |
| | 3 | 109.67 | | 1 | 78.46 | | 1-1/2 | | 173.14 | | | | | |
| | 3-1/2 | 124.13 | | 1-1/4 | 88.43 | | 2 | | 205.92 | | | | | |
| | 4 | 138.54 | | 1-1/2 | 98.72 | | 3 | 271.40 | | | | | | |
| | 4-1/2 | 152.94 | | 2 | 119.33 | | 4 | 336.95 | | | | | | |
| | 5 | 167.33 | 2-1/2 | 139.92 | 6 | | 469.43 | | | | | | | |
| | 5-1/2 | 181.85 | 3 | 160.54 | 1-1/4 | | 1-1/4 | 164.18 | | | | | | |
| | 6 | 196.26 | 3-1/2 | 181.19 | | | 1-1/2 | 181.85 | | | | | | |
| | 7 | 257.35 | 4 | 201.78 | | | 2 | 217.37 | | | | | | |
| 8 | 290.78 | 5 | 244.32 | 2-1/2 | | | 252.73 | | | | | | | |
| 10 | 356.92 | 6 | 285.55 | 3 | | | 288.02 | | | | | | | |
| 12 | 423.44 | 3/4 | 3/4 | 81.07 | | | 4 | 358.79 | | | | | | |
| 7/16 | 7/16 | | 50.12 | 1 | 93.14 | 5 | 430.97 | | | | | | | |
| | 1/2 | | 45.31 | 1-1/4 | 104.51 | 6 | 501.75 | | | | | | | |
| | 3/4 | | 53.69 | 1-1/2 | 116.48 | 1-1/2 | 1-1/2 | 212.18 | | | | | | |
| | 1 | | 62.06 | 1-3/4 | 128.49 | | | | | | | | | |

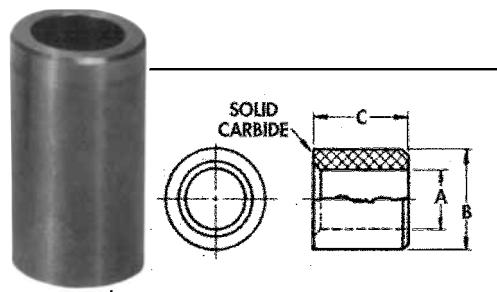
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SOLID CARBIDE PLAIN PRESS FIT BUSHINGS

| 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-32-6 |
| .3750 to .5312 | .7518 .7515 | 3/8 | PC-32-8 |
| | | 1/2 | PC-32-12 |
| | | 3/4 | PC-32-16 |
| | | 1 | PC-32-22 |
| .5000 to .6250 | .8768 .8765 | 1-3/8 | PC-32-28 |
| | | 1-3/4 | PC-40-6 |
| | | 2-1/8 | PC-40-8 |
| | | 3/4 | PC-40-12 |
| .6250 to .7500 | 1.0018 1.0015 | 1 | PC-40-16 |
| | | 1-3/8 | PC-40-22 |
| | | 1-3/4 | PC-40-28 |
| | | 2-1/8 | PC-40-34 |
| .7500 to 1.0000 | 1.3772 1.3768 | 2-1/2 | PC-48-8 |
| | | 3/4 | PC-48-12 |
| | | 1 | 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-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 |
| | | 3/4 | PC-64-8 |
| | | 1 | PC-64-12 |
| | | 1-3/8 | PC-64-16 |
| | | 1-3/4 | PC-64-22 |
| | | 2-1/8 | PC-64-28 |
| | | 2-1/2 | PC-64-34 |
| | | 3/4 | PC-64-40 |
| | | 1 | PC-88-12 |
| | | 1-3/8 | PC-88-16 |
| | | 1-3/4 | PC-88-22 |
| | | 2-1/8 | PC-88-28 |
| | | 2-1/2 | PC-88-34 |
| | | | PC-88-40 |



SOLID CARBIDE SLIP & FIXED RENEWABLE BUSHINGS

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PRICES UPON REQUEST**

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| | |
|---------------------|-----------------------|
| 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.)

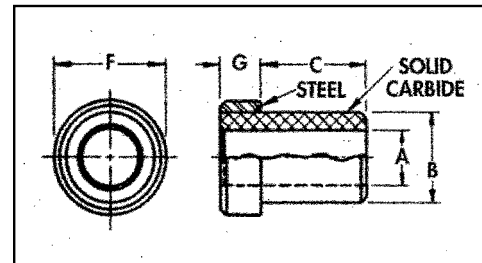
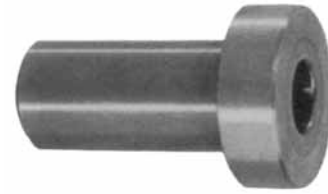
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CARBIDE HEAD PRESS FIT BUSHINGS

| 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 5/16 3/8 1/2 | HC-10-4 HC-10-5 HC-10-6 HC-10-8 | 1/4 | 3/32 |
| .0625 to .0995 | .2046 .2043 | 1/4 5/16 3/8 1/2 | HC-13-4 HC-13-5 HC-13-6 HC-13-8 | 19/64 | 3/32 |
| .0980 to .1406 | .2516 .2513 | 1/4 5/16 3/8 1/2 3/4 | HC-16-4 HC-16-5 HC-16-6 HC-16-8 HC-16-12 | 23/64 | 3/32 |
| .1250 to .1935 | .3141 .3138 | 1/4 5/16 3/8 1/2 3/4 1 | HC-20-4 HC-20-5 HC-20-6 HC-20-8 HC-20-12 HC-20-16 | 27/64 | 1/8 |
| .1875 to .2570 | .4078 .4075 | 1/4 5/16 3/8 1/2 3/4 1 1-3/8 | HC-26-4 HC-26-5 HC-26-6 HC-26-8 HC-26-12 HC-26-16 HC-26-22 | 1/2 | 5/32 |
| .1875 to .3160 | .5017 .5014 | 3/8 1/2 3/4 1 1-3/8 1-3/4 | HC-32-6 HC-32-8 HC-32-12 HC-32-16 HC-32-22 HC-32-28 | 39/64 | 7/32 |
| .3125 to .4375 | .6267 .6264 | 3/8 1/2 3/4 1 1-3/8 1-3/4 2-1/8 | HC-40-6 HC-40-8 HC-40-12 HC-40-16 HC-40-22 HC-40-28 HC-40-34 | 51/64 | 7/32 |
| .3750 to .5312 | .7518 .7515 | 1/2 3/4 1 1-3/8 1-3/4 2-1/8 | HC-48-8 HC-48-12 HC-48-16 HC-48-22 HC-48-28 HC-48-34 | 59/64 | 7/32 |
| .5000 to .6250 | .8768 .8765 | 1/2 3/4 1 1-3/8 1-3/4 2-1/8 | HC-56-8 HC-56-12 HC-56-16 HC-56-22 HC-56-28 HC-56-34 | 1-7/64 | 1/4 |
| .6250 to .7500 | 1.0018 1.0015 | 1/2 3/4 1 1-3/8 1-3/4 2-1/8 2-1/2 | HC-64-8 HC-64-12 HC-64-16 HC-64-22 HC-64-28 HC-64-34 HC-64-40 | 1-15/64 | 5/16 |
| .7500 to 1.0000 | 1.3772 1.3768 | 3/4 1 1-3/8 1-3/4 2-1/8 2-1/2 | HC-88-12 HC-88-16 HC-88-22 HC-88-28 HC-88-34 HC-88-40 | 1-39/64 | 3/8 |



SOLID CARBIDE SLIP & FIXED RENEWABLE BUSHINGS

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| | |
|---------------------|-----------------------|
| 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 |

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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 | \$5.60 | \$100.81 | .039 | 2.58 | 46.39 |
| .0015 | 2.99 | 53.83 | .040 | 2.58 | 46.39 |
| .002 | 2.94 | 52.85 | .041-.045 | 11.31 | AVAILABLE IN .001 INCREMENTS — NOT AVAILABLE IN COIL |
| .0025 | 3.05 | 54.81 | .046-.054 | 11.86 | |
| .003 | 2.94 | 52.85 | .055-.064 | 12.40 | |
| .004 | 3.10 | 55.78 | .065-.074 | 12.94 | |
| .005 | 2.42 | 43.65 | .075-.084 | 13.48 | |
| .006 | 2.42 | 43.65 | .085-.094 | 14.03 | |
| .007 | 2.42 | 43.65 | .095-.104 | 14.57 | |
| .008 | 2.42 | 43.65 | .105-.125 | 15.11 | |
| .009 | 2.42 | 43.65 | | | |
| .010 | 2.14 | 38.56 | | | |
| .011 | 2.14 | 38.56 | | | |
| .012 | 2.14 | 38.56 | | | |
| .013 | 2.14 | 38.56 | | | |
| .014 | 2.14 | 38.56 | | | |
| .015 | 2.14 | 38.56 | | | |
| .016 | 2.20 | 39.74 | | | |
| .017 | 2.20 | 39.74 | | | |
| .018 | 2.20 | 39.74 | | | |
| .019 | 2.20 | 39.74 | | | |
| .020 | 2.20 | 39.74 | | | |
| .021 | 2.20 | 39.74 | | | |
| .022 | 2.20 | 39.74 | | | |
| .023 | 2.20 | 39.74 | | | |
| .024 | 2.20 | 39.74 | | | |
| .025 | 2.27 | 40.72 | | | |
| .026 | 2.27 | 40.72 | | | |
| .027 | 2.27 | 40.72 | | | |
| .028 | 2.27 | 40.72 | | | |
| .029 | 2.27 | 40.72 | | | |
| .030 | 2.27 | 40.72 | | | |
| .031 | 2.32 | 41.69 | | | |
| .032 | 2.32 | 41.69 | | | |
| .033 | 2.32 | 42.95 | | | |
| .034 | 2.32 | 42.95 | | | |
| .035 | 2.32 | 42.95 | | | |
| .036 | 2.58 | 46.39 | | | |
| .037 | 2.58 | 46.39 | | | |
| .038 | 2.58 | 46.39 | | | |



| Metric - Steel | | |
|----------------|---------------------------|-------------------------|
| Thickness | Strips 12.7mm x 300 mm | Coils 12.7mm x 7.62m |
| .04mm | \$ 4.78 | \$102.99 |
| .05 | 4.42 | 95.65 |
| .06 | 5.08 | 88.28 |
| .07 | 3.63 | 80.93 |
| .08 | 3.63 | 79.74 |
| .09 | 3.63 | 73.57 |
| .10 | 3.45 | 72.50 |
| .15 | 3.32 | 69.90 |
| .20 | 3.32 | 69.90 |
| .25 | 3.32 | 69.90 |
| .30 | 3.32 | 69.90 |
| .35 | 3.32 | 69.90 |
| .40 | 3.32 | 69.90 |
| .45 | 3.32 | 69.90 |
| .50 | 3.32 | 69.90 |
| .55 | 3.39 | 71.37 |
| .60 | 3.39 | 71.37 |
| .65 | 3.39 | 71.37 |
| .70 | 3.38 | 71.37 |
| .75 | 3.39 | 71.37 |
| .80 | 3.46 | 73.57 |
| .85 | 3.46 | 73.57 |
| .90 | 3.46 | 73.57 |
| .95 | 3.46 | 73.57 |
| 1.00 | 3.46 | 73.57 |
| 1.50 | 12.94 | — |
| 2.00 | 13.48 | — |
| 2.50 | 15.11 | — |
| 3.00 | 15.11 | — |

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.

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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 | \$7.96 | \$159.27 | \$15.92 | \$331.07 | .00005 |
| .001 | 6.26 | 124.96 | 12.49 | 249.91 | .00012 |
| .0015 | 6.27 | 114.07 | 9.73 | 175.19 | .00012 |
| .002 | 4.25 | 76.50 | 9.73 | 175.19 | .00016 |
| .0025 | 4.78 | 95.49 | 9.73 | 175.19 | .00016 |
| .003 | 3.75 | 75.05 | 9.73 | 175.19 | .00020 |
| .004 | 2.86 | 56.98 | 9.73 | 175.19 | .00020 |
| .005 | 2.86 | 51.28 | 9.73 | 175.19 | .00024 |
| .006 | 2.86 | 51.28 | 9.73 | 175.19 | .00028 |
| .007 | 2.86 | 51.28 | 9.73 | 175.19 | .00028 |
| .008 | 2.86 | 51.28 | 9.73 | 175.19 | .00031 |
| .009 | 2.86 | 51.28 | 9.73 | 175.19 | .00031 |
| .010 | 2.86 | 51.28 | 9.73 | 175.19 | .00035 |
| .011 | 3.10 | 55.89 | 9.73 | 175.19 | .00035 |
| .012 | 3.10 | 55.89 | 9.73 | 175.19 | .00035 |
| .013 | 3.10 | 55.89 | 9.73 | 175.19 | .00043 |
| .014 | 3.10 | 55.89 | 9.73 | 175.19 | .00043 |
| .015 | 3.10 | 55.89 | 9.73 | 175.19 | .00043 |
| .016 | 3.41 | 63.57 | Not Available in Coils | | .00047 |
| .017 | 3.41 | 63.57 | | | .00047 |
| .018 | 3.41 | 63.57 | | | .00047 |
| .019 | 3.41 | 63.57 | | | .00047 |
| .020 | 3.41 | 63.57 | | | .00050 |
| .021 | 3.99 | 71.68 | | | .00050 |
| .022 | 3.99 | 71.68 | | | .00050 |
| .023 | 3.99 | 71.68 | | | .00050 |
| .024 | 3.99 | 71.68 | | | .00050 |
| .025 | 3.99 | 71.68 | | | .00050 |
| .031 | 3.99 | 71.68 | | | .00050 |

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