TOOLS

Hammacher, Schlemmer & Co
NEW YORK, N.Y.
SINCE 1848
IMPORTANT

MANY OF THESE PRICES HAVE CHANGED, WE WILL QUOTE UP TO DATE PRICES PROMPTLY IF YOU WILL SEND A LIST.

Hammacher, Schlemmer & Co.

13th Street Annex
Connected with the main building and containing the Receiving and Shipping departments, also passenger and freight elevators, rest rooms, lunchrooms, cloak rooms, etc.

Our Uptown Salesrooms
57th Street—145-147 East
Near Lexington Avenue
Volunteer 4700

Warehouse No. 1
12th Street
Completely stocked with all supplies including piano materials. Also houses the private garage for Hammacher, Schlemmer & Company's fleet of motor trucks.

Our Main Store and Office
4th Avenue at 13th Street
Stuyvesant 7000

Fourth Avenue at 13th Street also at 57th Street—145-147 East
FOREWORD

Working with tools is an interesting and fascinating pastime. Many beginners, however, have made the error of purchasing poor or mediocre quality, not realizing that regardless of skill a good job cannot be done with poor tools, and that to approach the finished work of a skilled mechanic, one should acquire and use the same high grade tools.

Considered from the standpoint of genuine utility, good tools are a real economy, for with proper care, they remain a source of pride and satisfaction long after the mediocre article has been cast aside.

This catalog is not intended to present our full lines, but is an abridged edition compiled especially for the use of those who buy tools in smaller quantities for general home use or for pastime or hobby. We carry in stock upward of 125,000 odd items of tools, hardware and supplies.

As one who appreciates the value of really good tools you will need no introduction to such nationally known brands as Disston Saws, Russell Jennings Auger Bits, Buck Bros. Chisels and Gouges, Hammond Hammers, Yankee Tools, Stanley Planes, Nicholson Files, Millers Falls Bit Braces and the other equally well known brands we present herein for your consideration. One and all, they are the same "Trade Marked" tools which we sell every day to critical skilled mechanics—each tool worthy to be in the kit or on the bench of the most expert artisan.

We reserve the right to make substitutions on any items specified in our tool outfits, or individual tools, etc., where styles, models or numbers have been discontinued or changed.

It is our aim to make your shopping easy, to make "Hammacher, Schlemmer" your headquarters, and for this purpose we have listed in this catalog only such items as are regularly carried in stock by us. We cheerfully invite you to call on us when in doubt about selecting tools especially adapted for certain kinds of work that you may be doing.

For eighty years we have made a constant study of the tool needs of skilled mechanics, and we are proud of our reputation for high grade tools. Many of our oldest customers are skilled artisans who rely on our recommendation.

You may order by mail with the full assurance that your needs will be given the same careful attention as if you had made a personal selection in our store.

Guarantee

We warrant all merchandise purchased from us to be perfect and to be free from flaw, and to do the work for which it is recommended. We will replace any that proves defective.

Hammacher, Schlemmer & Co.
**HAND, RIP AND PANEL SAWS**

Disston

Disston-made steel blade, narrow and light, thin backs, Disston true-taper ground, new high polish, striped backs; weatherproof finish handles, brass screws. Improved hang and balance.

<table>
<thead>
<tr>
<th>No. D8—Regular Pattern, Slew Back, Applewood Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No. D8 Panel</strong></td>
</tr>
<tr>
<td>Points to inch</td>
</tr>
<tr>
<td>Each</td>
</tr>
</tbody>
</table>

| No. D8 Hand | Length, inches | 22 | 24 | 26 |
| Points to inch | 8, 9, 10, 11 | 7.8, 9, 10, 11 | 7.8, 9, 10 |
| Each         | $3.05 | 3.15 | 3.30 |

| No. D8 Rip | Length, inches | 24 | 26 |
| Points to inch | 5½, 6 | 5½, 6 |
| Each         | $3.15 | 3.50 |

<table>
<thead>
<tr>
<th>No. D7—Regular Pattern, Straight Back, Beechwood Handle</th>
</tr>
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<tbody>
<tr>
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| No. D7 Hand | Length, inches | 22 | 24 | 26 |
| Points to inch | 8, 9, 10, 11 | 7.8, 9, 10, 11 | 7.8, 9, 10 |
| Each         | $2.75 | 2.80 | 2.90 |

| No. D7 Rip | Length, inches | 22 | 24 | 26 |
| Points to inch | 7 | 5½, 6 | 5½, 6 |
| Each         | $2.75 | 2.80 | 2.90 |

<table>
<thead>
<tr>
<th>No. D7L—Lightweight Ship Pattern, Straight Back, Beechwood Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No. D7L Hand</strong></td>
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<tr>
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</table>

| No. D7L Rip | Points to inch | 5½ |
| Each         | $2.90 |

**Prices Subject to Market Changes**

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**HAND AND RIP SAWS**

Disston

Disston-made steel blade, narrow and light, thin backs, Disston true-taper ground, new high polish, striped backs; weatherproof finish handles, brass screws. Improved hang and balance.

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<tr>
<th>No. D115—Regular Pattern, Slew Back, Carved Rosewood Handle, Nickel Plated Screws</th>
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<td><strong>No. D115 Hand</strong></td>
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| No. D115 Rip | 26 inches; 5½ and 6 points |
| Each         | $5.50 |

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<thead>
<tr>
<th>No. D17—Double Duty, Regular Pattern, Slew Back, Beechwood Handle, Brass Screws</th>
</tr>
</thead>
<tbody>
<tr>
<td>The combination of teeth in this saw, alternate sections of five regular cross-cutting teeth and two ripping teeth, are separated by numerous deep gullets for full clearance. This insures free running, easy, very rapid and clean cutting in heavy work, whether cross-cutting or ripping, and especially for sawing diagonally across the grain, as its name implies. Particularly adapted for general construction work of all kinds, studding-up houses, shoring for sewers, making forms for concrete buildings, railroad work, etc.</td>
</tr>
<tr>
<td><strong>No. D17—Length of blade 26 inches</strong></td>
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</table>

**Gnome Brand**

**Regular Pattern, Slew Back**

For general use. Good quality blade; fitted with walnut finish handle and nickel plated screws.

| Gnome Hand Saw | Length, inches | 20 | 22 | 24 | 26 |
| Points to inch | 8, 9, 10 | 8, 9, 10, 11 | 7.8, 9, 10, 11 | 6.7, 8, 9 |
| Each           | $1.50 | 1.60 | 1.70 | 1.75 |

| Gnome Rip Saw | Length, inches | 26 |
| Points to inch | 5½, 6 |
| Each           | $1.75 |

**Prices Subject to Market Changes**

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Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

BACK SAWs
Disston

No. 4—Back Saw
Crucible steel blade, polished and etched; blue steel back; applewood handle with polished edges; three brass screws.

Blade, inches... 8 10 12
Each $1.90 2.00 2.30
Blade, inches... 14 16
Each $2.60 3.00

MITRE BOX SAWs
Disston

No. 4—Mitre Box Saw
For use in mitre boxes.

Blade, inches... 20 24 26
Each $3.45 4.00 4.55

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

DOVETAIL SAWs
Disston

English standard gauge No. 26. Extra quality spring steel blade, with special temper for cutting wood only. 17 points to inch. Brass plated steel back. Polished handle. Width under back 1 1/2 inches.

No. 68—Straight Handle
For regular work.
Blade, in... 6 8 10 12
Each $1.30 1.40 1.50 1.65

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

NESTS OF SAWS
Disston

No. 3—Combining one each keyhole blade 10 inch, compass blade 14 inch, pruning blade 16 inch, handle and tightener. Per Set $1.75

Extra Parts for No. 3 Nest of Saws

Handle and tightener... $0.35
Keyhole blade, 10 inch... $0.35
Compass blade, 14 inch... $0.40
Pruning blade, 16 inch... $0.75

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

PLUMBERS SAWs
Disston

For Wood or Metal
Beech handle, varnished edges, three brass screws. One edge toothed 6 points; the other 8 points. The coarse teeth are for sawing wood. The fine teeth for sawing wood in which nails are imbedded, lead pipe, etc.

No. 6—Blade 16 inch... Each $1.35

COMPASS SAWs
Disston

For Wood
Crucible steel blade; applewood handle, brass screws.

No. 2—Blade, in... 10 12 14
Each $0.85 0.90 0.95

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
PRUNING OR GYPSUM SAWS
Disston

Especially adapted for pruning, gypsum block cutting, plaster board cutting, etc. Disston-made steel blade. Beechwood handle, varnished edges, three brass screws; comfortable grip.

No. 39—Blade 20 inches long, 3½ inches wide at butt, 1½ inches at point; teeth, 4½ points to the inch..................Each $1.70

KEYHOLE SAWs
Disston

Cast steel blade; beechwood handle, brass screws.

No. 15—Blade, inches 10 12 Each .................. $0.45 .50

KEYHOLE SAWs AND PADS
Disston

Round hardwood handle slotted clear through, permitting adjustment of blade for length of cutting edge required. Blade held in place by steel grip inside of handle, tightened by thumb screw.

No. 95—Blade 10 in. Each $0.60

No. 10—Complete with adjustable handle and 10 inch blade. Each $0.39

FRET SAW SETS
Miller's Falls

An excellent set for amateurs. High grade spring steel frame; enameled handle; patent clamps hold blade securely. Frame is highly polished and nickel plated, depth 12 inches, width 5 inches.

No. 2—Complete with 12 blades, 1awl, 1 sheet of impression paper and 3 sheets of designs; weight per set 17 ounces; one set in a box...........Set $1.10

No. 20—8 inch saw frame only. Each .................. $0.95

FRET SAW BLADES
Disston

No. 1

No. 2

No. 3

No. 5

No. 6

For Wood Work, 5 inches Long
Cut fast, smooth and are of uniform quality.

Nos. ........... 000 00 0 1 Per Dozen... $0.12 .12 .12 .12

Nos. ........... 2 3 5 6 Per Dozen... $0.12 .12 .12 .12

BRACKET SAWs
Griffin

Wood Handle
Nickel plated steel wire frame; black hardwood handle; 6 inch bent end blades; depth of cut 8 inches.

No. 170—Complete with one dozen extra blades...........Each $0.40

COPING SAWs
Griffin

Wood Handle
Heavy steel frame, nickel plated; hardwood handle, steel ferrule. Two adjusting pins at either end of frame provide means for changing cutting angle of blade. 6½ inch pin end blade; depth of cut 4½ inches.

No. 425—Complete with one 6½ inch blade,............Each $0.60

Extra Blades, Pin Ends
Special process steel, will cut light metal as easily as wood.

No. 6½—Length 6 inches, width ¾ inch Per Dozen $0.25

TRoJAN

Wood Handle
No. 10—Tool steel, blued finish; French finish hardwood handle; depth of cut 4¼ inches; complete with one 6½ inch blade.
Each .................... $1.00

Extra Blades, Lock Loop Ends
Length 6¼ in. For sawing wood and metals. Fit all standard frames.

Nos. Grade Teeth Width 2 Course 15 ¾ 3 Medium 15 ½ 5 Fine 20 ¾ 6 Ex. Fine 32 ¾ Per Dozen, All Nos. $0.50

PRICES SUBJECT TO MARKET CHANGES

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

HACK SAW FRAMES
Starrett

Easy Grip Handle
Nickel plated steel frame, adjustable back, takes blades 8 to 12 inches long. Blade may be set to cut in any one of four directions. Checked, hard rubber handle; depth of frame from cutting edge about 3½ inches.

No. 169—Complete with one 8 inch blade... Each $3.25

Straight Handle
Nickel plated steel frame, adjustable back, takes blades 8 to 12 inches long. Blade may be set to cut in any one of four directions.

Hardwood handle; depth of frame from cutting edge 2¼ inches.

No. 390—Complete with one 8 inch blade... Each $1.00

Millers Falls

No. 103—General Purpose, All Hard
For use in hand frames. For all solids, tool steels, wrought iron, cast iron and slate. Thickness .025 inch; 18 teeth to the inch.

Length, inches 8 10 12
Width, inches ½ ¾ 1½
Per Dozen $0.45 .60 .70

General Purpose, All Hard
For use in hand frames. For general all round work in cutting tool steel, iron pipe, hard metals, light angle iron, etc. Thickness .025 inch; 18 teeth to the inch.

No. 165—Complete with one 8 inch blade... Each $3.75

No. 290—Complete with one 8 inch blade... Each $1.00

No. 818SF 1018SF 1218SF

Special Flexible Hand Blades
For cutting all kinds of soft metals. Will cut pipe, electric conduit, wire cable, soft sheet steel and any material of this kind without breaking or stripping of teeth.

For hand use only: 18 teeth per inch; .025 inch (23 gauge) thick.

No. 100 Mitre Machine

No. 100—With 26x4½ inch saw...

No. 101—Without saw...

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East
**MITRE BOXES**

**Improved Langdon Acme**

**With Saw**

Iron and steel castings; main castings enameled black; steel bed plates enameled red; bright parts nickel plated. Has thumb lever at front so saw supports can be swung freely and locked at either a positive or any intermediate angle. Graduated arc and index plate to show what degrees to set the saw for certain cuts. Notched bed plate determines the positive angles most used. Extension lever for quick acting adjustment on all except size 1 boxes. Length and depth gauges. Steel bottom boards rounded to prevent work from slipping.

**Size No. 1, with 22x4 inch Saw**

No. 68—Capacity at right angles 7½ in.; capacity at mitre 5 in.; net weight 23 lbs., weight boxed 34 lbs. Each $15.40

**Size No. 2, with 24x4 inch Saw**

No. 72—Capacity at right angles 9½ in.; capacity at mitre 7 in.; net weight 23½ lbs.; weight boxed 35 lbs. Each $17.30

**Size No. 3½, with 30x5 inch Saw**

No. 75—Capacity at right angles 10¼ in.; capacity at mitre 7 in.; net weight 25½ lbs., weight boxed 38 lbs. Each $21.10

**Prices Subject to Market Changes**

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**SKILSAW**


Standard equipment includes: One combination rip and cut-off saw blade; convenient carrying case; adjustable rip fence attachment; rubber covered electric cord with attachment plug; one high pressure grease gun filled with Skilsaw lubricant; socket wrench.

**Model J—Junior**

For ripping and cross cutting up to 2 inch dressed lumber. The light weight, compactness and power of this model make it extremely popular with the carpenter. It is becoming indispensable to manufacturing concerns, office buildings, hotels, and shipping rooms of all industries, in fact wherever the hand saw was formerly used.

Specifications

Cutting capacity—maximum 1½ inches deep.

Diameter saw blade, 6 inches.

Weight 11 pounds.

**Model E—Contractor**

Every building operation requires a Skilsaw Model E, the contractor's popular size for rip and cut-off work up to 3 inch dressed lumber. Economy is effected and handling costs reduced by "gang" work. The tilting and vertically adjustable base makes "E" a versatile tool.

Specifications

Cutting capacity—maximum 2¾ inches deep.

Diameter saw blade, 8 inches.

Wide tilting base for bevel cutting.

Weight 18 pounds.

**Prices Subject to Market Changes**

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect.
SCROLL SAW
American Giant Scroll Saw Motor Unit

Motor—A.C., 110 volts, 60 cycles, speed 1725 R.P.M., ½ H.P., with two shafts. This enables the use of any of the numerous available attachments, such as emery, buffing or wire wheel, drill chuck, sanding disc, also sanding table. The extra shaft may also be used for driving any other machines.

Strong iron base, has all holes jig drilled so that any other Delta attachments such as lathe and circular saw may be added in the future. Equipped with 12 inch American Giant scroll saw; assembled ready for operation and packed in strong wood box.

No. 70—With plain 12 inch frame, non-titting table; six each Nos. 3 and 4 pin end blades; motor base with switch, cord and plug; No. 5 pulley; No. 50 "V" belt; shipping weight 70 pounds. Each $32.25
No. 75—Same as No. 70 except with tilting table; shipping weight 70 pounds. Each $34.25
Add $5.00 if with D.C. motor, 115 volts.

American Giant Scroll Saw

Large (5¾ x 5¾ inches) two-piece, square steel table. Scientifically designed slide. Maximum strength at minimum weight. Large hardened crank block, has replaceable bronze bushing and gives this saw that smooth, easy action. Extra strong and long crank bearing. Safety drive wheel measures 7½ inches in diameter. Is counter balanced and grooved for "V" or ¼ inch round belt. Rugged ½ inch diameter frame, holds blade firm and true. Will not jiggle sideways. Heavy hold-down arm is made from ½ inch diameter stock. Has forked end and is easily adjusted. Hardened saw blade guide supports blade securely. Prevents blade breakage, and allows severe feeding of work.

Strong base with bottom disc ground. Well ribbed and provided with heavy mounting bosses.

No. 20—With plain 12 inch frame, non-titting table; six each Nos. 3 and 4 pin end blades, 5 in. long; shipping weight 16 pounds. Each $10.00
No. 25—Same as No. 20 except with tilting table; shipping weight 16 pounds. Each $12.00

Prices Subject to Market Changes

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Hammacher, Schlemmer & Co.

NAIL HAMMERS
C. Hammond Brand

Adze Eye, Octagon Face and Neck
Highest grade forged cast steel, polished. Extra white hickory handle. Fully warranted.
Nos. .......... 0172 0171 0170
Size .......... 2 2 2
Weight, oz .... 16 13 9
Each .......... $1.50 $1.45 $1.40

C. Hammond Brand

Adze Eye, Bell Face
Highest grade forged cast steel, polished. Extra white hickory handle. Fully warranted.
Nos. .......... 182 181 180
Size .......... 2 1 0
Weight, oz .... 16 13 7
Each .......... $1.25 $1.15 $1.10

Tacony Brand

Adze Eye, Plain Face
Forged from one piece of solid steel of good quality, polished. White hickory handle.
Nos. .......... 1170 1171 1172
Size .......... 0 1 2
Weight, oz .... 7 13 18
Each .......... $0.70 $0.75 $0.80

RIVETING HAMMERS

Plain Eye, Plain Face
Forged steel, fully warranted.
Nos. .......... 2-0 2-1 2-2
Weight, oz .... 1 1½ 2
Each .......... $0.65 $0.70 $0.70

TACK HAMMERS

Fine steel forging; warranted strong and permanent magnets.
No. .......... 412—Polished head, 4 oz.; 12 inch handle
Each .......... $0.95

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Hammacher, Schlemmer & Co.

NAIL HAMMERS
The Cheney Nailer

Ball Pein
Highest grade forged cast steel, polished. Extra white hickory handle. Fully warranted.
Nos. .......... 280C 280B 280A 280B 281 282
Size .......... 6 8 12 1 1¼ 1½
Weight, oz .... 90 90 90 95 1.00 1.10
Each .......... $0.90 $0.90 $0.95 $1.00 $1.10

Adze Eye, Bell Face
A new and distinctive shape. Claws will reach across a 2x4 in. studding and are so beveled that they will grip and pull a nail by the shank.

Drop forged special steel, carefully hardened and tempered. Chromium plated head. Selected hickory handle, multi-colored— painted in five colors, harmoniously blended together with a restful shade of green predominating. A beautiful tool, appropriate for gift purposes.

No. CP100 Plus—Weight 3½ lbs.; length 13 inches..... Each $2.50

Plumb

Adze Eye, Bell Face
Special analysis steel, die forged; non-rusting black finish head; red stained hickory handle.
Nos. .......... HF90 HF11 HF12 HF13 HF14
Size .......... 11 11½ 12 13 14
Weight, oz .... 20 16 13 7 4
Each .......... $1.60 $1.50 $1.45 $1.40 $1.40

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
SHINGLING HATCHETS
C. Hammond Brand

Adze Eye, Bell Pole
Light pattern, solid, best refined solid crucible cast steel, full polished thin blade; fully warranted. Extra white Hickory handle.

No. 26  Size 2  Cut, inches 3 1/2  Weight, lbs. 1 1/4  Each $2.10

Note—Weights do not include handles.

HALF HATCHETS
Estwing

Curved Claw
Head and handle forged in one piece of high grade tool steel; leather grip.
Standard size and proportion; hard, tough face; cutting temper in claw; "unbreakable" handle, 13 inches long.

Nos. E114 E116
Weight head, oz. 12 16
Weight each, lbs. 1 1/2 2
Each $2.00 2.00

Prices Subject to Market Changes

UPHOLSTERERS HAMMERS
Robertson

Horseshoe Magnet
The magnet will hold a tack or nail for driving anywhere within reach.

No. 712—Forged steel head, nickel plated; strong, permanent magnet; weight of head 7 oz.; 12 inch handle. Each $2.00

COLD CHISELS
Octagon Body, Flat Nose

No. 1 Regular
Made from best tool steel especially for the purpose. Each chisel carefully shaped, perfectly straight and well finished.

Note—Order by diameter of stock.

Box, inch Face, inch Length, inch Each
7/8 .75 4 .25
7/16 .625 4 .25
1/4 .375 4 .25
5/32 .156 4 .35
11/32 .343 4 .45
3/32 .937 6 60
7/32 1 8 .90

Prices Subject to Market Changes

DELIVERY PREPAID WITHIN 100 MILES—TO POINTS BEYOND CHARGES COLLECT
Hammacher, Schlemmer & Co.

MALLETS
Hickory

Round
Second growth hickory. The handle goes entirely through the head of the mallet and is securely wedged.

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<tr>
<td>0</td>
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Rawhide

Miller Composition

Solid Rawhide Heads, Hardwood Handles

Avoids battered up parts in assembling or repairing machinery. Rawhide being a non-conductor of electricity, it is especially adapted to electrical work. A machine shop necessity and useful for automobile repairs.

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Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Hammacher, Schlemmer & Co.

SINGLE BIT AXES
Kelly
Soft steel body, crucible steel bit, hand tempered, cutting edge honed. Handled with No. 1 elastic hickory handles.

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<tr>
<td>5</td>
<td>1½</td>
<td>.25</td>
</tr>
</tbody>
</table>

Kelly "Flint Edge"
Connecticut Pattern, Plain Shape

Flint Edge—weight, lbs. 3 4 5
Length of handle before driven, inches 32 34 36
Each $2.30 2.35 2.45

Kelly "Perfect," Connecticut Pattern, Beveled
Full polished and labeled, blue Kelly bevels; length of handles 36 inches.

Perfect—weight, lbs. 4 5
Each $2.50 2.70

HOUSE AXES
Collins
Highest grade crucible tool steel with inserted hand forged tool steel cutting edge; short bent handle, length 19 inches, width of cut 4½ inches.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Size, inches</th>
<th>Weight with handle, lbs.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>2¾ x 3½</td>
<td>3</td>
<td>$1.75</td>
</tr>
<tr>
<td>24</td>
<td>2¾ x 3½</td>
<td>3</td>
<td>1.85</td>
</tr>
<tr>
<td>24</td>
<td>2¾ x 3½</td>
<td>3</td>
<td>2.10</td>
</tr>
</tbody>
</table>

BOY SCOUT AXES
Estwing

Exceptionally good blade—for the scout, huntsman and camper. Has one-piece forged and tempered steel head and handle.

<table>
<thead>
<tr>
<th>No. 682</th>
<th>Weight with handle, oz.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>24</td>
<td>$1.90</td>
</tr>
</tbody>
</table>

For the boy scout, huntsman and camper the Estwing is an ax that never fails. Has leather grip. One-piece forged and tempered steel head and handle. Has all the newest features that boy scouts want.

<table>
<thead>
<tr>
<th>No. E524</th>
<th>Weight with handle, oz.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>24</td>
<td>$2.25</td>
</tr>
</tbody>
</table>

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

**Bit Braces**

**Millers Falls**

**Improved Ratchet**
Polished and nickled steel; cocobolo wood. Ball bearing head. Non-splitting, always free acting sweep handle with inserted steel rings and adjustable bearings clamped with screws. Covered ratchet teeth with exposed ratchet dogs. Patent cup washer and screw to hold chuck to sweep without working loose. Forged steel alligator jaws holding bit stock and many sizes of round and irregular shanks.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Sweep, In.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>12</td>
<td>$4.15</td>
</tr>
<tr>
<td>32</td>
<td>10</td>
<td>4.00</td>
</tr>
<tr>
<td>33</td>
<td>8</td>
<td>3.90</td>
</tr>
<tr>
<td>34</td>
<td>6</td>
<td>3.80</td>
</tr>
</tbody>
</table>

**M. F. Co.**

**Ratchet**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Sweep, inches</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1322</td>
<td>10</td>
<td>$2.80</td>
</tr>
<tr>
<td>1323</td>
<td>9</td>
<td>2.75</td>
</tr>
<tr>
<td>1324</td>
<td>8</td>
<td>2.75</td>
</tr>
</tbody>
</table>

No. 1610—Sweep 10 inches...$1.40

**Prices Subject to Market Changes**

---

**Expansive Bits**

*Russell Jennings*

**Two Cutters**
A passage way formed in the solid head takes the cutter which is adjusted by a worm in mesh with threads on cutter, which forms a rack. Pitch of adjusting screw is such that one complete turn changes diameter of hole 1/8 inch, one-half turn changes diameter of hole 1/4 inch, and so on. Creeping of cutter is prevented by clamping screw which holds worm and cutter firmly in position. Genuine crucible tool steel, full polished; tempered and sharpened cutter.

**No. 71**—With two cutters, cuts from 3/8 to 2 1/2 inches; length over all 10 1/2 inches; weight each 8 o.zs. Each $2.25

**Extra Cutters for Russell Jennings Expansive Bits**

**No. 73**—7/8 to 1 1/2 in. Each $0.45

**No. 72**—1 1/2 to 2 1/2 in. Each $0.55

---

**Clark Pattern**

**Two Cutters**
Cast steel, polished; extra tool steel cutters, accurately tempered; adjusted by one screw; cutter is beveled on upper edge to hold it perfectly rigid and prevent slipping or creeping.

**No. 1**—Large, 9/16 inches long, with 2 cutters, one boring from 3/8 to 1/2 inches, the other 1/2 to 3 inches; weight each 11 o.zs. Each $1.95

**No. 2**—Small, 8 inches long, with 2 cutters, one boring from 1/2 to 7/8 inches, the other 7/8 to 1 1/2 inches; weight each 5 o.zs. Each $1.35

**Extra Cutters for Clark Pattern Expansive Bits**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>For bit, No.</th>
<th>Bores, inches</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>1/2 to 3/8</td>
<td>$0.25</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>3/8 to 1/2</td>
<td>.31</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>1/2 to 1 1/2</td>
<td>.44</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>1 1/2 to 1 3/4</td>
<td>.50</td>
</tr>
</tbody>
</table>

**Prices Subject to Market Changes**

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
AUGER BITS
Russell Jennings

No. 100—Forged Crucible Tool Steel
Oil tempered, polished twist and stem, natural finish shank, double spur and extension lip, double thread on screw, 4½ inch twist, 8½ inches over all.

Inches, in 16ths... 2 4 5 6 7 8 9 10
Each $0.60 $0.50 $0.50 $0.50 $0.50 $0.60 $0.60
Inches, in 16ths... 11 12 13 14 15 16 17 18
Each $0.70 $0.70 $0.84 $0.84 $0.96 $0.96 $1.20 $1.20

AUGER BITS IN SETS
Russell Jennings

In Hardwood Box
No. 32¾—Thirty Bits, 32¾ quarters; one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16/16ths; weight per set 5 pounds ... Per Set $9.95

No. 17—Seven Bits, 17½ quarters; one each 4, 6, 8, 10, 12, 14, 16/16ths; weight per set 3 pounds ... Per Set $5.25

In Canvas Roll
No. 32¾—Thirty Bits, 32¾ quarters; one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16/16ths; weight per set 3¼ pounds ... Per Set $9.35

No. 17—Seven Bits, 17½ quarters; one each 4, 6, 8, 10, 12, 14, 16/16ths; weight per set 2 pounds ... Per Set $5.25

BIT GAUGES
Stanley Adjustable
Can be attached to any size bit up to 1 inch diameter. Two projections engage with the twist of the bit so it can be accurately set for the bit to bore to any depth desired. Stopped on both sides of the bit insures it remaining upright when desired depth is reached.

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

BITS
Forstner
The Forstner labor-saving auger bit, unlike other bits, is guided by its circular rim instead of its center, consequently it will bore any arc of a circle and can be guided in any direction regardless of grain or knots, leaving a true, polished surface. It is preferable and more expeditious than chisel, gouge, scroll saw or lathe tool combined, for core boxes, fine and delicate patterns, veneers, screen work, scalloping, fancy scroll twist columns, newels, ribbon moulding, mortising, etc.

For Brace, Square Tapering Shank

<table>
<thead>
<tr>
<th>Inches, 16ths...</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>6¼</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
<td>6¾</td>
</tr>
<tr>
<td>Each</td>
<td>$0.85</td>
<td>$0.85</td>
<td>$0.95</td>
<td>$1.00</td>
<td>$1.09</td>
<td>$1.25</td>
<td>$1.33</td>
<td>$1.62</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For Machine, Round Shank 3¼x2 inches

<table>
<thead>
<tr>
<th>Inches, 16ths...</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Each</td>
<td>$1.10</td>
<td>$1.10</td>
<td>$1.20</td>
<td>$1.20</td>
<td>$1.25</td>
<td>$1.35</td>
<td>$1.35</td>
<td>$1.50</td>
<td>$1.60</td>
<td>$1.80</td>
</tr>
</tbody>
</table>

PLUG CUTTERS

Best Cast Steel, Carefully Tempered
No. 6080—Size, inches 3/8

| Each | $0.50 | $0.50 | $0.50 | $0.50 | $0.50 |

SCREW DRIVER BITS
Stanley

No. 26—Forged Crucible Steel
Oil tempered and polished. Points carefully formed and ground.

<table>
<thead>
<tr>
<th>Point, Length, Wt, Each</th>
<th>1/4</th>
<th>3/8</th>
<th>1/4</th>
<th>1/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each</td>
<td>$0.20</td>
<td>$0.30</td>
<td>$0.20</td>
<td>$0.20</td>
</tr>
</tbody>
</table>

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
GIMLET BITS

Hand forged crucible steel, sharpened by hand, carefully hardened and oil tempered. Length over all, 4 to 6½ inches.

Inches, 32nds........... 2 3 4 5 6 7 8 9 10 11 12 Each $0.12 .12 .12 .12 .13 .13 .13 .15 .15 .17 .20

TWIST BITS FOR WOOD

No. 114A—With Bit Brace Shank

Will fit any bit brace and are for use in wood only, but are not injured by accidental contact with nails, screws or other metals and can be kept sharp by grinding.

<table>
<thead>
<tr>
<th>Size No.</th>
<th>Diam., Inches</th>
<th>Length Over All, in.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2/32</td>
<td>3 1/2</td>
<td>$0.18</td>
</tr>
<tr>
<td>3</td>
<td>3/32</td>
<td>4</td>
<td>.18</td>
</tr>
<tr>
<td>4</td>
<td>4/32</td>
<td>4 1/2</td>
<td>.18</td>
</tr>
<tr>
<td>5</td>
<td>5/32</td>
<td>5</td>
<td>.20</td>
</tr>
<tr>
<td>6</td>
<td>6/32</td>
<td>6 1/2</td>
<td>.23</td>
</tr>
<tr>
<td>7</td>
<td>7/32</td>
<td>6 3/4</td>
<td>.25</td>
</tr>
<tr>
<td>8</td>
<td>8/32</td>
<td>7</td>
<td>.38</td>
</tr>
</tbody>
</table>

BIT STOCK DRILLS IN SETS

Wood Bits for Brace

For use in wood only, but are not injured by accidental contact with nails, screws or other metals and can be kept sharp by grinding.

No. 13B—In dark green corduroy silk covered flat case, gold embossed; consists of seven sizes 4, 5, 6, 7, 8, 10 and 12/32 inch. Per Set $2.25

Prices Subject to Market Changes

No. 14B—In leatherette covered flat case, green color, gold embossed; consists of seven sizes 3/4, 1/2, 1/4, 3/8, 1/8, 3/16, and 1/32 inch. Per Set $1.95

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

TWIST DRILLS

Jobbers Straight Shank, Short Set

<table>
<thead>
<tr>
<th>No. 108 Carbon Steel</th>
<th>Each</th>
<th>L'gth. Over All, in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam., Inches</td>
<td>Carbon Steel</td>
<td>High Speed</td>
</tr>
<tr>
<td>3/32</td>
<td>$0.07</td>
<td>$0.20</td>
</tr>
<tr>
<td>1/4</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>5/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>7/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>9/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>11/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>13/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>15/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
<tr>
<td>17/32</td>
<td>$0.08</td>
<td>$0.20</td>
</tr>
</tbody>
</table>

Home and Farm Drill Set

No. 26—Carbon Steel; for use in the home, on the farm, for radio repairs and minor automobile work; will fit any standard hand, breast, post or bench drill. Per Set $1.35

Mechanics' Drill Set

No. 57—Hi-Speed Steel; for use in the smaller sizes of electric drills by auto repair shops, small machine shops, farms, vocational schools and by owners of portable electric drills. Set $2.60

Prices Subject to Market Changes

Straight Shank Drills in Sets

Drills packed in wooden cylinder equipped with nickel plated cap which revolves so that the size drill wanted can be easily and quickly found.

Set consists of eight sizes, 1/8, 3/32, 1/4, 5/32, 3/16, 7/32, 1/8 and 9/32 inch.

Home and Farm Drill Set

No. 26—Carbon Steel; for use in the home, on the farm, for radio repairs and minor automobile work; will fit any standard hand, breast, post or bench drill. Per Set $1.35

Mechanics' Drill Set

No. 57—Hi-Speed Steel; for use in the smaller sizes of electric drills by auto repair shops, small machine shops, farms, vocational schools and by owners of portable electric drills. Set $2.60

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145–147 East
COUNTERSINKS

Rose Head
For wood or soft metal. Forged steel, polished shank, milled head.
No. 315—Size, in. ... 1/2 3/8 1/4
Each ............................ $0.30 .30 .36

Bit Stock
The included angle at point is 82°. Will furnish 60° or 82° angle when specified.
No. 115C—Diameter 5/8 in.; length overall 4 1/4 in., Each ............................ $1.00

REAMERS

Square
Each
No. 40—Ground concave ............................ $0.35

Six Flutes
Each
No. 142—Size 1 ............................ $0.65

CENTER REAMERS

No. 125A—No. 1—Carbon Steel
The included angle is 90° unless otherwise ordered. Center reamers with 72° or 80° included angle will be furnished at regular price.

Note—In ordering give diameter of both shank and body.

NAIL SETS

No. 10—Round Body
Twist drill steel, tempered ends, knurled body, blued finish, cupped point.
Point, inch ............................ 3/8 3/8 3/8
Each ............................ $0.12 .12 .12

Prices Subject to Market Changes

GRINDING WHEELS

Aloxite
Made of highest grade materials and furnished in grades most commonly used. Especially adapted for electric drills and grinders.
Dia. Face, Hole, Grade No. No. Each
in. in. in. in. in. No. No. Each
4 1/2 1/2 60 J $0.65
6 1/2 1/2 40 J 1.16
8 1/2 1/2 60 J 1.16
10 1 1 36 J 3.60
10 1 1 60 J 3.60
10 1 1 4 24 H 4.90
10 1 1 4 40 J 4.90

WIRE WHEEL BRUSHES

For Cleaning and Polishing
Rigid and compactly made having more wires per square inch of brush surface than the average wheel. Wires being tightly compressed give greater wearing strength to brush. Have interchangeable bushings which slip into the 2 inch standard size opening and adjusts to fit any size spindle.
Arbor bushings can be furnished with 1/4, 5/8, 7/8 or 1 inch arbor hole.
Note—Be sure to specify diameter of arbor hole bushings.
Nos. ............................ 18 13 2 132 151
 Diameter, inches .8 .10 12
Width, inches 1 1/4 1 1/4 2
Each ............................ $3.00 4.80 6.00

BUFFING WHEELS
Meets the need for a light, portable buffer for polishing a number of different objects that have formerly necessitated hand work.

Buffing Wheel—18 ply section; diameter 6 inches; 3/8 inch arbor hole
Each ............................ $0.15

Prices Subject to Market Changes

HIGH SPEED HOLE SAWs

For Use with Millers Falls Electric Drills
Nos. 312, 612, 635, 634, 734
Designed especially for fast cutting at electric drill speeds. Blades of 13% Tungsten high speed steel.
Simple construction, saw replaced readily. Shanks for sizes 1 1/4 inches and up made with three flat surfaces which prevent slipping in drill chuck.

Cup and Saw
Saw Size ............................ Saw Size
No. in. Each No. in. Each
12 3/4 1.45 36 2 1/2 2.20
14 1 1/2 1.45 40 2 1/2 2.20
18 1 1/2 1.45 44 2 1/2 2.20
20 1 1/4 1.45 46 2 1/2 2.20
24 1 1/8 1.45 48 3 2.20
28 1 1/4 1.80 56 3 1/2 2.20
32 2 1.80 ............................

Mandrels with Pilot Drill
For Millers Falls high speed hole saws.
No. ............................ 1218 2054
For saws, in. 3/4 to 1 1/4 1 1/4 to 3 1/2
Each ............................ $1.00 1.00

ARBORS
Polished steel, convenient for holding saws, wire brushes, buffing wheels, etc., in lathes, drill chucks, electric drills and motors.
Shank, Flanges, Flanges.
No. in. in. in. in. in. Each
748 4 x 1/4 1/2 1/4 1/4 $1.00
321 4 x 1/4 1/2 1/4 1/4 80
322 4 x 1/4 1/2 1/4 1/4 80

Fourth Avenue at 13th Street also at 57th Street—145-147 East
Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
BREAST DRILLS
Millers Falls

Two Speeds

This drill has been a standard for many years. It is built along simple lines yet has every feature essential to good drilling. It is a "full service" drill at a moderate price.

Specifications

Chuck—three jaw. Improved protected springs.
Gear ratio even and 3 to 1. Changed by pressing spring and shifting large gear.
Annular ball bearing spindle, as well as ball thrust bearing, with take up nut to provide for wear.
Frame has hand hold for steadying tool.
Handles—stained hardwood. Crank handle extensible, 4 to 6 in. radius.
Frame malleable iron enameled black. Level attached. Large gear enameled red. Other metal parts nickedled.

No. 118—Capacity 0-½ inch round shanks; length 17½ inches; weight each 6½ pounds. Each $5.70

This breast drill has been designed for those who want a sturdy tool that will give a lot of service at a reasonable price. It has a solid steel frame, nickel plated with stained hardwood crank and side handle. The breast plate is black and the large gear red. This drill has a three-jaw chuck with protected springs. Single speed cut gears and steel pinion.

No. 3000—Capacity 0-½ inch round shanks. Each $1.50

Prices Subject to Market Changes

HAND DRILLS
Yankee Ratchet

Can be adjusted by a shifter on cylinder; with slide in first notch the tool is a plain drill; in second, a left hand ratchet; in third, a right hand ratchet; in fourth, a double ratchet; in fifth, drill is locked to adjust chuck.

Single speed, with right and left hand and continuous ratchet movement. Dead black finish. Malleable iron frame, steel spindle, cut gears, 4x1½ inch detachable hollow hardwood handle.

No. 1530—10½ inches long, three-jawed chuck holding up to ¼ inch round shanks only, without drill points, weight each 1½ pounds.

Yankee Plain

No. 1430—Same as No. 1530, except without ratchet movement. Each $3.30

Millers Falls, Complete with Drill Points

Enameled iron frame, red large gear, nickel plated parts, cut gears with adjustable equalizing bearing, ball thrust bearing, hollow cocobolo handle with screw cap containing eight (½ to ¾ inch) drill points. Detachable side handle.

No. 1—12¼ inches long, three-jawed chuck holding 0 to ¾ inch round shanks, weight each 1½ pounds. Each $3.00

Millers Falls, without Drill Points

This hand drill is made in the usual Millers Falls style and designed to give long satisfactory service over a period of years. It has a solid steel frame and three-jaw chuck. Single speed cut gears and steel pinion. The main handle is solid stained hardwood. The frame and chuck are nickel plated and the large gear is painted red.

No. 2500—Capacity 0 to ¾ inch round shanks making it useful for all round work. Each $0.85

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
AUTOMATIC DRILLS

Yankee

No. 41—11½ inches long with drill point, steel and brass construction, nickel plated, magazine in handle for holding drill points, complete with 8 drill points, ⅝ to ⅛ inch, weight each 11 ounces... Each $2.30

Millers Falls

No. 841—This popular priced automatic drill is constructed of steel heavily nickel plated with an orange handle and fits the hand comfortably; a magazine in the handle contains eight drill points; chuck is the improved type and holds drill points firmly; length over all 10½ inches; weight 9 oz.... Each $1.20

RATCHET SCREW DRIVER TOOL SET

Yankee

Put up in substantial and well finished boxes for use by mechanics who desire to keep tools in fine order, and by amateur mechanics who especially appreciate tools put up in handsome sets. The box, which is made of oak, handsomely finished, contains one each of the following "Yankee" tools:

No. 30A Spiral Ratchet screw driver.

Chuck, with drill points, eight sizes, ⅝, ⅜, ⅝, ⅞, ⅝, ¾, ¾, ⅛ inch, to use for drilling holes with the No. 30A Spiral Ratchet screw driver.

Countersink to use in same tool.

No. 11 Ratchet screw driver, with blade 6 inches long.

No. 15 Ratchet screw driver, with finger turn on blade, with blade 3 inches long.

Set covers all the usual requirements in tools for driving and drawing out screws. The tools are easily removed from box, and when it is closed are held firmly in place.

No. 100—Size of box 12½x4½x2½ inches; weight 3¼ pounds... $7.70

Prices Subject to Market Changes
SCREW DRIVERS
Yankee Ratchet

Right and Left Hand and Rigid
Forged cast steel bits, tempered, ground and polished. Other metal parts nickel plated and buffed. Polished hardwood handles. Construction of ratchet and pawls is such that neither can bend, break, wear or get out of order.

Adjustment for right or left hand is made by slide moved in direction of length of blade.

No. 10—Length blade, inches... 2 3 4 5 6
Each $0.58 $0.72 $0.77 $0.85 $0.95

Genuine Champion
Every blade tested to split a screw head. The blade is forged from the toughest steel, tempered with great care, and shrunk into a solid malleable bolster which rests in heavy ferrule, while tang (which forms a part of the bolster) enters and passes nearly through the handle.

Regular Blade
Polished steel blades; cherry stained fluted hardwood handles; polished steel ferrules.

Length blades, inches 2 3 4 5 6 8 10 12
Diam. blades, inches 7/16 5/16 3/8 5/8 7/16
Each $0.32 $0.38 $0.40 $0.42 $0.48 $0.60 $0.75 $0.90

Slim Blade

Length blades, inches 3 1/4 4 1/2 5 1/2 6 1/2
Diameter blades, inches 5/32 3/16 1/8 5/32
Each $0.35 $0.35 $0.45 $0.50

Insulated Handle

Electrically tempered polished blade, round shank. Friction grip handle, moulded of a tough product, completely insulated against electricity; moulded over flanges on blade that absolutely prevent blade from turning or twisting. No metal ferrule to shock, rust-cut or bruise the hand.

Dura Driver
Nos. DD30 DD25 DD20
Diameter of blade and width at point, in. 3/8 1/4 1/8
Length of blade, inches 3 4 1/2 6
Length over all, inches 6 7/8 8 1/2 10 1/4
Each $0.15 $0.15 $0.15

Prices Subject to Market Changes
Hammacher, Schlemmer & Co.

IRON BLOCK PLANES

Stanley "Bailey" Adjustable
Cutters adjustable endwise and sidewise and rest on their seats at an angle of 20°. Throats adjustable for coarse or fine work. Fitted with "Handy" feature.

Japanned Trimmings

<table>
<thead>
<tr>
<th>Nos.</th>
<th>9½</th>
<th>15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Cutter, inches</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Each</td>
<td>$1.75</td>
<td>1.90</td>
</tr>
</tbody>
</table>

Lever Adjustment
No. 103 is for light work. The cutter is adjustable endwise. The bottom is ground true and the sides neatly japanned.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>103-</th>
<th>1⅝ inches</th>
<th>1½ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>5½</td>
<td></td>
<td>$0.90</td>
</tr>
</tbody>
</table>

Nickel Trimmings

<table>
<thead>
<tr>
<th>Nos.</th>
<th>16</th>
<th>17</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Cutter, inches</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Each</td>
<td>$2.00</td>
<td>2.15</td>
</tr>
</tbody>
</table>

Lever Adjustment
No. 120 is similar in design to the No. 103, having the same form of cutter adjustment and cutter fastening device. However, in this plane the sides are ground. Rosewood knob.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>120-</th>
<th>1⅝ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>$1.30</td>
</tr>
</tbody>
</table>

Knuckle Joint Lever
Fitted with a new and patented form of lever or cap called "knuckle joint," which, being entirely of steel, is practically indestructible.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>18</th>
<th>19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Cutters, inches</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Each</td>
<td>$2.35</td>
<td>2.50</td>
</tr>
</tbody>
</table>

Screw Adjustment
No. 220 is in many ways better adapted for average use than any of the cheaper block planes made. It is ground on both bottom and sides. The cutter is fastened by a lever and cam, and is adjustable endwise. Rosewood knob.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>220-</th>
<th>1½ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>$1.35</td>
</tr>
</tbody>
</table>

 Nickel Plated Trimmings

Prices Subject to Market Changes

Stanley Adjustable
For those desiring a plane for ordinary work that does not require that the tool be frequently adjusted, we strongly recommend this line.

Lever Adjustment
No. 103 for light work. The cutter is adjustable endwise. The bottom is ground true and the sides neatly japanned.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>103-</th>
<th>1⅝ inches</th>
<th>1½ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5½</td>
<td></td>
<td>$0.90</td>
<td></td>
</tr>
</tbody>
</table>

Japanned Trimmings

<table>
<thead>
<tr>
<th>Nos.</th>
<th>100</th>
<th>101</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>Cutter, inches</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Each</td>
<td>$0.45</td>
<td>.35</td>
</tr>
</tbody>
</table>

Japanned Non-Adjustable
Stanley Adjustable

<table>
<thead>
<tr>
<th>Nos.</th>
<th>100</th>
<th>101</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, inches</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>Cutter, inches</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Each</td>
<td>$0.45</td>
<td>.35</td>
</tr>
</tbody>
</table>

Japanned Trimments

<table>
<thead>
<tr>
<th>Nos.</th>
<th>203-</th>
<th>1⅝ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1⅝</td>
<td></td>
<td>$1.20</td>
</tr>
</tbody>
</table>

Stanley Double End Non-Adjustable

<table>
<thead>
<tr>
<th>Nos.</th>
<th>130-</th>
<th>1⅝ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
<td></td>
<td>$1.35</td>
</tr>
</tbody>
</table>

Japanned Bull Nose

<table>
<thead>
<tr>
<th>Nos.</th>
<th>101</th>
<th>1⅝ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>$0.90</td>
</tr>
</tbody>
</table>

Japanned Trimments

<table>
<thead>
<tr>
<th>Nos.</th>
<th>101</th>
<th>1⅝ inch cutter</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td></td>
<td>$0.35</td>
</tr>
</tbody>
</table>

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Deliveries Prepaid Within 100 Miles—to Points Beyond Charges Collect

Prices Subject to Market Changes
Hammacher, Schlemmer & Co.

BLOCK AND RABBIT PLANES
Stanley Adjustable

Japanned Trimmings
The detachable side will easily change this tool from a Block Plane to a Rabbet Plane, or vice versa. The cutter is set on a skew and is adjustable endwise. Rosewood knob.
No. 140—Length 7 inches; 1½ inch cutter; weight 1½ pounds. Each ........................................... $2.30

CABINET MAKERS EDGE PLANES
Stanley Adjustable

Japanned Trimmings
For planing down to a rough dimension any board that is too wide to conveniently rip with a hand saw, an operation that is sometimes called “hogg- ing.” This is made possible by reason of the shape of the extra heavy cutter, the cutting edge of which is round instead of square. Handle and knob of beech.
Nos. ................. 40 40½
Length, inches .... 9½ 10½
Cutter, inches ..... 1½ 1½
Weight, lbs. .......... 2½ 2½
Each ........................................... $1.95 2.60

CIRCULAR PLANES
Stanley Adjustable

Japanned

BULL NOSE RABBET PLANES
Stanley

Japanned
Very useful for working close up into corners or other difficult places. The mouth can be adjusted to different widths by means of the set screw on top of the plane.
No. 75—Length 4 inches; 1 inch cutter; weight 9½ lb. Each $0.60

Prices Subject to Market Changes

SIDEB RABBIT PLANES
Stanley

Nickel Plated
Made in two styles, No. 98 for right hand work and No. 99 for left hand work.
These will be found to be very convenient for side-rabbing in trimming dados, moldings and grooves of all sorts. A reversible nose-piece gives the tool a form whereby it will work close up into corners when required. Fitted with depth gauge. Rosewood knobs.

No. 98—Length 4 inches; ½ inch cutter; weight 1 pound. Each ........................................... $1.75

No. 99—Length 4 inches; ½ inch cutter; weight ½ pound. Each ........................................... $1.75

RABBIT PLANES
Stanley Handled

Nickel Plated
For fine cabinet or other work where extreme accuracy is required. Both sides are square with bottom; sides and bottoms are machine ground. Will lie perfectly flat on either side and can be worked either right or left hand. Width of throat opening or mouth adjustable so that it can be widened or narrowed as coarse or fine work may require. Cutters adjustable endwise. By removing the front a chisel plane is obtained.
No. 90—Length 4 inches; 1 inch cutter; bull nose pattern, can be used close up into corners or other difficult places; weight 1 pound. Each ........................................... $3.25

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
DUPLEX RABBET
AND FILLETSTER PLANES
Stanley

Japanned, Nickel Trimmings
Has two seats for the cutter, one for regular, the other for bull
nose work. Also a spur and a re
movable depth gauge. The adjust
able fence can be used on either
side of the plane and slides under
the bottom for regulating the
width of the cut. The rear cutter
is adjustable endwise. To work as
a rabbot plane, remove fence and
arms.

No. 78—Length 8½ inches; 1½
inch cutter; weight 3 pounds.
Each $2.65

WEATHER STRIP PLOW
PLANES
Stanley

Japanned, Nickel Trimmings
Especially designed for weather
stripping work. Also adapted for
all plow work within its limits.
Fitted with depth gauge and ad
justable fence. Complete with 7
cutters—½, ¾, ½, 1, 1½, 2 and
3¼ inch wide.

No. 238—Length 7½ inches;
weight 1½ pounds.. Each $4.85

SPECIAL DADO PLANES
Stanley

Japanned, Nickel Trimmings
Will keep true even in the nar
rowest widths. They have skew
cutters, an adjustable depth
gauge, and two adjustable spurs.

No. 39—Length 8 inches
Cutter, Weight,
Inches Lbs. Each
½ 1 ½ $2.40
¾ 1 ¾ 2.70
1 1 ½ 3.00
1½ 2 3.10
2 2½ 3.25

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

COMBINATION PLANES

Stanley “Fifty-Five” Plane

“A Planing Mill Within Itself”

In addition to being a beading
and center beading plane, a plow,
dado, rabbot, filletster, and match
plane, a sash plane and a slitting
plane, is also a superior moulding
plane, and will accommodate cut
ners of almost any shape and size.

Main fence has lateral adjust
ment for extra fine work. Fences
can be used on either side of plane,
and the rosewood guides can be
tilted to any desired angle up to
forty-five degrees. Second fence
can be reversed for center beading
wide boards.

Fitted with spurs for working
across the grain, and a special
Cam rest to steady the plane when
working in certain positions.

Metal parts nickel plated; hand
le and fences of rosewood, every
part well finished.

No. 55—With 55 cutters; packed
in a neat substantial box: weight
15 pounds... Each $23.40

Prices Subject to Market Changes

Stanley “Forty-Five” Plane

“Seven Tools in One”

This well known and useful tool
in reality combines seven planes in
one in a compact and practical
form—beading and center beading
plane, plow, dado, rabbot and fil
etster, match plane, sash plane,
slitting plane.

Fence has lateral adjustment for
extra fine work and can be attach
ed to either side of plane.

Fitted with spurs for working
across the grain, and a special
Cam rest to steady the plane when
working in certain positions.

Following cutters included—11
plow and dado, 7 beading, 1 fillet
ster, 1 sash, 2 match and 1 slitting;
also two sets of arms, one set
4½ inches long, one set 8½
inches long. Metal parts nickel
plated; handle, knob and fence of
rosewood.

No. 45—With 23 cutters; packed
in a neat, substantial box:
weight 9½ pounds.. Each $11.90

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
COMBINATION PLANES
Stanley

Skew Cutter Combination
Can be used as a plow, dado, filletster, matching and rabbit plane. Fitted with spurs, depth gauge and fence. The fence has a rosewood face. Nickel plated frame; rosewood handle and knob.

12 Cutters as Follows:
- Plow and Dado, 3/8, 1/2, 1/4, 5/16, 3/16, 1/8, 5/32, 3/32, 1/16 inch, 1/16 inch.
- Filletster, 1/4 inch.
- Tonguing, 1/16 inch and one slitter cutter.

No. 46 — Length 10 1/2 inches; weight 5 3/4 lbs. Each $8.95

LIGHT COMBINATION
A small combination plane for light work. Can be used as a plow, beading, matching or rabbit plane. Fitted with spurs, depth gauge, sliding deflector and fence. Fence has 5 inch adjustment. Nickel plated frame.

15 Cutters as Follows:
- Plow and Dado, 1/4, 5/32, 3/16, 1/8, 3/32, 1/16 inch.
- Beading, 3/16, 1/8, 1/16, 1/32, 1/64 inch.
- Tonguing—1/16 inch.

No. 56 — Length 9 1/4 inches; weight 3 3/8 pounds. Each $7.00

HAND BEADERS
Stanley

Nickel Plated
For beading, reeding or fluting straight or irregular surfaces—also adapted for light routing. It is fitted with two gauges; one for straight, the other for curved work.

The sample illustrated shows some of the work that can be done. With each tool a furnished 8 cutters, sharpened at both ends and embracing the following assortment:

- Single Beads—1/4, 1/8, 1/32, 1/64 inch.
- Fluting Tools—1/8, 1/32 inch.
- Reeding Tools—(2 beads 1/4 inch, 1 bead 1/8 inch, 1 bead 1/8 inch, 4 beads 1/64 inch).
- 2 Routers—1/8 and 1/16 inch.
- 1 1/32 inch Blank, which can be filed as desired.

No. 66 — Length 11 1/2 inches; weight 1 3/8 pounds. Each $1.60

Prices Subject to Market Changes

THE ROYAL PLANES
Stanley

For surfacing the bottom of grooves or other depressions parallel with the general surface of the work. The bottoms are designed so that an extra wooden bottom of any size desired can be screwed on, enabling the user to run on large openings.

Three cutters are furnished: 1/4 and 1/2 inch router cutters and a patented (3 piece) "V" or smoothing cutter. Nickel plated iron frame, maple knobs.

No. 271 — Length 3 inches: 1/4 inch cutter; nickel plated; case hardened thumb screw; weight 3/4 pound $0.60

TONGUE AND GROOVE MATCH PLANES
Stanley

No. 71: Open Throat
Cutters are adjustable and can be held on the front of the cutter post for regular work, or on the back for bull-nose work. An attachment for closing the throat for use on narrow surfaces and regulating depth of cut, is furnished.

No. 71 — Length 7 1/2 inches; weight 2 3/8 pounds. Each $3.30

Closed Throat
Cutters are adjustable and can be held on the front of the cutter post for regular work or on the back for bull-nose work.

No. 71 1/2 — Length 7 1/2 inches; weight 2 3/8 pounds. Each $3.30

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
PLANE IRONS
Stanley
The single irons of the same size are identical; thus a 2½ inch single iron fits all planes that take a 2½ inch plane iron. The cap iron (which combined with single iron makes the double iron), however, is not the same in all cases on the iron, wood and circular planes and is therefore not interchangeable.

In ordering be sure to give the number of the plane, size of iron and state whether single iron or iron and cap complete are required.

For “Bed Rock” and “Bailey” Iron, Circular and Wood Planes

<table>
<thead>
<tr>
<th>Size, Inches</th>
<th>Plane Irons</th>
<th>Plane Irons</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½</td>
<td>$0.45</td>
<td>$0.32</td>
</tr>
<tr>
<td>1¼</td>
<td>.50</td>
<td>.32</td>
</tr>
<tr>
<td>2</td>
<td>.55</td>
<td>.32</td>
</tr>
<tr>
<td>2¼</td>
<td>.65</td>
<td>.35</td>
</tr>
<tr>
<td>2½</td>
<td>.70</td>
<td>.40</td>
</tr>
<tr>
<td>2½</td>
<td>.75</td>
<td>.45</td>
</tr>
</tbody>
</table>

SCAPER PLANES
Stanley

Single Handle

Handle and knob have same form as regular “Bailey” plane, being preferred by some users to the two-handle or double grip form of scraper plane.

Blade adjustable endwise and for angle, and can be firmly locked in position desired.

Japanese stock; rosewood handle and knob.

No. 112—Length 9 inches; 2½ inch cutter; weight 4 pounds. Each ............... $3.35
Extra Blades ................ Each ................ .40

CABINET SCRAPERS
Stanley

Double Handle, Iron Bottom

The blade may be sprung to a slight curve by means of a thumb screw, giving ease of operation and quickness of cut. The handles are raised to protect the user’s hands, and pierced so that the tool can be hung up out of the way. Body and handles are cast in one piece. Japanese.

No. 80—Length 11½ inches; 2½ inch cutter; weight 1½ pounds. Each ............... $1.15
Extra Blades—For No. 80 scraper. Each ............... $0.25

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

CABINET SCRAPERS
Disston

Single Handle, Adjustable

Handle can be tilted to give blade any angle desired. Special blades of different forms and widths can be securely held in any position required, thus permitting the tool to be worked in many places inaccessible to other scrapers. Handle and knob of hardwood.

No. 82—Japanese; length 14½ in.; 3 in. blade; weight 1½ pounds. Each ............... $1.05
Extra Blades ................ Each ................ .25

Swedish—Viking

Size, In. | Gauge | Each
---------|-------|-------
2 x 3     | 21    | .23   |
2 3/4 x 3 | 19    | .23   |
3 x 3     | 19    | .28   |

MOULDING SCRAPERS

Dikeman

Single Handle, Adjustable

Universal ball joint of handle permits any required angle in its relation to blade; locks and loosens by a ¼ turn of handle; reversible head allows use of either edge of blade without removing blade from holder.

Holder takes any blade 3 inch wide or less and from No. 16 to No. 20 gauge. Blade held between heavy steel plates.

No. 125—Polished steel; stained hardwood handle; length 10½ inches; weight 20 oz. Each .......... $2.60

CABINET BURNISHERS
Buck

Oval

Especially adapted for putting the final edge on scraper blades.

No. 91—Length of blade 4½ inches. Each .......... $0.35

In Sets

Set of Eight—One each Nos. 2, 4, 5, 6, 7, 8, 9, 10 .......... Set $1.50

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
HOOK SCRAPERS

Detachable Edge
A superior tool for all kinds of scraping. Will scrape off paint and varnish dry. Hardened and tempered Swedish steel edge. Each hook will scrape several hundred square feet of new flooring.

No. 25 — Scrapper complete... $0.70
No. 25 C — Extra cutters... .15

SPOKE SHAVES

Stanley

No. 151

Adjustable Cutter
The cutter can be quickly adjusted both endwise and sidewise by means of the adjusting screws which engage the slots near the end. Length 10 inches; 2½ inch cutters. Japanned. Each No. 151 — Raised handles... $0.65
No. 152 — Straight handles... .65

No. 51

Universal
Handles detachable, and either one can be screwed into the top of stock, enabling user to work into corners or panels. Two detachable bottoms are furnished, one for straight and one for circular work.

No. 52

No. 67 — Length 9¼ inches; 1½ inch cutter; weight ¾ pound.
Each... $1.75

WOOD CHISELS

Shark Brand Swedish Chisels
Manufactured only by E. A. Berg Mfg. Co., Ltd., of Eskilstuna, Sweden. This company is the oldest and foremost manufacturer of hand edge tools in Sweden. Made from the finest grade of Swedish tool steel, carefully heat-treated and tempered. Thin blade, properly designed for balance. Equipped with select polished birch root handle.

Straight Sizes

No. 1026 — Long Socket Chisels
Length of blade 4½ inches.

No. 1027 — Butt Socket Chisels
Length of blade 2½ inches.

No. 1026 / 6 — Set of six; ½, ¾, 1, 1¼, 1½ inch... Set $7.30
No. 1026 / 12 — Set of twelve; ½, ¾, 1, 1¼, 1½ inch... Set $14.40
No. 1027 / 6 — Set of six; 3/8, ½, ¾, 1, 1¼, 1½ inch... Set $7.30
No. 1027 / 12 — Set of twelve; 3/8, ½, ¾, 1, 1¼, 1½ inch... Set $14.40

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
WOOD CHISELS
Buck Bros.

No. 38—Socket Butt,
Plain Edge
Length of blade 3¼ inches,
sharpened ready for use. Polished
hickory handle, plain end.

<table>
<thead>
<tr>
<th>Size, In.</th>
<th>Each</th>
<th>Size, In.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>$0.50</td>
<td>⅜</td>
<td>$0.67</td>
</tr>
<tr>
<td>⅜</td>
<td>$0.50</td>
<td>½</td>
<td>$0.72</td>
</tr>
<tr>
<td>⅝</td>
<td>$0.50</td>
<td>¾</td>
<td>$0.80</td>
</tr>
<tr>
<td>¾</td>
<td>$0.50</td>
<td>$</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

Above Chisels in Sets

No. 2A—Set consists of one each
¼, ⅜, ½, ¾, ⅞, Ⅲ, 1, 1¼, 1½, 1¾, 2 inch chisels.
Per Set $7.35

No. 39—Socket Butt,
Beveled Edge
Length of blade 3½ inches,
sharpened ready for use. Leather
tipped, polished hickory handle.

<table>
<thead>
<tr>
<th>Size, In.</th>
<th>Each</th>
<th>Size, In.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>$0.80</td>
<td>⅜</td>
<td>$1.00</td>
</tr>
<tr>
<td>⅜</td>
<td>$0.80</td>
<td>½</td>
<td>$1.10</td>
</tr>
<tr>
<td>⅝</td>
<td>$0.85</td>
<td>¾</td>
<td>$1.25</td>
</tr>
<tr>
<td>¾</td>
<td>$0.85</td>
<td>⅞</td>
<td>$1.35</td>
</tr>
<tr>
<td>⅞</td>
<td>$0.85</td>
<td>⅓</td>
<td>$1.55</td>
</tr>
<tr>
<td>⅝</td>
<td>$0.90</td>
<td>$</td>
<td>$1.70</td>
</tr>
</tbody>
</table>

Above Chisels in Sets

WOOD GOUGES
Buck Bros.

No. 2—Regular Tanged,
Plain Edge
Best quality, polished applewood
handles. Sharpened ready for use.
The 1 inch chisel is 5½ inches
long from bolster to point.

<table>
<thead>
<tr>
<th>Size, In.</th>
<th>Each</th>
<th>Size, In.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>$0.38</td>
<td>⅜</td>
<td>$0.55</td>
</tr>
<tr>
<td>⅜</td>
<td>$0.38</td>
<td>½</td>
<td>$0.55</td>
</tr>
<tr>
<td>⅝</td>
<td>$0.42</td>
<td>¾</td>
<td>$0.75</td>
</tr>
<tr>
<td>¾</td>
<td>$0.46</td>
<td>⅞</td>
<td>$1.00</td>
</tr>
<tr>
<td>⅞</td>
<td>$0.50</td>
<td>$</td>
<td>$1.09</td>
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</table>

Above Gouges In Sets

No. 2A—Set consists of one each
¼, ⅜, ½, ¾, ⅞, ⅓, 1, 1¼, 1½, 1¾, 2 inch chisels.
Per Set $7.80

No. 30—Regular Tanged,
Beveled Edge
Leather tipped, polished hickory
handles. Sharpened ready for use.

<table>
<thead>
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<th>Size, In.</th>
<th>Each</th>
<th>Size, In.</th>
<th>Each</th>
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<tr>
<td>¼</td>
<td>$0.59</td>
<td>⅜</td>
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<tr>
<td>⅜</td>
<td>$0.59</td>
<td>½</td>
<td>$0.77</td>
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<td>⅝</td>
<td>$0.59</td>
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<td>¾</td>
<td>$0.63</td>
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<td>⅞</td>
<td>$0.67</td>
<td>⅓</td>
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<tr>
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Above Chisels In Sets

WOOD TURNING TOOLS
Buck Bros.

No. 8—Regular, Tanged
Outside bevel, regular sweep.
Best quality polished applewood
handles. Sharpened ready for use.
The 1 inch gauge is 5½ inches
long from bolster to point.

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<th>Size, In.</th>
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<th>Each</th>
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<td>¼</td>
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<td>$1.09</td>
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Above Gouges In Sets

No. 42—Regular, Socket
Outside bevel, regular sweep.
Best quality polished applewood
handles. The 1 inch gauge has
5½ inch blade.

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<th>Each</th>
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<td>¼</td>
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<td>⅜</td>
<td>$1.03</td>
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<td>⅜</td>
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<td>½</td>
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<td>$0.65</td>
<td>¾</td>
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<td>$1.60</td>
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Above Chisels In Sets

WOODS: Tool Co.

No. 19—Skew Point
The 1 inch chisels have blades
about 6½ inches long.

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<th>Size, In.</th>
<th>Each</th>
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</thead>
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<td>¼</td>
<td>$0.72</td>
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<td>$0.72</td>
<td>$</td>
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Above Gouges In Sets

No. 19½—Round Point
The 1 inch chisels have blades
about 6½ inches long.

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<th>Each</th>
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<td>⅝</td>
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<td>¾</td>
<td>$0.80</td>
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<td>¾</td>
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<td>⅞</td>
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Above Gouges In Sets

WOODS: Tool Co.

No. 19½—Square Point
The 1 inch chisels have blades
about 6½ inches long.

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<td>⅝</td>
<td>$0.93</td>
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Above Chisels In Sets

WOODS: Tool Co.

No. 20—Parting Tool
The 1 inch chisels have blades
about 6½ inches long.

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<td>¼</td>
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<td>⅜</td>
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<td>$0.70</td>
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<td>⅝</td>
<td>$0.70</td>
<td>¾</td>
<td>$0.70</td>
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<td>¾</td>
<td>$0.70</td>
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Above Chisels In Sets

WOODS: Tool Co.

No. 42A—Parting Tool
The 1 inch chisels have blades
about 6½ inches long.

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<td>$0.57</td>
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<tr>
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Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—To Points Beyond Charges Collect
AMATEUR WOOD TURNING TOOLS
Buck Bros.

LITTLE DRAW SHAVES
C. E. Jennings' Arrow Head

G.E.JENNINGS' A

Sharpened and honed ready for use. May be used instead of a spoke shave or as a small drawing knife. An excellent little tool for manual training and for household use. Warranted.

No. 48—Length of blade on cutting edge 4 inches; weight ¼ pound. Each $0.75

Handled
Cast steel blades, length inches, sharpened ready for use. Polished hickory handles.
Amateur—Set consists of ten tools as follows: two each turning chisels, turning gouges, round point chisels, and spear point chisels, and one each cutting-off tool and square graver; in a neat pasteboard box. Set $12.00

DRAWING KNIVES
Buck Bros.

No. 71¾—Solid Cast Steel
Length, inches... 6 8 10 Each $1.20 1.30 1.60

BENCH KNIFE HANDLES AND BLADES

Dexter Blade Handles
Stained hardwood handles, interchangeable parts, parallel jaws.
Nos. Handle size, inches 4¾ x ¾ 4½ x ¾ Each $0.55
0 2X 0 2
Note—Prices given on above handles do not include blades.

Prices Subject to Market Changes

WOOD CARVING TOOLS
Genuine J. B. Addis, Sheffield, England
Ground sharp but not honed

How Carving Tools are Measured
Nos. 1 to 32, width of cutting edge, measured in a straight line from point to point. Nos. 41 to 46, length of one side of cutting edge. See pages 52 and 53 for illustration of sweeps.

Note—Smaller sizes take price of next nearest listed size.

Size, Inches: 3/8 5/8 3/4 7/8 1

<table>
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<th>5/8</th>
<th>3/4</th>
<th>7/8</th>
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<td>.80</td>
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<td>To 9—Straight Gouges</td>
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<td>18.00</td>
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<tr>
<td>12</td>
<td>To 18—Long Bend</td>
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<td>10.50</td>
<td>12.00</td>
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<td>18.00</td>
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<td>To 23—Short Bend</td>
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<td>12.00</td>
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</table>

Veining Tool

Very fine, short veining tool for engraving varnished work. No. 11—Size ¼ inch. Each $0.70

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
WOOD CARVING TOOLS
Genuine J. B. Addis, Sheffield, England

Illustrating shapes $\frac{3}{4}$ of actual sizes. The illustrations of the sweeps in a few cases vary slightly from the tools, as it is almost impossible to have cuts made of the exact sweeps of some of the gouges.

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<th>$\frac{5}{8}$</th>
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See page 51 for listing.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
WOOD CARVING TOOLS IN SETS

In Oak Cases

Twelve Tool Sets
Contents: One each No. 1, 1/4 and 1/8 inch; No. 3, 3/8 and 5/8 inch; No. 5, 1/2 and 3/4 inch; No. 6, 3/4 to 1 inch; No. 7, 1 inch; No. 8, 1 1/4 inch; No. 9, 1 1/2 inch; No. 10, 1 3/4 inch; No. 11, 2 inch; No. 12, 2 1/4 inch; No. 13, 2 3/4 inch; No. 14, 3 1/4 inch; No. 15, 3 3/4 inch; No. 16, 4 inch.
1 Washita Oil Stone, No. 26.
1 Washita Round-edge Slip, No. 11.
1 Arkansas Triangular Stick, No. 20.
1 Special Arkansas Carving Tool Slip, No. 15.
1 Carvers Marker, No. 8.
1 Illustrated Book of Instructions.

Per Set: No. 11—Round Handles $12.80
No. 12—Octagon Handles $13.20

Six Tool Sets
Contents: One each No. 1, 1/4 inch; No. 3, 1/8 inch; No. 5, 1/2 inch; No. 6, 3/4 inch; No. 10, 1 inch; No. 11, 1 1/4 inch; No. 12, 1 3/4 inch; No. 13, 2 inch; No. 14, 2 1/4 inch; No. 15, 2 3/4 inch; No. 16, 3 inch; No. 17, 3 1/4 inch; No. 18, 3 3/4 inch; No. 19, 4 inch.
1 Washita Oil Stone, No. 26.
1 Washita Round-edge Slip, No. 11.
1 Special Arkansas Carving Tool Slip, No. 15.
1 Carvers Marker, No. 8.
1 Illustrated Book of Instructions.

Per Set: No. 21—Round Handles $11.60
No. 22—Octagon Handles $11.80

Prices Subject to Market Changes

In Canvas Rolls

Twelve Tool Sets
Contents: One each No. 1, 1/4 and 1/8 inch; No. 3, 3/8 and 5/8 inch; No. 5, 1/2 and 3/4 inch; No. 6, 3/4 to 1 inch; No. 7, 1 inch; No. 8, 1 1/4 inch; No. 9, 1 1/2 inch; No. 10, 1 3/4 inch; No. 11, 2 inch; No. 12, 2 1/4 inch; No. 13, 2 3/4 inch; No. 14, 3 1/4 inch; No. 15, 3 3/4 inch; No. 16, 4 inch.
1 Washita Oil Stone, No. 26.
1 Washita Round-edge Slip, No. 11.
1 Arkansas Triangular Stick, No. 20.
1 Special Arkansas Carving Tool Slip, No. 15.
1 Carvers Marker, No. 8.
1 Illustrated Book of Instructions.

Per Set: No. 21—Round Handles $11.60
No. 22—Octagon Handles $11.80

Six Tool Sets
Contents: One each No. 1, 1/4 inch; No. 3, 1/8 inch; No. 5, 1/2 inch; No. 6, 3/4 inch; No. 10, 1 inch; No. 11, 1 1/4 inch; No. 12, 1 3/4 inch; No. 13, 2 inch; No. 14, 2 1/4 inch; No. 15, 2 3/4 inch; No. 16, 3 inch; No. 17, 3 1/4 inch; No. 18, 3 3/4 inch; No. 19, 4 inch.
1 Washita Oil Stone, No. 26.
1 Washita Round-edge Slip, No. 11.
1 Special Arkansas Carving Tool Slip, No. 15.
1 Carvers Marker, No. 8.
1 Illustrated Book of Instructions.

Per Set: No. 23—Round Handles $7.30
No. 24—Octagon Handles $7.50

Prices Subject to Market Changes

Wood Carving Set No. 2

No. 2—Consists of nine tools as described below Per Set $8.30
One set in a box.

Contents of No. 2 Set
Gouge No. 73/10, 1/8 inch cutting edge.
Vehling Tool No. 72/3, 1/4 inch cutting edge.
Gouge No. 75/4, 1/8 inch cutting edge.
Gouge No. 75/5, 3/16 inch cutting edge.
Carving Chisel No. 66, 1/4 inch cutting edge.
Carving Chisel No. 67, 1/2 inch cutting edge.
3 Carving Tools No. 63, 1/4 inch cutting edge.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
WOOD CARVING TOOLS IN SETS
J. A. Henckels' Twin Brand


Wood Carving Set No. 1

No. 1—Consists of eight tools as described below........Per Set $6.70

One set in a box.

Contents of No. 1 Set

Chip Carving Set No. 61, 1/2 inch cutting edge.
Chip Carving Set No. 64, 1 inch cutting edge.
Parting Tool No. 71/3, 1/2 inch cutting edge.
Parting Tool No. 71/5, 3/4 inch cutting edge.
Skew Chisel No. 70/8, 1/8 inch cutting edge.
Skew Chisel No. 70/12, 1/4 inch cutting edge.
Chisel No. 74/12, 1/4 inch cutting edge.
Chip Carving Knife No. 1, 1/2 inch cutting edge.

Prices Subject to Market Changes

STENCIL KNIVES
Dexter

Pattern Makers
High quality steel, hardened and tempered, ground to a cutting edge, tested and hand honed ready for use. Blade securely riveted into oval rubberoid handle.

No. D2—Length of blade 2 inches, Each ............... $0.50

LightStencil
High quality steel, hardened and tempered, ground to a cutting edge, tested and hand honed ready for use. Blade securely riveted into oval rubberoid handle.

No. E1—Size of blade 1x1/2 inches, Each ............... $0.40

MANUAL TRAINING KNIVES

All knives on this page are made of finest crucible tool steel and finely finished. They are carefully and thoroughly tempered and shaped to give a firm yet easy grip. Fully warranted.

CARVERS

No. 1—Extra quality, 2 1/2 inch blade.................. Each $0.28

Sloyd

These knives have shank running through handle and riveted on end.
No. 6—2 3/4 inch blade, Each $0.45
No. 7—2 1/2 inch blade, Each $0.40

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—To Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
WOOD CARVERS RASPS

Double-ended French wood rasps. The choice of the expert wood carver. Carefully toothed and tempered from finest steel. In various shapes for work in places not accessible to ordinary rasp. Much used for other fine work, particularly marble carving.

Nos. 139, 140
Nos. 147, 148
Nos. 141, 142
Nos. 149, 150
Nos. 143, 144
Nos. 151, 152
Nos. 145, 146
Nos. 153, 154

In 6 and 8 inch Lengths

Nos. 139/140 141/142 143/144 145/146 147/148 149/150 151/152 153/154
6 inch Each $0.70
8 inch Each $0.85

WOOD CARVERS MALLETs

Lignum-Vitae
Carefully selected, thoroughly seasoned, the handle is exactly centered, giving an evenly-balanced mallet.

Nos. 1 2 3
Diameter of face, inches 2½ 3 3½
Each $0.55 .60 .65

WOOD CARVERS MARKERS

H. S. & Co.

These markers are made of a special high grade tool steel, polished, carefully hardened and tempered. The designs are those most suitable for background work in wood carving.

Nos. 1 2 3 4 5 6 7 8
Each $0.40 .40 .40 .40 .40 .40 .40 .40
Nos. 9 10 11 12 13 14 15 16
Each $0.40 .40 .35 .35 .35 .35 .35 .35

Prices Subject to Market Changes

FRET SAW TABLES

Pierce

For Manual Training Work
This table is particularly commendable for two features: First, it is adjustable to any height above desk from 3 to 20 inches, permitting student to work in a sitting or standing position; second, it can be instantly attached to any desk, table or bench.

No. 180
Each $2.10

BENCH HOOKS

Wood

Made of selected maple. For odd sawing and chiseling, so that the bench will not be marred.

Bench Hook—Size 4½ x 12 inches.
Each $0.40

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

CARPENTERS STANDARD STEEL SQUARES
Sargent

Two Feet Squares
Size of body 24x2 inches; size of tongue 16x1 1/2 inches.

No. 100—Polished. Brace measure, 8 square and Essex board measure; face marked 3/16 and 3/8; back marked 1/10, 1/12, 2/12, 1/2; weight each about 2 lbs. Each $2.80

No. 100B—Blued. Same as No. 100 except blued finish, with white enamelled figures and graduations; weight each about 2 pounds. Each $3.40

No. 2—Polished. Brace measure and Essex board measure; face marked 1/4 and 1/8; back marked 1/4 and 1/8; weight each about 2 pounds. Each $2.50

No. 11—Polished. Essex board measure; face marked 1/4 and 1/8; back marked 1/4 and 1/8; weight each about 2 pounds. Each $1.30

TAKE DOWN STEEL SQUARES
Sargent

Made with a screw locking device which is easily operated by a coin or any instrument that will fit the slot in the screws. It is put together by placing the end of the tongue in a beveled seat on the body of the square and is held together by two self-contained binding screws. A dowel pin, located between the two screws insures perfect alignment.

Two Foot Framing Squares
Brace measure and patent rafter table; table for hip, valley, jack, and cripple rafters; table of cuts for common polygons; size of body 24x2 inches; size of tongue 10x1 1/2 inches; face marked 3/16 and 3/8; back marked 1/10, 1/12, 2/12, 1/2, and 1/10.

No. 600—Polished; highly polished steel. $5.60
No. 600B—Blued; white enamelled figures and marks. 6.20

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

CARPENTERS COMBINATION SQUARES
Starrett

With Level, Mitre and Plumb
This square will readily appeal to the carpenter and others not requiring a fine graduation of the blade or a scribe. The head may be clamped to any point of the blade. The blade is graduated 16ths and 16ths on both sides, and the lines and figures are very distinct. It is also convenient to square a piece with a surface and at the same time tell whether one or the other is level or plumb. The blade can be used separately as a rule. Combines a marking gauge, rule, square, mitre, depth gauge, height gauge, level and plumb.

No. 91—Length 12 inches. Each $1.30

TRY SQUARES
Disston

No. 5—Iron Stock
Steel blade, square inside and out; nickel plated.

Size—In. 4 6 8 10 12
Each... $0.48 $0.48 $0.75 $0.80 $1.05

TRY AND MITRE SQUARES
Disston

No. 10—Rosewood Stock
Heavy brass face plate; special “L” shaped steel blade.

Size—In. 6 7 1/2 9 12
Each... $0.61 $0.75 $0.90 $1.15

Fox

No. 3—All steel, nickel plated; 10 inch blade... Each $0.75

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
SLIDING T BEVELS
Disston

No. 3—Iron Stock
Nickel plated iron stock, steel blade. The blade is easily secured by turning the thumb screw at the lower end of handle.
Size, inches... 6 8 10
Each .......... $0.72 $0.90 $1.00

No. 2—Rosewood Stock
Rosewood stock, heavy brass plates; tempered and blued steel blade.
Size, Inches... 6 8 10
Each .......... $0.48 $0.54 $0.60

WOOD MARKING GAUGES
Stanley
Boxwood, polished; square head; single oval form bar; graduated in 16ths inches for 6 inches from point; brass screw; bar protected by brass shoe; adjustable point; brass face plate inserted in the head to prevent wear.

MORTISE AND MARKING GAUGES
Stanley
Slide Gauge
Has a slide working in the bar. One point is affixed to the slide, the other to the bar itself. Both sides of the mortise are marked at the same time. Oval form bar, graduated in 16ths inches for 3 inches from point.
No. 77—Rosewood; brass adjustable slide; brass screw, face plate and stop screw. Each $1.40

Double Bar Gauge
Has two independent bars working in the same head. One pin affixed to each bar. One side of the mortise is marked and the gauge turned over for marking the other side. Oval form bar, graduated 16ths inches for 6 inches from point.
No. 71—Beech, polished; brass screw; head plated; brass stop screw. Each $0.95

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

DELIVERY PREPAID WITHIN 100 MILES—TO POINTS BEYOND CHARGES COLLECT

Hammacher, Schlemmer & Co.
BOXXWOOD RULES
Stanley

Two Feet, Four Fold, 1 inch Wide
No. 68—Round joint; middle plates; marked 8ths and 16ths inches; weight each 2 ounces.
Each $0.23

SPRING JOINT RULES
Lufkin "Red End"

Concealed Joints
Joints and strike plates of solid brass. Strike plates are small brass plates fastened to the flat surfaces of each rule section which prevent the wearing away of the lines and figures when opening and closing the rule.
Both colors have a beautiful gloss finish which will not crack, chip or blister. All ends are goss red.
Flexible; 6 inch folds, 5/8 inch wide; marked consecutive inches to 16ths, both sides.

Cream Enameded
Nos. 064 065
Length, feet 4 5 6
Each $0.40 .60

White Enameded
Nos. 064 066
Length, feet 4 5 6
Each $0.55 .65

Prices Subject to Market Changes

WOOD EXTENSION RULES
Interlox Master Slide

TWO RULES IN ONE

CONCEALED JOINTS

Flexible; 6 inch folds, 5/8 inch wide; steel trimmings; marked consecutive inches to 16ths, both sides.

Yellow Enameded
Nos. 574 575 576
Length, feet 4 5 6
Each $0.20 .25 .30

WHITE ENAMELED

No. 36—Square joint; marked 8ths, 10ths, 12ths and 16ths inches; weight each 1 ounce.
Each $0.65

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

DELIVERY PREPAID WITHIN 100 MILES—TO POINTS BEYOND CHARGES COLLECT
MEASURING TAPES
Universal Steel Tapes

With ¾ inch Steel Tapes
Marked feet, inches and 8ths, one side only. Instantaneous readings, Nubian finish. Metal lined case, covered with mottled, tan colored imitation leather, with ¾ inch wide, flat flush, nickel plated edge band. Nickel plated trimmings.

Folding flush handle, opened by pressing pin on opposite side. Guaranteed accurate.

NOS. 540 543 545 546
Feet 25 50 75 100
Weight, oz. 6 10 15 17
Each $2.00 2.25 3.10 3.85

PLUMB BOBS
Sargent

Hexagon steel, nickel plated; brass screw top.

NOS. 208 212
Weight, oz. 8 12
Each $0.60 .70

Starrett

Improved Mercury
These plumb bobs are made from solid steel, bored and filled with mercury. Noteworthy features are their great weight in proportion to size, low center of gravity, small diameter, hardened and ground points, knurling on the body and the simple and elegant form at top for fastening end of line after winding up. Nickel plated. Each is provided with a braided silk line.

No. 87—Length, inches... 4
Diameter, inches....... ¾
Weight each, oz. ....... 3½
Each $1.62

WOOD PLUMBS AND LEVELS
Stanley

Hardwood, Non-Adjustable, Proved Glasses
Polished hardwood small stock, ¼ x 2½ inch square brass top plate, plain side views, proved glasses, handy finger grips.

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<tr>
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<td>Weight, each, lbs</td>
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<td>Each</td>
<td>$1.15</td>
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Hardwood, Brass Tips, Non-Adjustable, Proved Glass
Polished hardwood small stock, 1¼ x 2½ inch square brass top plate, plain side views, brass tips on ends, proved glasses.

No. 104½-Length 12 inches; weight each ¾ pound. Each $1.60

Peerless Aluminum

With Solid Set Vials
Size of stock 1¼ x 2 inches. Large, white observation openings give perfect vision. Glasses can be easily read in extreme position or in poor light. All vials set solid and protected by heavy crystals, making the vials dirt, dust and waterproof. All level glasses are set in patented metal sockets. All vials are permanently marked; no wires to become loose. Oblong sight.

No. 24-Six glasses; length 24 inches; net weight each 2½ pounds.

One in a box.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
"GNOME BRAND" TOOL OUTFITS AND WORK BENCHES

All cabinets are substantially built of oak, (unless otherwise stated), varnished and finely finished, and the hardware fittings are of brass. The benches and combination benches are constructed of well-seasoned hard maple. The doors and drawers are well made and carefully fitted. They are shown as well as pictures permit, but you must really see to appreciate the appearance and enduring construction of our benches and cabinets. When closed, the cabinets are in keeping with any piece of finely finished furniture.

COMBINATION BENCH AND TOOL CABINET
"Gnome Brand"

No. 100

This combination bench cabinet is unique in construction. The illustration shows fully its many desirable features, among which are its conveniently arranged drawer and closet space, side opening and hinged top. Bench top of seasoned maple, absolutely rigid and supported by strong uprights which rest directly on the floor. When cabinet is closed, bench top as well as all tools are inside, thus making it a fine piece of polished furniture. Trimmed throughout with solid brass locks and handles.

Cabinet Dimensions—Length 47 inches, width 19 inches, height 35 inches. Wood vise with 1¾ inch screw and double bench stop; bench top is arranged for their adjustment. Outfits contain highest grade tools as per detailed list on opposite page.

Approximate shipping weight of cabinets complete with tools 375 pounds

Oak Cabinet

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<tr>
<td>No. 100—With tools</td>
<td>$250.00</td>
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<td>No. 0100—Cabinet only</td>
<td>$170.00</td>
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Walnut Cabinet

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<td>No. 100W—With tools</td>
<td>$280.00</td>
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<tr>
<td>No. 0100W—Cabinet only</td>
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Tools Only

| Description       | Set $90.00 |

List of Tools for Outfit No. 100

Awl, H. S. Co. Handled Brad, 1 ½ in.
Awl, Buck Bros. Handle Scratch
Bevel, Disston Sliding Tee, No. 3, 8 in.
Bits, Russell Jennings Auger, 4, 5, 6, 7, 8, 9, 10 and 12/16 in.
Bit, Clark's Expansive Large
Bits, H. S. Co. Gimlet, 2, 3, 4, 5, 6, 7 and 8/32nds.
Bits, B. M. Co. Screw Drivers, No. 10, 5/8 in.
Blade, Starrett, Hack Saw, No. 103, 8 in.
Bob, Sargent Brass Plumb, No. 5.
Box, Stanley Mitre, No. 150.
Brace, M. F. Co., Bit, No. 325.
Cork, Sandpaper, Small.
Countersink, B. M. Co. Rose, No. 10, 5/8 in.
Cutter, Glass, No. 2.
Divider, Winged, No. 106, 5 in.
Drill, M. F. Co. Hand, No. 1.
Drill, Cleveland Set of Bit Stock, No. 143.
Duster, H. S. Co. Bench, No. 10.
Files, K. & F. Handled.
Cabinet, 8 in.
Double Enders, 8 in.
Flat Bastard, 8 in.
Flat Bastard, 8 in.
Half Round Bastard, 6 in.
Half Round Bastard, 8 in.
Half Round Bastard, 8 in.
Round Bastard, 8 in.
Square Bastard, 8 in.
Warding Bastard, 4 in.
Frame, Starrett Hack Saw, No. 140.
Gauge, Stanley Marking, 4 1/4 in.
Gouges, Buck Bros. Firmer, No. 8, 1/2, 3/4 and 5/8 in.
Hammer, Hammond, Adze Eye Nail, No. 2.
Hammer, H. S. Co. Riveting, No. 1.
Hatchet, Hammond Half, No. 30-1.
Knife, Sloyd, No. 6.
Level, Stanley, No. 3, 22 in.
Line, Hank of Mason, No. 6.
Mallet, L. V., No. 4.
Oiler, Gem Brass, No. 1600B.
Pincers, Carpenters', No. 49, 6 in.
Planes, Stanley, Smooth, No. 4.
Jack, No. 5.
Block, No. 12.
Rabbet, No. 78.
Pliers
Combination, No. 1880, 7 in.
Flat Nose, No. 20, 5 in.
Round Nose, No. 50R, 5½ in.
Punch, Center, No. 10, 5/8 in.
Rasp, K. & F. Cabinet, 8 in.
Reamer, B. M. Co., Square, No. 40.
Rule, Stanley Boxwood, No. 54.
Saws
Disston Back, No. 4, 10 in.
Disston Compass, No. 2, 10 in.
Disston Hand Rip, No. 12, 24 in.
Disston Hand Cross Cut, No. 12, 24 in.
Disston Keyhole Pad, No. 10.
Scraper, Disston Cabinet, 3½ in.
Screw Drivers
Yankee, No. 95, 2½ in.
Yankee, No. 90, 4 in.
Yankee, No. 90, 6 in.
Set, H. S. Co., Nail, No. 10, 2 in.
Snips, Compton Tinners, No. 10.
Spokes, Stanley No. 67.
Squares
Sargent Steel Carpenter, No. 30.
Disston Try, No. 5¼, 6 in.
Disston Try, No. 5½, 8 in.
Stone, India Combination Oil.
No. 25.
Vise, Athol, No. 622½.
Wrenches
Williams' Machinist, 8 in.
Trimo Pipe, 10 in.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
COMBINATION BENCH AND TOOL CABINET
"Gnome Brand"

No. 75

Top of bench made of hard maple, bolted and glued together. Has rapid acting vise and adjustable metal planing stop. Cabinet made almost entirely of oak, with solid brass hardware except drawer pulls which are of oak.

Bench—Top 50 inches long, 22 inches wide, 2½ inches thick, tool recess at back 7 inches wide, height 33½ inches.

Drawers—Top and middle, 18½ x 16 x 6 inches; bottom, 29½ x 16 x 6½ inches, fitted with tool racks.

Cupboard—9½ inches wide, 16½ inches deep, 14 inches high.

Left End View

End tool racks have inside space, available for tools, 14½ inches wide, 22 inches high, 3 inches deep.

Approximate shipping weight of cabinet complete with tools 330 pounds.

Note—For tool contents see opposite page.

Prices Subject to Market Changes

List of Tools for Outfit No. 75

Awl, H. S. Co. Handled Brad, 1⅛ in.
Awl, H. S. Co. Handled Scratch, 2 in.
Bevel, Disston Sliding Tee, No. 2, 8 in.
Bits
Russell Jennings Auger, 4, 6 and 8/16ths.
Bit, Clark’s Expansive, Small.
Bit, H. S. Co. Gimlet, 4 and 6/32nds.
Bit, B. M. Co. Screw Driver, No. 16.
Blade, Starrett Hack Saw, No. 103, 8 in.
Box, Utility, No. 10.
Brace, M. F. Co., Bit, No. 323.
Chisel, Buck Bros. Firmer, No. 2, ¾, ½ and 1 in.
Countersink, B. M. Co. Rose, No. 16, ½ in.
Cutter, Glass, No. 2.
Divider, Winged, No. 106, 6 in.
Drill, M. F. Co. Hand, No. 1.
Files, K. & F., Handled.
Half Round Bastard, 8 in.
Slim Taper, 5½ in.
Warding Bastard, 4 in.
Frame, H. S. Co. Hack Saw, No. 100.
Gauge, Stanley Marking, No. 64½.
Gouge, Buck Bros. Firmer, No. 8, ½ in.
Hammers
Hammond Adze Eye Nail, No. 2.
H. S. Co. Riveting No. 0.
Hatchet, Hammond Half, No. 30-1.
Draw Knife, Buck Bros, No. 71½, 6 in.
Level, Stanley, No. 164, 18 in.
Mallet, Round Hickory, No. 4.
Oiler, Coppered Steel, No. 12.
Pincers, Carpenter, No. 49, 6 in.
Planes
Stanley Jack, No. 5.
Stanley Block, No. 18.
Plier, Combination, No. 1880, 7 in.
Rasp, K. & F. Cabinet, Handled, 8 in.
Reamer, B. M. Co. Square, No. 4.
Rule, Stanley Boxwood, No. 53.
Saw, Disston Back, No. 4, 10 in.
Saws
Disston Hand Rip, No. 7, 22 in.
Disston Hand Cross Cut, No. 7, 22 in.
Disston Keyhole Pad, No. 10.
Screw Drivers
Yankee, No. 30, 5 in.
Yankee, No. 35, 7½ in.
Set, H. S. Co., Nail, No. 10.
Squares
Sargent Steel Carpenters, No. 12.
Disston Try, No. 1, 6 in.
Stone, Carborundum Oil, Mounted, No. 122.
Vise, Stanley Jersey Special, No. 761-8.
Wrenches
Williams Machinist, 8 in.
Trimo Pipe, 10 in.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
MANUAL TRAINING OUTFIT
H. S. & Co.

No. 25A

The tools in this outfit are all of the highest grade, fully guaranteed.

Bench made of carefully selected and thoroughly seasoned maple, very rigid and strong. Fitted with Rapid Acting Head Vise.

While designed primarily for manual training use, it makes an excellent outfit for home use.

No. 25A—With 28 tools...$69.00

Tools Only

No. 025A—Bench only....$49.00

Set $22.00

Approximate shipping weight of bench complete with tools 200 pounds.

Contents of No. 25A Outfit

Buck Bros.Handled and Sharpened Firmer Chisels, No. 2, 3/4 and 1 in.
Buck Bros. Handled and Sharpened Firmer Gouge, No. 8, 3/4 in.
Disston Back Saw, No. 4, 10 in.
Disston Hand Saw, No. 7, 22 in.
Hammond Adze-eye Hammer, No. 3.
Stanley Iron Block Plane, No. 91/2.
Stanley Iron Smooth Plane, No. 3.
Imported Gimlet Bits, 3/4 and 1 in.
Russell Jennings Dowel Bits, 3/8 and 1/2 in.
Barber Nickel Plated Bit Brace, No. 223, 8 in.
Rose Countersinks, No. 10, 1/4 in.
Disston Hardened Blade Try Square, No. 61/4, 6 in.

Stanley Beech Marking Gauge No. 64 1/4.
Yankee No. 90 Screwdriver, 4 in.
Stanley Boxwood Rule, No. 18, 2 foot, 2 fold.
Round Hickory Mallet, No. 4.
P. 8 & W. Winged Dividers, No. 106, 6 in.
Bench Duster, No. 10.
H. S. & Co. Sloyd Knife, No. 7.
Stanley Iron Spokes, No. 53.
India Oil Stone, No. 29, in iron box.
Manual Training School Bench Style 8.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

MANUAL TRAINING OUTFITS
H. S. & Co.

We wish to impress upon all who are interested in manual training work, that the tools in these various outfits are all of the highest grade. Our hobby since 1848 has been to handle only the best, and our extended experience has proven time and again that only the best tools obtainable should be used for manual training. In the hands of beginners, tools are usually put to severe and undue strain and unless quality is there they are bound to give way. Every tool is warranted to be perfect.

Equipment for Class of 10 Pupils

Individual Tools

1 Buck Bros. Handled and Sharpened Firmer Chisel, 1/2 in.
1 Buck Bros. Handled and Sharpened Firmer Gouge, 1 in.
1 Disston Back Saw, No. 4, 10 in.
1 Hammond Adze Eye Hammer, No. 3.
1 Stanley Iron Block Plane, No. 9 1/2.
1 Stanley Iron Smooth Plane, No. 3.
1 Stanley Iron Spokes, No. 53.
1 Imported Gimlet Bits, 1/2 in.
1 Imported Gimlet Bits, 1/4 in.
1 Russell Jennings Genuine Dowel Bits, 1/4 in.
1 Russell Jennings Genuine Dowel Bits, 1/2 in.
1 Barber Nickel Plated Braces, No. 223, 8 in.
1 Disston Hardened Blade Try Squares, No. 61/4, 6 in.
1 Stanley Beech Marking Gauges, No. 64 1/4.
1 Harwood No. 29 Screw Driver, 4 in.
1 Stanley Boxwood Rules, No. 18, 2 foot, 2 fold.
1 Round Hickory Mallets, No. 4.
1 H. S. & Co. Maple Bench Hook.
1 H. S. & Co. Handled Brad Awl, 3/8 in.
1 Winged Dividers, No. 106, 6 in.
1 Bench Dusters, No. 10.
1 H. S. & Co. Sloyd Knives, No. 7.

Class Tools

1 Buck Bros. Handled and Sharpened Firmer Chisel, 1/2 in.
1 Buck Bros. Handled and Sharpened Firmer Gouge, 1 in.
1 Disston Crosscut Saw, No. 7, 22 in.
1 Disston Rip Saw, No. 7, 22 in.
1 M. F. Co. Turning Saw, 14 in. with blade.
1 Stanley Iron Rabbet and Fillet Plane, No. 78.
1 Russell Jennings Genuine Dowel Bits, 1/4 in.
1 Russell Jennings Genuine Dowel Bits, 1/2 in.
1 Imported Gimlet Bits, 1/2 in.
1 Handled K. & F. Flat Bastard File, 8 in.
1 Handled K. & F. Half-round Bastard File, 8 in.
1 Handled K. & F. Round Bastard File, 8 in.
1 Handled K. & F. Square Bastard File, 8 in.
1 Rose Countersinks, No. 10, 1/4 in.
2 Medium India Oil Stones, No. 20, mounted in metal boxes.
1 Disston Sliding T-Bevel, No. 2, 3 in.
4 Genuine Jorgensen Adjustable or Rigid Hand Screws, 10 in.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
TOOL OUTFIT AND CABINET
"Gnome Brand"

Contents of No. 10 Outfit

Awl, H. S. & Co., handled brad, 1¼ inches
Bits, Russell Jennings Dowel, 6-16 and 8-16 inch
Bits, H. S. & Co., Gimlet, 4-32 and 6-32 inch
Bit, B. M. & Co., Screw Driver, No. 10, ½ inch
Brace, M. F. Co., No. 1323
Chisel, Buck Bros., Firmer, No. 2, ¾, ½ and ⅜ inch
Countersink, No. 315, ½ inch
Divider, Winged, No. 106, 6 inch
File, K. & F., Half Round Bastard, 6 inch, with handle

Contents of No. 12 Outfit

Awl, H. S. & Co., Handled Brad, 1¼ inch
Bits, Russell Jennings Dowel, 6-16 and 8-16 inch
Bits, H. S. & Co., Gimlet, 4-32 and 6-32 inch
Bit, B. M. & Co., Screw Driver, No. 10, ½ inch
Brace, M. F. Co., No. 1323
Chisel, Buck Bros., Firmer, No. 2, ¾, ½ and ⅜ inch
Countersink, No. 315, ½ inch
Divider, Winged, No. 106, 6 inch
File, K. & F., Half Round Bastard, 6 inch, with handle

Prices Subject to Market Changes
TOOL OUTFIT AND CABINET
"Gnome Brand"

No. 14

Dimensions of cabinet, 16 inches long and 8 1/2 inches wide. Walnut finished cabinet, fitted with carrying handle, and contains the tools described below.

No. 14—Complete, with tools ........................................... Each $46.00
No. 014—Chest only ..................................................... Each 12.50
Tools only .............................................................. Set 34.50

Contents of No. 14 Outfit

Utility Box No. 2 complete.
Bits, R. & J. Dowel, length 4-16, 6-16
and 8-16 in.
Bits, Stanley, Screw Driver, No. 26, 5/8
in.
Brace, M. F. Co., No. 34, 6 in.
Chisels, Buck Bros., Tang Firmer, No. 4, 3/4 and 3 1/4 in.
Chisel, H. S. & Co., Octagon, No. 100, 15 in. long
Claw, H. S. & Co., Tack, No. 124 1/4
Drill, Yankee, No. 41
Drill, Yankee, No. 1330
Drills, Cleveland, No. 22 set
Divider, No. 92, 6 in.

Counterstank, No. 315, 3/8 in.
File, K. & F., Half Round Bastard, 6 in., with handle
Hammer, No. ON171
Plane, Stanley, No. 18
FILE, Vacuum Grip, No. 36, 6 in.
Punch, Center, No. 204C
Ruler, No. 64, 2 ft.
Screw Driver, Yankee, No. 30A
Screw Driver, Yankee, No. 35, 3 1/4 in.
Saw, No. 101, 18 in.
Set, Nails, No. 205C
Stone, No. 106
Wrench, B. & S., No. 2, 7 1/2 in.
Square, No. 21, 9 in.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

TOOL OUTFIT AND CABINET
"Gnome Brand"

No. 16

Outside dimensions of cabinet, 29 1/2 inches high, 18 inches wide, 8 1/2 inches deep. Made of oak, and contains the tools as described below.

No. 16—Complete, with tools ............................................. Each $53.00
No. 016—Cabinet only .................................................. Each 22.00
Tools only ......................................................................... Set 32.00

Contents of No. 16 Outfit

Awi, H. S. & Co., Handled Brad, 3 1/2 in.
Bits, Russell Jennings, 4, 6 and 8-16 in.
Bits, Gimlet, 4 and 6-32 in.
Bits, Screw Driver, No. 10, 7/8 in.
Brace, M. F. Co., No. 1280
Chisels, Buck Bros., Firmer, No. 2, 1 1/2 and 3/8 in.
Counterstank, No. 315, 3/4 in.
Divider, Winged, No. 106, 6 in.
File, K. & F., Half Round Bastard, 6 in., with handle
Drill, Hand, No. 313
Plane, Stanley Jack, No. 4
Plane, Stanley Block, No. 9 1/2
Oiler, Coppered Steel, No. 12
Plier, Jordan, No. 1002, 1/2 in.
Rasp, K. & F., Cabinet, 8 in., with handle
Reamer, B. M. Co., Square, No. 40
Rule, Folding National, No. 574, 4 ft.
Saw, Black Diamond, No. 705, 20 in.
Saw, Disston Keyhole Pad, No. 10
Screw Driver, Stanley, No. 20, 4 in.
Screw Driver, Stanley, No. 20, 6 in.
Set, Nails, No. 10, Size 2
Square, Combination, No. 94, 12 in.
Sand Paper Block, Johnson's
Lovel, Stanley, No. 164
Hammer, Hammond, Adze Eye, No. 2
Hammer, H. S. & Co., Riveting, No. 0
Gauge, Stanley Marking, No. 64 1/2
Gouge, Back Bros., Firmer, No. 8, 3/4 in.
Stone, Pike Oil Washita, No. 6
Jersey Vise, Stanley, No. 741
Wrench, Knife Handle, Monkey, 6 in.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
TOOL OUTFIT AND CABINET
"Gnome Brand"

No. 18

The cabinet for this outfit is made of solid oak, with locked corners; is trimmed in brass, well finished, and high grade in every detail. The outside dimensions are 33 inches in height, 22 inches wide, and 10 inches deep, and the door is divided to open in the center. When open, the width across entire front is 44½ inches. There is room in the drawer for the utility box No. 2, a small tray divided into compartments for holding an assortment of nails, tacks, hooks and screws, and this box, filled, is included with each outfit. The illustration shows 52 different tools and their compact arrangement.

The tools in this outfit are the best obtainable.

Each

No. 18—With tools............$78.00
No. 018—Cabinet only............$31.00

Tools Only .................................................Set $48.50

Approximate shipping weight of cabinet complete with tools 125 pounds.

Note—For tool contents see opposite page.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East
HOUSEHOLD TOOL CHEST
"Gnome Brand"

No. 8

his Household Tool Chest was designed to take care of almost all the odd jobs which occur about the average house. All of the tools are of excellent quality, and the assortment of nails, screws, vices, etc., is the same as in Box No. 6 shown on page 81. All fitted in a nicely varnished oak box with sliding tray and carrying handle; outside dimensions 15 inches long, 10½ inches wide, 5 inches deep.

—Complete, with 11 tools as described below.............Each $16.00

Contents of No. 8 Outfit

<table>
<thead>
<tr>
<th>Tool</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hammond Hammer</td>
<td>1</td>
</tr>
<tr>
<td>Rule</td>
<td>1</td>
</tr>
<tr>
<td>Cutting Pliers</td>
<td>1</td>
</tr>
<tr>
<td>Automatic Drill</td>
<td>1</td>
</tr>
<tr>
<td>Disston Handy Saw</td>
<td>1</td>
</tr>
<tr>
<td>Stanley Plane</td>
<td>1</td>
</tr>
<tr>
<td>Half Round File</td>
<td>1</td>
</tr>
<tr>
<td>Half Round File, with handle</td>
<td>1</td>
</tr>
<tr>
<td>Stanley Screw Driver</td>
<td>1</td>
</tr>
<tr>
<td>Brad Awl</td>
<td>1</td>
</tr>
<tr>
<td>Chisel</td>
<td>1</td>
</tr>
<tr>
<td>Stillson Wrench</td>
<td>1</td>
</tr>
</tbody>
</table>

Prices Subject to Market Changes

No. 6—Complete, as described above..........................Each $7.75

Contents of No. 6 Household Utility Tool Chest

<table>
<thead>
<tr>
<th>Tool</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hammond Hammer</td>
<td>1</td>
</tr>
<tr>
<td>Hand Gimlet</td>
<td>1</td>
</tr>
<tr>
<td>Stanley Screw Driver</td>
<td>1</td>
</tr>
<tr>
<td>Side Cutting Pliers</td>
<td>1</td>
</tr>
<tr>
<td>4 foot Folding Rule</td>
<td>1</td>
</tr>
<tr>
<td>Half Round File, with handle</td>
<td>1</td>
</tr>
<tr>
<td>6 inch Metal Cutting Saw</td>
<td>1</td>
</tr>
<tr>
<td>Tuba Du Pont Household Cement</td>
<td>1</td>
</tr>
<tr>
<td>Roll Friction Tape</td>
<td>1</td>
</tr>
<tr>
<td>Push Pins</td>
<td>1</td>
</tr>
<tr>
<td>Pushless Hangers</td>
<td>1</td>
</tr>
<tr>
<td>Tacks</td>
<td>1</td>
</tr>
<tr>
<td>Glue Nails</td>
<td>1</td>
</tr>
<tr>
<td>Thumb Tacks</td>
<td>1</td>
</tr>
<tr>
<td>Kitchen Hooks</td>
<td>1</td>
</tr>
<tr>
<td>3 sizes of Cup Hooks</td>
<td>1</td>
</tr>
<tr>
<td>4 sizes of Screw Eyes</td>
<td>1</td>
</tr>
<tr>
<td>19 sizes of Nickel Plated Brass and Iron, Round and Flat Head</td>
<td>1</td>
</tr>
<tr>
<td>Wood Screws</td>
<td>1</td>
</tr>
<tr>
<td>3 sizes of Nails most needed about the house</td>
<td>1</td>
</tr>
</tbody>
</table>

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles— to Points Beyond Charges Collect
NEW LOW PRICES ON TOOL OUTFITS AND CABINETS

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10 Complete</td>
<td>$21.25</td>
</tr>
<tr>
<td>#010, Empty</td>
<td>9.00</td>
</tr>
<tr>
<td>#12, Complete</td>
<td>21.25</td>
</tr>
<tr>
<td>#012, Empty</td>
<td>9.00</td>
</tr>
<tr>
<td>#14, Complete</td>
<td>42.25</td>
</tr>
<tr>
<td>#014, Empty</td>
<td>8.75</td>
</tr>
<tr>
<td>#16, Complete</td>
<td>44.25</td>
</tr>
<tr>
<td>#016, Empty</td>
<td>13.25</td>
</tr>
<tr>
<td>#18, Complete</td>
<td>67.25</td>
</tr>
<tr>
<td>#018, Empty</td>
<td>20.25</td>
</tr>
</tbody>
</table>

Prices Subject to Market Changes

Hammacher, Schlemmer

Fourth Avenue at 13th Street also at 57th Street—145-147 East

HOUSEHOLD TOOL CHEST
"Gnome Brand"

To take care of almost every need in the average house. All of the tools needed for putting in nails, screws, nails, etc., are shown on page 81. All fitted in a sturdy tray and carrying handle; outside dimensions 13 3/4 inches long, 9 3/4 inches wide, 5 inches deep.

All fitted in a nicely varnished, solid oak box with hinged cover; outside dimensions 13 3/4 inches long, 9 3/4 inches wide, 2 inches deep.

Contents of No. 6 Household Utility Tool Chest

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hammond Hammer</td>
<td></td>
</tr>
<tr>
<td>Hand Gimlet</td>
<td></td>
</tr>
<tr>
<td>Stanley Screw Driver</td>
<td></td>
</tr>
<tr>
<td>Side Cutting Pliers</td>
<td></td>
</tr>
<tr>
<td>4 foot Folding Rule</td>
<td></td>
</tr>
<tr>
<td>Half Round File, with handle</td>
<td></td>
</tr>
<tr>
<td>6 inch Metal Cutting Saw</td>
<td></td>
</tr>
<tr>
<td>Tube Du Pont Household Cement</td>
<td></td>
</tr>
<tr>
<td>Roll Friction Tape</td>
<td></td>
</tr>
<tr>
<td>Push Pins</td>
<td></td>
</tr>
<tr>
<td>Pushless Hangers</td>
<td></td>
</tr>
<tr>
<td>Tacks</td>
<td></td>
</tr>
<tr>
<td>Gold Nails</td>
<td></td>
</tr>
<tr>
<td>Thumb Tacks</td>
<td></td>
</tr>
<tr>
<td>Kitchen Hooks</td>
<td></td>
</tr>
<tr>
<td>3 sizes of Cup Hooks</td>
<td></td>
</tr>
<tr>
<td>4 sizes of Screw Eyes</td>
<td></td>
</tr>
<tr>
<td>19 sizes of Nickel Plated Brass and Iron, Round and Flat Head</td>
<td></td>
</tr>
<tr>
<td>Wood Screws</td>
<td></td>
</tr>
<tr>
<td>3 sizes of Nails most needed about the house</td>
<td></td>
</tr>
</tbody>
</table>

No. 6—Complete, as described above.........................Each $7.75

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
HOUSEHOLD UTILITY TOOL CHEST
"Gnome Brand"

No. 4

For those who do not require such a diversified assortment of tools, we offer Utility Box No. 4 which contains 4 tools and a generous assortment of nails, screws, tacks, hooks, etc., as described below.

All fitted in a nicely varnished, solid oak box with hinged cover; outside dimensions, 15¼ inches long, 7½ inches wide, 1¾ inches deep.

Contents of No. 4 Household Utility Tool Chest

<table>
<thead>
<tr>
<th>Tool Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Household Hammer</td>
<td>Thumb Tacks</td>
</tr>
<tr>
<td>Hand Gimlet</td>
<td>Kitchen Hooks</td>
</tr>
<tr>
<td>Screw Driver</td>
<td>3 sizes of Cup Hooks</td>
</tr>
<tr>
<td>4 foot Folding Rule</td>
<td>4 sizes of Screw Eyes</td>
</tr>
<tr>
<td>Tube of Le Page's Glue</td>
<td>10 sizes of Nickel Plated Brass and Iron, Round and Flat Head</td>
</tr>
<tr>
<td>Roll Friction Tape</td>
<td>Wood Screws</td>
</tr>
<tr>
<td>Push Pins</td>
<td>3 sizes of Nails most needed about the house</td>
</tr>
<tr>
<td>Pushless Hangers</td>
<td></td>
</tr>
<tr>
<td>Tacks</td>
<td></td>
</tr>
<tr>
<td>Gilt Nails</td>
<td></td>
</tr>
</tbody>
</table>

No. 4—Complete, as described above...........................................Each $5.50

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

Delivered Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East

HOUSEHOLD UTILITY BOX
"Gnome Brand"

No. 2

Utility Box No. 2 is a handy nail and screw box, fitted with 16 compartments and slide cover; outside dimensions, 15 inches long, 7 inches wide, 1¾ inches deep.

Contains assortment of brads, nails, screws and tacks as listed below.

Contents of No. 10 Household Utility Box

<table>
<thead>
<tr>
<th>Tool Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll Friction Tape</td>
<td>3 sizes of Cup Hooks</td>
</tr>
<tr>
<td>Push Pins</td>
<td>4 sizes of Screw Eyes</td>
</tr>
<tr>
<td>Pushless Hangers</td>
<td>10 sizes of Nickel Plated Brass and Iron, Round and Flat Head</td>
</tr>
<tr>
<td>Tacks</td>
<td>Wood Screws</td>
</tr>
<tr>
<td>Gilt Nails</td>
<td>3 sizes of Nails most needed about the house</td>
</tr>
<tr>
<td>Thumb Tacks</td>
<td></td>
</tr>
<tr>
<td>Kitchen Hooks</td>
<td></td>
</tr>
</tbody>
</table>

No. 2—Complete, as described above.................................Each $2.25

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.
POCKET TOOL KITS
In Leather Cases

Tool holder with rosewood handle. All tools of best quality, fully warranted.

NO. 350—Consists of tool holder, knife blade, combination flat file and screw driver, hammer, small screw driver, saw blade, gimlet bit, chain nose plier, 4 inch reamer and chisel 3/4 inch. Each $6.50

NO. 450—Consists of tool holder with knife blade, combination flat file and screw driver reamer, small screw driver, chisel 3/4 inch, saw blade, hammer, gimlet bit, combination piler 3/4 inch, three cornered file and adjustable monkey wrench. Each $8.60

NO. 600—Consists of tool holder, knife blade, hammer, chisel, screw driver, can opener, three cornered file, combination flat file and screw driver, reamer, gimlet bit and saw blade all interchangeable in tool holder; also end nippers, round nose pliers, ruler and sharpening stone. Each $10.00

NO. 485—Consists of brown leather case, beechwood handle, hammer, chisel, round file, combination flat file, two screw drivers, one each large and small reamer, two gimlet bits, saw blade, 5 inch combination piler, adjustable wrench oil can, cold chisel and compass, all interchangeable in handle; tools are of best quality—fully warranted. Each $11.50

Prices Subject to Market Changes

HOLLOW TOOL HANDLES
Millers Falls

Nickel plated steel chuck and jaws. The socket and shell threads are carefully cut in order to mesh perfectly and insure holding the shell tight against the jaws.

Cocobolo handle, shaped to fit the hand comfortably, and with exceptionally smooth, highly polished surfaces. Threads on screw caps are deep and clean cut.

Tools are of high grade steel carefully tempered and honed to a keen cutting edge.

No. 5—Consists of handle and ten tools as illustrated, length of handle 7 1/2 inches; length of tools 4 inches; weight each 14 ounces. Each $2.40

No. 4—Consists of handle and ten tools as illustrated, length of handle 6 1/4 inches; length of tools 2 1/4 inches; weight each 10 ounces. Each $1.75

AWLS
Stanley "Hurwood"

Blade, shank and head formed of one piece of steel, carefully tempered point; two patent projecting wings under head, together with a rivet passing through the steel ferrule, handle and shank, securely fasten the blade in the handle. Handle stained black.

BRAD AWLS
Hurwood

SCRATCH AWLS
Hurwood

Flat Point

No. Length blade, inches. Length over all, inches. Weight, each, oz.

17 1 3/4 5 2

Each $0.32

Needle Point

No. Length blade, inches. Length over all, inches. Weight, each, oz.

6 2 7/8 6 2/3 3

Each $0.35

SCRATCH AWLS
Buck Bros.

Forged steel blade, maple handle, heavy ferrule.

No. 86—Length of blade 4 inches, length over all 7 inches; weight each 2 ounces. Each $0.17

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
AUDELS CARPENTERS AND BUILDERS GUIDES

Tools, Steel Square, Saw Filing
Subjects Covered—How to know and use the different woods—complete information on nails and screws—how to use and sharpen tools—how to file and set saws—how to make and use calipers—to build furniture—how to make a tool box, work benches and trestles—how to make a mitre box and mitre shooting board—how to plumb and level—how to use chalk line—how to lay out work—how to use rules—how to use vises and clamps—how to use all the carpenter's tools with over 900 illustrations showing how. Basic information that every carpentry worker must have.

Guide No. 1—431 pages, 1200 illustrations

Guide No. 2—Arithmetic, Drawing Plans
Subjects Covered—How to understand carpenter's arithmetic—how to understand geometry—how to understand trigonometry—how to solve mensuration problems—how to estimate the strength of timbers—how to proportion beams—how to use drawing instruments—how to read plans—how to survey—how to draw up specifications—how to estimate costs—how to build houses, barns, garages, bungalow, etc.—specification tables—building suggestions with elevations.

Guide No. 2—455 pages, 400 illustrations

Guide No. 3—Framing, Laying Out Work
Subjects Covered—How to excavate and build foundations—how to waterproof—how to build forms for concrete—how to frame houses—how to set girders and sills and frame joints—how to construct a well hole—how to build scaffolds—how to frame braces, girts and rib bands—how to use the settings 12, 13 and 17 on the steel square—how to lay out mitre cuts—how to use tangents.

Guide No. 3—255 pages, 400 illustrations

Guide No. 4—Doors, Windows, Stairs, Millwork
Subjects Covered—How to put on wood, slab and metal shingles—how to lay gravel roofs—how to lay tin roofs—how to hang doors—how to put on exterior trim—how to do cornice work—how to build stairs—how to lay how to lay floors—how to put on interior trim—how to paint—how to give first aid to the injured.

Guide No. 4—448 pages, 400 illustrations

Prices Subject to Market Changes

Book of Instructions

How to Work with Tools and Wood—for the Home Workshop

This book is a manual for the home workman, giving him complete information on the use and care of wood working tools. It contains 168 pages and over 450 illustrations which explain in a straightforward manner all the processes of working with tools and wood. The book was written by a practical man who knows wood-working and how to use tools. It is durably bound in dark blue cloth binding and is written in non-technical and simple language that all may understand.

Each

W O O D C A R V I N G

With Suggestions in Chip Carving
(By Thomas C. Simmonds)

This book is devoted to wood carving, with suggestions in chip carving, and contains many illustrations and full descriptions of the woods, tools, etc., used in wood and chip carving, with an entire chapter on the sharpening and care of tools.

91 pages, 5½ x 7½ inches, postpaid

Each

BOOKS FOR THE HOME WORKSHOP

Popular Mechanic Boat Book

Each

The Boy Mechanic—Volumes 1, 2, 3, 4 (set of 4 volumes)

Set

Carpenters' Handbook

Each

Household Carpentry Guide

Each

Wood Working for Amateur Carpenters

Each

Concrete Handbook

Each

Built-In Furniture

Each

How to Make Mission Furniture (volumes)

Set

Art Crafts Lamps

Each

Lamps and Shades

Each

Lathe Handbook

Each

Home Mechanics

Each

Practical Uses of the Steel Square—Volumes 1, 2

Each Volume

Fix It Yourself

Each

Make It Yourself

Each

Course in Wood Turning

Each

F R E T S A W D E S I G N S

H. S. & Co.

(In Book Form)

Size A—For beginners, showing 12 different designs

Each

Size B—a larger size book having a greater variety of larger and more complicated designs

Each

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
WORK BENCHES

H. S. & Co.

We call attention to the superior quality of our Benches. They are not the ordinary kind made to sell in competition with the cheapest, but are made of seasoned stock, carefully and scientifically put together. The lumber is cut and prepared before use, giving sufficient time to dry and cure, and will not warp or crack after a short period, as the inferior and cheaper-priced benches so often do. We take pleasure in recommending them to the most particular.

(Cut shows Style B)

Style B

Substantially built of hard white northern maple, thoroughly seasoned. Glued and well finished, working top 16 inches wide; tool recess 8 inches wide; top over all 78x24 inches; height 34 inches; legs 2x3 inches. Two wood bench vises; no drawer.

Style B—With two medium stops and wooden bench screws; shipping weight 180 pounds.

Each ............................................ $36.00

No. BB—Same as Style B, except has 2 iron instead of wooden bench screws........Each $36.00

Style E

Imported, hand made of Austrian red beech, waxed finish. Uprights made of 4 inch square timbers. Top, exclusive of vise, 78x24 inches, 2½ inches thick, 6 inch recess, 33 inches high; two iron stops. Head vise 22 inches wide, opens 10 inches, provided for equalizing strain when work is clamped at one end.

Tail vise 6⅛ inches wide, opens 9½ inches, with locked corners. Drawer 15 inches wide, 13½ inches deep, 4½ inches high.

Style E—Weight 230 pounds............................ Each $55.00

Style M

Similar to style B but smaller. Made of maple. Top exclusive of vises is 51 inches long; 20 inches wide, 2¼ inches thick, 6 inch recess; height 33 inches. Has two wood stops. Head vise 14 inches wide, opens 12 inches. Tail vise 6 inches wide, opens 6½ inches.

Style M—Weight 115 pounds.......................... Each $33.00

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

WORK BENCHES

No. 102

Designed primarily for the home work shop. Made of well seasoned maple throughout, fitted with Rapid-Acting Vise and Steel Bench Dog. Top 42 inches long, 22 inches wide, 13½ inches thick, with 7 inch recess. Drawer 9⅞ inches high, 22 inches wide, and 19 inches deep.

No. 102—Weight 110 pounds...........................................Each $28.00

No. 104

An excellent bench for home use. Made of maple. Top 52 inches long, 22 inches wide, 2⅛ inches thick, with 7 inch recess. Drawers measure 5 inches high, 17 inches deep, 32 and 15½ inches long. Stands 32 inches high. Fitted with No. 3 Rapid Acting Vise, Steel Dog and Malleable Bench Stop.

No. 104—Weight 215 pounds...........................................Each $52.00

Prices Subject to Market Changes

COMBINATION BENCHES AND CABINETS

"Gnome Brand"

Style S

Top drawer, 18 inches wide, 15½ inches deep, 4⅛ inches high. Middle drawer, 18 inches wide, 15⅛ inches deep, 4½ inches high. Bottom drawer, 20 inches wide, 15¾ inches deep, 6⅜ inches high. Cupboard, 10 inches wide, 18 inches deep, 11¼ inches high. Head vise No. 230, size 2, maple faced, rapid acting.

Top, 48 inches long, 18 inches wide, 2 inches thick, with 6 inch recess.

Each $10.00

Style P—Same as Style S except that head vise is similar to one on Style J shown on page 89.

Each $15.00

No. 075

Bench top 50x22 inches, 2¾ inches thick; height 33½ inches. Equipped with rapid acting vise and adjustable metal planing stop. Cabinet made almost entirely of oak, with solid brass hardware, except drawer pulls which are of oak.

Bottom drawer fitted with saw racks and is 29½x16x6½ inches. Top and middle drawers 18½x16x9 inches. Cupboard 9½x16½x14 inches. End tool racks 14¼ inches wide and 22 inches high, inside measurements.

No. 075—Approximate weights: boxed, 275 pounds; not boxed, 200 pounds...........................................Each $67.50

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

WORK BENCH

Juvenile

Made of seasoned hardwood throughout, nicely varnished. Top consists of glued-up wood pieces, matched on end, making a dent-proof and lasting surface. Shipped knocked down top and vise complete. Legs and frame fit together with bolts. Can be quickly assembled into a rigid and solid work bench.

No. 40—Length 40 inches; width 16¾ inches; height 28¼ inches; thickness of top 1¾ inches; drawer 26½x15½x4½ inches; iron screw vise opens 5 inches; individual weight 65 lbs...Each $17.00

MACHINIST OR GARAGE BENCH

H. S. & Co.

Made of hard maple, shelled top, 48 inches long, 23 inches wide and 2 inches thick. Stands 38 inches high. Three drawers, each 23 inches wide, 19 inches deep, 8 inches high. Cupboard, 30 inches high, 20 inches deep and 10½ inches wide.

No. 28—Without vise.
   Each $39.00

No. 27—With one drawer.
   Each $24.00

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

WOODWORKERS VISES

Richards-Wilcox Rapid Action Sliding Vise, Quick Acting Nut


Best gray iron jaws with ground and finished working surfaces. Screw 1 inch diameter; four threads to the inch.

With Stop in Front Jaw

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Width jaws, inches</th>
<th>Depth, inches</th>
<th>Opens, inches</th>
<th>Weight each, lbs.</th>
<th>Each</th>
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</thead>
<tbody>
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<td>4308-2</td>
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<td>12</td>
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<td>$8.20</td>
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</table>

Without Stop

<table>
<thead>
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<th>Nos.</th>
<th>Width jaws, inches</th>
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<th>Opens, inches</th>
<th>Weight each, lbs.</th>
<th>Each</th>
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<tbody>
<tr>
<td>430-2</td>
<td>10</td>
<td>5</td>
<td>12</td>
<td>42</td>
<td>$7.55</td>
</tr>
</tbody>
</table>

Sheldon Rapid Acting Vise

Constructed on the principle of a machinists' vise, outer jaw and slide being in one piece. When vise jaw is brought in contact with work, the first part of movement of handle raises milled rack into engagement with a 14-tooth steel section. The following part of movement draws front jaw against work by means of cam in front of handle. The movement of slide is absolutely free when handle is in vertical position. Holes through jaws permit wooden faces to be easily attached.

With Stop

Jaws 3x7 inches.

No. 3—Opens 8½ inches; weight 27 pounds......Each $8.35

Without Stop

Jaws 3x7 inches.

No. 4—Opens 9 inches; weight 25 pounds......Each $7.15

Cut shows No. 3.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
BENCH VISES
Stanley

Clamp Base
Cold rolled steel screw, square thread; malleable nut; split washer takes up wear.

Iron Jaws

No. | Jaws, in. Wt., lbs. | Each
--- | ------------------ | ----
741 | 1 1/4             | $1.30

Steel Jaws

No. | Jaws, in. Wt., lbs. | Each
--- | ------------------ | ----
761 | 1                | $1.65
762 | 1 1/2            | 1.90
763 | 2                | 2.20
765 | 2 1/2           | 3.00
766 | 3                | 4.50

HANDY VISES
Champion

A practical woodworkers vise. Can be carried in the carpenters kit. Fastens to anything from 3/4 to 2 1/4 inch thick, bench, scaffold, buck, etc.

No. 555—Iron jaws; weight 4 pounds..............Each $3.00

No. 655—Aluminum jaws; weight 2 3/4 pounds...........Each $5.00

MACHINISTS VISES
Athol

Stationary Jaw, Swivel Base
Semi-steel casting; tool steel jaw faces welded to vise.

No. | Width jaw, inches | Jaws open, inches | Weight, lbs |
--- | ------------------ | ----------------- | -----------
623 | 2                 | 3                | 16          |
623 1/2 | 2 1/2          | 3 1/2           | 16 1/2      |

Each | $10.20 | 11.05

Stationary Jaw and Base
Semi-steel casting; tool steel jaw faces welded to vise.

No. | Width jaw, inches | Jaws open, inches | Weight, lbs |
--- | ------------------ | ----------------- | -----------
613 | 3                 | 4                | 22          |
614 | 4                 | 6                | 22 1/2      |

Each | $8.50 | 10.55

HAND SCREWS
Jorgensen Peerless Adjustable

Adjustable to Any Angle or Position
Nearly twice as fast as any other hand screw made, its spindles being equipped with a right and left hand thread. Its jaws can be adjusted to any angle, thus doing away with the necessity of squaring up irregular surfaces, which every other clamp requires. Hard maple jaws, oil finish; spindles and sockets made of steel, right and left hand.

No. | Jaws open, inches | Length jaws, in. | Weight each, lbs |
--- | ----------------- | ---------------- | ---------------
5/0 | 2                | 4               | 1/2            |
4/0 | 2 1/2            | 5               | 1/2            |
3/0 | 3                | 6               | 1/2            |
2/0 | 3 1/2            | 7               | 1              |
1   | 4                | 8               | 4 1/4          |
2   | 4 1/2            | 10              | 4 1/4          |
3   | 5                | 12              | 4 1/4          |
4   | 6                | 14              | 4 1/4          |
5   | 7                | 16              | 4 1/4          |

Each | $0.95 | 1.00 | 1.15 | 1.25 | 1.30 | 1.50 | 1.70 | 1.90 | 2.25 | 2.65

Note—Can also be furnished Rigid Non-adjustable, prices on application.

SAW FILING GUIDES
Disston

Guide and Clamp Complete
Especially designed to assist those not skilled in the art of saw-filing to file a saw correctly. Use a 5 1/2 inch slim taper file.

No. D3—Length of jaw 12 1/2 inches; complete with filing guide, clamp, file and handle........Each $4.75

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
CARPENTERS CLAMPS
Steams "T" Steel Bar

Regular Size
Special quality stiff steel "T" bar, 2 x 1 1/2 inches; malleable iron sliding jaws and pawl; 3/8 inch steel screw.

No. 1—Opens, feet.... 1 1/2 2 3 4 5
Weight each, lbs....... 6 7 8 9 10
Each................. $2.10 2.15 2.20 2.30 2.50 2.90

SCREW CLAMPS
Carriage Makers

Malleable iron, with ball and socket swivel.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Open.</th>
<th>Depth.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>2</td>
<td>1 1/2</td>
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</tr>
<tr>
<td>12</td>
<td>2 1/2</td>
<td>1 1/2</td>
<td>.30</td>
</tr>
<tr>
<td>13</td>
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<td>14</td>
<td>4</td>
<td>2 1/2</td>
<td>.45</td>
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<td>5</td>
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<td>.90</td>
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<td>8</td>
<td>3 1/2</td>
<td>1.15</td>
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<tr>
<td>19</td>
<td>10</td>
<td>3 1/2</td>
<td>1.45</td>
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<tr>
<td>22</td>
<td>12</td>
<td>3 1/2</td>
<td>1.85</td>
</tr>
</tbody>
</table>

CLAMP FIXTURES
Pony Steel Bar

Foot with Multiple Disc Clutch
Can be assembled on regular 3/4 inch iron pipe without tools or changed quickly from one pipe to another. Longer or shorter clamps, or repairs to damaged clamps are most readily made. Pipe can be coupled in lengths to make a "take-down" clamp. Malleable iron castings, enameled, with steel screws, Acute type threads.

No. 500—Head and tail, without pipe Set $1.80

DRAFTSMENS CLAMPS
Handy

Malleable iron, steel screw, swivel head.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Open.</th>
<th>Depth.</th>
<th>Each</th>
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</thead>
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<td>2</td>
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<td>2 1/4</td>
<td>2 1/4</td>
<td>.15</td>
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</table>

GLUING CLAMPS
Handy Stamped Steel

Oil tempered spring. Take the place of old style hand-screws and are very useful for holding glued joints.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Length.</th>
<th>Opens.</th>
<th>Each</th>
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<tbody>
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<tr>
<td>2</td>
<td>2 3/4</td>
<td>3</td>
<td>.30</td>
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</tbody>
</table>

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

CARPENTER TOOL BOXES

H. S. & Co.
Suit Case Pattern
These chests are substantially made of ash, with locked corners and leather handles and are conveniently shaped for carrying. All tops are divided as in illustration.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Approximate length inside, inches</th>
<th>Approximate width inside, inches</th>
<th>Approximate depth inside, inches</th>
<th>Each</th>
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</thead>
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<tr>
<td>B</td>
<td>32</td>
<td>11 1/4</td>
<td>9</td>
<td>$5.00</td>
</tr>
<tr>
<td>2B</td>
<td>27</td>
<td>12</td>
<td>9</td>
<td>4.30</td>
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<tr>
<td>XB</td>
<td>32</td>
<td>11 1/4</td>
<td>7</td>
<td>6.00</td>
</tr>
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</table>

KENNEDY ALL-STEEL TOOL KITS

Carpenters Cases
These cases are made of steel, but are lined with wood veneer to protect sharp tools. They are made so that rain will not get into them.

Equipped with two drawers for small tools, a level holder and there is room in No. 31A for a square.

The saw rack which is hinged to the lid will carry four 28 inch saws. Each kit packed in individual carton.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Size, inches</th>
<th>Net weight, lbs</th>
<th>Each</th>
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<tr>
<td>31A</td>
<td>32 x 7 x 15</td>
<td>20%</td>
<td>$9.20</td>
</tr>
<tr>
<td>31C</td>
<td>32 x 11 x 6</td>
<td>16%</td>
<td>7.80</td>
</tr>
</tbody>
</table>

Combination Case
Equipped with two trays. Top tray fitted with folding handle so it may be used as a tote tray. Lower tray divided for small parts and tools. Space under tray is large enough to carry a complete assortment of tools. A strong, well made kit for many uses. Packed in individual carton.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Net weight, lbs</th>
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<tr>
<td>716</td>
<td>16 x 8 x 9</td>
<td>11 1/2%</td>
<td>$5.20</td>
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</table>

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
KENNEDY ALL-STEEL TOOL KITS

Mechanics Kit, Bag Shaped
For garage mechanics, repairmen, electricians and others. Easy to carry; has handy divided tray for small parts. Strongly reinforced and will withstand years of hard usage. Has leathe rhandle, side catches, corner irons and multiple change lock. Packed in individual carton.

Nos. 114 118
Size, inches 14x7x9 18x10x13
Net wt., lbs 6 1/4 10 3/4
Each $4.20 4.60

Flat Top Kits
Divided tray extends only part of length of kit, having room in end of kit for blow torch. Especially desirable for electricians, linemen and repairmen. Ends double seamed; multiple change lock, side catches and corner irons. Packed in individual carton.

No. 321—Size 21x8x9 inches; net weight 10 pounds... Each $4.60

Prices Subject to Market Changes

KENNEDY ALL-STEEL TACKLE BOXES

Kantilever Kit
All steel, finished in brown baked enamel; multiple change lock; loop catches; steel core leather handle. Compact, durable, strong, handy and guaranteed water-tight.

The kit can be opened to this position where it takes up little space and gives access to the tackle most frequently used.

By opening the lid, the trays are moved to this position so that the bottom of the kit as well as the plug tray is accessible.

The plug tray may be pushed back to this position giving access to all of the tackle.

Nos. TC16 TC21
Size, inches 16x8x9 21 1/2x6 1/2x7
Each, without Tackle $4.80 5.60

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
Hammacher, Schlemmer & Co.

PLASTERERS BROWNING TROWELS

Disston

Made for first-coat work. Improved mounting of specially treated ferrous metal for perfect balance; slightly heavier than finishing trowel blade. Disston steel blade, hardened and tempered; flexible; lacquer finish; long mounting, fastened to blade with ten countersunk rivets; flat thumb rest. Smooth finish handle; tang through handle, threaded on end to receive steel hexagon barrel nut.

No. 18—Wood Handle
Length, inches... 11 12
Width, inches... 4 5
Each .......... $2.50 2.50

No. 118—Leather Handle
Length, inches... 11 12
Width, inches... 4 5
Each .......... $3.25 3.25

BRICK TROWELS

Disston

True taper ground from heel to point and from center to edges for flexibility; post at right angle to blade; handle set for proper lift and clearance; edges shaped for striking brick. Blade, post and tang forged from one piece of Disston steel, hardened and tempered; lacquered to prevent rust. Hardwood handle, shaped to hand; steel ferrule 3½ inches long. Spiral tang locks handle securely.

No. 11—New York Pattern
Length, inches... 9½ 10 10½
Each .......... $1.80 1.95 1.90

No. 5—London Pattern
Length, inches... 9½ 10 10½
Each .......... $1.55 1.60 1.65

POINTING TROWELS

Disston

Regular Pattern

The bricklayers and stone masons favorite. Made with spiral tang for locking handle to trowel. Post at right angle to blade; handle set for proper lift and balance.

Blade, post and tang forged from one piece Disston steel; hardened, tempered, polished and lacquered to prevent rust. Hickory handle, 4½ inches long; steel ferrule 1 inch long.

No. 15—Length, inches... 4 5 6 7
Each .......... $0.60 .65 .70 .80

Hammacher, Schlemmer & Co.

METAL OR TINNERS SNIPS

Compton “Reliance”

Straight Blade Regular, Right Hand
Drop forged steel; bar tool steel laid blades; blue finished handles.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
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<tbody>
<tr>
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<tr>
<td>Length of cut, inches</td>
<td>3½</td>
<td>3</td>
<td>2½</td>
<td>2½</td>
<td>2</td>
</tr>
<tr>
<td>Each</td>
<td>$2.00</td>
<td>1.75</td>
<td>1.60</td>
<td>1.20</td>
<td>1.00</td>
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</table>

Circular Blade, Right Hand
A convenient all around tool for cutting curved and irregular shapes.

Drop forged steel; bar tool steel laid blades; blue finish handles.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>8CB</th>
<th>10CB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full length, inches</td>
<td>13</td>
<td>11</td>
</tr>
<tr>
<td>Length of cut, Inches</td>
<td>3½</td>
<td>2½</td>
</tr>
<tr>
<td>Each</td>
<td>$3.00</td>
<td>2.50</td>
</tr>
</tbody>
</table>

Note—The length of cut is the standard cutting edge of blade.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
BLOW TORCHES
Bernz "Always Reliable"

Note—If the automatic check valve becomes out of order, these torches can still be used by screwing down the plunger. The top of the cylinder is flared which enables the user to insert the plunger without injuring the washer.

Gasoline-Kerosene
Burner is a patented style which produces a perfect blue, hot flame in short time. All parts can be cleaned quickly and thoroughly. Nickel plated wire wheel does not get hot, and is indestructible. Seamless steel nipple, dip tube and wick, soldering iron hook cast bronze, can be unscrewed when not required.

Pump "Neverleak" style and fitted into reservoir. Plunger screws down and out of the way. Needle point at bottom of plunger acts as a double check.

Reservoir and bottom of heavy drawn sheet brass, reinforced on inside at top with long wide brace; polished and lacquered. Bottom funnel-shaped, permits quick refilling.

Blunt burner needle, 1/4 inch steel rod. No orifice to be enlarged. Double stuffing box nut prevents user from unscrewing needle completely. Gasoline burner block is screwed into burner, and kerosene burner block is screwed into filler plug. Reverse when using kerosene. Folding pocket with three cleaning needles in handle.

No. 79—Capacity 1 quart; net weight 4 1/2 pounds...Each $7.20

No. 87—Capacity 1 quart; net weight 4 pounds...Each $4.75

Prices Subject to Market Changes

ALCOHOL TORCHES
Bernz "Always Reliable"

Self-Blowing

No. 215—For 110 volt current; complete with 6 foot asbestos cord and separable plug; shipping weight 4 pounds. Each $7.25

SOLDERING OUTFITS

For the Household or Workshop
Contains 4 oz. can Thiol solder in paste form and self-acting blow torch, packed in neat box, with full directions inside. With this handy outfit any one can make a perfect soldered joint, without any previous experience, on all metals, except aluminum.

Complete...Each $1.50

Prices Subject to Market Changes

DELTA

High grade electric glue pot. Has low, medium and high temperature switch. Heavy spun seamless inside copper pot. Will operate on either A.C. or D.C. current.

No. 215—For 110 volt current; complete with 6 foot asbestos cord and separable plug; shipping weight 4 pounds. Each $7.25

SOLDERING COPPERS

For radio, home and light factory use. Approved heater cord; two-piece attachment plug; interchangeable tips, that can be replaced when worn out; alloy heating element, that will not overheat and gives the desired results at all times.

Each...$2.50
Extra standard tips...Each...45
Special straight tips extra...Each...45
Special bent tips extra...Each...45

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
ELECTRIC SOLDERING IRONS

The "Vulcan" Tools are equipped with 6 foot flexible cords and separable attachment plugs and can be connected to any lighting socket. They will operate with identical results on either A.C. or D.C. and are wound for standard voltages of 110, 125, 220 and 230 volts. An extra charge of $1.00 for the Nos. 10, 19, 29 and 39 yards is made for special voltages. Each tip is accurately machined with a convex seat for optimal efficiency in the conduit of heat, and also, by bending the chamber into which the tip screws, protecting the surfaces thus enclosed from corrosion.

All Vulcan windings are hermetically sealed, giving protection against damage by flux fumes, oxidation and water. They deliver constant ample heat for perfect soldering throughout a long life.

Note—Always specify voltage when ordering.

No. 10

The Nos. 10 and 30 are equipped with a ventilated, adjustable handle by which the tool can be lengthened or shortened at will.

No. 10—44 watts; equal to old style copper, 1 lb. per pair; length, adjustable to 12 inches; net weight 10 oz.; diameter of tip 3/8 inch; for radio and home use, also light factory soldering; complete Each $3.75 Extra Tip Each .30

No. 30—50 watts; equal to old style copper, 1 lb. per pair; length, adjustable to 12 inches; net weight 10 oz.; diameter of tip 3/8 inch; for radio and home use, also light factory soldering; complete Each $3.75 Extra Tip Each .40

No. 600—40 watts; equal to old style copper, 1 lb. per pair; length 133/4 inches; net weight 14 oz.; diameter of tip 1/2 inch; for finest instruments, all very light soldering, complete Each $3.70 Extra Tip Each .30

No. 700—55 watts; equal to old style copper, 1 1/2 lbs. per pair; length 10 inches; net weight 10 oz.; diameter of tip 1/2 inch; for telephone switchboards, electrical instruments, etc.; complete Each $3.75 Extra Tip Each .30

No. 100—70 watts; equal to old style copper, 1 1/2 lbs. per pair; length 133/4 inches; net weight 16 oz.; diameter of tip 1/2 inch; for fast telephone work, art glass, light automobile repairs, light tinware and general home use; complete Each $8.00 Extra Tip Each .50

No. 900—120 watts; equal to old style copper, 2 lbs. per pair; length 11 1/2 inches; net weight 19 oz.; diameter of tip 1/2 inch; for fast telephone work, art glass, light automobile repairs, light tinware and general home use; complete Each $9.00 Extra Tip Each .75

No. 200—150 watts; equal to old style copper, 3 lbs. per pair; length 14 1/2 inches; net weight 24 oz.; diameter of tip 1/2 inch; for about the same as No. 600, but longer; complete Each $10.50 Extra Tip Each .80

No. 200—250 watts; equal to old style copper, 4 1/2 lbs. per pair; length 14 1/2 inches; net weight 35 oz.; diameter of tip 1 1/4 inches; for medium tinware, general manufacturing, metal patterns, automobile work, etc.; complete Each $13.00 Extra Tip Each 1.25

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

WIRE NIPPERS

No. 60—End Cutting, Lap Joint

Used by carpenters, shoemakers, machinists, etc. Drop forged steel, tempered cutting edges: blue gun metal finish checked handles, polished head.

Size, inches. 5 6 7 8 Each $0.85 .95 1.10 1.30

Utica Diagonal Cutting

No. 105—Lap Joint

A good tool for electrical construction work. Drop forged steel; smooth handles, black finish, polished head.

Size, inches. 5 6 7 8 Each $0.75 .85 .90 1.00

Utica Long Needle Nose, Side Cutting

Lap Joint

Adapted for extra fine work, radio, etc. Forged from extra quality of steel; spring tempered nose and keen, strong cutting edges. Drop forged steel, blue gun metal finish checked handles, polished head.

No. 655—Size, in. 5 6 7 Each $1.20 1.30

Vacuum Grip

Forged steel; adjustable slide; nickel plated.

No. 41—Size, in. 5 6 Each $1.15 1.40

Vacuum Grip, Diagonal Cutting

No. 65—Size, in. 5 6 7 8 Each $1.35 2.15 2.10 2.70

Thick Nose, with Wire Cutter

Lap Joint


No. 85 86 Each $1.40 2.70

Beveled Nose

No. 45 46 47 Each $1.35 2.15 2.10

Beveled Nose

No. 45 46 47 Each 246 247 247

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—Prices Subject to Market Changes

Wires, Cables, Clamps, etc.

Hammacher, Schlemmer & Co.

www.roseantiquetools.com
SCREW PLATES
Card

Machine Screw Threads
No. A1—Stock 5 inches long; Card tap wrench No. 0; 6 dies, ½ inch diameter, and 6 taps, cutting 4-36, 6-32, 8-32, 10-32, 12-24, 14-20. Per Set $5.60

S. A. E. Standard Threads
No. 52—Stock 7 inches long; tap wrench 7½ inches long; 8 dies, ⅜ inch diameter; 8 guides and 8 taps, cutting 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, 16-18, 18-18. Per Set $9.75

S. A. E. Standard Threads
No. 52A—Stock 7 inches long; tap wrench 7½ inches long; 8 dies, ½ inch diameter; 8 guides and 8 taps, cutting 2-26, 3-48, 4-36, 6-32, 8-32, 10-24, 12-24, 14-20. Per Set $9.75

U. S. Standard Threads
No. 52B—Stock 7 inches long; tap wrench 7½ inches long; 10 dies, ¼ inch diameter; 10 guides and 10 taps, cutting 2-26, 3-48, 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, 16-18, 18-18. Per Set $11.65

U. S. Standard Threads
No. 70—Stock 14 inches long Horsfield patent tap wrench No. 7; 5 dies, 1¾ inches diameter; 5 guides and 5 taps, cutting ¼-20, ½-18, ¾-16, 7/8-14, 1½-13. Per Set $10.50

Prices Subject to Market Changes

SCREW EXTRACTORS
Ezy-Out
A tool expressly designed for the quick and easy removal of broken set and cap screws, studs, stay bolts, pipe fittings, etc. Merely drill hole in broken screw, insert proper size Extractor—twisting it as though tapping with a left hand tap. The twist forces spiral to grip sides of drilled hole and then, as additional force is brought to bear on tap wrench, the screw begins to "come"—after which it is an easy matter to spin it out on its own threads just as if it had never broken off at all. The whole operation is accomplished without endangering the threads of the hole.

No. 192—Size No. 1
Diam. at small end, in. 0.654
Diam. at large end, in. 1.17
Length of flue, in. ¾
Length over all, in. 2
Size drill to use, in. ⅛
Each $0.50

No. 192—Size No. 2
Diam. at small end, in. 0.680
Diam. at large end, in. 1.24
Length of flue, in. ¾
Length over all, in. 2⅛
Size drill to use, in. ⅛
Each $0.65

No. 192—Size No. 3
Diam. at small end, in. 0.74
Diam. at large end, in. 1.34
Length of flue, in. ¾
Length over all, in. 2⅔
Size drill to use, in. ⅛
Each $0.75

No. 192—Size No. 4
Diam. at small end, in. 0.85
Diam. at large end, in. 1.44
Length of flue, in. ¾
Length over all, in. 3
Size drill to use, in. ⅛
Each $0.85

No. 192—Size No. 5
Diam. at small end, in. 1
Diam. at large end, in. 1½
Length of flue, in. ¾
Length over all, in. 3⅛
Size drill to use, in. ⅛
Each $1.20

No. 192—Size No. 6
Diam. at small end, in. 1½
Diam. at large end, in. 2
Length of flue, in. ¾
Length over all, in. 4
Size drill to use, in. ⅛
Each $1.65

Prices Subject to Market Changes

TAP WRENCHES
Starrett T Handle

Used by toolmakers, machinists and motor mechanics for holding taps to be turned by hand; also for holding drills, reamers and other small tools. Body centered, enabling use on lathe centers, or in upright drilling machine to start tap straight. Construction permits jaws to conform to piece to be held, making it rigid and less apt to become loose. Jaws and knurled clamping nuts heat-treated. No. 95C made with sliding handle.

Nos. Capacity Each
93A 1/8 to 1/2 square $0.85
93B 1/2 to 1/2 square 1.05
93C 1/2 to 3/4 square 1.90

Prices Subject to Market Changes

Yankee Ratchet

Work in close quarters, corners and inaccessible places. The ratchet is same as used in other "Yankee" tools and is set for left hand, right hand, or rigid, by simply moving slitter. Cross bar held by friction lock can be pulled out. Thumb nut at top can be used in starting tap. Countersunk hole in top for lathe or drill press center.

Nos. ................. 250 251
holds taps up to, in. 1/8 O. D. of chuck, in. 3/8
93A 1/8 to 1/2 square $0.85 7/8
93B 1/2 to 1/2 square 1.05 3/8
93C 1/2 to 3/4 square 1.90 5/8

Each $1.65 2.20

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
PIPE STOCKS AND DIES
Genuine Armstrong Improved Adjustable

American Standard (Briggs) Right Hand Threads

Sets consists of a stock complete with dies, guides and wrench, packed in a wood box.

Dies can be adjusted to variations in size of fittings. Double taper, the taper at entrance for first few threads is greater in degree than standard taper, which forms a lead to the dies, causing them to start on the pipe without filing, even when there is a swell or burr, and requiring no pressure to start dies on pipe. Dies are interchangeable in the stocks.

Two Arm Style

No. 1—Four pipe dies, right hand thread; for threading pipe \( \frac{3}{8}, \frac{1}{2}, \frac{3}{4} \) and \( \frac{3}{8} \) inch; weight each 4\(\frac{1}{2} \) pounds. Each $5.60

No. 2—Five pipe dies, right hand thread; for threading pipe \( \frac{7}{8}, 1, \frac{1}{2}, \frac{3}{4} \) and \( \frac{3}{8} \) inch; weight each 12\(\frac{1}{2} \) pounds. Each $7.45

Two Arm Style

No. 3—Three pipe dies, right hand thread; for threading pipe \( \frac{3}{8}, \frac{1}{2}, 1, \frac{3}{4} \) and \( \frac{3}{8} \) inch; weight 14\(\frac{1}{2} \) pounds. Each $8.70

Note—These pipe stocks will also take Armstrong bolt and tubing dies.

Prices Subject to Market Changes

TOledo PIPE THREADING DEVICES
American Standard (Briggs) Right Hand Threads

No. 00—Ratchet
Capacity \( \frac{1}{2} \) to \( \frac{3}{4} \) inch pipe.
Consists of ratchet handle for holding a series of die heads, which heads also include a ratchet gear forming the bushing for the given size of pipe. To change from one size to the other simply involves pulling on the pawl button, allowing one head to drop out and another to be replaced. Die segments removable for regrinding or replacement.

No. 00—Complete, including die heads for threading \( \frac{1}{8}, \frac{3}{16}, \frac{1}{4}, \frac{5}{32}, \frac{3}{16}, \frac{7}{32}, \frac{1}{2}, \frac{3}{16}, \frac{7}{32}, \frac{1}{4}, \frac{1}{2} \) and \( \frac{3}{16} \) inch pipe; length 14 inches; net weight 9 pounds. Per Set $12.35
One set in a box; shipping weight 10 pounds.

No. 1—Adjustable, Plain
Capacity 1 to 2 inch pipe.
The peak of perfection in pipe threading tools. It threads 1, \( 1\frac{1}{4}, 1\frac{1}{2} \) and 2 inch pipe and does its work so easily that a boy can operate it. Has a minimum of working parts, is exceedingly strong and durable and will stand years of service.

No. 1—Complete, for threading 1, \( 1\frac{1}{4}, 1\frac{1}{2} \) and 2 inch pipe; net weight 19 pounds. Set $9.60

No. 1A—With ratchet. Set $12.00
Note—Also made reversed in all its parts for cutting left hand threads, but neither tool will do both.
One set in a box; shipping weight 23 pounds.

PIPE CUTTERS

Genuine Armstrong

Three Wheel Type
For work where cutters cannot be revolved about the pipe.

No. 1B 2B
NOS. 1 2
Cuts pipe inches. \( \frac{3}{16}, \frac{1}{4}, \frac{7}{32}, \frac{1}{2}, \frac{3}{16}, \frac{7}{32}, \frac{1}{4}, \frac{1}{2} \)
Weight each, lbs. 3 3
Each $2.70 3.60

Extra Wheels... 3 .25 .30

Prices Subject to Market Changes

Genuine Saunders

Roller Type, Single Cutter Wheel
Suit only to work where it can be revolved entirely around pipe.

No. 1S 2S
NOS. 1 2
Cuts pipe inches. \( \frac{3}{16}, \frac{1}{4}, \frac{7}{32}, \frac{1}{2}, \frac{3}{16}, \frac{7}{32}, \frac{1}{4}, \frac{1}{2} \)
Weight each, lbs. 3 6
Each $3.15 4.75
Extra Wheels... 9 .27 .36

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East
Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
CHAIN PIPE VISES
Williams “Vulcan”

For Holding Pipe, Bolts, Bars, Shafts, Etc.
Unbreakable, compact, rapid in action and positive in gripping pipe. All sizes can be fastened to bench or post; Nos. 1 and 2 adapted for carrying by hand or in tool bag. Adjustment made by engaging rivets of chain with a series of stepped bosses on base, when vise may be locked by turn of handle. Wrought steel; drop forged jaws of saw tempered steel for file sharpening; proof-tested at link chain.

<table>
<thead>
<tr>
<th>No.</th>
<th>For pipe, inches</th>
<th>Folded for packing, in.</th>
<th>Weight each, lbs.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/4-2</td>
<td>3/8x3/8</td>
<td>4</td>
<td>$3.85</td>
</tr>
<tr>
<td>2</td>
<td>1/4</td>
<td>11/2x11/2</td>
<td>10</td>
<td>$8.25</td>
</tr>
</tbody>
</table>

One in a box.

Prices Subject to Market Changes

PIECE WRENCHES
Genuine Walworth Stilson

Drop forged from bar steel, scientifically heat treated; all parts interchangeable; does not crush or lock upon the pipe, but releases its hold instantly. Each size has a single front spring; each size 10 to 24 inches inclusive has a double (2) back spring.

<table>
<thead>
<tr>
<th>Wood Handle</th>
<th>Length, open, in.</th>
<th>Takes pipe, in.</th>
<th>Wt. each, lbs.</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1/4-1/2</td>
<td>3</td>
<td>$1.30</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1/2</td>
<td>5</td>
<td>1.88</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>3/4</td>
<td>8</td>
<td>2.85</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>1 1/4</td>
<td>15</td>
<td>5.00</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>2</td>
<td>8</td>
<td>2.35</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>2 1/2</td>
<td>15</td>
<td>5.00</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>3</td>
<td>8</td>
<td>2.85</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>3 1/2</td>
<td>15</td>
<td>5.00</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>4</td>
<td>8</td>
<td>2.35</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>4 1/2</td>
<td>15</td>
<td>5.00</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>5</td>
<td>8</td>
<td>2.85</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>5 1/2</td>
<td>15</td>
<td>5.00</td>
<td></td>
</tr>
</tbody>
</table>

CHAIN PIPE WRENCHES
Vulcan

Flat Link Chain
Double-end reversible jaws for turning or holding pipe, pipe fittings, etc.

<table>
<thead>
<tr>
<th>No.</th>
<th>For pipe, Length, Weight, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>1-1/4 20 5/8 3.50</td>
</tr>
<tr>
<td>32</td>
<td>1-1/2 27 10 5.00</td>
</tr>
<tr>
<td>33</td>
<td>1-3/4 37 16 7.00</td>
</tr>
<tr>
<td>34</td>
<td>2-1/2 44 24 9.00</td>
</tr>
<tr>
<td>35</td>
<td>2-11/16 50 31 11.00</td>
</tr>
<tr>
<td>36</td>
<td>2-3/4 64 50 18.00</td>
</tr>
</tbody>
</table>

WRENCHES
Crescent Adjustable

A tool for general use in garages, repair shops, machine shops, on the farm, in the home and anywhere there is a need for a dependable, adjustable wrench.

Handle drop forged carbon steel. Special alloy steel movable jaw; hardened and oil tempered. Polished all over except web in handle, which is black oil finish.

<table>
<thead>
<tr>
<th>Single End</th>
<th>Nos.</th>
<th>Length, inches</th>
<th>Weight, oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>A14 6</td>
<td>5</td>
<td>10</td>
<td>18</td>
</tr>
</tbody>
</table>

One in a box.

Model "G" Adjustable

Drop forged steel; rapid adjustment; bars of "I" beam section; "Duro" black rust-proof finish.

<table>
<thead>
<tr>
<th>Double End</th>
<th>Nos.</th>
<th>Length, inches</th>
<th>Weight, oz</th>
</tr>
</thead>
<tbody>
<tr>
<td>B168 6</td>
<td>12</td>
<td>18</td>
<td>10</td>
</tr>
</tbody>
</table>

One in a box.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
DOUBLE HEAD ENGINEERS WRENCHES

Williams

Carbon Steel, 15 Degree Angle

Drop forged steel. Finished wrench (new). Openings milled, surface and edges smoothed, sizes stamped on heads. Case hardened and black enameled (baked on), heads bright.

All openings are milled slightly larger than stated in tables to allow for clearance and variation.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>4</td>
<td>1/2</td>
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<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>5</td>
<td>5/16</td>
<td>0.20</td>
</tr>
<tr>
<td>23</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>6</td>
<td>7/32</td>
<td>0.21</td>
</tr>
<tr>
<td>24</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>7</td>
<td>9/32</td>
<td>0.21</td>
</tr>
<tr>
<td>25</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>8</td>
<td>11/32</td>
<td>0.21</td>
</tr>
<tr>
<td>26</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>9</td>
<td>13/32</td>
<td>0.21</td>
</tr>
<tr>
<td>27C</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>10</td>
<td>15/32</td>
<td>0.21</td>
</tr>
<tr>
<td>28</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>11</td>
<td>17/32</td>
<td>0.21</td>
</tr>
<tr>
<td>29S</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>12</td>
<td>19/32</td>
<td>0.21</td>
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<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>13</td>
<td>21/32</td>
<td>0.21</td>
</tr>
<tr>
<td>31</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>14</td>
<td>23/32</td>
<td>0.21</td>
</tr>
<tr>
<td>32</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>15</td>
<td>25/32</td>
<td>0.21</td>
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<tr>
<td>33</td>
<td>1/4 &amp; 3/16</td>
<td>3/16</td>
<td>5/32</td>
<td>16</td>
<td>27/32</td>
<td>0.21</td>
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<td>5/32</td>
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</table>

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East
COMBINATION WRENCH SETS

Williams

Consists of Midget “Superrenches” (Chrome-Molybdenum), Combination Tee, Handy Grip and Hexagon Sockets

A combination of Williams’ Midget “Superrenches” and Socket wrenches providing a handful of helpfulness for electrical jobs; unequaled in cramped quarters and for delicate adjustments. The only assortment of Open-end and Socket wrenches in Midget size for such service. Electricians, mechanics, motorists and radio-fans need this convenient set.

Contents of Set

Sockets tapered for work in close corners. Made from high grade steel, scientifically heat-treated to insure a uniform product. Full bright nickel finish. The Handy Grip has swivel for real speed; it can also be used as an extension.

<table>
<thead>
<tr>
<th></th>
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</tbody>
</table>

No. 2040—Set of five wrenches with leatherette roll…Per Set $4.20

HEXAGON WRENCH SPINTITES

The Socket Wrench for Little Nuts

Works Like a Screw Driver

Little nuts! Millions of them to be tightened everywhere. In the home, in the radio shop, the electrical shop, in the industrial plant, on the automobile. Every work bench, every tool kit, needs Spintites. Used by the big radio and ear manufacturers for years.

There’s a feel to Spintite “nut drivers” no tool user can resist. Built like a screw driver with a thin-walled hexagon socket on the end. Hollow shank so the socket will reach down over the bolt and grip the nut.

No. 287—Combination set; conveniently packed in a compact, strong metal box with hinged cover and finished in black lacquer; size 5¼ x 2½ x 1 inch high; total weight 1½ pounds. Per Set $6.25

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—To Points Beyond Charges Collect
INTERCHANGEABLE SOCKET WRENCH SETS
Walden-Worcester

With Hex Sockets

For all around garage use. Many mechanics prefer it on account of its wide range of the most needed socket sizes and handy assortment of handles and special parts. It’s a genuine mechanical tool kit. Box has plenty of extra space.

No. 26R—Consists of pieces as described below; in nickel trimmed and lacquered steel box, 20½ x 9½ x 2½ inches. Per Set $18.60

Contents of No. 26R Set—25 Pieces

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Specification</th>
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<tr>
<td>No. 1142</td>
<td>Offset Handle</td>
<td>10½ in.</td>
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<tr>
<td>No. 1139</td>
<td>Extension Bar, for Ratchet Wrench</td>
<td>9 inch</td>
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<td>No. 1109</td>
<td>Plug Connector, for Ratchet Wrench</td>
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</tr>
<tr>
<td>No. 1110</td>
<td>Connector</td>
<td></td>
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<tr>
<td>No. 1126</td>
<td>Stud Wrench</td>
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<tr>
<td>No. 1122</td>
<td>Universal Socket</td>
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<tr>
<td>No. 1129</td>
<td>Screw Driver</td>
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</table>

With Hex Sockets

For work that requires a wide range of sockets with few accessory parts and handles.

Adapted to busy garages that need extra sockets.

No. 16R—Consists of pieces as described below; in steel box. Per Set $17.75

Contents of No. 16R Set—16 Pieces

<table>
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<th>Item</th>
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<td>No. 1125</td>
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<tr>
<td>No. 1133</td>
<td>Extension Bar for Ratchet Wrench</td>
<td>9 inch</td>
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</table>

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
REVOLVING SPRING PUNCHES
Bernard

Adjustable Gauge
Gauge makes it possible to punch holes at uniform distances from edge of leather. Parallel action jaws give punch tubes a straight downward thrust from start to finish of operation. Revolving head turns between two steel arms which hold it firmly in position so tubes always hit on center.

Warranted crucible steel; automatic spring action; open throat; parallel jaws; full nickel plated.

No. 186—Length 8 inches; equipped with Nos. 1 to 6 screw tubes, cutting holes 1/4, 3/16, 5/32, 1/8, and 3/16 inch. Each $3.85

H. S. & Co.

Four Tubes
Drop forged steel, polished; flat steel spring; bar steel rollers; fitted joints; hardened and tempered screw tubes.
No. 155-4—Length 8 inches; 4 tubes, assorted sizes. Each $1.50

Six Tubes
Drop forged steel, polished; flat steel spring; bar steel rollers; fitted joints; hardened and tempered screw tubes.
No. 155-6—Length 8 inches; 6 tubes, assorted sizes. Each $1.75

ROUND PUNCHES
H. S. & Co.

No. 10—Carbon Finish
Extra fine quality. For leather, cardboard, paper, etc.

Nos. Size, inches
2 3/8
4 7/16
6 11/32
7 15/64
8 7/32
12 1/32
13 1/32
14 5/64
15 9/64
16 11/64

Each $0.35 $0.35 $0.35 $0.40 $0.40 $0.40 $0.45 $0.45 $0.50 $0.50

Prices Subject to Market Changes

CENTNER PUNCHES
Starrett Automatic

Adjustable Stroke
Contains a mechanism which automatically strikes a blow of any required force when the punch is in the exact position desired by the operator. It is provided with a knurled adjustable screw cap, which, working in connection with a spring, regulates the stroke. For work requiring a heavy mark, turn cap down; for work requiring a light mark, turn it up. Use it, no hammer is needed. The punch being placed in an upright position over the working line, a downward pressure releases the striking block and makes the impression without danger of slipping, as is liable when a hammer is used. When adjusted for either light or heavy stroke, all indentations are of a uniform size for the starting of the drill, etc., and more accurate and quicker work may be done as required on delicate work in toolmaking. The working parts are hardened, durable and accessible for such repairs as may be ever needed. The adjustable cap fits the hand, with no stroke adjusting screw through and above it to bother. The point can be removed for regrinding and easily replaced.

Nos. 18A 18A 18B

*Length, in. 3 3/4 3 3/4 3 3/4
Diameter, in. 1/4 1/4 1/4
Wt. each, oz. 2 8 8
Each $1.55 $2.00 $2.55

*When adjusted for medium stroke.

H. S. & Co.

Square Body
With knurled grip, will not roll when laid down. Made in seven sizes ranging in length from 2 1/2 to 5 inches. Each punch is tempered its full length. The A, B and C sizes are specially adapted to light tool maker's work.

Nos. Diam. at Point
264A 3/32
264B 5/32
264C 7/32
264D 1/4
264E 5/16
264F 3/8
264G 1/2

Each $0.30 $0.30 $0.30 $0.30 $0.30 $0.30 $0.30

Prices Subject to Market Changes

 Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
MICROMETER CALIPERS
Starrett

Range 0 to 1 inch

For measurement by thousandths up to 1 inch. The frame is cut out for use in place where the ordinary frame cannot be inserted. The width of the anvil end of the frame is approximately 1/2 inch. Has lock nut and ratchet stop.

No. 239—With ratchet stop but without case........Each $8.50

Starrett Micrometer Features

The lock nut, which by a slight turn locks spindle firmly the ratchet, permitting same degree of pressure at points of contact in measuring; the decimal equivalents of 5ths, 16ths, 32nds and 64ths, on frame, or on thimble; the quick adjusting micrometer, reducing time in reading from 1 inch to 0.40 complete turns of screw to an instant; the concave cut in frame back of anvil for insertion where the ordinary style will not go.

Ratchet Stop

In using this device, the ratchet slips by the pawl when more than a certain amount of pressure is applied, and so prevents the spindle from turning further and perhaps springing the instrument.

It is valuable where a number of measurements have to be taken quickly, and especially where measurements are taken by more than one person with the same caliper, as by its use the same amount of pressure is applied in each case to the objects measured.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

STAIR GAUGE FIXTURES
Starrett

These fixtures can be readily clamped to a carpenter's steel square to form a gauge for various uses, as in stairs, valley cuts, hip and rafter work.

Sketch A shows the gauge as applied for laying out a stair stringer; sketch B, laying off hexagon angles; sketch C, as used as a center gauge or in quartering a circle.

No. 111—Fixtures are light, neat and efficient........Per Pair $0.80

A small set of 1/8 inch hexagonal fixtures for the carpenter's steel square. Can be quickly clamped in place on the blade, to lay out angles for stair stringers, sawing, etc.

No. 470—White nickel finish; brass set screws; natural finish........Per Pair $0.45

COMBINATION SQUARES
Starrett

Hardened Blade, No. 4 Graduations

No. 4 graduations, 8ths, 16ths, 32nds and 64ths, with heavy figures reading both ways.

Every tool warranted accurate. With the adjustable blade this forms one of the most convenient and useful tools ever devised for machinists' use. It is a complete substitute for a whole set of common try squares, and is one of the best gauges made for transferring exact measurements or laying out work. It is also convenient for a depth gauge, or to square in a mortise. For a mitre it is perfect, while with the auxiliary center head it forms a centering square, both inside and outside, which for convenience and accuracy has no equal. The 6, 9, 12 and 18 inch stocks are fitted with levels as shown in the above cut. The 4 inch stock has no level. The 18 inch has the same stock and center head as the 12 inch. Sent complete with center head unless otherwise ordered.

No. 11—Size, inches...........4 6 9 12 18
With Center Head............Each, $ 2.00 2.55 3.10 3.85
Without Center Head........Each, 1.50 1.55 2.00 2.55 3.30

Drop Forged Steel

With hardened heads and hardened blades. Both stock and center head are hardened as well as the blade. No. 4 graduations, 8ths, 16ths, 32nds and 64ths, with heavy figures reading both ways. Sent complete with center head unless otherwise ordered.

No. 33—Size, inches...........6 9 12
With Center Head............Each, $3.30 3.85 4.10
Without Center Head........Each, 2.55 3.10 3.30

Showing a few of the many uses of the combination square.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
COMBINATION SQUARE SETS

Starrett

The combination square met with such universal approval from machinists that it was but a step to add to it the protractor head and have a combination set, made up of the rule on which slide the square, center and protractor heads. This makes possible more varieties of uses in laying out and testing work than are possible with any other instrument used by mechanics.

With Hardened Blade

Consists of No. 11 combination square with center head and No. 12, 7 inch bevel protractor all on the No. 11 square blade; protractor head extends on one side of blade only. No. 4 graduations 8ths, 16ths, 32nds and 64ths.

Note—See foot notes for description of protractor.

No. 433—Size, inches........ 12
Per Set (Complete)........ $6.65

With Hardened Blade

Set consists of No. 33 combination square with hardened drop forged stock and center head and No. 492, 7 inch Protractor head. No. 4 graduations, 8ths, 16ths, 32nds and 64ths.

Note—See foot notes for description of protractor.

No. 434—Size, inches........ 12
Per Set (Complete)........ $7.65

Description of Protractors Furnished in Above Sets

Set No. 9—Protractor No. 12. Length 7 inches. Revolving turret graduated in degrees from 0 to 180, both right and left, and can be accurately adjusted to show any angle. Small level attached to head, adjustable to show any degree.

Set No. 433—Protractor No. 492. Same as No. 12, except head made with smooth finish and match finish of No. 33 combination squares.

Set No. 434—Protractor No. 490. Same as No. 12 with the additional feature of having head extend both sides of blade. This greatly increases the usefulness of the tool, as the same angles may be transferred from either side of frame without resetting. Pine smooth finish to match finish of No. 33 combination squares.

Prices Subject to Market Changes

SPRING CALIPERS

Starrett Yankee

With Solid Nut

No. 73—Inside Transfer

After caliperins inside of chambered cavity by springing in the lock they may be withdrawn, and as they spring back, will show the exact size calipered.

Size, inches 2½ 3 4 5 6
Each........ $0.70 .75 .75 .83 .90

No. 79—Outside

Size, inches 2½ 3 4 5 6
Each........ $0.70 .75 .75 .83 .90

WINGED CALIPERS

H. S. & Co.

Brass Joint

Forged from highest grade of steel, polished. Head is large, firm and symmetrical. Tempered steel adjusting spring; knurled adjusting screw and flat head steel thumb screw to lock the wing in position.

No. 100—Inches.... 6
Each........ $0.75 .95

No. 106—Brass Joint

Forged, steel polished, upper part of legs square, lower part having a long taper. Tempered steel adjusting spring; knurled adjusting screw and flat head steel thumb screw to lock the wing in position.

In. 6 8 10 12
Eq. $0.60 .75 1.00 1.15

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
STEEL RULES

Starrett

Note—The many advantages of light, thin spring-tempered steel rules over ordinary thick, soft rules are so apparent that they are at once adopted by mechanics. Made to agree with the accurate standards furnished by the United States Government.

Graduations

<table>
<thead>
<tr>
<th>1st corner</th>
<th>2nd corner</th>
<th>3rd corner</th>
<th>4th corner</th>
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<tbody>
<tr>
<td>No. 4—Inch</td>
<td>64</td>
<td>32</td>
<td>16</td>
</tr>
<tr>
<td>No. 10—Inch</td>
<td>32</td>
<td>64</td>
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Spring Tempered Steel Rules

Front

Quick Reading

Reverse

Special attention is called to the fact that these rules are figured so as to assist the user to quickly read the 64ths as shown on cut. Has No. 4 graduation; which consists of 8ths and 16ths on one side and 32nds and 64ths on the other, and is graduated in 32nds of an inch on both ends of one side, as shown on cut. Thickness 3/16 inch or No. 18 gauge.

No. 603—Length, inches... 2 3 4 6 9 12
Width, inches... 1/2 3/8 3/4 7/8 7 1
Each... $0.40 50 65 75 1.15 1.40

Flexible Steel Rules

No. 10 Graduation

These are very thin spring-tempered rules, nicely graduated on one side only. Those from 1 inch to 12 inches are 1/2 inch wide, and will easily conform to a 2 inch circle. Graduated 32nds and 64ths.

No. 320—Length, inches... 4 6 9 12
Each... $0.65 75 1.15 1.40

MACHINISTS’ SCRIBERS

Starrett

Pocket

Made of steel tubing, knurled and nickel plated. Scribe point made from best quality steel, tempered and held by a knurled chuck. Is reversible, telescoping into the stock and held by slight turn of chuck, is always safe to carry in the pocket like a penknife. Hexagon head prevents rolling off bench.

No. 70A 70B
Length of blade, inches... 2 3/4 2 3/4
Diameter of handle, inches... 1/4 3/8 1/4 3/8
Weight each, ounces... 1 1 1/2 1 1/2
Each... $0.30 .45

Prices Subject to Market Changes

Fourth Avenue at 15th Street also at 57th Street—145-147 East

OIL STONES

Arkansas Bench Stones

<table>
<thead>
<tr>
<th>Nos.</th>
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<td>108</td>
<td>306</td>
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<td>Inches</td>
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<td>6x2x3/4</td>
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<tr>
<td>Each</td>
<td>$3.10</td>
<td>$3.50</td>
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Carborundum

Combination

Made with one face coarse and one face very fine grit. The coarse side can be used for sharpening very dull tools; the fine side for giving required keen, lasting edge.

No. 120—3 to 3 1/4 inches long.

Each... $0.34

Arkansas Round Edge Slips

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Hard</th>
<th>Soft</th>
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<tbody>
<tr>
<td>105</td>
<td>104</td>
<td>303</td>
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<tr>
<td>Size, Inches</td>
<td>3x2x3/8 to 3/4</td>
<td>3x2x3/8 to 3/4</td>
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<tr>
<td>Each</td>
<td>$0.85</td>
<td>$1.05</td>
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Arkansas Pen Knife Pieces

In Sets of Four

Four shapes in a set, each shape being especially useful for various knives used by wood and ivory carvers.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Size, Inches</th>
<th>Each</th>
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<tbody>
<tr>
<td>116</td>
<td>3x1x1 3/4 3/8</td>
<td>$0.43</td>
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<tr>
<td>117</td>
<td>4x1x1 3/4 3/8</td>
<td>.65</td>
</tr>
<tr>
<td>118</td>
<td>5x1x1 3/4 3/8</td>
<td>1.05</td>
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</table>

Note—For Pike Stone Oil see page 87.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
# Nicholson Files

## Kearney & Foote Brand

### Mill Files

#### Mill Bastard, Square Edges
- Length, inches: 6, 8, 10, 12, 14
- Each: $0.13, 0.15, 0.21, 0.27, 0.39

#### Mill Second Cut, Square Edge
- Length, inches: 8
- Each: $0.18, 0.23

#### Mill Smooth, Square Edge
- Length, inches: 8
- Each: $0.20

#### Mill Bastard, One Round Edge
- Length, inches: 6, 8, 10, 12
- Each: $0.14, 0.18, 0.23, 0.31

### Flat Files

#### Flat Bastard
- Length, inches: 4, 5, 6, 8, 10, 12, 14
- Each: $0.14, 0.15, 0.16, 0.20, 0.26, 0.35, 0.48

#### Flat Second Cut
- Length, inches: 6
- Each: $0.18, 0.22

#### Flat Smooth
- Length, inches: 6
- Each: $0.19

### Half Round Files

#### Half Round Bastard
- Length, inches: 4, 5, 6, 8, 10, 12, 14
- Each: $0.18, 0.20, 0.22, 0.27, 0.33, 0.43, 0.56

#### Half Round Second Cut
- Length, inches: 4
- Each: $0.21, 0.25

#### Half Round Smooth
- Length, inches: 4
- Each: $0.22, 0.23

### Regular Taper Files

#### Regular Taper Single Cut
- Length, inches: 5 1/2
- Each: $0.11, 0.12, 0.16, 0.20

### Slim Taper Files

#### Slim Taper Single Cut
- Length, inches: 5
- Each: $0.09, 0.11

### Half Round Cabinet Files

#### Length, inches: 8
- Each: $0.37, 0.50

### Wood Rasps

#### Flat Cabinet Rasp, Second Cut
- Length, inches: 8
- Each: $0.48, 0.64

#### Half Round Wood Rasp, Bastard Cut
- Length, inches: 8
- Each: $0.38, 0.50

---

*Prices Subject to Market Changes*

*Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect*
FILE CARDS OR CLEANERS  
Nicholson

Complete with steel cleaner that fits in the handle.

Varnished hardwood frame and handle; hardened steel wire brush attached to leather face on one side, black bristle brush on reverse side.

No. 2—4½ x 1⅜ inches; length over all 10 inches; weight each 6 ounces. Each $0.85

Colton

Complete with soft steel pick. Steel back, frame and face; tempered steel wire bristles.

No. 10—Back 4 x 2 inches, handle 3⅜ inches; weight each 5 ounces. Each $0.40

BENCH DUSTERS

*No. 10—5 inch block; white bristles. Each $0.63
No. 11—10 inch block; white and gray bristles...Each $0.90
*Our regular manual training school duster.

SANDPAPER BLOCKS  
Johnson

With the use of this device the sandpaper will always be held securely in place. The heavy felt with which the holder is covered and over which the sandpaper is placed will prevent the surface of articles from being scratched.

The sand or emery paper can be attached quickly and holds No. 00 up to No. 3
No. 21—Size 4½ x 2⅔ x 1 inch. Each $0.25

COLLEGE OF ARTS  

cuts its own thread

Selected hardwood, heavy steel ferrule; tempered steel die allowing file to be screwed on or off indefinitely. Can also be used on soldering irons, bearing scrapers, etc.

Nos. For File, in. Each
2 4 $0.15
3 5 .15
4 6 .15
5 8 .20
6 10 .20
7 12 .25
8 14 .25

Common

Soft Wood with Brass Ferrules
Assorted Sizes. Each $0.05

TOOL GRINDERS  
Carborundum “Niagara”

Every part from castings to nuts is accurately made, perfectly fitted. The gear case is made of the best grade of gray iron, the two sections being ground to a fit, making the case absolutely oil tight. The gears are accurately cut, they run smoothly and are practically noiseless. The handle and screw clamp are made of malleable iron to withstand strains, and all small parts are heavily nickel plated.

Every machine is fitted with a carborundum wheel, the fastest, coolest cutting of all wheels for general grinding purposes.

Nos. Wheel diameter, inches Wheel thickness, inches
1 4 1
2 5 1
3 6 1
4 7 1 
1½
Each $4.60 4.90 7.60 8.25

POLISHING HEADS  
Millers Falls

CUTTER AND CHISEL GRINDERS

Stanley

A small, well proportioned head with adjustable flanges from 0-⅝ inch. Pulley grooved for ⅛ inch round belt or the ½ inch face can be used for flat belt. Height to center of spindle 6 inches. Diameter of spindle ⅜ inch, diameter of pulley 1⅛ inches. One end of spindle tapered, other end equipped with 3-jaw chuck holding drills from 0-1½ inch diameter.

No. 250 Takes wheels 1 inch thick and ⅜ inch hole; base 2⅞ x 2⅞ inches; weight 2½ pounds. Each $2.40

Nickel Plated

A device for holding plane iron, chisels and other similar cutting tools that they may be ground or honed to any desired angle or bevel.

The tool to be sharpened is held rigidly in the grinder by thumb screws.

No. 200—All metal; weight each 1½ pounds. Each $1.30

prices subject to market changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
**ELECTRIC DRILLS**

**Millers Falls**

### 3/4 Inch Light Duty No. 214

A powerful, light and exceptionally well-balanced drill with excellent ventilation. Designed for light and intermittent service.

- **Motor:** Universal for D. C. or A. C. up to 60 cycles.
- **Speed:** No load, 1500 R. P. M.
- **Full load, 1000 R. P. M.**

### 5/8 Inch No. 516

Perfectly balanced and built to withstand the severest use in continuous production work.

- **Motor:** Universal for D. C. or A. C. up to 60 cycles.
- **Speed:** No load, 1500 R. P. M.
- **Full load, 800 R. P. M.**

### Specifications

- **3/4 in. Jacobs chuck.**
- **Heat treated alloy steel gears.**
- **Ball thrust bearing on spindle.**
- **Switch mounted on handle.**
- **Armored attachment plug.**
- **Aluminum housing efficiently ventilated.**
- **Brushes easily replaced from outside without taking tool apart.**
- **Ball bearing motor shaft.**
- **Ball thrust bearing on spindle.**
- **Automatic toggle switch with catch for continuous operation on drill stand.**
- **12 feet best quality rubber covered cord.**
- **Pigtail brushes replaced from outside.**
- **Net weight:** 7.6 pounds. Over all length 14 inches. Keyless chuck optional equipment.

**No. 516 Drill**

- **Each $45.00**

**Special speed of 3000 R. P. M.**

- **Extra $2.50**

**Prices Subject to Market Changes**

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### 7/8 Inch Standard No. 312

The features of this 7/8 inch Standard drill are its powerful ball bearing motor, extremely good ventilation, light weight and rugged construction. This is an ideal tool for millwrights, electricians, plumbers and automotive repairmen.

- **Motor:** Universal for D. C. or A. C. up to 60 cycles.
- **Speed:** No load, 475 R. P. M.
- **Full load, 300 R. P. M.**

### Specifications

- **3/8 in. Jacobs chuck.**
- **Heat treated alloy steel gears.**
- **Ball bearing motor shaft.**
- **Ball thrust bearing on spindle.**
- **Double pole, double break safety switch with catch for continuous operation.**
- **Armored attachment plug.**
- **Aluminum housing efficiently ventilated.**
- **Pigtail brushes easily replaced from outside without taking tool apart.**
- **Spring clip for holding chuck wrench in handle. Combination adjustable breast plate and spade handle.**
- **15 feet rubber covered cord with attachment plug.**
- **Net weight:** 14 pounds. Over all length 17 inches. Furnished in 32, 110, 220 and 250 volt.

**No. 312 Drill**

- **Each $45.00**

**Special speed of 3000 R. P. M.**

- **Extra $2.50**

**Prices Subject to Market Changes**

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**ELECTRIC DRILLS**

**Millers Falls**

### 5/8 Inch No. 538

Light, powerful drill with chuck capacity of 5/8 inch. Has spade handle breast plate and can be furnished with auxiliary handle if desired.

- **Motor:** Universal for D. C. or A. C. up to 60 cycles.
- **Speed:** No load, 1000 R. P. M.
- **Full load, 600 R. P. M.**

### Specifications

- **5/8 in. Jacobs chuck.**
- **Heat treated alloy steel gears.**
- **Ball thrust bearing on spindle.**
- **Phosphor bronze bushings.**
- **Double pole, double break safety switch with catch for continuous operation.**
- **Armored attachment plug.**
- **Aluminum housing efficiently ventilated.**
- **Pigtail brushes easily replaced from outside without taking tool apart.**
- **Spring clip for holding chuck wrench in handle.**
- **Combination adjustable breast plate and spade handle.**
- **15 feet rubber covered cord with attachment plug.**
- **Net weight:** 13.5 pounds net. Over all length 18 inches. Can be furnished with auxiliary side handle if desired. Furnished in 32, 110, 220 and 250 volt. Unless otherwise specified 110 volt will be furnished.

**No. 538 Drill**

- **Each $58.00**

**Special speed of 3000 R. P. M.**

- **Extra $2.50**

**Prices Subject to Market Changes**

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*Fourth Avenue at 13th Street also at 57th Street—145-147 East*

*Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect*
**BENCH DRILL STANDS**

**Millers Falls**

**Without Drill**

Can be used for converting any Millers Falls electric drill above 3/8 inch capacity, into a convenient drill press. Bracket to which drill is attached, permits lowering or raising drill on the precision ground tubular column. Radial adjustment about the column made in same manner. Height of column over all is 28 inches. The base is 9 3/8 inches and has four holes for fastening work. The maximum distance from chuck to base is 13 3/4 inches.

**No. 1238**—Finished in black and red enamel; weight without drill 77 1/2 pounds... Each $18.00

**No. 1514**—Finished in black and red enamel; weight without drill 33 1/2 pounds... Each $11.00

**Without Drill**

This stand makes use of electric drills Nos. 214, 1/2 inch, and No. 516, 3/8 inch. Can be used for a large number of purposes, including grinding and buffing. When used with 4x1/2 inch grinding wheel small tools can be sharpened rapidly. Stand fastens to bench by screws and drill is held in stand by clamp and thumb screw, so it may be used either on bench or portably without waste of time.

**No. 1014**—Finished in black enamel; weight 23 1/2 pounds... Each $2.50

**Prices Subject to Market Changes**

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**DELTA 6 INCH CIRCULAR SAW UNIT**

Ideal for a great variety of work. Will do ripping, cross-cutting, grooving, plowing, plain and compound mitering to exact length, dadoing, cutting moldings, tenoning, slotting, etc.

Table 12 x 14 1/4 inches, tilts 45° to left. Rip gauge 1 1/2 x 16 extends clear across table. Mitre saw 1 1/2 x 16 inches, 0° to 60° both sides. Atkins 6 inch blade, will rip or cross cut pieces up to 1 1/2 inches thick.

Motor base arranged so all other parts of Handi-Shop may be added later, also scroll saw lathe bed, etc.

**No. 160**—Unit, complete with motor No. 400 for 110 volt A. C., 60 cycle current with No. 133 blade, No. 53 V belt and No. 172 pulley; shipping weight 90 pounds... Each $12.00

**No. 160B**—Unit, complete with No. 172 pulley and No. 53 "V" belt; motor, cord and plug and motor base not included; shipping weight 45 pounds... Each $12.25

**Short U-Bed**

Used to attach No. 100 circular saw motor unit and No. 70 scroll saw motor unit where there is no regular lathe bed. Also to attach tilting sanding table. Bed slotted for quick removal of table.

**No. 154**—Shipping weight 4 lbs... Each $2.00

**Prices Subject to Market Changes**

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**DELTA MOULDING CUTTERS**

Illustration shows a few of the many styles of moulding which can be made with these cutters.

**No. 246**—Moulding cutter set to fit 1/2 inch arbor of 6 inch Delta circular saw No. 102; complete as shown above with 4 sets of "High Speed" cutters, table insert, guide fence, collar, wrench and directions; shipping weight 7 pounds... Set $15.00

**No. 248**—Same as above but larger; fits 5/8 inch arbor of No. 318 Delta 8 inch circular saw; (same cutters); shipping weight 8 pounds... Set $15.75

**Note**—Deduct $2.50 if guide fence is not wanted.

---

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
DELTA FOUR SPEED LATHES

Capacity—9 inches diameter over bed, 36 inches between centers, 1\(\frac{1}{2}\) inch spindles.

Any 7/8 H. P. constant speed motor will furnish ample power. With drive pulley rotating at speed of 1750 R. P. M., lathe has 4 speeds—750, 1200, 1750 and 2250 R. P. M.

Any Delta lathe and standing attachments will fit. Can use Handi-Shop lathe bed and change over to 4 speed lathe by adding headstock, drive pulley and V-belt. Motor may be mounted as shown or rear or above lathe. Headstock pulley can be reversed. Spindle runs in long bearings with automatic wick oiling. Two enclosed ball thrust bearings take care of thrust in both directions.

No. 277—As illustrated with all attachments except without motor, "V" belt and motor drive pulley, also not mounted on board: shipping weight 50 pounds.

No. 286—"V" belt; distance between pulleys center to center 12\(\frac{1}{2}\) inches; shipping weight 1\(\frac{1}{4}\) pound. Each $1.15

No. 288—Motor drive pulley, 4 step; fits any 1\(\frac{1}{2}\) inch motor shaft: (1/8 inch and 3/8 inch bores at same price); ship. weight 3 lbs. Each $1.50

No. 289—Headstock only: shipping weight 18\(\frac{1}{2}\) pounds. Each 8.75

DELTA ELECTRIC LATHE

Capacity—9 inch diam. swing, 36 inches between centers.

Motor—1/2 H. P., 110 V., A.C. 60 cycle, double shaft, mounted on heavy iron base, speed 1750 R. P. M., 1/2 H. P. before stalling.

With ball bearing tailstock, thrust bearing, tool support base, 3 and 6 inch tool support, face plate, drive center, cup center, extension wrench, box wrench, cord and plug. Completely assembled on 8x54 inch 5-ply veneer board ready for work.

No. 270—Net weight 65 lbs., shipping weight 80 lbs. Each $40.50

Add $5.00 if with D. C. motor, 115 volts.

Prices Subject to Market Changes

DELTA ELECTRIC HANDI-SHOP

Consists of motor, circular saw, scroll saw, lathe, lathe attachments, sanding attachments, turning tools, blue prints and directions. Completely assembled, properly lined up and mounted on 5-ply veneer base, ready to operate. Length over all 65 inches, height 12 inches, width 18 inches. Packed in heavy iron strapped box ready for shipment. Shipping weight 182 pounds.

With A. C. Motor

No. 285AC—Motor No. 400, 110 V., 60 cycles, speed 1725 R. P. M. Each $99.50

With D. C. Motor

No. 285DC—Motor No. 407, 115 V., speed 1750 R. P. M. Each $104.50

General Specifications

Motor—Special 1/2 H. P., with two shafts, 1/2x1 1/4 inches. Develops more than 1/2 H. P. before stalling.

Lathe—Capacity 9 inches diameter, 36 inches long between centers. U-shape steel bed. Ball bearing tailstock, holds either dead center, drill chuck or face plate. Tool support base, 18 inch double tool support, 6 and 3 inch single supports, ball thrust bearing, face plate, drive center, dead center, extension and box wrenches.

Lathe Attachments—3 inch emery wheel, 6 inch buffing wheel, 1/2 inch capacity chuck fits on motor shaft, circular saw arbor and tailstock. One spur point and one gauge turning tool with 8 1/2 inch long handles. Every wheel arbor.

Sanding Attachments—Sanding drum, 8 1/4 inch diameter sanding disc with garnet paper disc. Sanding table 5x2 inches, can be tilted 45 degrees down, 15 degrees up and can be raised and lowered and used for boring table. 3/4 inch groove for Delta miterage.

Circular Saw—Iron table 12x144 inches, with removable steel table insert for 5 inch diameter dado head, 1/2 inch wide slots on both sides of blade for miterage. Table raises and lowers, also tilts 45 degrees to left. Atkins 6 inch diameter saw, A-2 tooth, rips or cross cuts pieces 1 1/2 inches thick. Miterage 1/2 inches high, 6 inches wide, graduated 0 to 60 degrees to either side. Also used on sanding table for sanding plain and compound miteres; can be used as protractor in laying out work. One plain and one bent steel rod with clamp for cutting pieces accurately to length. Rip gauge 1 1/4 inches high, 16 inches long, can be attached to either side of saw. Saw blade guarded on all sides underneath table. Scoop-like section on throws saw dust away from machine.

Scroll Saw—With tilting table and plain 12 inch capacity frame, six each Nos. 3 and 4 pin end blades and endless V belts.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
**DELTA-HANDI-SHOP ACCESSORIES**

**Combination Guard**
No. 186—Combination swing and splitter guard; will fit any 1929 and 1930 model Delta 6 inch saw; shipping weight 8 ounces. Each $2.25

**Jointer Subbase**
Combination jambsubbase for jointer; 4 in. jointer can be mounted on motor base of Handi-Shop as shown. Ample provision to leave out shavings. Quickly attached in T-slot of base. Small 1½ inch diameter pulley included so that No. 30 Handi-Shop "Y" belt can be used and driven from No. 172 double pulley, which is already on Handi-Shop.
No. 309—With 1½ inch diameter pulley; shipping weight 10 lbs. Each $2.50

**Tool Support Base**
No. 176—Has ½ inch diameter hole for tool supports with lock bolt as shown; clamp plate washer, bolt and nut also included; shipping weight 2 lbs. Each $1.50

**New Delta Milerage**
No. 180—Fits any 1x½ inch wide groove; has graduated and adjustable stop rod and clamp; shipping weight ½ pound. Each $2.25

**Double Tool Support**
No. 179—Extra wide tool support with ½ inch diameter shanks, 18 inches wide for long turning; shipping weight 4 pounds. Each $2.50

**5 Inch Dado Set**
No. 135—Has two ½ inch wide outside cutters, and one ¼ inch wide and one ½ inch wide inside cutters; will cut these grooves, ¼, ½, ¾, ½ and ½ inch wide; shipping weight 2½ pounds. Each $9.00

**Narrow Tool Support**
No. 177—Narrow tool support, has ½ inch diameter steel shank; very strong; 3 inches wide; shipping weight 8 ounces. Each $0.95
No. 178—Wide tool support has ½ inch diameter steel shank exceedingly strong yet not clumsy; 6 inches wide; shipping weight 12 ounces. Each $1.10

**Drive Center**
No. 138—With replaceable center pin; fits any ½ inch diam. shaft, 4 milled teeth; shipping weight 4 oz. Each $1.50
No. 141—Hardened and well made; fits tall stock spindle; has ½ inch diam. hole, center pin replaceable; shipping weight 4 oz. Each $1.50

**Face Plate**
For large face plate work; fits any ½ inch diam. shaft. With 2 Allen set screws.
No. 143—Diameter 3 inches; shipping weight 1 pound. Each $1.10

**Screw Center Plate**
No. 140—For turning small, delicate work; fits any ½ inch diam. shaft; ½ inch diam. body; shipping weight 8 oz. Each $1.50
No. 108—Fits any Delta 9 inch lathe; shipping weight 3¼ pounds. Each $2.75

**Allen Extension Wrench**
Length 6 in., 2½ in. wide.
No. 138—Fits any ½ inch diam. Allen hollow head set screw; shipping weight 5 oz. Each $0.25

**Combination Pulley**
Drives 6 inch Delta circular and Giant scroll saw at proper speed. No changing of pulleys required.
No. 172—Fits ½ inch diam. motor shaft; shipping weight 1 pound. Each $0.75

**Circular Saw Belt**
V belt for driving 6 inch Delta circular saw. Delivers maximum power to blade.
No. 52—Fits No. 172 double pulley; shipping weight 2 ounces. Each $0.75

**Steady Rest**
Prevents springing and vibrating of long small diameter stock.
No. 106—Fits any Delta 9 inch lathe; shipping weight 3¼ pounds. Each $2.75

**Prices Subject to Market Changes**

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect

Fourth Avenue at 13th Street also at 57th Street—145-147 East
COMBINATION SAW AND JOINTER MOTOR DRIVEN UNIT

Delta 8 Inch Circular Saw and 4 Inch Jointer

Without Motor

Complete and self-contained; handy and practical in operation. Both jointer and circular saw mounted on a stand of heavy steel.

Jointer and circular saw are driven individually by means of two “V” belts and by the same motor. Possible to operate both machines at same time or any of the two separately.

If there is a large amount of circular saw work to be done and the jointer is not needed, it is only necessary to take off jointer belt from the motor drive pulley.

Both machines so placed that there is no interference of any kind with one another. Table of circular saw is sufficiently high to clear the jointer and its fence. Saw table tilts to right and away from jointer; fence of jointer can be tilted for bevel cuts without interference with the other machine.

A chute carries the shavings of the jointer away from machine. The whole unit runs smoothly and quietly. It may be placed in center of room, thus enabling cutting of long pieces. It is portable and can be carried to the job, or out in the open, and can be run from any light socket.

Easy to mount and line up any motor, as full directions come with stand. For average and production work we recommend a 1/2 H. P. 1750 R. P. M. constant speed type motor. (Use a 3/4 or 1/2 H. P. motor for light work.)

No. 350—Combination unit with No. 318, 8 inch circular saw, No. 200, 4 in. jointer, No. 350 stand, double pulley with 3/4 in. bore, No. 330 "V" belt and No. 307 "W" belt; motor and aluminum guards not included; shipping weight 150 pounds. Each $60.50

DELTA 4 INCH JOINTER UNIT

Without Motor

This compact sturdy machine is not only neat in appearance, but dependable and speedy in operation. Mounted on a rugged and heavy steel stand. Any 1/2 H.P., constant speed motor will give ample power for continuous work. Motors are easily mounted (full directions furnished).

Chute carries away shavings, which may be collected by placing box at rear of machine. Easily moved about and taken to the job. No need to first build a stand. Every patternmaker, assembler or finisher should have one alongside his bench.

No. 296—Jointer unit as shown with steel stand, "V" belt No. 307, 5 inch motor pulley No. 322 with 3/4 inch bore, and chute except that motor and aluminum guard are not included; shipping weight 71 pounds. Each $32.50

DELTA 8 INCH CIRCULAR SAW UNIT

Without Motor

This unit is self-contained and very practical; it has the same heavy steel stand as used for the 4 inch jointer, except that the chute is not required. Nearly every shop can use this practical and dependable machine. It can be placed in center of room for cutting long and large boards without interference. Motors are easily mounted (direction furnished). For average and production work we recommend a 1/2 H.P. constant speed motor, but for light work a 3/4 or 1/2 H.P. motor may be used.

No. 328—Circular saw unit, as shown, including steel stand, 5 inch motor pulley No. 322 with 3/4 inch bore, "W" belt No. 308, except that motor and aluminum guard are not included; shipping weight 97 pounds. Each $32.00

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—To Points Beyond Charges Collect
DELTA 4 INCH JOINTER

Indispensable for work within its capacity, and for such work it will be found even better, more handy, and more speedy than large expensive machines. Ideal for patternmakers, furniture and cabinetmakers, piano instrument factories, sash and door mills, experimental and development departments, maintenance and repairmen, assembly and fitting rooms, home workshops and for many other purposes.

Can be easily moved about and run from any light socket. May be connected to any constant speed motor, a 1/4 H.P., being more than sufficient.

Note the long graduated fence and large rabber arm.

Length of table 20 inches over all; fence tilts fully 45°.

No. 300—With 3 high speed knives, small pulley, graduated fence, but not including aluminum guard; shipping weight 43 pounds.……………….. Each $25.00

No. 303—Aluminum guard with pin and spring; shipping weight 1/2 pounds.……………….. Each $25.00

Note—4 inch jointer can be attached to motor base of Handi-Shop and No. 70 and No. 190 units by means of a combination sub-base and chute as shown on page 136.

Prices Subject to Market Changes

DELTA 8 INCH CIRCULAR SAW

Carpenters, cabinetmakers, patterners, signpainters, window-trimmers, stage hands, designers, tile-layers, experimenters, and patternmakers will find this saw a dependable and willing worker. In shipping departments, dry kilns, lumber yards and home workshops, it will save time and its cost over and over again. Equipped with a bakelite wheel it can be used for cutting tile, hardened steel, aluminum, or brass shapes and tubing, will do ripping, cross-cutting, grooving, rabbing, planing, and compound mitering to exact length, dadoing, cutting moldings, tenoning, plain or angular slitting, etc.

Size of table 14x17 inches; can be tilted fully 45° to right; rip gauge extends clear across table and is 13 1/4 inches high, 18 1/2 inches long; miterage 1 1/2 inches high, 6 inches wide, graduated 0° to 60° on both sides.

No. 308—With 8 inch A-Z blade, elevating screw, miterage, rip gauge and small pulley, as shown; shipping weight 65 pounds………….. Each $25.00

No. 318—With 8 inch A-Z blade, elevating screw, miterage, rip gauge and small pulley, as shown; shipping weight 65 pounds………….. Each $25.00

No. 333—Has two 1/2 inch wide outside cutters and one 1/4 inch wide and two 1/4 inch wide inside cutters; will cut these grooves 1/4, 1/4, 1/4, 1/4, 1/4, and 1/4 inch wide; has 3/4 inch hole; shipping weight 3 1/4 pounds. Per Set $12.00

ACESORIES FOR DELTA 4 INCH JOINTER AND 8 INCH CIRCULAR SAW

Swing Guard for 8 inch Circular Saw

Made of cast aluminum and swings on a rugged pivot yoke. Remains vertical when table is tilted and can be removed or swung out of way. Front is open with clear view to cut to a marked line. Offers least interference when in use.

Wide enough to protect dado heads up to 5/8 inch wide. Allows cross-cutting of boards 12 inches wide and ripping of very wide boards, as there is no interference on right side of blade. Distance from arm to left side of blade 1 1/4 inches. Can be attached in a few minutes. No holes to drill.

No. 320—With all bolts, collars, etc.; shipping weight 7 pounds. ………………….. Each $7.50

5 inch Motor Pulley

Drives jointer or 8 inch circular saw. Made with 1/2, 5/8, and 3/4 inch bore. Specify which. 3/4 inch bore has 1/4 inch keyway.

No. 322—5 inch pulley; shipping weight 7 1/4 pounds… Each $5.75

Note—Will furnish 1/4 inch bore unless otherwise specified.

5 inch Double Pulley

For unit No. 350 made with 1/2, 5/8, and 3/4 inch diameter bore. Specify which. 3/4 inch bore has 7/4 inch keyway. Pulleys 1 1/2 inches apart.

No. 338—5 inch double pulley; shipping weight 2 1/2 pounds. ………………….. Each $1.50

Note—Will furnish 3/4 inch bore unless otherwise specified.

6 inch Dado Set

No. 307—Most fool-proof belt drive made; more efficient than gears (95%); its No. 338 and No. 322 pulley; shipping weight 1 1/4 pounds……………….. Each $3.25

“V” Belt for 4 inch Jointer

No. 307—Most fool-proof belt drive made; more efficient than gears (95%); its No. 338 and No. 322 pulley; shipping weight 1 1/4 pounds……………….. Each $3.25

“V” Belt for 8 inch Circular Saw

No. 330—Will not slip and is easy on bearings; same as No. 307, only longer; shipping weight 10 oz. ………………….. Each $1.25

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
DELTA ATTACHMENTS FOR SANDING AND BORING

Delta Sanding Disc

The working and finishing of wood by the modern method of sanding has become widespread in the wood working industry. The fine finish obtainable with or against the grain and the saving of time and effort are but two of its many advantages. For successful sanding work it is essential to have a sufficiently large disc and an easily and quickly tilted table to support the work. (See No. 147 Table listed below).

Note—Short U-bed instead of regular lathe bed.

Simply lay out any regular or irregular shaped design, then cut off roughly the biggest "waste" pieces with either circular saw or scroll saw, and with the aid of this sanding disc and table, simply finish smoothly and exactly to the line.

No. 151—Sanding Disc, diameter 8 1/2 inches; fits any 1/2 inch diameter motor shaft; shipping weight 3 pounds. Each $2.50

DELTA COMBINATION BORING AND SANDING TABLE

Note—For illustration see cut of No. 151 Delta Sanding Disc shown above.

Will tilt fully 45° downward and 15° upward. Gives perfect support to work to be sanded. 3/4 inch wide x 3/8 inch deep slot allows use of No. 180 miter gage for sanding plain and compound miters to exact length.

Table can be raised and lowered, fine for boring or routing operations. Quickly attached. Fits any Delta Handi-Shop. Use short U-bed No. 154 if table wanted for Nos. 70, 72, 75, 78 or 100 units. Table finely machined.

No. 147—Table 5x12 inches; shipping weight 11 pounds. Each $5.00

DELTA SANDING DRUM

With bolt and nut for attaching to portable drill motor or regular lathe motor. For sanding irregular shapes, for sanding convex and concave surfaces, for smoothing and sanding inaccessible corners, drawers, closets and floors, and for removing paint and rust preparatory to welding, brazing or soldering.

Covered with thick layer of felt. Sanding paper quickly and easily changed. Sanding surface 2 inches wide, 2 1/2 inches diameter.

No. 200—With one sheet each fine and coarse garnet paper and emery cloth; shipping weight 1 pound. Each $2.00

DELTA ATTACHMENTS FOR SANDING AND BORING

BENCH OILERS

Wide Mouth

Heavy seamless steel domes, spring steel bottoms and machine cut threads. Collar, cap, bottom and nozzle are assembled without solder, which insures solid joints. 1 inch opening allows easy filling. Plated inside and out. Interchangeable spouts.

Straight Spouts

<table>
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<th>No.</th>
<th>Pints In.</th>
<th>In.</th>
<th>Each</th>
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</thead>
<tbody>
<tr>
<td>12</td>
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<td>3</td>
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<td>13</td>
<td>3/4</td>
<td>3</td>
<td>$0.23</td>
</tr>
<tr>
<td>13A</td>
<td>3/4</td>
<td>5</td>
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</tr>
<tr>
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<tr>
<td>14A</td>
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<td>$0.34</td>
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With 9 inch Bent Spouts

<table>
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<th>No.</th>
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<th>Diameter, in.</th>
<th>Each</th>
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<tbody>
<tr>
<td>14</td>
<td>3/4</td>
<td>3/8</td>
<td>$0.28</td>
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<tr>
<td>14B</td>
<td>3/8</td>
<td>3/4</td>
<td>$0.28</td>
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<tr>
<td>16</td>
<td>1</td>
<td>1/4</td>
<td>$0.36</td>
</tr>
</tbody>
</table>

POCKET OILERS

Perfect

For bicycles, guns, fishing tackle, typewriters, sewing machines, roller skates, etc.

Consists of tube, tip and cap. The tip throws only a few drops at a time, thereby avoiding loss.

Each $0.35

Prices Subject to Market Changes

POCKET OILERS

LUBRICATING OILS

Three-In-One

For lubricating light mechanisms, cleaning and polishing metal and wood, preventing rust and tarnish. Especially recommended for magneto bearings, the finest also for bicycles, sewing machines, guns, etc.

<table>
<thead>
<tr>
<th>In Bottles</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>$0.15</td>
</tr>
</tbody>
</table>

In Handy Cans

Flat tin oil can with sealing spout, can't leak, slips easily into hip pocket.

<table>
<thead>
<tr>
<th>Size</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 oz.</td>
<td>$0.15</td>
</tr>
</tbody>
</table>

NON-DRIYING, WILL NOT RUST, NO CorRODe

Pike

Perfectly pure, acidless, a non-drying oil. Will not gum nor corrode the most highly polished metal. Recommended for all purposes where a thin, pure oil is required as a lubricant or rust preventative. Also used for cleaning and polishing all kinds of wood and metal surfaces and on oil stones for sharpening tools, etc.

Each $0.30

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East
RAWLPLUGS
Fibre Screw Anchors—Hold Screws Fast

"Wherever You Use a Screw—Use a Rawlplug Too". Rawlplugs are fibre screw anchors used for holding wood screws in any kind of material such as plaster, brick, concrete, tile, etc. May also be used for filling worn screw holes where a handle or knob has been pulled out.

The Household Kit
For the Handy Man

Contains a special Rawlplug and Toolholder for hanging pictures, putting up bathroom fixtures, mounting shelves, etc., and a supply of No. 8 Rawlplugs, nickel plated screws, screw eyes and screw hooks.

Complete .......... Each $0.50

For the Complete Home Workshop or the Mechanic

Contractors Outfit packed in heavy gauge steel mechanics tool kit and contains following assortment: 100 each No. 8 x 1 in., 10 x 1 in., 12 x 1 1/4 in., 14 x 1 1/4 in. Rawlplugs; 25 each No. 8 1/4 x 1 in., 9 1/2 x 1 in. Rawlplugs; one Rawlplug and screw gauge; one tool eejector; three each No. 8, 10, 12 and 14 toolholder and instruction sheet.

Outfit complete .......... Each $20.00

This assortment provides sufficient variety to solve all the fixing and holding problems around the house, farm, garage, etc., from a bathroom fixture to a heavy motor or pump. Rawlplugs can be used for making holes in all sorts of masonry wherever necessary. Other sizes of Rawlplugs found useful around house and garage are listed below.

<table>
<thead>
<tr>
<th>Size</th>
<th>Rawlplug</th>
<th>Per 100</th>
<th>Per Dozen</th>
<th>Size</th>
<th>Rawlplug</th>
<th>Drill</th>
<th>Each</th>
<th>Size and Price</th>
<th>Drillholder</th>
<th>Each</th>
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</thead>
<tbody>
<tr>
<td>5-6</td>
<td>6 x 1</td>
<td>$1.15</td>
<td>1.25</td>
<td>No. 6</td>
<td>8 x 1</td>
<td>$0.30</td>
<td>3</td>
<td>No. 8</td>
<td>$0.75</td>
<td></td>
</tr>
<tr>
<td>7-8</td>
<td>8 x 1</td>
<td>1.80</td>
<td>2.25</td>
<td>No. 8</td>
<td>10 x 1</td>
<td>2.20</td>
<td>2.75</td>
<td>No. 10</td>
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<td>3.75</td>
</tr>
<tr>
<td>9-10</td>
<td>10 x 1</td>
<td>2.05</td>
<td>2.72</td>
<td>No. 10</td>
<td>12 x 1 1/2</td>
<td>3.50</td>
<td>4.00</td>
<td>No. 12</td>
<td>4.00</td>
<td>4.10</td>
</tr>
<tr>
<td>11-12</td>
<td>12 x 1 1/2</td>
<td>3.50</td>
<td>4.50</td>
<td>No. 12</td>
<td>14 x 1 1/2</td>
<td>5.00</td>
<td>5.50</td>
<td>No. 14</td>
<td>6.00</td>
<td>6.10</td>
</tr>
</tbody>
</table>

Rawlplugs are made for any size screw

Prices Subject to Market Changes

DOWEL PLATES

Polished Steel, Five Holes
Length 6 inches, width 1 1/2 inches.

No. 111C—Plain; 3/8 inch thick; for 1/8, 1/4, 3/8, 1/2 and 5/8 inch dowels .......... Each $0.85

No. 111G—Grooved; 3/8 inch thick; for 1/8, 1/4, 3/8, 1/2, and 5/8 inch dowels .......... Each $1.60

DOWEL SHARPENERS

Malleable Iron, Nickel Plated
Cuts very rapidly and can be readily resharpened. Each No. 22—Length 3 inches .......... $0.45

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
TOOL RACKS

Brass

In Two Foot Lengths
Width of Clasp Each
No. Inside, inches 230 ¾ 27 231 7/8 .30 232 1¾ .45

(Illustration half size of clasps No. 230)

Brass

(Illustrations half size)

No. 235 No. 236 No. 237
Nos. 235 236 237
Width of clasp inside, inches .06 .07 .10
Each .06 .07 .10

Steel Wire, Tinned
(Illustrations half size)

No. 101—For miscellaneous small tools Each $0.05
No. 102—For miscellaneous tools Each $0.05

Wire Brads

Note
In ordering, always specify gauge, length and be sure to state if flat heads or brad heads are wanted.

All Prices Per Pound

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<tr>
<th>3/8 inch</th>
<th>¼ inch</th>
<th>3/8 inch</th>
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3/4 inch

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<tr>
<td>.15</td>
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</table>

1 1/2 inch

<table>
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2 1/2 inch

<table>
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</table>

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
WOOD SCREWS

All Prices Per Gross

Flat Head
Round Head
Oval Head

Iron

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<tr>
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Brass

Flat Head

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<td>$0.22</td>
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</tbody>
</table>

Brass

Round and Oval Head

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</table>

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

DELIVERY PREPAID WITHIN 100 MILES—TO POINTS BEYOND CHARGES COLLECT.
ACME QUALITY PAINTS

True economy in the use of paint does not consist in purchasing at the lowest price per gallon, but in being reasonably sure that the paint is honestly made and possesses in the fullest degree the qualifications above outlined. Low priced paint may last one to two years—good paint four years or more. The cost of applying either is the same and is the largest item of expense. There is no economy, therefore, in buying at the lowest price per gallon. Years of service should be the consideration.

New Era House Paint

In 28 shades besides black and white. Outside white, Inside white, Interior high gloss white.

1 gal. ½ gal. 1 qt. 1 pt. ½ pt. $1.00 2.10 1.15 .60 .35

French gray No. 8, pearl gray No. 27, slate color No. 132, cream No. 140, meadow green No. 130, ivory No. 12, sky blue No. 42, Pompelan red No. 18, bungalow brown No. 141, pea green No. 135.

1 gal. ½ gal. 1 qt. 1 pt. ½ pt. $3.75 2.10 1.15 .60 .35

Ivy Green, No. 134 W. B. Green, No. 38.

Acorn Ready-Mixed House Paint

An economical, durable house paint put up in handy sizes for brightening up the home. It spreads easily, dries quickly, possesses wonderfull covering and wearing quality and may be used for inside or outside use.

In eight shades, besides black and white.

No. 251 light cream, No. 258 deep cream, No. 300 light buff, No. 256 nut brown, No. 252 light lead, No. 236 lead color, No. 229 sky blue and No. 305 window blind green.

1 qt. ½ gal. 1 gal. $0.75 1.40 $2.00

Window Blind Green Outside or Inside White $0.90 1.70 3.20 .80 1.50 2.80

Note—Send for full shade color cards of complete lines.

Note—We carry in stock a very complete line of finishes for all purposes, including raw linseed oil, japan dryers, turpentine, alcohol, oil, varnish and penetrating stains, etc., etc. Market fluctuations prohibit our listing prices on this material but we shall be pleased to quote at any time upon receipt of quantity specifications.

Prices Subject to Market Changes

Hammacher, Schlemmer & Co.

Fourth Avenue at 13th Street also at 57th Street—145-147 East

ACME QUALITY ENAMELS

No-Lustre Finish

Furnished in 10 attractive colors and comes ready for use on walls, woodwork, plaster or metal ceilings, burlap, fibre board, canvas, paper mache and interior surfaces generally.

White, light ivory No. 73, ivory No. 68, light tan No. 67, pea green No. 59, Silver gray No. 66.

1 gal. ½ gal. 1 qt. $3.10 1.70 .85

Enamel-Kote—Rapid Dryer

Dries in 4 hours. Comes all ready for use and gives a full, clear, beautiful gloss-finish in many attractive colors, affording wide scope for any treatment or scheme.

Neptune Green Chinese Red Jade Green India Ivory Orchid Brilliant White Old Rose Brilliant Black

1 gal. ½ gal. 1 qt. 1 pt. ½ pt. ½ pt. $5.60 3.00 1.50 .90 .50 .30

Note—Send for full shade color cards of complete lines.

ACME QUALITY VARNISH

Great Lakes Spar

This is a perfect varnish for all exterior and interior surfaces such as floors, linoleums, table tops, front doors, bath-rooms, window sills, automobiles, marine work and all other surfaces exposed to moisture and hard wear. Dries dust free in four to six hours and hard in twenty-four to thirty-six hours.

Floor Roe

A popular floor varnish of medium body and good gloss. Light in color. It dries quickly and thoroughly. If drying conditions are favorable, it can be walked on, if necessary, twenty-four hours after job is complete. This does not mean over night.

Size cans Great Lakes Spar Each $0.50 .85 1.55 Floor Roe Each .45 .75 1.30

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
BRUSHING LACQUER

Rogers

The most marvelous finish of the century. Especially for the amateur. No preparation. Merely brush the beautiful colors on—right over any old or new surface. Forms a smooth, satiny, colorful coating. Dries hard, ready for use, in 30 minutes (or less). And any person can use “Rogers”—it’s so easy. Comes in cans, ready mixed, in 19 beautiful colors. Also black, white and clear. Sold on a “Money Back” guaranty.

Popular Shades

White, ivory, black, Chinese red, turquoise, rich blue, lettuce green, forest green.

Size cans
Each
1 qt. 1 pt. ½ pt. ¼ pt.
$1.95 1.10 .65 .40

Thinner Liquid—Size cans
Each
$1.70 .95 .55 .33

Du Pont Duco

A pyroxylin product, the base of which is cotton. Nitration processes similar to those used in the manufacture of other Du Pont Products are utilized in making Duco. Brush Duco is identical in all essential characteristics with Spray Duco, used in automotive and industrial finishing; the only difference being a manipulation of liquids in order to permit of easy brush application.

Has a rich, satiny lustre and a hard, long-wearing surface. One of its most valuable characteristics is its quick-drying feature. Articles finished with Duco can be put back in use the same day.

May be applied over almost all types of surfaces. It is possible to intermix two or more shades of Duco to obtain any tone or tint desirable.

Popular Shades

White, ivory, mandarin red, jade green, Nile green, also stains.

Size cans
Each
1 qt. 1 pt. ½ pt. ¼ pt.
$2.20 1.20 .70 .37

Thinner Liquid—Size cans
Each
$1.70 .95 .55 .32

Note—Prices are given only on the most popular shades. Prices on other shades will be quoted on request. Send for full shade color card and instruction book.

Prices Subject to Market Changes

Fourth Avenue at 13th Street also at 57th Street—145-147 East

PLASTIC WOOD

“Handles Like Putty, Hardens Into Wood”

Unequaled for filling cracks in lumber, knot-holes, floor seams dented or splintered woodwork, and for covering counter-sunk screws or nails. It can be sandpapered and finished so that no trace of the repair remains.

The greatest repair material ever invented. Real wood in plastic form, sticks to wood, metal, porcelain, tile. Packed ready for use.

Colors—White, mahogany, oak, walnut and natural.

½ pound cans.............. $0.35
Small tubes............... 25

SHELLAC

White, Cut in Alcohol

½ pint bottle.................. $0.50

Orange, Cut in Alcohol

½ pint bottle.................. $0.25

“Brush-Nu”—Net weight of package 2½ oz.; softens up to five 3 inch brushes... Per Box $0.10

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
PAINT AND VARNISH BRUSHES

Wall Paint Brushes

No. 507—Set in Rubber
Pure black Chinese bristles; polished natural handle. An inexpensive painter's tool. Good filler length.

Width, in. 3 4
Each $0.65 1.10

“First Line”—Set in Rubber
Mixed black bristles; white metal ferrules; natural handle. An inexpensive household brush.

Width, inches 2 ½ 3 3 ½ 4
Each $0.50 .60 .65 .90

Flat Varnish Brushes

No. E—Set in Rubber
Pure unbleached bristles; nickel plated ferrule; natural finish handle.

Width, inches 1 1 ½ 2 2 ½ 3
Each $0.15 .15 .25 .35 .45

Chicago—Set in Rubber
Selected black Chinese bristles, long, fine and elastic; nickel plated ferrule; polished white panel handle; full center, triple thick, fine chisel edge.

Width, inches 1 ½ 2 2 ½ 3
Each $0.45 .65 .90

Flat Lacquer Brushes

Flo-Lac No. 1753
Selected fine bristles, specially set for lacquering.

Width, inches 1 1 ½ 2
Each $0.35 .45 .60

Prices Subject to Market Changes

SASH TOOLS

Rubberset

Style No. 42
Hard rubber bound; best all white bristles.

Size, Diameter,
Nos. Inches Each
1 ½ $0.55
2 ½ .65
3 3 ½ .75
4 ¾ .85
5 1 1.00

Style No. 96, Round
An excellent brush for small glue or paste work. All gray bristles.

Size, Diameter,
Nos. Inches Each
1 ½ $0.50
2 ¾ .55
3 ½ .65
4 ¾ .70
5 1 .90

PUTTY KNIVES

H. S. & Co.

No. 1540—Stiff Blade
Cocobolo handle, metal bolster.

Blade, inches 1 ½ x 3 ½ 2 x 3 ¼
Each $0.45 .55

No. 1540E—Elastic Blade
Cocobolo handle, metal bolster.

Blade, inches 1 ½ x 3 ½ 2 x 3 ¼
Each $0.50 .60

GLASS CUTTERS

New Rex

Interchangeable

New Rex—Cuts circles from 1 ¾ to 23 inches. Each $0.80

Red Devil

No. 024—4 ½ inches long, all iron, polished head, red painted handle, three keyed glass breakers, hand honed steel cutting wheel.

Each $0.15

Turret

Wood handle, nickel plated steel head and turret, 6 hardened and ground steel cutting wheels, turret may be revolved on or clamped to the frame by a screw at its center.

No. 10—5 ½ in. long...Each $0.25

Prices Subject to Market Changes
DIRT SHOVELS

Plain Back, Polished

Long Handle, Round Point

No. 2
Blade, inches $9\frac{1}{2} \times 11\frac{1}{4}$
Each $1.15$

D Handle, Square Point

Nos. 2 3
Blade, inches $9\frac{1}{4} \times 11\frac{1}{4}$ $10\frac{1}{4} \times 12\frac{1}{4}$
Each $1.15$ $1.20$

D Handle, Round Point

Nos. 2 3
Blade, inches $9 \times 11\frac{1}{4}$ $9\frac{1}{2} \times 12\frac{1}{4}$
Each $1.15$ $1.20$

GARDEN SHOVELS

Long Handle, Round Point
Especially designed for easy digging in the garden.
No. LOAO—Size No. 2.
Each $1.25$

GARDEN SPADES

Ames, Regulation Size
Length 39 inches; blade 7\(\frac{3}{4}\) inches wide x 11 inches long, polished; wood D handle.
No. 2—Plain back. Each $1.75$

Tapered
Designed and patterned after the French Peasant's spade; this tapered blade is ideal for turning over and breaking up light turf. Forged steel blade.
Length 41 inches over all; blade 5\(\frac{3}{4}\) inches wide at the top, 3\(\frac{3}{4}\) inches wide at the bottom and 12 inches long. Full polished.
Each $1.75$

Prices Subject to Market Changes

GARDEN SPADES

Ames, Junior Size
Length over all 31 inches; blade 5\(\frac{3}{4}\) inches wide x 8\(\frac{3}{4}\) inches long, polished; wood D handle.
No. F702—Plain back. Each $1.25$

Endorsed by Health and Fire Authorities.

For quick and safe disposal of rubbish, refuse and garbage for all home owners, private institutions, country clubs, schools, farm houses, camps, industrial plants, stores, etc.

Perforated inner flue, a patented feature which insures constant air circulation during filling period thus dehydrating wet garbage. Develops downward burning. Cannot clog nor smother fire.

Absolutely spark-proof—wire mesh guard at top of flue catches all sparks. Contents always out of sight. Easy to fill—or move from place to place. Burns anything burnable. No open flame or fire visible. Ashes removed only occasionally.

Capacity, bushels
87\(\frac{1}{2}\)
4\(\frac{1}{2}\)
2\(\frac{1}{2}\)

Diameter body, inches
33
24
19

Height body, inches
30
30
26

Over all, inches
63
63
55

Weight crated, lbs.
220
135
90

Each $92.50
52.50
27.75

RUBBISH BURNERS

Skyscraper

The most efficient outdoor incinerator for homes, stores, factories and institutions.

High carbon steel strips; will not warp or buckle, blow over or roll around.

Dont' allow rubbish to collect in cellars or attics. Burn it every day in a Skyscraper.

One in a carton, knocked down.

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
HEXAGON GALVANIZED POULTRY NETTING
In Rolls of 150 Linear Feet, Galvanized after Weaving

1 in. Mesh, No. 20 Wire
Width, Inches: 24 - $5.25; 30 - $6.25; 36 - $7.20; 48 - $9.60; 60 - $12.00; 72 - $14.35
Per Roll

2 in. Mesh, No. 19 Wire
Width, Inches: 24 - $2.65; 30 - $3.15; 36 - $3.60; 48 - $4.35; 60 - $5.60; 72 - $7.20
Per Roll

Note—Sold in full rolls only

GALVANIZED STEEL WIRE NETTING
In Rolls of 100 Linear Feet, Galvanized after Weaving

No. 4 Mesh
No. 4 mesh (1/4 inch square); standard No. 23 wire; carried in stock in widths of 24, 30, 36 and 48 inches.
Per Square Foot $0.05½

No. 2 Mesh
No. 2 mesh (1/2 inch square); standard No. 19 wire; carried in stock in widths of 24, 30, 36, 42 and 48 inches.
Per Square Foot $0.04½

Prices Subject to Market Changes

SCREEN WIRE CLOTH
In Rolls of 100 Linear Feet

Antique Bronze
This bronze wire is an alloy of non-corrodible metals of which copper represents about 90 per cent, and tests have proven it to be more durable than pure copper when used for window and door screens.

Requiring no paint, lacquer or other protective coating, light and air have an unobstructed passage through these fabrics. Exposure to the weather simply darkens the color, rendering the cloth nearly invisible.

We specially recommend Antique Bronze Wire Cloth in cases where exposed to salt air.

Carried in stock in widths of 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42 and 45 inches.

Per 100 Sq. Ft.
Full rolls, 14 mesh $6.50
Full rolls, 16 mesh $6.90
Less than full rolls, 14 mesh Per Square Foot $0.07
Less than full rolls, 16 mesh Per Square Foot $0.075½

Galvanoid
Galvanoid is heavily electro-plated after weaving, then a coat of transparent varnish is baked on. It is firm, durable and attractive, the best grade of zinc-coated cloth on the market. 14 mesh only.

Carried in stock in widths of 24, 26, 28, 30, 32, 34 and 36 inches.

Full rolls, 100 Square Feet $2.50
Less than full rolls, Per Square Foot .03

Prices Subject to Market Changes

Delivery Prepaid Within 100 Miles—to Points Beyond Charges Collect
IN ADDITION to the items shown in this catalogue, we offer a full line of—

TOOLS for Home and General Use, Cabinetmakers, Carpenters, Machinists, Toolmakers, Patternmakers, Schools and Colleges.

HARDWARE for Residences, Furniture and Cabinet Manufacturers and General Use.

SUPPLIES such as Nails, Screws, Nuts, Washers, Rivets, Wire, Abrasives, etc.

AUTOMOTIVE SUPPLIES—Tools and Equipment for Fleet Owners, Service Stations and also Individuals.

PAINTS—We carry in stock a full line of Acme Quality Paints, also Varnishes, Enamels, Stains, etc., for inside and outside use.

SPORTING GOODS—We carry a full line of sporting goods—including golf, tennis, baseball, fishing, and equipment for all outdoor and indoor sports.

And in our 57th Street store only

HOUSEWARES: Hundreds of things that make housekeeping easier—from simple items for kitchen and pantry to the more unusual type of housewares for Town and Country Homes.

Hammacher, Schlemmer & Co.

NEW YORK, Since 1848