## Mallets

### TINNERS' FIBRE
- Best fibre, wound in succulencies with film of waterproof between. Handle polished hickory and mallets have coat shellac.
- Sizes:
  - 102, 103, 104, 2.4, 2.4, 2.4, 2.4
  - 12, 12, 12, 12
- One in a paper sack:
  - 3, 6, 9
  - 12, 24, 36
  - 48, 80, 120

### CARPENTERS' ROUND
- **Hardwood.**
- **No. 25—Cruso, 6½ in. to 2½ in., w/t per doz. 14 lbs., per dozen $3.60**
- **No. 25½—6½ in., w/t per doz. 15 lbs., per dozen $4.40**

### RAWHIDE
- **Rawhide head, nicely varnished hickory handle.**
- **Nos.** 2 4 5
  - **Size, in.** 3 x 1½ 3 x 2 4 x 2
  - **W/t, doz., lbs.** 4 5 7 16
  - **Per dozen.** $18.00 20.80 25.40 28.40

### FIBRE HEAD
- **Beech, fibre head, polished steel ferrules screw handle.**
- **Nos.** 12 12½
  - **Size, in.** 4½ x 2 5½ x 2
  - **W/t, doz., lbs.** 15 21
  - **Per dozen.** $30.00 33.80

### CARPENTERS' SQUARE
- **Lignumvitae.**
- **No. 40—Hickory, 6½ x 2½, 3⅛ in., w/t per doz. 21 lbs., per dozen $13.50**

### IRON RING
- **No. 50—Wood faced, mortised, 4½ x 2 in. w/t per doz. 31 lbs., per dozen $24.40**

### IRON SOCKET
- **No. 51—Heavy malleable iron socket, hickory ends, 5⅛ x 2 in., w/t per doz. 44 lbs., per dozen $41.00**

### HARD RUBBER
- **Hard Rubber Head, Hickory Handle.**
- **Nos.** 6 7 8
  - **Size, in.** 3 x 2 4 x 2 5 x 2
  - **W/t, doz., lbs.** 3 3 3
  - **Per dozen.** $12.00 16.00 23.80

---

**ROSE TOOLS, INC.**

---

**HIBBARD, SPENCER, BARTLETT & CO.**

---

**STATE STREET BRIDGE**

---

**101**
## Price List of Files and Rasp

**List of Nov. 1, 1899**

As Adopted by the File Manufacturers Association of the United States, Nov. 1, 1899.

(Revised and Reprinted August 1, 1918.)

### Price Per Dozen

### Flat Wood Rasp

<table>
<thead>
<tr>
<th>Inch</th>
<th>Bast.</th>
<th>2d Cut</th>
<th>Smooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>9-1/4</td>
<td>11-1/4</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>9-1/4</td>
<td>11-1/4</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>11-1/4</td>
<td>13-1/4</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>13-1/4</td>
<td>15-1/4</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>15-1/4</td>
<td>17-1/4</td>
<td>13-1/4</td>
</tr>
<tr>
<td>16</td>
<td>17-1/4</td>
<td>19-1/4</td>
<td>17-1/4</td>
</tr>
<tr>
<td>18</td>
<td>19-1/4</td>
<td>21-1/4</td>
<td>21-1/4</td>
</tr>
</tbody>
</table>

### Half Round Wood Rasp

<table>
<thead>
<tr>
<th>Inch</th>
<th>Bast.</th>
<th>2d Cut</th>
<th>Smooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>8-1/4</td>
<td>10-1/4</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>10-1/4</td>
<td>12-1/4</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>12-1/4</td>
<td>14-1/4</td>
<td>18-7/8</td>
</tr>
<tr>
<td>12</td>
<td>14-1/4</td>
<td>16-1/4</td>
<td>18-7/8</td>
</tr>
<tr>
<td>14</td>
<td>16-1/4</td>
<td>18-1/4</td>
<td>18-7/8</td>
</tr>
<tr>
<td>16</td>
<td>18-1/4</td>
<td>20-1/4</td>
<td>20-1/4</td>
</tr>
<tr>
<td>18</td>
<td>20-1/4</td>
<td>22-1/4</td>
<td>22-1/4</td>
</tr>
</tbody>
</table>

### Cabinet Rasp

<table>
<thead>
<tr>
<th>Inch</th>
<th>2d Cut</th>
<th>Smooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>10-1/4</td>
<td>12-1/4</td>
</tr>
<tr>
<td>8</td>
<td>12-1/4</td>
<td>14-1/4</td>
</tr>
<tr>
<td>10</td>
<td>14-1/4</td>
<td>16-1/4</td>
</tr>
<tr>
<td>12</td>
<td>16-1/4</td>
<td>18-1/4</td>
</tr>
<tr>
<td>14</td>
<td>18-1/4</td>
<td>20-1/4</td>
</tr>
<tr>
<td>16</td>
<td>20-1/4</td>
<td>22-1/4</td>
</tr>
<tr>
<td>18</td>
<td>22-1/4</td>
<td>24-1/4</td>
</tr>
</tbody>
</table>

### Shoe Rasp

<table>
<thead>
<tr>
<th>Inch</th>
<th>Flat</th>
<th>Hf. Rd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>10-1/4</td>
<td>12-1/4</td>
</tr>
<tr>
<td>8</td>
<td>12-1/4</td>
<td>14-1/4</td>
</tr>
<tr>
<td>10</td>
<td>14-1/4</td>
<td>16-1/4</td>
</tr>
<tr>
<td>12</td>
<td>16-1/4</td>
<td>18-1/4</td>
</tr>
<tr>
<td>14</td>
<td>18-1/4</td>
<td>20-1/4</td>
</tr>
<tr>
<td>16</td>
<td>20-1/4</td>
<td>22-1/4</td>
</tr>
<tr>
<td>18</td>
<td>22-1/4</td>
<td>24-1/4</td>
</tr>
</tbody>
</table>

### Horse Rasp

<table>
<thead>
<tr>
<th>Inch</th>
<th>1/4 File</th>
<th>1/4 File</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>16-1/4</td>
<td>18-1/4</td>
<td>20-1/4</td>
</tr>
<tr>
<td>14</td>
<td>20-1/4</td>
<td>22-1/4</td>
<td>24-1/4</td>
</tr>
<tr>
<td>16</td>
<td>22-1/4</td>
<td>24-1/4</td>
<td>26-1/4</td>
</tr>
<tr>
<td>18</td>
<td>24-1/4</td>
<td>26-1/4</td>
<td>28-1/4</td>
</tr>
</tbody>
</table>

The above list comprises all of the kinds, sizes and cuts of files that will be regularly carried in stock. Anything differing from these files will be considered as special and will not be manufactured except in case of urgent necessity and when manufacturing price will be based strictly upon cost of material and cost of manufacture at time goods are made.
SECTIONS OF CYL. FILES IN GENERAL USE

Cuts represent practically the full size of the various shapes and length.

Mill Bastards.
- 4 IN.
- 5 IN.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Flat Bastards.
- 4 IN.
- 5 IN.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Half Round.
- 5 IN.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Round.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Square.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Regular Taper.
- 3 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Great American.
- 3 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Pit Saw.
- 3 IN.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 14 IN.
- 16 IN.

Cant Saw or Lightning.
- 3 IN.
- 6 IN.
- 8 IN.
- 10 IN.
- 12 IN.
- 16 IN.

Horse Rasps.
- 6 IN.
- 12 IN.
- 14 IN.
- 16 IN.
**MILL BASTARD FILES**

Taper in width and thickness from near center to point. Single cut. Principally used for sharpening mill saws, machine knives, etc., also in machine shops for lathe work, draw-filing, etc.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$3.00</td>
<td>$3.00</td>
<td>$3.50</td>
<td>$3.90</td>
<td>$4.30</td>
<td></td>
</tr>
<tr>
<td>Price, per dozen</td>
<td>$3.00</td>
<td>$3.20</td>
<td>$3.50</td>
<td>$3.80</td>
<td>$4.30</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$5.00</td>
<td>$5.20</td>
<td>$5.50</td>
<td>$5.90</td>
<td>$6.30</td>
<td></td>
</tr>
</tbody>
</table>

**Hibbard**, per dozen...

**Nicholson's**, per dozen...

**American**, per dozen...

**Black Diamond**, per dozen...

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>9</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$3.50</td>
<td>$3.80</td>
<td>$4.00</td>
<td>$4.20</td>
<td>$4.40</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$7.00</td>
<td>$7.60</td>
<td>$8.00</td>
<td>$8.40</td>
<td>$8.80</td>
</tr>
</tbody>
</table>

**3 TO 7 IN. NICHOLSON'S AND NEW AMERICAN 3 TO 10 IN. ONE DOZEN IN A BOX—OTHERS HALF DOZEN IN A BOX**

**FLAT BASTARD FILES**

Same as Flat Second Cut below except coarser teeth.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$3.70</td>
<td>$3.90</td>
<td>$4.30</td>
<td>$4.50</td>
<td>$5.00</td>
<td>$5.50</td>
<td>$6.00</td>
<td>$6.50</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$7.40</td>
<td>$8.80</td>
<td>$9.60</td>
<td>$9.80</td>
<td>$10.50</td>
<td>$11.00</td>
<td>$11.80</td>
<td>$13.00</td>
</tr>
</tbody>
</table>

**Hibbard**, per dozen...

**Nicholson**, per dozen...

**American**, per dozen...

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$5.40</td>
<td>$5.70</td>
<td>$6.00</td>
<td>$7.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$11.00</td>
<td>$11.40</td>
<td>$12.00</td>
<td>$14.00</td>
</tr>
</tbody>
</table>

**8 IN. ONE DOZEN, OTHERS HALF DOZEN IN A BOX**

**HAND BASTARD FILES**

Made tapering in thickness and parallel in width. Double cut, with one edge safe (no teeth). Used by machinists and engineers for finishing flat surfaces, etc.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$6.80</td>
<td>$7.10</td>
<td>$7.50</td>
<td>$8.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$13.50</td>
<td>$14.50</td>
<td>$15.00</td>
<td>$16.00</td>
</tr>
</tbody>
</table>

**MILL BASTARD FILES, WITH ONE ROUND EDGE**

Similar to MILL FILE but with one edge made round. Single cut. The round edge prevents the filing of sharp corners in gullets of teeth lessening the liability of saws cracking.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$4.80</td>
<td>$5.00</td>
<td>$5.20</td>
<td>$5.40</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$9.60</td>
<td>$10.10</td>
<td>$10.50</td>
<td>$10.80</td>
</tr>
</tbody>
</table>

**HIBBARD**, per dozen...

**Nicholson's**, per dozen...

**American**, per dozen...

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$6.70</td>
<td>$7.00</td>
<td>$7.50</td>
<td>$8.00</td>
<td>$8.50</td>
<td>$9.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$13.40</td>
<td>$14.00</td>
<td>$15.00</td>
<td>$16.00</td>
<td>$17.00</td>
<td>$18.00</td>
</tr>
</tbody>
</table>

**HAND SMOOTH FILES**

Same as Hand Bastard above except finer cut.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per doz., lbs.</td>
<td>$9.00</td>
<td>$9.50</td>
<td>$10.00</td>
<td>$10.50</td>
<td>$11.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$17.50</td>
<td>$19.00</td>
<td>$20.00</td>
<td>$21.00</td>
<td>$22.00</td>
</tr>
</tbody>
</table>
### FLAT SMOOTH FILES

Same as Flat Second Cut on page 87 except finer cut.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt, oz.</td>
<td>1</td>
<td>2</td>
<td>4</td>
<td>7</td>
<td>13</td>
<td>12</td>
<td>15</td>
<td>20</td>
</tr>
</tbody>
</table>

**CYD, dozen**...$1.39 5.30 6.60 8.70 12.10 16.70

**Nicholson's, dozen**...$2.90 5.30 6.60 8.70 12.10 16.70

**American, dozen**...$3.40 6.60 8.70 12.10 16.70

---

### HALF ROUND BASTARD FILES

Taper to the point from about two-thirds of its length. The shape makes it one of the most useful files for machine shop work.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt, oz.</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
</tbody>
</table>

**CYD, per dozen**...$4.80 5.40 6.10 7.50 9.10 11.80 15.50 20.60

**Nicholson's, per dozen**...$4.80 5.40 6.10 7.50 9.10 11.80 15.50 20.60

**American, per dozen**...$4.80 5.40 6.10 7.50 9.10 11.80 15.50 20.60

---

### WARDING BASTARD FILES

A very thin file tapering toward and on the point. Double cut. Used for slotting work by jewelers, machinists, and by locksmiths for filing slots or ward notches.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt, oz.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**CYD, per dozen**...$5.40 6.10 6.90

**Nicholson's, per dozen**...$5.40 6.10 6.90

**American, per dozen**...$5.40 6.10 6.90

---

### SQUARE BASTARD FILES

Taper short distance toward and on the point. Double cut. Used by most all classes of mechanics for filing apertures. Dressing out square corners, etc.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt, oz.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**CYD, per dozen**...$3.60 4.10 4.60 5.50

**Nicholson's, per dozen**...$3.60 4.10 4.60 5.50

**American, per dozen**...$3.60 4.10 4.60 5.50

---

### HALF ROUND SECOND CUT FILES

Same as Half Round Bastard except teeth are finer.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt, oz.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**CYD, per dozen**...$6.70 8.30 10.10 13.00 17.00

**Nicholson's, per dozen**...$6.70 8.30 10.10 13.00 17.00

---

### HALF ROUND SMOOTH FILES

Same as Half Round Bastard except teeth are finer.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>5</th>
<th>8</th>
<th>10</th>
<th>13</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt, oz.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**CYD, per dozen**...$13.90 18.30 24.20

**Nicholson's, per dozen**...$13.90 18.30

---

Weights on files are for CYD, Weights on other files are approximately the same.
HALF ROUND CABINET FILES

These are Half Round in shape, but slightly wider and thinner and have finer teeth than Half Round Wood Files. Double cut. Used for finer work in Cabinet making and Woodworking.

- **Length**, in.: 8, 10, 12, 14
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $10.10, 13.70, 18.70, 24.80
  - **Nicholson’s**, per dozen: $10.10, 13.70, 18.70, 24.80
  - **American**, per dozen: $10.10, 13.70, 18.70, 24.80

8 IN., ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND SHEAR TOOTH OR BABBIT FILES

Similar in shape to the regular Half Round Files, with teeth special. Single cut, being much coarser and deeper than ordinary. Adapted for quick cutting on soft steel, iron, brass castings, wood, marble, and especially for machinists. Makes a “shear cut”, rapid, clean and smooth.

- **Length**, in.: 12, 14
- **Wt per doz., lbs.**:
  - Per dozen $11.80

HALF DOZEN IN A BOX

HALF ROUND CABINET RASPS

Half Round in form, slightly wider and thinner and given finer teeth than Half Round Wood Rasps. Used by Cabinet Makers and Woodworkers.

- **Length**, in.: 8, 10, 12, 14
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $12.80, 17.50, 22.80, 29.60
  - **Nicholson’s**, per dozen: $12.80, 17.50, 22.80, 29.60
  - **American**, per dozen: $12.80, 17.50, 22.80, 29.60

8 IN., ONE DOZEN, OTHERS HALF DOZEN IN A BOX

HALF ROUND WOOD RASPS

The form of this Rasp, half round one side, flat on the other, permits its use on a great variety of work. Employed by Wheelwrights, Carriage Builders, Plumbers, Cabinet, Saddle-Tree, Patterns, Last Makers, Gunstock Makers and Woodworkers generally.

- **Length**, in.: 8, 10, 12, 14
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $10.10, 13.70, 18.70, 24.80
  - **Nicholson’s**, per dozen: $10.10, 13.70, 18.70, 24.80
  - **American**, per dozen: $10.10, 13.70, 18.70, 24.80

HALF DOZEN IN A BOX

Weights on files are for **Hibbard**. Weights on other files are approximately the same.

FLAT WOOD RASPS

Flat on both sides. Used by the same classes of trades as Half Round.

- **Length**, in.: 10, 12, 14
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $12.80, 17.70, 22.80, 24.80
  - **American**, per dozen: $12.80, 17.70, 22.80, 24.80

HALF ROUND SHOE RASPS

Made with punched teeth on half of one side. Double cut teeth on other half. Cut on ends. Used by Shoemakers for filing the soles and heels of shoes.

- **Length**, in.: 6, 8
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $8.10, 10.10, 13.70
  - **American**, per dozen: $8.10, 10.10, 13.70

6 IN. AND 8 IN., ONE DOZEN; 10 IN., HALF DOZEN IN A BOX

TANGLED HORSE RASPS

Tangled for use with handle. Used by Horse-shoers, Farriers, Blacksmiths, etc.

- **Length**, in.: 12, 14, 16
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $23.10, 32.80

PLAIN HORSE RASPS

Used by Horse-shoers etc.

- **Length**, in.: 12, 14, 16
- **Wt per doz., lbs.**:
  - **Hibbard**, per dozen: $12.80, 17.70, 22.80

HORSE RASPS, narrow, length 18 in., w't per doz., 30 lbs., per dozen:

- **Hibbard**, per dozen: $25.90

ALL HORSE RASPS HALF DOZEN IN A BOX
SLIM TAPER SAW FILES

Similar to Regular Taper Saw Files but of a thickness between the Regular and Extra Slim Tapers. Used for filing Hand Saws and other small saws.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>3</th>
<th>3½</th>
<th>4</th>
<th>4½</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>0.06</td>
<td>0.06</td>
<td>0.10</td>
<td>0.10</td>
<td>0.14</td>
</tr>
<tr>
<td>G &amp; B, per dozen</td>
<td>$2.10</td>
<td>2.10</td>
<td>2.20</td>
<td>2.30</td>
<td>2.50</td>
</tr>
<tr>
<td>Nicholson’s, per dozen</td>
<td>2.10</td>
<td>2.10</td>
<td>2.20</td>
<td>2.30</td>
<td>2.50</td>
</tr>
<tr>
<td>American, per dozen</td>
<td>2.10</td>
<td>2.10</td>
<td>2.20</td>
<td>2.30</td>
<td>2.50</td>
</tr>
</tbody>
</table>

ONE DOZEN IN A BOX

DOUBLE ENDER SAW FILES

These are also termed Reversible Tapers, being practically two files in one. Single cut. Used for the same purpose as Taper Saw Files, filing Hand Saws and smaller saws.

With Handle.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>0.06</td>
<td>0.06</td>
<td>0.08</td>
<td>0.09</td>
</tr>
<tr>
<td>G &amp; B, per dozen</td>
<td>$3.50</td>
<td>3.80</td>
<td>4.40</td>
<td>4.90</td>
</tr>
<tr>
<td>Nicholson’s, per dozen</td>
<td>3.50</td>
<td>3.80</td>
<td>4.40</td>
<td>4.90</td>
</tr>
<tr>
<td>American, per dozen</td>
<td>3.50</td>
<td>3.80</td>
<td>4.40</td>
<td>4.90</td>
</tr>
</tbody>
</table>

NEW AMERICAN, ONE DOZEN; OTHERS, HALF DOZEN IN A BOX

SLIM BLUNT FILES

A narrow, triangular shaped file, parallel in width, allows greater sweep or stroke. Single cut. Used for filing the firmer or smaller toothed saws.

One Handle Supplied with Every Three Files.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>4½</th>
<th>5</th>
<th>5½</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>0.12</td>
<td>0.12</td>
<td>0.14</td>
<td>0.14</td>
<td>0.16</td>
</tr>
<tr>
<td>Weed’s Special, per dozen</td>
<td>$2.30</td>
<td>2.50</td>
<td>2.90</td>
<td>3.10</td>
<td>3.80</td>
</tr>
</tbody>
</table>

ONE DOZEN (WITH FOUR HANDLES) IN A BOX

GREAT AMERICAN SAW FILES

This is a particular form of file made expressly for filing the special shaped teeth and gullets in the Great American Cross-Cut Saw. It is single cut.

For Disston’s Great American Cross-Cut Saws.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>0.12</td>
<td>0.14</td>
</tr>
<tr>
<td>G &amp; B, per dozen</td>
<td>$7.50</td>
<td>9.10</td>
</tr>
<tr>
<td>American, per dozen</td>
<td>7.50</td>
<td>9.10</td>
</tr>
</tbody>
</table>

ONE DOZEN IN A BOX

NICHOLSON’S BANDSAW BLUNT SLIM FILES

Made especially for filing band saws.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>6</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>0.12</td>
<td>0.14</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$3.90</td>
<td>5.30</td>
</tr>
</tbody>
</table>

ONE DOZEN IN A BOX

GANT OR LIGHTNING FILES

A three-sided file, slightly flattened in form, single cut on each side. Specially used for filing the teeth in Wood or Buck Saws and other saws having M shaped teeth.

<table>
<thead>
<tr>
<th>Length, in.</th>
<th>6</th>
<th>8</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>0.12</td>
<td>0.14</td>
<td>0.16</td>
</tr>
<tr>
<td>G &amp; B, per dozen</td>
<td>$5.40</td>
<td>6.40</td>
<td>8.70</td>
</tr>
<tr>
<td>Hibbard, per dozen</td>
<td>5.40</td>
<td>6.40</td>
<td>8.70</td>
</tr>
<tr>
<td>Nicholson’s, per dozen</td>
<td>5.40</td>
<td>6.40</td>
<td>8.70</td>
</tr>
<tr>
<td>American, per dozen</td>
<td>5.40</td>
<td>6.40</td>
<td>8.70</td>
</tr>
</tbody>
</table>

ONE DOZEN IN A BOX

Weights on files are for G & B. Weights on other files are approximately the same.
CORRUGATING FILES

DISSTON, 8 in. crucible steel, fine cut, carefully tempered. This file is made especially for barber's use.

No. 8—W't per doz. 41 lbs. .......... per dozen $5.20
ONE DOZEN IN A BOX

NEEDLE FILES

Small, slender, extremely fine cut files, made in different forms. Used by Jewelers, Watchmakers, Die Sinker, Tool Makers and for general superfine work.

Flat.

Square.

Three-Square.

Round.

Half-Round.

Knife.

Oval.

Disston's, assorted, 2 each, flat, square, round, half-round and oval, 1 each three-square and knife, length 5¼ in., per dozen $4.70
ONE DOZEN IN A BOX

ASSORTED DIE SINKERS' FILES

No. 1—Flat. No. 5—Three Square. No. 9—Square.
No. 2—Pippin. No. 6—Oval. No. 10—Crochet.
No. 8—Lozenge. No. 7—Warding. No. 11—Knife.
No. 4—Auriform. No. 8—Half Round. No. 12—Round.
No. 15—33 in., one dozen assorted shapes, flat safe edge, pippin, lozenge, auriform, three square, oval, warding, half round, square, crochet, knife and round—sold in sets only per set $6.30

AUGER BIT FILES

Prices on Application

For Auger Bits of All Sizes.
This file is made especially for the purpose, and will do quick and fine work without the danger of ruining the tool.

No. 1—7 in., double ender; one end having flat file with smooth edges, the other end being smooth with file edge per dozen $6.50
ONE DOZEN ON AN EASEL BACK CARD WEIGHT ½ LB. PER DOZEN

FILE CLEANERS

No. 9—Nicholson's, wood back and frame, hardened tempered steel wire teeth, with screeper, length 10 in., w't per doz. 34 lbs. ......... per dozen $13.50
HALF DOZEN IN A BOX

No. 1—Hargrave's, wood back and frame, tempered steel wire teeth, insuring long service, length 8¼ in., w't per doz. 24 lbs. .......... per dozen $7.90
ONE DOZEN IN A BOX

No. 10—Colton's patent file cleaners, steel back, frame and face, hardened and tempered, steel wire teeth, with soft steel pick for removing substances deeply embedded between teeth of files, length 7½ in., w't per doz. 21 lbs. .......... per dozen $8.50
ONE DOZEN IN A BOX

This brush is made of round tempered steel wire, iron handle and ferrule, and is non-breakable. This is a handy little brush for the tool kit.

No. 766—Length 5 in., 11 in. bristles, w't per doz. 2 lbs. .......... per dozen $1.75
ONE DOZEN IN A BOX

Useful in engine room, factory farm and household. May be used for removing rust if used with a little acid, for cleaning brass, iron that needs painting, pots and pans. Indispensable in cleaning harvesting machinery, etc., as reaches every nook and corner.

No. 05—Pilley Quick, wire handle, 5 in. long steel bristles 1½ in., width 2½ in., length 7½ in. over all, w't per doz. 3 lbs. .......... per dozen $5.45
ONE DOZEN IN A BOX
**Auger Bits**

**Jennings Pattern**
- Extra cast steel, extension lips.
- No. 15 GVB: Inches 3-16, 4-16, 5-16, 6-16, 7-16, 8-16
  - Wt per dozen, lbs: 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4
  - Per dozen: $8.40, 7.00, 7.00, 7.00, 7.00
- No. 15 GVB: Inches 9-16, 10-16, 11-16, 12-16, 13-16
  - Wt per dozen, lbs: 24, 23, 22, 4 1/2, 6 1/2
  - Per dozen: $11.50, 10.40, 10.00, 9.80, 9.80

**Irwin Pattern**
- Extra cast steel, solid center stem, double cutter, extension lips, patent squared shanks.
- No. 62T: Inches 3-16, 4-16, 5-16, 6-16, 7-16, 8-16, 9-16
  - Wt doz., lbs: 1, 1 1/2, 1 3/4, 2, 2 1/4
  - Per dozen: $6.40, 5.70, 5.70, 5.70, 6.40
- No. 62T: Inches 10-16, 11-16, 12-16, 13-16, 14-16, 15-16, 16-16
  - Wt doz., lbs: 24, 23, 22, 4 1/2, 6 1/2
  - Per dozen: $8.50, 10.00, 10.00, 11.40, 11.40, 12.60, 12.80

**Sets in Boxes or Rolls**
- No. 35: 12x2x3 1/2 in. varnished hardwood box, containing one set 20% quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 12-16, 14-16, and 16-16ths Irwin auger bits, w't 4 1/4 lbs
  - Per set: $9.30
- No. 32: 11x6x3 in., handsome hardwood box, containing one set 32% quarters, 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16, and 16-16ths, Irwin auger bits, w't 5 1/4 lbs
  - Per set: $10.60

**Irwin Pattern**
- Solid center, extension lip, single cutter, polished coarse screw for fast boring.
- A high grade bit, specially designed for Electricians, Plumbers, boring in hard wood and rough work.
- No. 31 GVB:
  - Inches: 3-16, 4-16, 5-16, 6-16, 7-16, 8-16, 9-16
  - Wt, doz., lbs: 1 1/2, 1 3/4, 2, 2 1/4, 2 1/4
  - Per dozen: $6.40, 5.70, 5.70, 5.70, 6.40
- No. 31 GVB:
  - Inches: 10-16, 11-16, 12-16, 13-16, 14-16, 15-16, 16-16
  - Wt, doz., lbs: 3, 3 1/2, 4, 4 1/2, 5, 5 1/2
  - Per dozen: $8.50, 10.00, 10.00, 11.40, 11.40, 12.80

**Sets in Boxes**
- No. 332 GVB: Sets of 32% quarters, one each 1/16, 1/8, 1/4:
  - W't, per set 5 1/2 lbs: $10.60
## AUGER BITS

### IRWIN pattern, extra cast steel, extension lip, double cutter, black japanned finish, polished edges on twist.

| No. 26 REVOLVE | 
|---|---|
| Inches | 3.16 4.16 5.16 6.16 7.16 8.16 9.16 |
| Wt, doz., lbs. | $5.50 4.90 4.90 4.90 5.50 6.10 6.60 |
| Per dozen | $17.60 17.60 17.60 17.60 17.60 17.60 |

### PUGH AUGER BITS

Hand made from highest grade crucible steel. Bores exact size, double spur, natural finish twist. Used especially in car and railroad shops, and by high class mechanics, but are well adapted for all general purposes. The lasting qualities of these bits are unequalled by any on the market.

| No. 72 | 
|---|---|
| Inches | 4.16 5.16 6.16 7.16 8.16 9.16 10.16 |
| Wt, doz., lbs. | 1 1 1 1 2 2 2 |
| Per dozen | $24.00 28.30 28.30 30.60 32.80 35.00 |

### SETS IN BOXES

Oiled hard wood boxes 11x6x2 in.

<table>
<thead>
<tr>
<th>No. 262</th>
<th>One set of 32/ quarters, one each 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16-16, No. 26 bits, wt per set 23 lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per set</td>
<td>$9.50</td>
</tr>
</tbody>
</table>

### CRUZO JAPANNED AUGER BITS

Cast Steel, Solid Center, Extension Lip, Double Cutter.

| No. 062-Cruzo, Inches | 3-16 4-16 5-16 6-16 7-16 8-16 9-16 |
| Wt, doz., lbs. | 1 1 1 1 1 1 1 |
| Per dozen | $4.50 4.00 4.00 4.00 4.50 4.50 5.00 |

| No. 062-Cruzo, Inches | 10-16 11-16 12-16 13-16 14-16 15-16 16-16 |
| Wt, doz., lbs. | 2 3 3 4 4 4 5 |
| Per dozen | $5.50 6.50 6.50 7.80 7.80 8.50 8.50 |

### RUSSELL JENNINGS AUGER BITS

<table>
<thead>
<tr>
<th>No. 24</th>
<th>Extra Cast Steel, Extension Lips.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>3-16 4-16 5-16 6-16 7-16 8-16 9-16</td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>1 1 1 1 2 2 2</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.40 9.50 9.50 9.50 9.50 9.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. 24</th>
<th>Extra Cast Steel, Extension Lips.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>10-16 11-16 12-16 13-16 14-16 15-16 16-16</td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>3 3 3 4 4 4 5</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.40 13.30 13.30 15.70 15.70 18.00 18.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. 24</th>
<th>Extra Cast Steel, Extension Lips.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>3-16 4-16 5-16 6-16 7-16 8-16 9-16</td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>5 5 5 5 5 5 5</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.40 13.30 13.30 15.70 15.70 18.00 18.00</td>
</tr>
</tbody>
</table>

### IN SETS

| No. 062-Cruzo, sets of 32/ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16, and 16-16 in., wt 5 lbs. |
|---|---|
| Per set | $6.50 |

| No. 062-Cruzo, sets of 32/ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16, and 16-16 in., wt 5 lbs. |
|---|---|
| In sets | $16.00 |
ROSE TOOLS, INC.

AUGER BIT SETS

In. Bartlett cherry finished wood boxes with compartments for each size bit.

No. 15 CYD—Extra Cast Steel.

No. 213—11x6x2 in., one set of 32¼ quarters, one each 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15 and 16-16 in., w't per set 10 lbs. .................................................. per set $19.50

No. 6-11x6x1¾ in., one each 4, 6, 8, 10, 12 and 16-16 in., w't per set 3 lbs. .................................................. per set $5.80

No. 8-11x7¼ in., one each 4, 5, 6, 8, 10, 12, 14 and 16-16 in., w't per set 3½ lbs. .................................................. per set $7.70

CYD AUGER BIT SETS

CYD auger bits are made from extra quality tool steel, they are carefully forged so that the steel may be uniform in density and every precaution is taken to see that the strength at the points of strain. The tempering is done by the most accurate modern method. The lips and throat are filed to such form that they will give their cutting edges and give the greatest amount of service, patent square shanks that center accurately with center of bit.

No. 20 Irwin Pattern.

No. 220 CYD—Sets of 20¼ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 14-16 and 16-16 in., and one screw driver bit, w't per set 4½ lbs. ........................................ per set $7.30

No. 232 CYD—Sets of 32¼ quarters, one each 4-16, 5-16, 6-16, 7-16, 8-16, 9-16, 10-16, 11-16, 12-16, 13-16, 14-16, 15-16 and 16-16 in., w't per set 4½ lbs. ........................................ per set $10.50

LOOSE

BARTLETT AUGER BOXES

Consists of No. 20 CYD Bits.

No. 500 CYD—Size 10½x4½x1¼ in., one each 4, 5, 6, 8, 10 and 1½ in., w't 1½ lbs. .................................................. per set $4.40

CRUSO AUGER BIT SETS

Consists of six japanned solid center bits.

No. 600—Cruso, 10½x4½x1¼ in., one each 4, 5, 6, 8, 10 and 1½ in. in slide cover box, w't 1½ lbs. ................ per set $3.00

CRUSO AUGER BIT ROLLS

Canvas case only, leather bound, leather strap and buckle.

Nos. .................................................. 3 2
Size, in. 18x11 12x10
To hold bits 13 6
W't doz. lbs. 3½ 2½
Per dozen ........................................ $15.40 10.80

BARTLETT AUGER BOXES

Nos. .................................................. 16 18 013
Bits 6 8 13
W't each, lbs. 12 12 2
Per dozen ........................................ $11.50 15.60 19.80

LOOSE
**SNELL’S CAR BITS**

Superior cast steel, extension lip, 12 in. polished twist.

No. 206—Inches 6-16 7-16 8-16 9-16
Wt per doz., lbs. 3 3 4 5
Per dozen $11.25 11.25 11.25 12.50

No. 206—Inches 10-16 11-16 12-16 13-16
Wt per doz., lbs. 6 6 6 7
Per dozen $13.75 15.00 16.25 17.50

HALF DOZEN IN A BOX

**PUGH CAR BITS**

Hand made to exact size from highest grade crucible steel. Double spur natural finish twist. Because of their great lasting qualities they are preferred by many for use in car and railroad shops and by high grade mechanics. Especially adapted for boring hard wood.

**6 IN. TWIST**

No. 78—
Inches 6-16 7-16 8-16 9-16 10-16 11-16 12-16
Wt, doz., lbs. 2 2 3 3 4 4 5
Per dozen $22.00 22.00 22.00 25.00 28.00 30.50 33.00

**9 IN. TWIST**

No. 178—
Inches 6-16 7-16 8-16 9-16 10-16 11-16 12-16
Wt, doz., lbs. 3 3 4 4 5 5 6
Per dozen $26.00 26.00 26.00 29.00 32.50 35.00 38.50
HALF DOZEN IN A BOX

**SNELL’S SHIP AUGERS**

With Screw.

Superior Cast Steel, Japanned Inside, Polished Edges and Shank.

**Inches**

6-16 7-16 8-16 9-16 10-16
Twist, in. 8 9 9 10 11
Wt per doz., lbs. 2 3 4 5 6

No. 541—With screws, dozen $15.00 11.00 10.00 11.00 11.00
No. 542—Without screw, dozen $13.20 12.20 13.20 13.20 13.20

**Inches**

11-16 12-16 13-16 14-16 15-16
Twist, in. 12 12 12 13 14
Wt per doz., lbs. 8 9 10 11 12

No. 541—With screw, dozen $12.00 12.00 13.00 13.00 14.50
No. 542—Without screw, dozen $14.40 14.40 15.60 15.60 17.40

**Inches**

16-16 17-16 18-16 19-16
Twist, in. 14 14 14 14
Wt per doz., lbs. 26 26 26 26

No. 541—With screws, dozen $15.00 23.00 32.00 45.00
No. 542—Without screws, dozen $21.00

4-16 TO 16-16TH HALF DOZEN; OTHERS QUARTER DOZEN

IN A BOX
## SNELL'S SHIP AUGER BITS

<table>
<thead>
<tr>
<th>No.</th>
<th>Length (inches)</th>
<th>Size</th>
<th>Twist</th>
<th>Wt. per doz., lbs</th>
<th>Per dozen</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>503</td>
<td>4-16</td>
<td>5-16</td>
<td>5-16</td>
<td>6-16 7-16 8-16</td>
<td>$9.00</td>
<td>9.00</td>
</tr>
<tr>
<td>504</td>
<td>9-16</td>
<td>10-16</td>
<td>11-16</td>
<td>12-16 15-16</td>
<td>$11.20</td>
<td>12.00</td>
</tr>
<tr>
<td>505</td>
<td>13-16</td>
<td>14-16</td>
<td>15-16</td>
<td>16-16 18-16</td>
<td>$15.80</td>
<td>15.80</td>
</tr>
</tbody>
</table>

**SHIP AUGERS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Length (inches)</th>
<th>Twist</th>
<th>Wt. per doz., lbs</th>
<th>Per dozen</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>57</td>
<td>6-16</td>
<td>7-16</td>
<td>9-16 10-16 11-16</td>
<td>$15.00</td>
<td>15.00</td>
</tr>
<tr>
<td>57</td>
<td>12-16</td>
<td>13-16</td>
<td>14-16 15-16 16-16</td>
<td>$21.00</td>
<td>21.00</td>
</tr>
<tr>
<td>57</td>
<td>17-16</td>
<td>18-16</td>
<td>19-16 20-16 24-16</td>
<td>$30.00</td>
<td>30.00</td>
</tr>
</tbody>
</table>

**BIT EXTENSIONS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Length (inches)</th>
<th>Wt. per doz., lbs</th>
<th>Per dozen</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>12 15 18 21 24</td>
<td>6 7 8 9 11</td>
<td>$32.00</td>
<td>32.00</td>
</tr>
</tbody>
</table>

**STEER'S EXPANSIVE AUGER BITS**

- Highly Polished, Two Cutters, Micrometer Screw Adjustment, Cutters are Toothed and Will Not Slip or Creep.
- Small, $1 to 2 in. cut, w/t per doz. 41 lbs., $48.60 per dozen.
- Large, 1 to 3 in. cut, w/t per doz. 83 lbs., $59.40 per dozen.

**OVI EXPANSIVE AUGER BITS**

- Extra Fine Tool Steel, Gun Metal Finish, Polished Cutters, Carefully Tempered, with Two Cutters.
- The bits are made of an extra fine tool steel, carefully tempered cutters are accurately fitted to bits and are as high grade as can be made.
- No. 100 OVI—Small, $1 to 1½ in. cut, w/t per doz. 3 lbs., per dozen $32.40
- No. 125 OVI—Large, $1 to 3 in. cut, w/t per doz. 7½ lbs., per dozen $46.80

**SPECIAL EXPANSIVE BITS**

- Extra Fine Tool Steel, Full Polished, Carefully Tempered, with Two Cutters.
- The cutter intermeshes with a cross feed screw, which is firmly held and is forced into a dovetail and directly against the stem of bit.
- It is impossible for the cutter to move while the bit is in operation. The cutter itself is of special construction, having a uniform bevel or cutting edge its entire length.
- These bits are patented and have the latest and most improved features, as high grade a bit as can be made.
- No. 150 OVI—Small, $1 to 1½ in. cut, w/t per doz. 4½ lbs., per dozen $49.50
- No. 175 OVI—Large, $1 to 3 in. cut, w/t per doz. 8½ lbs., per dozen $58.50

**CLARK EXPANSIVE AUGER BITS**

- Highly Polished, Two Cutters.
- Small, $1 to 1½ in. cut, w/t per doz. 6 lbs., per dozen $28.80
- Large, $1 to 3 in. cut, w/t per doz. 8 lbs., per dozen $41.60

---

ROSS TOOLS, INC.
CARPENTERS' NUT AUGERS

Solid Center, Superior Cast Steel, Full Polished, Double Center 10 in. Twist, 18 in. Over All.

No. 74

Inches ... 1 1 1 1 1 1 1 1 2 2 2 2 2
W't, doz., lbs. ... 10 14 18 22 26 30 33
Per dozen ... $23.90 30.60 39.60 46.80 54.00 61.20 66.40
QUARTER DOZEN IN A BOX

DOWEL SHARPENERS

No. 22—Stanley's, improved, w't per doz. 1 lb., per dozen ... $6.20
HALF DOZEN IN A BOX

Dowel Bits

3½ Inches Long.

Inch ... 1 4 5 16 3 8 1 2
W't per doz. ... 2 2 2 2 2 2 2 4
Per dozen ... $6.50 9.50 9.50 9.50
ONE DOZEN IN A BOX

POLISH CUTTERS

Polished knives, made from high grade tool steel carefully tempered. Knives are held in place by a steel band and easily replaced. These are used for cutting plugs where it is necessary to cover the heads of screws on all work requiring a fine finish.

Nos. ... 1 2 3 4 5
Size ... 3 3 3 3 3
W't per doz., lbs. ... 2 2 2 2 2
Per dozen ... $9.40 10.00 10.50 11.30 12.00
HALF DOZEN IN A BOX

HOLLOW AUGERS

No. 4—Adjustable, japanned disc with nickel trimmings, cuts ¼ to 1 in., w't per doz. 20 lbs., per dozen ... $24.00
SIXTH DOZEN IN A BOX

No. 33—Stearns', adjustable to any size from ¼ to 1½ in. in diameter and to depth of 3 in., japanned and painted red, polished edges, nickel plated thumb screws, w't per doz. 21 lbs., per dozen ... $104.00
SIXTH DOZEN IN A BOX

IRWIN BORING MACHINE AUGERS

1 in., Shank, 8 in. Twist, will fit any make of Machine.

No. 128—Inches ... 1 1 1 1 2
W't per doz., lbs. ... 2 2 2 2 2
Per dozen ... $22.50 28.50 36.00 48.00
Sets of 18 quarters, 1, 1¼ and 2 in. ... per set $8.80
QUARTER DOZEN IN A BOX

SPOKE POINTERS

No. 1—Stearns', quarter, with graduated adjustable shank and cast steel adjustable knife, w't per doz. 15 lbs., per dozen ... $19.20
HALF DOZEN IN A BOX
**GIMLET BITS**

Double cut, hammer forged from best crucible steel, hardened, tempered, and polished.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 GV</td>
<td>4-32</td>
<td>$3.60</td>
</tr>
<tr>
<td>22</td>
<td>5-32</td>
<td>6-32</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$3.60</td>
<td>3.60</td>
</tr>
</tbody>
</table>

Each bit is carefully tested at factory and is fully warranted. Made exact size as listed.

**ONE DOZEN IN A BOX. AVERAGE WT 8 OZ.**

German Pattern, Forged Steel, Straw Colored.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 GV</td>
<td>2-32</td>
<td>$3.20</td>
</tr>
<tr>
<td>23</td>
<td>3-32</td>
<td>4-32</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$3.20</td>
<td>3.20</td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX. AVERAGE WT 12 OZ. PER DOZEN**

**SCREW DRIVER BITS**

Round Shank, hammer forged from extra fine tool steel, polished.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 GV</td>
<td>1 in.</td>
<td>$1.74</td>
</tr>
<tr>
<td>8 in.</td>
<td>$1.75</td>
<td>176</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$5.60</td>
<td>5.60</td>
</tr>
<tr>
<td>ONE DOZEN IN A BOX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Round Shank, hammer forged tool steel, straw colored, extra quality.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 GV</td>
<td>3 in.</td>
<td>$4.00</td>
</tr>
<tr>
<td>6 in.</td>
<td>9 in.</td>
<td>3 in.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$4.00</td>
<td>4.00</td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX**

**COUNTERSINK BITS**

Double Cut.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>1/2 x 3/4 in.</td>
<td>Small head, for wood, hammer forged from finest tool steel, straw colored, w/t per dozen</td>
<td></td>
</tr>
<tr>
<td>1 lb.</td>
<td>$3.60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX**

Single Cut.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>1/2 x 3/4 in.</td>
<td>Small head, cast steel, polished, round Shank, for wood, w/t per dozen</td>
<td></td>
</tr>
<tr>
<td>1 lb.</td>
<td>$3.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX**

German Pattern, Forged Steel, Straw Colored.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>1/16 in.</td>
<td>$1.40</td>
</tr>
<tr>
<td>1/32 in.</td>
<td>1/64 in.</td>
<td>1/16 in.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$2.40</td>
<td>2.40</td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX. AVERAGE WT 12 OZ. PER DOZEN**

**WHEELER'S**, cast steel, nickle plated, size 2x4 inches, round Shank, for wood.

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Without gauge</td>
<td>w/t per dozen</td>
<td></td>
</tr>
<tr>
<td>1 lb.</td>
<td>$6.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>With gauge</td>
<td>w/t per dozen</td>
<td></td>
</tr>
<tr>
<td>1 lb.</td>
<td>$8.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX**

**COUNTERSINK GIMLET BITS**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 GV</td>
<td>Sizes</td>
<td>0, 1, 2, 3</td>
<td>Ass't'd 0 to 3</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$4.60</td>
<td>4.60</td>
<td>4.60</td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX. AVERAGE WT 8 OZ. PER DOZEN**

**Polished Cast Steel.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Description</th>
<th>Price per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Assorted</td>
<td>One dozen in a box</td>
<td></td>
</tr>
<tr>
<td>3 each sizes 0, 1, 2, 3, for screws 1/2 to 1 in.</td>
<td>$3.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ONE DOZEN IN A BOX**
REAMER BITS

ONE, square, hammer forged from finest tool steel, straw colored.

No. 1—Inches .................. 1-2 3-4
Wt per doz., lbs. ................ 2 5½
Per dozen .................... $6.00 7.40

No. 342—German, square, cast steel, straw colored, w't per doz. 3 lbs.
Per dozen .................... $5.40

No. 2 OBE—3 in., octagon, hammer forged from finest tool steel, straw colored, w't per doz. 12 lbs.
Per dozen .................... $15.20 17.60 23.50 28.00 36.00

HALF DOZEN IN A BOX

BURNING REAMERS

Lighting taper, round shank, fine steel, for bit brace.

No. 460—Inches .................. 1-4 5-16 3-8 7-16 1-2 9-16
Wt per doz., lbs. ................ 1 1½ 2 11½ 2 2½
Per dozen .................... $35.60 9.60 10.40 11.20 12.00 12.80

No. 460—Inches .................. 5-8 11-16 3-4 7-8 1
Wt per doz., lbs. ................ 33 43 6 8 10½
Per dozen .................... $15.20 17.60 23.50 28.00 36.00

LIGHTNING

Bit stock, spiral fluted, made from finest steel. Are designed especially for removing burrs caused in cutting pipe. Extensively used for countersinking. Great care taken in tempering to adapt them to a variety of metals.

Nos. .................. 241 242 242½ 244
Length, in. ............... 3½ 4½ 4½ 5½
For pipe, in. ............ 1 to 1½ 1 to 1½ 1½ to 2
Wt per doz., lbs. ........... 15 15 15 18
Per dozen .................... $21.60 25.20 30.60 64.80

ONE IN A BOX

WOOD HEAD GIMLETS

No. 200 WOOD.

No. 1 OBE—German Pattern, bit point, hammer forged from dest tool steel, oil tempered, cocobola handle, assorted 4 to 8-32 in., w't per doz. 5 oz.
Per dozen .................... $3.30

No. 200 ROSEWOOD—Rosewood handle, sizes assorted 1 to 4, w't per doz. 10 oz.
Per dozen .................... $2.90
THREE DOZEN IN A BOX

GROSS IN A BOX

GENUINE CRITCHLEY, EXPANDING REAMERS

These Reamers have six cutters made of special alloy Semi-High Speed Steel, fitted to parallel slots cut lengthwise in the shaft of the Reamer. These slots are of sufficient depth that when the blades are forced up to their extreme limit they are sufficiently deep to hold firmly so that blades will not spring out.

Blades are beveled on each end and are confined to their place by special nuts. To increase the diameter of Reamer, it is only necessary to slack up on one nut and screw up on the other. Body of Reamer made of tool steel nicely finished. These Reamers are especially valuable in garages and machine shops.

Nos. .................. 19 20 21 22 23 24
Expansion, in. ............ 2½ 3 3½ 4 4½ 5
Length, in. ............... 5½ 5½ 5½ 5½ 5½ 5½
Wt, doz., lbs. ........... 2 2 2 2 2 2
Per dozen .................... $64.00 86.40 86.40 86.40 86.40 91.20

Nos. .................. 25 26 27 28 29 30
Expansion, in. ............ 3 3½ 4 4½ 5 6
Length, in. ............... 7 7 7 7 7 7
Wt, doz., lbs. ........... 6½ 8 10 14½ 20½ 28
Per dozen .................... $96.00 96.00 105.60 114.40 134.40 153.60

IN SETS

No. 10—Set consists of ten reamers. Nos. 20 to 29 inclusive. W't per set 7 lbs.
Per set ..................... $82.00
ONE SET IN A WOOD BOX

METAL HEAD GIMLETS

No. 22.

Nos. 010 and 20.

No. 22—Spike, assorted sizes, 2, 3 and 4, 1¾ in., small to medium, w't per gm. 18 lbs.
Per dozen .................... $1.50

No. 20—Nail, assorted sizes, 2 and 3, ¾ in., medium and large, w't per gm. 7 lbs.
Per dozen .................... $1.40

No. 20—Quarter gross, others, half

$1.50
TWIST DRILLS IN SETS

Wood pocket case, 5 x 3 x 3 in., cloth covered in imitation leather, one each 4-32, 5-32, 6-32, 7-32, 8-32, 10-32 and 12-32 in.

No. 3A—For wood, w't per set $3.70
No. 5A—For iron, w't per set 2 lbs...per set 4.35

ONE SET IN A BOX

STANDARD

No. 13B—For wood, w't 1 lb. per set $3.70
No. 14A—For iron, w't 1 lb. per set 4.35

ONE SET IN A BOX

ARMSTRONG PACKER RATCHET DRILLS

Nos. Length, in. Size of drill socket, square taper. Length of head, in. Feed, in. W't each, lbs.
1 10 1 6 24 4 6 5.75 0.00
2 12 1 6.5 23 8 8 0.00
3 15 1 7 22 11 11 0.00

No. 1 socket is ½ in. square at small end, ½ in. at large end.
No. 2 socket is ¾ in. square at small end, ¾ in. at large end.

LOOSE

ARMSSTRONG RATCHET DRILLS WITH SLEEVE FEED SCREW AND TAPER SOCKET FOR TAPER SHANK DRILLS

1M 10 2 3/4 to 5/8 6 21 4 4.5
2M 12 3 5/8 to 13/16 6 23 4 4.5
3M 15 3 5/4 to 13/16 3/4 23 4 4.5

Each $5.75 0.00

ONE IN A BOX

DRILL CHUCKS

The three steel jaws are carefully adjusted in a socket to keep them in place and are so arranged as to open and close with the loosening or tightening of the chuck upon the spindle.

No. 7—Miller Falls, for post drills, polished, nickel plated steel, knurled sleeve, 2½ x 3 in., shank capacity 0 to ½ in., round shank drills, w't 1 lb. each...$3.00

ONE IN A BOX

TWIST DRILLS

EVD bit stock, for metal or wood, ¾ x ⅛ x 11 in. shank.

No. 8A EVD—In 10-16 3-32 1-8 5-32 3-16 7-32
W't per doz., lbs. 8 8 8 8 8 8
Per dozen $2.50 2.75 3.00 3.50 4.00 4.50

No. 8A EVD—In 1-4 9-32 5-16 11-32 3-8 13-32
Length, in. 5/4 5/4 5/4 5/4 5/4 5/4
W't per doz., lbs. 1 1 1 1 1 1
Per dozen $5.00 6.00 7.00 8.00 8.50 9.50

No. 8A EVD—In 7-16 15-32 1-2 9-16 5-8
Length, in. 7/16 7/16 7/16 7/16 7/16
W't per doz., lbs. 2 2 2 2 2
Per dozen $7.00 8.50 9.00 9.50 10.00

No. 8A EVD—In sets of 9, each 1-16, 3-32, 1-8, 5-32, 3-16, 7-32, 1-4, 5-16, 3-8 in...per set $4.25

EVD bit stock, Syracuse pattern, for wood, ¾ x ⅛ x 11 in. shank.

No. 9A EVD—In 1-16 3-32 1-8 5-32 3-16 7-32
W't per doz., lbs. 1 1 1 1 1 1
Per dozen $3.25 3.25 3.25 3.25 3.50 4.00

No. 9A EVD—In 1-4 9-32 5-16 11-32 3-8 13-32
Length, in. 5/4 5/4 5/4 5/4 5/4 5/4
W't per doz., lbs. 1 1 1 1 1 1
Per dozen $5.00 5.50 6.00 6.50 7.00 7.50

No. 9A EVD—In 7-16 15-32 1-2 9-16 5-8
Length, in. 7/16 7/16 7/16 7/16 7/16
W't per doz., lbs. 2 2 2 2 2
Per dozen $6.50 8.00 8.50 9.00 9.50

TWIST DRILL

Standard Syracuse pattern, bit stock, for wood, specially tempered and pointed for wood, but are not injured by contact with nails, etc., length 9 in.

No. 109A—In 1-16 3-32 1-8 5-32 3-16
Length, in. 1.12 1.12 1.12 1.12 1.12
W't per doz., lbs. 2 2 2 2 2

No. 109B—In 7-32 1-4 9-32 5-16 11-32
Length, in. 0.84 0.84 0.84 0.84 0.84
W't per doz., lbs. 3 3 3 3 3
Per dozen $4.50 5.00 5.50 6.00 6.50

No. 109A—In 3-8 13-32 7-16 5-32 3-16
Length, in. 0.75 0.75 0.75 0.75 0.75
W't per doz., lbs. 2 2 2 2 2
Per dozen $7.00 8.50 9.00 9.50 10.00

EXTRA LENGTH DRILL

FOR BELL HANGERS AND ELECTRICIANS

Bit stock for wood, will drill through plastering, bricks, etc., can be sharpened, ¾ x ⅛ x 4 in. shank.

No. 109C—In 1-4 1-4 5-16 5-16 5-16
Length, in. 1.12 1.12 1.12 1.12 1.12
W't per doz., lbs. 2 2 2 2 2
Per dozen $8.00 10.50 12.50 14.50 17.50

No. 109B—In 3-8 3-8 7-16 1-2
Length, in. 0.84 0.84 0.84 0.84
W't per doz., lbs. 3 3 3 3
Per dozen $12.00 14.50 17.50 20.00

No. 109B—In 1-2 5-8 5-8
Length, in. 0.75 0.75 0.75
W't per doz., lbs. 2 2 2
Per dozen $14.50 15.25 17.75

ALL ABOVE ONE DOZEN IN A BOX
BIT STOCK, FOR WOOD AND IRON

Size Shank 3/16 x 1⁄4 in.

<table>
<thead>
<tr>
<th>No.</th>
<th>In...</th>
<th>1-16</th>
<th>3-32</th>
<th>1-8</th>
<th>5-32</th>
<th>3-16</th>
<th>7-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>108</td>
<td>Wt.</td>
<td>2.50</td>
<td>2.70</td>
<td>3.00</td>
<td>3.50</td>
<td>4.00</td>
<td>4.50</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>109</td>
<td>Wt.</td>
<td>5.00</td>
<td>6.00</td>
<td>7.00</td>
<td>8.00</td>
<td>8.50</td>
<td>9.25</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110</td>
<td>Wt.</td>
<td>10.50</td>
<td>11.75</td>
<td>13.00</td>
<td>15.00</td>
<td>18.00</td>
<td>24.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STUBBS' STEEL WIRE GAUGE, STRAIGHT-SHANK

<table>
<thead>
<tr>
<th>No. 197</th>
<th>Gauge</th>
<th>1/60</th>
<th>1/120</th>
<th>1/240</th>
<th>1/400</th>
<th>1/600</th>
<th>1/1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg. lgt.</td>
<td>in.</td>
<td>4</td>
<td>3 1/4</td>
<td>3 1/8</td>
<td>3 1/16</td>
<td>3 1/32</td>
<td>3 1/4</td>
</tr>
<tr>
<td>Per doz.</td>
<td>$2.75</td>
<td>2.50</td>
<td>2.25</td>
<td>2.00</td>
<td>1.80</td>
<td>1.50</td>
<td></td>
</tr>
</tbody>
</table>

MOUNTED SETS

<table>
<thead>
<tr>
<th>No.</th>
<th>In...</th>
<th>1-16</th>
<th>3-32</th>
<th>1-8</th>
<th>5-32</th>
<th>3-16</th>
<th>7-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>104</td>
<td>Wt.</td>
<td>1.50</td>
<td>2.00</td>
<td>2.50</td>
<td>3.00</td>
<td>3.50</td>
<td>4.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>105</td>
<td>Wt.</td>
<td>3.00</td>
<td>3.50</td>
<td>4.00</td>
<td>4.50</td>
<td>5.00</td>
<td>5.50</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>Wt.</td>
<td>5.00</td>
<td>5.50</td>
<td>6.00</td>
<td>6.50</td>
<td>7.00</td>
<td>7.50</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107</td>
<td>Wt.</td>
<td>7.50</td>
<td>8.00</td>
<td>8.50</td>
<td>9.00</td>
<td>9.50</td>
<td>10.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TAPER SHANK, PATENT INCREASE

<table>
<thead>
<tr>
<th>No.</th>
<th>In...</th>
<th>1-16</th>
<th>3-32</th>
<th>5-32</th>
<th>11-32</th>
<th>13-32</th>
<th>15-32</th>
<th>17-32</th>
<th>19-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>104</td>
<td>Wt.</td>
<td>3.00</td>
<td>4.00</td>
<td>5.00</td>
<td>6.00</td>
<td>7.00</td>
<td>8.00</td>
<td>9.00</td>
<td>10.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>105</td>
<td>Wt.</td>
<td>5.00</td>
<td>6.00</td>
<td>7.00</td>
<td>8.00</td>
<td>9.00</td>
<td>10.00</td>
<td>11.00</td>
<td>12.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>Wt.</td>
<td>7.00</td>
<td>8.00</td>
<td>9.00</td>
<td>10.00</td>
<td>11.00</td>
<td>12.00</td>
<td>13.00</td>
<td>14.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107</td>
<td>Wt.</td>
<td>9.00</td>
<td>10.00</td>
<td>11.00</td>
<td>12.00</td>
<td>13.00</td>
<td>14.00</td>
<td>15.00</td>
<td>16.00</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

JOBBER'S AND MACHINISTS', STRAIGHT SHANK

<table>
<thead>
<tr>
<th>No. 105</th>
<th>In...</th>
<th>1-16</th>
<th>5-32</th>
<th>7-32</th>
<th>9-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>1/16</td>
<td>1/16</td>
<td>1/16</td>
<td>1/16</td>
<td></td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>1.60</td>
<td>1.60</td>
<td>1.70</td>
<td>1.75</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>2.25</td>
<td>2.50</td>
<td>2.75</td>
<td>3.00</td>
</tr>
<tr>
<td>107</td>
<td>Wt. per doz., lbs.</td>
<td>1/4</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>3.25</td>
<td>3.50</td>
<td>3.75</td>
<td>4.00</td>
</tr>
<tr>
<td>108</td>
<td>Wt. per doz., lbs.</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>4.50</td>
<td>4.90</td>
<td>5.35</td>
<td>5.80</td>
</tr>
<tr>
<td>109</td>
<td>Wt. per doz., lbs.</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
<td>1/8</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>5.75</td>
<td>6.10</td>
<td>6.55</td>
<td>7.00</td>
</tr>
</tbody>
</table>

STUBBS' STEEL WIRE GAUGE, STRAIGHT-SHANK

<table>
<thead>
<tr>
<th>No. 107</th>
<th>Gauge</th>
<th>1/60</th>
<th>1/120</th>
<th>1/240</th>
<th>1/400</th>
<th>1/600</th>
<th>1/1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Avg. lgt.</td>
<td>in.</td>
<td>4</td>
<td>3 1/4</td>
<td>3 1/8</td>
<td>3 1/16</td>
<td>3 1/32</td>
<td>3 1/4</td>
</tr>
<tr>
<td>Per doz.</td>
<td>$1.75</td>
<td>1.70</td>
<td>1.65</td>
<td>1.60</td>
<td>1.55</td>
<td>1.50</td>
<td></td>
</tr>
</tbody>
</table>

MOUNTED SETS

<table>
<thead>
<tr>
<th>No. 104</th>
<th>In...</th>
<th>3-16</th>
<th>5-32</th>
<th>7-32</th>
<th>9-32</th>
<th>11-32</th>
<th>13-32</th>
<th>15-32</th>
<th>17-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>105</td>
<td>Wt.</td>
<td>6.00</td>
<td>6.50</td>
<td>7.00</td>
<td>7.50</td>
<td>8.00</td>
<td>8.50</td>
<td>9.00</td>
<td>9.50</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106</td>
<td>Wt.</td>
<td>8.00</td>
<td>8.50</td>
<td>9.00</td>
<td>9.50</td>
<td>10.00</td>
<td>10.50</td>
<td>11.00</td>
<td>11.50</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>107</td>
<td>Wt.</td>
<td>10.00</td>
<td>10.50</td>
<td>11.00</td>
<td>11.50</td>
<td>12.00</td>
<td>12.50</td>
<td>13.00</td>
<td>13.50</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TAPER SHANK, PATENT INCREASE

<table>
<thead>
<tr>
<th>No. 105</th>
<th>In...</th>
<th>1-8</th>
<th>9-64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>1/16</td>
<td>1/16</td>
<td>1/16</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>1.40</td>
<td>1.45</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>2.00</td>
<td>2.25</td>
</tr>
<tr>
<td>107</td>
<td>Wt. per doz., lbs.</td>
<td>1/4</td>
<td>1/8</td>
</tr>
<tr>
<td>Per</td>
<td>doz.</td>
<td>3.00</td>
<td>3.35</td>
</tr>
</tbody>
</table>

ROSE TOOLS, INC.
# Twist Drills

For Nos. 1 and 2 Prentice Drill Presses, Shanks 2\(\frac{1}{2}\) Inches Long, \(\frac{1}{4}\) Inch in Diameter.

<table>
<thead>
<tr>
<th>No.</th>
<th>1-8</th>
<th>5-32</th>
<th>3-16</th>
<th>7-32</th>
<th>1-4</th>
<th>9-32</th>
<th>5-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>4(\frac{1}{2})</td>
<td>5(\frac{1}{4})</td>
<td>5(\frac{1}{2})</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Each</td>
<td>$0.45</td>
<td>$0.45</td>
<td>$0.50</td>
<td>$0.55</td>
<td>$0.60</td>
<td>$0.65</td>
<td>$0.70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>11-32</th>
<th>3-8</th>
<th>13-32</th>
<th>7-16</th>
<th>15-32</th>
<th>1-2</th>
<th>17-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Each</td>
<td>$0.75</td>
<td>$0.80</td>
<td>$0.85</td>
<td>$0.90</td>
<td>$1.00</td>
<td>$1.05</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>9-16</th>
<th>19-32</th>
<th>5-8</th>
<th>21-32</th>
<th>11-16</th>
<th>23-32</th>
<th>3-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Each</td>
<td>$1.10</td>
<td>$1.20</td>
<td>$1.30</td>
<td>$1.40</td>
<td>$1.50</td>
<td>$1.60</td>
<td>$1.70</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>7-8</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Each</td>
<td>$2.10</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

**Taps**

*Machinists' Hand Taps*

Taper U. S. S. Threads.

<table>
<thead>
<tr>
<th>Size</th>
<th>32 threads, right hand, w/t (\frac{1}{4}) lb.</th>
<th>3-16 in., 32 threads, right hand, w/t (\frac{3}{4}) lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each</td>
<td>$0.35</td>
<td>$0.30</td>
</tr>
</tbody>
</table>

**Machine Screw**

<table>
<thead>
<tr>
<th>No. of gauge</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threads to inch</td>
<td>56</td>
<td>48</td>
<td>36</td>
<td>36</td>
<td>32</td>
</tr>
<tr>
<td>Each</td>
<td>$0.45</td>
<td>$0.40</td>
<td>$0.40</td>
<td>$0.35</td>
<td>$0.35</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. of gauge</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threads to inch</td>
<td>32</td>
<td>24,32</td>
<td>24</td>
<td>20,24</td>
<td>20,24</td>
<td>18,24</td>
</tr>
<tr>
<td>Each</td>
<td>$0.35</td>
<td>$0.40</td>
<td>$0.45</td>
<td>$0.45</td>
<td>$0.45</td>
<td>$0.50</td>
</tr>
</tbody>
</table>

All the above numbers weigh less than an ounce.

**S. A. E. Plug Hand Taps**

For Automobile Use

<table>
<thead>
<tr>
<th>Diameter, in.</th>
<th>1-4</th>
<th>5-16</th>
<th>3-8</th>
<th>7-16</th>
<th>1-2</th>
<th>9-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threads to inch</td>
<td>20</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>20</td>
</tr>
<tr>
<td>Wt., oz.</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
</tr>
<tr>
<td>Each</td>
<td>$0.45</td>
<td>$0.50</td>
<td>$0.55</td>
<td>$0.60</td>
<td>$0.70</td>
<td>$0.80</td>
</tr>
</tbody>
</table>

Specify Size Thread When Ordering.

**Right Hand**

<table>
<thead>
<tr>
<th>Diameter, in.</th>
<th>1-4</th>
<th>5-16</th>
<th>3-8</th>
<th>7-16</th>
<th>1-2</th>
<th>5-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threads to inch</td>
<td>20</td>
<td>18</td>
<td>16</td>
<td>14</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Wt., oz.</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
<td>(\frac{1}{2})</td>
</tr>
<tr>
<td>Each</td>
<td>$0.45</td>
<td>$0.50</td>
<td>$0.55</td>
<td>$0.60</td>
<td>$0.70</td>
<td>$0.80</td>
</tr>
</tbody>
</table>

**Stove Bolt**

<table>
<thead>
<tr>
<th>Diameter, in.</th>
<th>3-16</th>
<th>1-4</th>
<th>5-16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threads to inch</td>
<td>24</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Wt., oz.</td>
<td>(\frac{1}{2})</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Each</td>
<td>$0.35</td>
<td>$0.45</td>
<td>$0.50</td>
</tr>
</tbody>
</table>
BEAVER PIPE STOCKS AND DIES

No. 4—Beaver ratchet stock consists of only three parts. Is an easy-working receding die stock using narrow dies that ease the labor as the thread is cut; threads 1, 11, 14 and 2 in pipe, in addition 3 or 4 in. die heads can be furnished for this set; w't per 24 lbs., per set .................. $30.00
Extra Die Heads for No. 4—3 or 2 in., each $5.50

STOCKS AND DIES

With Set Screw at End.
No. 23—3 sets of dies, 3 taps, one each 1/4x14, 1/4x10, 1/4 right hand, w't 8 1/2 lbs. .................. per set $12.00
No. 37—3 sets of dies, 6 taps, one each 1/4x22, 3/16x22, 1/4x18, 3/16x18, 1/4x14, 3/16x14 right hand, w't 4 lbs., per set .................. $10.20
No. 37A—3 sets of dies, 6 taps, one each 1/4x16, 3/16x16, 1/4x14, 3/16x14, 1/4x12, 3/16x12, w't 3 1/2 lbs. .................. per set $10.20
No. 37B—3 sets of dies, 6 taps, one each 1/4x18, 3/16x18, 1/4x16, 3/16x16 and 1/4x14 right hand, w't 3 1/2 lbs., per set .................. $10.20
No. 41—4 sets of dies, 6 taps, one each 1/2x26, 1/2x24, 1/2x20, 1/2x16, 1/2x16 right hand, w't 2 lbs., per set .................. $9.00
No. 53—4 sets of dies, 4 taps, one each 1/4x32, 3/16x24, 1/4x20, 3/16x16 right hand, w't 1 lb. .................. per set $6.60

ONE SET IN A BOX

PIPE STOCK AND DIES

REED'S, Complete with Right Hand Dies.
All Reed stocks are made of malleable iron, all parts interchangeable, bushings are all machined, handles polished, and the ends carefully rounded.
No. 0SP—for pipe 1/4, 3/8 and 1/2 in., w't 5 1/2 lbs., per set .................. $9.80
No. 1SP—for pipe 1/4, 3/8, 1/2 and 1 in., w't 13 1/2 lbs., per set .................. $11.50
No. 1 1/2 SP—for pipe 1/4, 1 and 1 1/2 in., w't 20 lbs., per set .................. $10.40
No. 2SP—for pipe 1, 1 1/2 and 2 in. with lead screw, w't 27 lbs., per set .................. $15.90

ONE SET IN A BOX

TAP WRENCHES

For Hand Taps, Hardened and Tempered Jaws, Ground and Polished Knurled Chuck.
Nos. .............. 07 06 05
For taps .......... .07o14 1/2to1 3/16to16 W't per doz., lbs. ........... 2 1/4 5 3
Per dozen .......... $6.00 12.00 9.00
HALF DOZEN IN A BOX

“YANKEE” RATCHET TAP WRENCH

No. 250 No. 251 No. 1251

The distinguishing features are its adaptability, convenience, and efficiency for working in close quarters, corners, and inaccessible places.
The ratchet mechanism is the same construction used in other “Yankee” Tools. With the shifter at top, it is left hand; at bottom, right hand; and in center, rigid, as ordinary Tap wrench.
The crossbar is held central by a friction device and of ample leverage for even larger taps than the chuck will hold.
A knurled thumb piece at top of Wrench affords a ready means of starting in and backing out the tap quickly. In the end of this thumb piece is a countersunk hole to use Tap Wrench on lathe center when desired, for holding small drills, etc.
The cross arm can be readily withdrawn, so that little room is taken up in tool chest or drawer.
The ratchet and pawls are made of tool steel, hardened and tempered. The chuck has harden steel jaws.
No. 250—Holds up to 3/16 in. Taps, outside diameter of chuck 1 1/4 in., length over all 3 1/4 in., w't per doz. 43 lbs., per dozen .................. $30.00
No. 251—Holds up to 3/16 in. Taps, outside diameter of chuck 3 1/4 in., length over all 31 1/4 in., w't per doz. 64 lbs., per dozen .................. $59.60
No. 1251—Same as No. 251 except length over all is 13 in. for work in steel cars, etc., and where long reach is necessary, w't per doz. 10 1/2 lbs. .................. per dozen $50.40

ONE IN A BOX

TAP AND REAMER WRENCHES

Handles made from best steel tubing, capped and knurled, fine steel jaws, gun-metal finish.
Nos. .............. 28 29 42
Length, in. .............. 11 16 21
For taps .......... 1/8 to 3/16 3/16 to 3 1/2 to 1
W't per doz., lbs. ........... 9 24 27
Per dozen .......... $75.60 86.40 108.00

ONE IN A BOX
PIE CE STOCKS AND DIES

ROSE TOOLS, INC.

No. 2A—Reed’s, adjustable, with right hand dies for pipe 1, 1½, 2, and 1 in., w’t 18 lbs. per set $13.20
ONE SET IN A FINISHED HARDWOOD BOX

REED’S, Complete with Right Hand Dies.

No. 21A—For pipe 1, 1½, 2, and 1 in., w’t 19 lbs., per set $15.40
No. 3A—For pipe 1¼, 1½, and 2 in., w’t 39 lbs., per set $19.80
ONE SET IN CASE

PIECE DIES

No. 11—Diam. 2½ in., for No. 1 pipe stock and dies 1, 1½, 2, and 1 in., w’t 1 lb., each $2.20
No. 111—Diam. 3 in., for No. 1¼ pipe stocks and dies 1½, 2, and 1 in., w’t 1½ lbs., each $2.70
No. 12—Diam. 3½ in., for No. 2 pipe stock and dies 1½, 2, and 2½ in., w’t 2 lbs., each $3.80

STOCK AND DIES

These stocks have a positive setting arrangement without the use of any thumb screws or friction clamps of any kind. The dies are controlled by lever handle on top as shown in illustration. By moving this handle to the right as far as it will go, the dies are set and held in place while cutting. One movement of the top lever handle will open or close the dies. No resetting or backing off the threads.

The tool is equipped with adjustable guides which do away with loose bushings. These guides are operated on a scroll and can be set for all sizes the tool will thread. The scroll is constructed so that the guides are held in any position without locking. The more pressure on the ends of the guides, the more solid the locking arrangement. Great pressure on the ends of the guides only tends to lock them more firmly in position.

No. 102—Three sets dies for threading 1, 1½, 2, and 1¼ in. pipe, w’t per set 20 lbs. $20.40
No. 103—Two sets dies for threading 1, 1½, 2 and 2 in. pipe, w’t per set 27 lbs. $26.40
No. 104—Three sets dies for threading 1, 1½, 2, and 2 in. pipe, w’t per set 29 lbs. $30.00
No. 104½—Four sets dies for threading 1, 1½, 2, and 3 in. pipe, w’t per set 30 lbs. $33.60
No. 105—Two sets dies for threading 1¼, 2, 2½ and 3 in. pipe, w’t per set 62 lbs. $48.00
ONE SET IN A BOX

No. 6—Beaver, threads 1, 1½, 2, and 3 in. pipe, without changing dies or bushings. The two sets of dies are operated by a single adjusting handle, simply set to size and the thread may be cut in less time than it takes to change the dies in other tools. Will cut deep or shallow threads, w’t per set 12 lbs., per set $24.00

Illustration of No. 25.

No. 25—Beaver, threads 1, 1½, 1¾ and 2 in. pipe without changing dies or bushings. Can be instantly adjusted to cut any of the four sizes, w’t per set 30 lbs., per set $36.00
No. 26—Beaver Ratchet Stock, threads 1, 1½, 1¾ and 2 in pipe without changing dies or bushings. Same construction as No. 25 except has ratchet making, it cut easier, w’t per set 35 lbs., per set $42.00
STOCKS AND DIES

These stocks are used in pump installation and repair work to thread the ends of pump rods ready for the couplings.

**No. 900—Pump Makers', 15 in. stock with one each 8x14, and one 1/8x12 die, w't each 13 lbs., per set $6.40**

ONE SET IN A BOX

Dies change instantly by pulling the pawl and dropping one die out and inserting another. A simple tool, operates easily.

**No. 00—Toledo, ratchet stock with die heads for threading 1/2, 3, 4, and 1/2 in. pipe, w't per set 9 lbs., per set $26.60**

ONE SET IN A BOX

**No. 0T—Contains 24 in. stock and 3 sets R. H. dies for threading 1/8, 3/8, 1/4, and 3/8 in. pipe, w't per set 8 lbs., per set $20.80**

ONE SET IN A BOX

**NO. 1T WITHOUT RATCHET.**

No. 1T—Contains stock and 4 sets R. H. dies for threading 1, 1/2, 1/4, and 1 1/2 in. pipe, w't per set 19 lbs., per set $26.40

One man can easily thread a 2 in. pipe with this tool.

ONE SET IN A BOX

**NO. 1A WITH RATCHET.**

No. 1A—Contains stock and four sets R. H. dies for threading 1, 1/2, 1/4, and 2 in. pipe, w't per set 22 lbs., per set $33.00

ONE SET IN A BOX

**EXTRA DIES**

No. 10—For Nos. 1T and 1A, Sizes 1, 11/4 and 11/2 in., each $2.00
Size 2 in. each $3.00

No. 1A may be used with two handles as die stock or with one handle inserted in the ratchet case. Desirable for threading pipe down in a trench or against walls, etc. A boy can thread a 2 in. pipe with it.

**PIPE TAPS**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>171</th>
<th>172</th>
<th>173</th>
<th>174</th>
<th>176</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1/8</td>
<td>1/4</td>
<td>1/2</td>
<td>3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>W't., oz.</td>
<td>1 1/4</td>
<td>2 1/4</td>
<td>3</td>
<td>3 1/2</td>
<td>3 1/4</td>
</tr>
<tr>
<td>Each</td>
<td>$0.70</td>
<td>.90</td>
<td>1.20</td>
<td>1.40</td>
<td>2.00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>178</th>
<th>1710</th>
<th>1712</th>
<th>1716</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1</td>
<td>1 1/4</td>
<td>1 1/2</td>
<td>2</td>
</tr>
<tr>
<td>W't., oz.</td>
<td>20</td>
<td>30</td>
<td>47</td>
<td>65</td>
</tr>
<tr>
<td>Each</td>
<td>$3.20</td>
<td>4.00</td>
<td>5.20</td>
<td>8.00</td>
</tr>
</tbody>
</table>

**PIECE IN A BOX**

**PIECE REAMERS**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>181</th>
<th>182</th>
<th>183</th>
<th>184</th>
<th>186</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1/8</td>
<td>1/4</td>
<td>1/2</td>
<td>3/8</td>
<td>1/2</td>
</tr>
<tr>
<td>W't., oz.</td>
<td>1 1/4</td>
<td>2 1/4</td>
<td>3</td>
<td>3 1/2</td>
<td>3 1/4</td>
</tr>
<tr>
<td>Each</td>
<td>$0.90</td>
<td>1.10</td>
<td>1.45</td>
<td>1.80</td>
<td>2.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>188</th>
<th>1810</th>
<th>1812</th>
<th>1816</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1</td>
<td>1 1/4</td>
<td>1 1/2</td>
<td>2</td>
</tr>
<tr>
<td>W't., oz.</td>
<td>20</td>
<td>29</td>
<td>45</td>
<td>62</td>
</tr>
<tr>
<td>Each</td>
<td>$4.00</td>
<td>4.50</td>
<td>5.00</td>
<td>9.00</td>
</tr>
</tbody>
</table>

**ONE IN A BOX**
OPENING DIE SCREW PLATES

U.S.S. Thread.

Special attention is called to the opening dies, which are opened or closed by a single movement of lever on side of wrench. After thread has been cut a movement of the lever throws the dies open so that the entire tool may be quickly lifted off, thus saving no time in turning back over finished work. Prevents the marring or stripping of thread caused by chips and also increases the life of die.

No. 11—26 in. stock, adjustable tap wrench and 5 sizes super taps, dies and collets cutting \( \frac{1}{4} \times 20, \frac{9}{16} \times 18, \frac{5}{16} \times 14 \) and \( \frac{1}{4} \times 13 \) U.S. thread, w/t set 11 lbs., per set $25.90

No. 22—26 in. stock, adjustable tap wrench and 5 sizes super taps, dies and collets cutting \( \frac{1}{4} \times 20, \frac{5}{16} \times 16, \frac{1}{8} \times 18, \frac{1}{8} \times 10 \) V U.S. thread, w/t set 18 lbs., per set $32.00

No. 33—26 in. stock, adjustable tap wrench and 7 sizes super taps, dies and collets cutting \( \frac{1}{4} \times 20, \frac{5}{16} \times 18, \frac{5}{16} \times 14, \frac{1}{8} \times 13, \frac{1}{8} \times 11 \) U.S. thread, w/t set 18 lbs., per set $38.50

No. 77—26 in. stock, adjustable tap wrench and 9 sizes super taps, dies and collets cutting \( \frac{1}{4} \times 20, \frac{5}{16} \times 18, \frac{1}{16} \times 16, \frac{1}{16} \times 14, \frac{1}{16} \times 13, \frac{1}{16} \times 12, \frac{1}{16} \times 10, \frac{1}{16} \times 8 \) U.S. thread, w/t per set 27 lbs., per set $58.80

EACH SET IN A HANDSOME HARDWOOD CASE

RUSSELL SCREW PLATES

Hardwood case nicely finished. Dies are made double reversible so they will cut from either face. The dies, when reversed, bring the new set of cutting edges into action, thus making one die last as long as two of the old.

No. 1R—1 to \( \frac{3}{4} \) in., 5 sizes, contains 15 in. stock, tap wrench, bit brace attachment, 5 taps and dies cutting \( \frac{1}{16}, \frac{5}{64}, \frac{3}{64} \) and \( \frac{1}{8} \) in. U.S. bolt size, w/t per set 3 lbs., per set $23.30

No. 2R—1 to \( \frac{3}{4} \) in., 5 sizes, contains 23 in. stock, tap wrench, bit brace attachment, 5 taps and dies cutting \( \frac{1}{16}, \frac{5}{64}, \frac{3}{64}, \frac{1}{8} \) and \( \frac{1}{4} \) in. U.S. bolt sizes, w/t per set 17 lbs., per set $28.60

No. 4R—1 to 1 in., 5 sizes, contains 26 in. stock, tap wrench, 5 taps and dies cutting \( \frac{1}{4}, \frac{5}{32}, \frac{1}{8}, \frac{3}{16} \) and 1 in. U.S. bolt sizes, per set 20 lbs., per set $36.60

No. 5R—1 to 1 in., 7 sizes, contains 23 in. stock, tap wrench, bit brace attachment, 7 taps and dies cutting \( \frac{1}{8}, \frac{5}{32}, \frac{3}{16}, \frac{7}{32}, \frac{1}{4} \) and \( \frac{1}{2} \) in. U.S. bolt sizes, w/t per set 20 lbs., per set $34.60

Russell Screw Plates

No. 7R—1 to 1 in., 9 sizes, contains 26 in. stock, tap wrench, bit brace attachment, 9 taps and dies cutting \( \frac{1}{4}, \frac{1}{8}, \frac{3}{16}, \frac{5}{32}, \frac{1}{4}, \frac{1}{8} \) and 1 in. U.S. bolt sizes, w/t per set 27 lbs., per set $52.90

Russell Automobile Screw Plates

No. 1081—1 to \( \frac{3}{8} \) in., 16 sizes, contains one each 15 in. and 23 in. stock, two tap wrenches, bit brace attachment, 8 taps and dies cutting \( \frac{1}{4}, \frac{1}{8}, \frac{5}{32}, \frac{3}{16}, \frac{7}{32}, \frac{1}{4}, \frac{1}{8} \) and 2 in. U.S. bolt sizes, 8 taps and dies cutting \( \frac{1}{4}, \frac{1}{8}, \frac{5}{32}, \frac{3}{16}, \frac{7}{32}, \frac{1}{4}, \frac{1}{8} \) and 2 in. S. A. E. bolt sizes, w/t per set 31 lbs., per set $70.60

No. 215—Contains two stocks \( \frac{3}{4} \) and 14 in. long, and two adjustable Tap Wrenches. 23 Taps and Dies Cutting Machine Screw. Sizes \( \frac{1}{8}, \frac{5}{32}, \frac{3}{16}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2} \) in. U.S. Standard Thread \( \frac{1}{8}, \frac{5}{32}, \frac{3}{16}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2} \) in. S. A. E. Sizes \( \frac{1}{8}, \frac{5}{32}, \frac{3}{16}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2} \) in. Diameter of small dies \( \frac{1}{8} \) in., diameter of large dies \( \frac{3}{8} \) in., w/t per set 12 lbs., each $38.40

ONE SET IN A NICKELY FINISHED CASE
SCREW PLATES

GREEN RIVER, oiled hardwood case.

No. 156—With stock, tap wrench—fitting in stock—and 5 sizes taps, dies and guides, sizes 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, w/t per set 1 1/2 lbs. .............. per set $14.00

No. 152—With stock, tap wrench—fitting in stock—and 7 sizes taps, dies and guides, sizes 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, stock 6 in. long, diameter of dies 3/8 in., w/t per set 1 3/4 lbs. ......... per set $18.00

GREEN RIVER, oiled, hardwood case, U. S. S. thread.
Do the work in a single cut. Die is adjustable for wear and to make bolts or nuts fit tightly or loosely as desired.

No. 5002—With stock, adjustable tap wrench and 5 sizes taps, dies and guides, sizes 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, stock 22 in. long, diameter of dies 2 3/16 in., w/t per set 14 lbs. ............... $30.30

No. 5005—With stock, adjustable tap wrench and 7 sizes taps, dies and guides, sizes 1/16, 3/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, stock 22 in. long, diameter of dies 2 3/16 in., w/t per set 16 lbs. .............. per set $36.60

No. 5007—With stock, adjustable tap wrench and 9 sizes taps, dies and guides, sizes 1/16, 3/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, stock 29 in. long, diameter of dies 2 3/16 in., w/t per set 29 lbs. .............. per set $56.00

GREEN RIVER, Automatic Screw Plate.

No. 5031—With stock, adjustable tap wrench and 5 sizes taps, dies and guides, sizes 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, stock 18 in. long, w/t per set 1 lb. ... $24.00

No. 5071—With stock, adjustable tap wrench and 11 sizes taps, dies and guides, sizes 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, stock 22 in. long, w/t per set 22 lbs. $64.00

No. 1470—Automobile, with stock and 7 sizes round adjustable dies and plug taps, sizes 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, S. A. E. standard thread, complete in handsome leather roll, w/t 83 lbs., per set $27.30

THE EASY

Champion Easy Combination.

Champion Easy combination. These sets are well made, are put up in a nicely finished case and are especially suitable for garage repair work.

No. 111—Contains one 15 1/2 in. stock, one adjustable tap wrench, 10 taps and dies cutting 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, U. S. Standard Threads and 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, S. A. E. Standard Threads, w/t per set 11 lbs. .............. per set $25.20

No. 15—Contains two stocks 15 1/2 and 23 in. long, one adjustable tap wrench, 16 taps and dies cutting 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, U. S. Standard Threads and 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, 1/16 x 1/16, S. A. E. Standard Threads, w/t per set 21 lbs. .............. per set $48.40
SCREW PLATES

These taps and dies make perfect threads at one cut. The claim for the adjustable dies is its solidity, the impossibility of stripping of threads, its perfect adjustment, its simplicity, durability and strength, doing away with all taper-pointed and cup-headed screws, common in many makes of dies. U. S. Standard threads always furnished unless otherwise specified.

G. T. D.

G. T. D., adjustable round dies 13-16 inch in diameter, with stock 61 in. long, tap wrench is made by inserting adjustable socket in stock.

No. 5D—5 taps, 5 dies cutting 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, w’t per set ½ lbs. .......... per set $10.70
No. 5DD—5 taps, 5 dies, cutting 4-40, 5½-32, ¾-24, 1-20, w’t per set 1½ lbs. ............per set $10.70
No. 6D—6 taps, 6 dies, cutting 4-36, 6-32, 8-32, 10-24, 12-24, 14-20, w’t per set 1½ lbs. ............per set $12.00
No. 6DD—6 taps, 6 dies, cutting 4-40, 5½-32, ¾-24, 1-20, w’t per set 1½ lbs., per set...$12.00

The dies in Nos. 5D and 6D are machine screw thread.

No. 2B—Two stocks, 15½ and 23 in. long, adjustable tap wrench, 5 taper taps and dies, cuts 4x20, 6x16, 8x14, 10x13, and 12x10, w’t per set 14 lbs. ......... per set $21.30

No. 5B—Two stocks, 15½ and 23 in. long, adjustable tap wrench, 7 taper taps and dies, cut 4x20, 5½x18, 6x16, 7½x14, 8x13, 9x11, and 10x10, w’t per set 16 lbs. ......... per set $25.20

Simple in construction, neat in design. Die adjusted by use of taper, head screw with taper nut, thus being braced on both sides of die making it rigid and solid. Well made and guaranteed.

No. 7B—Two stocks, 15½ and 26 in. long, adjustable tap wrench, 9 taps and dies, cuts 4x20, 5½x18, 6x16, 7½x14, 8x13, 9x11, 10x10, 12x9 and 1x8, w’t per set 20 lbs.,... per set $37.20
BALL BEARING RATCHET

Nickel plated, ball bearing, metal clad cocobola head and handle, adjustable handle collars, spindle and chuck body made from one piece of steel.

Alligator pattern, toothed forged steel jaws, anti-friction washer, knurled thimble ratchet adjustment and swell-end chuck.

No. 1908
- Sweep, in.: 6 8 10 12 14
- Wt., doz., lbs.: .33 .35 .38 .41 .43
- Per dozen: $70.00 70.70 71.70 74.00 76.00

Extra Jaws: TWO IN A BOX

per dozen $8.00

Universal jaws holding square, taper or round shank drills up to 3 in. diameter, ball bearing chuck sleeve with case hardened hood.

No. 1914
- Sweep, in.: 8 10 12 14 16
- Wt., doz., lbs.: .40 .42 .45 .48 .51
- Per dozen: $86.30 87.70 89.90 92.00 97.20

Extra Jaws: TWO IN A BOX

per dozen $9.00

HIBBARD RATCHET

Nickel plated steel shank, extra knurled steel sleeve, metal clad cocobola head and handle, forged steel jaws, anti-friction washer above chuck.

Nos. .................................................. 33 32 31
Sweep, in. ............................................. 8 10 12
Wt., doz., lbs. ........................................ 27 313 33
Per dozen .............................................. $60.00 61.50 63.66

Extra Jaws: HALF DOZEN IN A BOX

per dozen $5.00

REVONOC RATCHET

Nickel plated steel shank and sleeve, stained head and handle, steel jaws.

Nickel Plated. | Polished.
--- | ---
Nos. 1008 1010 1012 | 2608 2610 2612
Sweep, in. 8 10 12 | 8 10 12
Wt., doz., lbs. 27 29 33 | 27 29 30
Per dozen $42.50 43.00 43.60 | 37.20 37.70 38.40

Extra Jaws: HALF DOZEN IN A BOX

per dozen $4.50

CORNER

Power is applied by milled steel bevel gears. Gearing is fully enclosed by metal caps.

Nickel plated steel frame, sweep and chuck, metal clad cocobola head, cocobola handle, drop forged steel jaws, length 15½ inches.

No. 55
- Sweep, in.: 8 10
- Wt., doz., lbs.: .45 .52
- Per dozen $103.70 113.20

Steel shank and sleeve, stained head and handle, steel jaws.

Nickel Plated. | Polished.
--- | ---
Nos. 208 210 | 2308 2310 2312
Sweep, in. 8 10 | 8 10 12
Wt., doz., lbs. 21 23 | 22 241 28
Per dozen $27.00 27.60 | 21.60 22.10 22.70

Extra Jaws: HALF DOZEN IN A BOX

per dozen $4.50
BIT BRACES

PECK'S BALL BEARING RATCHET

Full nickel plated, steel shank and sleeve, metal clad cocobola ball bearing head, head, cocobola handle, forged steel jaws.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>7008</th>
<th>7010</th>
<th>7012</th>
<th>7014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt per</td>
<td>8 10 12 14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dozens</td>
<td>35 39 41 43</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$71.20 72.80 74.90 77.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Extra Jaws | per dozen $8.00 |

TWO IN A BOX

STANLEY'S BALL BEARING RATCHET

Nickle plated steel shank and sleeve, metal clad cocobola ball bearing head, cocobola handle, forged steel jaws, alligator jaws, concealed ratchet.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>921</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweep, in.</td>
<td>8 10</td>
</tr>
<tr>
<td>Wt per dozens</td>
<td>33 37</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$73.40 74.90</td>
</tr>
<tr>
<td>Sweep, in.</td>
<td>12 14</td>
</tr>
<tr>
<td>Wt per dozens</td>
<td>40 42</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$77.70 80.30</td>
</tr>
</tbody>
</table>

Extra Jaws | per dozen $8.00 |

H Alf DOZEN IN A BOX

STANLEY'S UNIVERSAL BALL BEARING RATCHET

Full nickel plated, metal clad, ball bearing cocobola heads. Universal jaws for both wood and metal works, holds round shank bits and drills 1/2 in. and taper shank on large as No. 2 Clark's expansive jaws, concealed ratchet.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>931</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweep, in.</td>
<td>8 10 12 14</td>
</tr>
<tr>
<td>Wt per dozens</td>
<td>36 40 44 46</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$86.00 87.50 90.00 92.00</td>
</tr>
</tbody>
</table>

TWO IN A BOX

FRAY'S BALL BEARING RATCHET

Nickel plated steel shank and fittings, cocobola metal clad head, ball bearing, cocobola handle. Adjustable to square and round shank bits 1/2 in. and larger.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>68 86 106</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweep, in.</td>
<td>6 8 10</td>
</tr>
<tr>
<td>Wt per dozens</td>
<td>25 29 32</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$69.00 69.20 70.70</td>
</tr>
</tbody>
</table>

TWO IN A BOX

FULLERS FALLS BALL BEARING RATCHET

Full nickel plated, ball bearing head, cocobola head and handle. Has the Hold All Chuck which takes bit stock shanks and round shanks, 1/2 to 1/2 in. in diameter, also No. 1 Morse taper shanks. This is one of the popular numbers.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>733 732 731 730</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweep, in.</td>
<td>8 10 12 14</td>
</tr>
<tr>
<td>Wt per dozens</td>
<td>37 42 44 51</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$76.00 76.70 80.80 83.40</td>
</tr>
</tbody>
</table>

TWO IN A BOX

EXTRA JAWS | per dozen $8.00 |

FULLERS FALLS Ratchet Braces.

Full nickel plated, metal clad, ball bearing cocobola head and handle. Has the Lion ball bearing chuck which takes bit stock shanks, and round shanks from 1/2 to 1/2 in. in diameter, also No. 1 Morse Taper shanks. This chuck makes it possible to lock any style shank with a tremendous grip. All ball bearing parts including the ratchets have rust proof coverings.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>827 871 870</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweep, in.</td>
<td>10 12 14</td>
</tr>
<tr>
<td>Wt, dozens</td>
<td>45 48 53</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$106.40 111.00 113.70</td>
</tr>
</tbody>
</table>

TWO IN A BOX

EXTRA JAWS | per dozen $8.00 |

EXTRA JAWS | per dozen $8.00 |
ROSE TOOLS, INC.

PEXTO RATCHET BIT BRACES

Nickel plated, open ring ratchets, alligator jaws, knurled chuck, hardwood head and handle, mahogany finish.

Nos. .......... 3908 3910 3912
Sweep, in. ...... 8 10 12
Wt doz., lbs. ... 26 27 28
Per dozen ...... $36.50 37.00 37.80

CRUSO BIT BRACES

Polished steel shank, polished octagon pattern sleeve, ebonized hardwood head and handle, steel jaws. Sleeve can be tightened or loosened with a wrench, if desired.

Nos. .......... 80R 100R 120R
Sweep, in. ...... 8 10 12
Wt doz., lbs. ... 24 26 29
Per dozen ...... $27.20 27.60 28.00
Extra Jaws ..... per dozen $3.00

SPOFFORD'S PLAIN BIT BRACES

Nickel plated steel shank, split socket, with thumb screw, cocobolo head and handle.

Nos. .......... 108 110 112
Sweep, in. ...... 8 10 12
Wt doz., lbs. ... 19 20 21
Per dozen ...... $60.00 63.60 66.00

HAlF DOZEN IN A BOX

COMMON BALL BIT BRACES

No. 30—Plain, 10 in. sweep, bright steel shank, malleable bit socket, with thumb screw, beechwood head and handle, wt per doz. 12 lbs., per dozen ...... $5.50
HAlF DOZEN IN A BOX

WHIMBLE BIT BRACES

No. 12W—12 in. sweep, nickel plated steel shank, Cocobolo Handles, split socket with thumb screw, for milling, ship carpenters, etc., wt per doz. 33 lbs., per dozen $60.00
HAlF DOZEN IN A BOX

MILLERS FALLS DRILLS

The gear wheel can be removed leaving a ratchet brace. The jaws are forged steel and will center and firmly round twist drills from 1/8 to 1/4 in. diameter, also tool shanks of any size or shape.

No. 182—10 in. sweep, nickel plated steel bow and chuck, light weight, ball bearing head, rosewood handles, detachable gear for use as a drill per doz. 40 lbs., per dozen $12.50
ONE IN A BOX, Wt 57 LBS. PER DOZ.

SILL BORERS

No. 051—Miller's Falls, Japanese malleable iron frame, length 16 in. per doz. 40 lbs., per dozen $84.00
ONE IN A BOX

UNIVERSAL AUGER BIT STOCK

No. 108—Length 12 in., japanned with nickel plated trimmings, for use as bit brace or breast drill, for drilling at an angle. Has Master Chuck which takes bit stock and taper shanks, also round shank drills from 1/4 to 3 in. in diameter. Angle of boring can be adjusted to any point from 180 degrees to 125 degrees, weight per doz. 26 lbs., per dozen $60.00
ONE IN A BOX
**CHAIN DRILL ATTACHMENTS**

**WONDER**

No. 10A—Plain socket, polished, for 3/4 in. round straight shank drills, w/t per doz., 33 lbs., per dozen $26.40

No. 11B—Plain socket, polished for bit stock drills, w/t per doz., 34 lbs., per dozen $26.40

No. 12C—Brace chuck, nickel plated, for bit stock drills, and 3 to 3 1/2 in. round shank drills, w/t per doz., 35 lbs., per dozen $42.00

**YANKEE**

No. 73 CVA—Automatic feed, knurled bit brace chuck, for square or round shank drills, japanned frame, polished chuck, w/t per doz. 27 lbs., per dozen $32.00

No. 73 CVA—Plain chuck, for round shank drills, japanned frame, polished chuck, semi-automatic feed, w/t per doz. 27 lbs., per dozen $32.00

No. 12 CVA—Knurled bit brace chuck, for square or round shank drills, japanned frame, polished chuck, semi-automatic feed, w/t per doz. 27 lbs., per dozen $64.00

No. 500—Two jaw chuck, polished and nickel plated, length 3 1/2 in., with hexagon to use wrench in tightening large drills. Drop forged steel jaws, alligator pattern, chuck holds up to 3 in. drills with square shanks, length over all 10 1/2 in., w/t per doz., 40 lbs., per dozen $84.00

No. 1500—Three jaw chuck, polished and nickel plated, length 2 1/2 in., diam. 18 in., tool steel jaws, chuck holds up to 1 1/2 in. round shank drills only, length over all 2 1/2 in., w/t, per doz., 39 lbs. Per dozen $154.00

**MILLER'S FALLS**

No. T4—Without augers, w/t 35 lbs., each $30.00

No. T4—With one each No. 12, 1, 1 1/2 and 2 in. cast steel ball bearing augers, 45 lbs., each $30.00

No. T5—Without augers, w/t 35 lbs., each $14.70

No. T5—With one each, 1, 1 1/2 and 2 in. No. 128 cast steel ball bearing augers, w/t 40 lbs., each $22.00

**BORING MACHINES**

**YANKEE**

No. 14E—Automatic nickel plated brace chuck, for bit stock drills and round shank drills 1/8 to 3/4 in., w/t per doz. 3 lbs., per dozen $54.00

**ONE IN A BOX**

No. T2—Without augers, w/t 38 lbs., each $15.40

No. T2—With one each, 1, 1 1/2 and 2 in. cast steel ball bearing augers, w/t 45 lbs., each $23

**ONE IN A CRATE**
ROSE TOOLS, INC.

**HAND DRILLS**

**No. 190**
- Ratchet, length 15½ in.
- Large size made with both a ratchet and change of speed. Ratchet is shifted from left to right or vice versa by giving a half turn to the cap of a small boss on the crank handle. Speed is changed by turning the knurled thumb barrel on drill shaft. Has three jaw chuck holding round shank drills up to ½ in. in diameter. The hollow end handle is detachable and holds drills up to capacity of chuck, no drills are included. Malleable iron frame black japanned, drive wheel is blue, other parts nickel plated, w't per doz. 40 lbs. per dozen $...

**HIBBARD HAND DRILL**

**No. 192**
- Length 11¼ in., has a solid steel frame with a detachable side handle and hollow end with screw cap, single gear, springless three jaw chuck which takes drills up to ½ in., no drills included, large gear is blue, other metal parts nickel plated, w't per doz. 18 lbs., per dozen...

**HAND DRILLS**

**No. 980**
- Miller’s Falls, malleable iron frame, length 15½ in., stained hardwood handles, nickel plated trimmings double speed, which can be instantly changed without removing bit from work, detachable hollow end handle, with receptacle for holding twist drills, 3 jaw chuck holding round shank drills up to ⅜ in. diameter, w't per doz. 42 lbs., per dozen...

**HAND DRILLS**

**No. 1530**
- Yankee, malleable iron frame, dead black finish, 3 jaw steel chuck, nickel plated holding drills up to ¼ in., can be changed from single to double speed by means of shifter on frame, length 16½ in.
- No. 445—2 jaw chuck, w't per doz. 42 lbs. per dozen $108.00
- No. 1445—3 jaw chuck, w't per doz. 42 lbs. per dozen $108.00

**HIBBARD, SPENCER & BARTLETT & CO.**
### HAND DRILLS

No. 41—Yankee, drill point revolves backward in upward movement of handle to clear chips. Has magazine drill points in handle, nickel plated and polished, eight drill points 9/16 in. with each drill, length 11 1/8 in., w't per doz. 7 lbs., per dozen $41.80

Extra Springs, for No. 41, per dozen ... $2.50

Extra Drills, for Nos. 41 and 44, 9/16, 9/32, 9/32, 9/32, 1/4, 1/4, 1/4, 1/4, per set $1.10

ONE SET IN A BOX

Extra Drills, for Nos. 41 and 44, 9/16, 9/32, 9/32, 9/32, 1/4, 1/4, 1/4, 1/4, per dozen ... $1.80

DOZEN IN A PACKAGE

No. 44—Yankee, has spring with adjustable tension to regulate strength suitable for difference in hard and soft woods, or for large and small drill points. The cap on end of drill has a screw by which spring is made weaker or stronger. Has magazine drill points and is nickel plated and polished. Eight drill points 9/16 in. with each drill. Length 11 1/8 in., per dozen $50.30

ONE IN A BOX

For use in drilling in steel, iron, brass and other metals as well as wood. It is constructed so that the drill runs to the right during both forward and backward movement of the handles. The pressure to feed the tool is bad by the pressure against the head of the tool which is provided with ball bearings to reduce friction.

No. 40—Yankee, reciprocating, polished steel spindles, polished hardwood handles, ball bearing, nickel plated chuck with 3 jaws holding 7/8 in. drills or smaller, length 8 1/8 in., w't per doz. 12 3/4 lbs., per dozen $83.30

ONE IN A BOX

### BREAST DRILLS

No. 80 YVE—Two speed, universal chuck holding square, taper or round shank, drills up to 3/4 in. in diameter, finished in blue and gold enamel, nickel plated trimmings, embossed handles, w't per doz. 66 lbs., per dozen $74.70

ONE IN A BOX

No. 81 GVE—Breast plates, two speed, universal chuck holding square, taper or round shank, drills up to 3/4 in. in diameter, has level set in frame, also a latch for holding chuck while tightening drills, finished in blue and gold enamel, nickel plated trimmings, cocobola handles, w't per doz. 60 lbs., per dozen $96.00

ONE IN A BOX

No. 19—Ball bearing, alligator jaws. 5 in. drive wheel, adjustable speed gear and crank, permitting a variation in length of 3 in., black japanned hub casing, aluminum bronze gear and breast plate, w't per doz. 72 lbs., per dozen $73.70

ONE IN A BOX

No. 97—M. F. Co. ratchet construction, five different actions, speed instantly changed by moving knob on crank handle, handle is adjustable for use as crank or as straight lever for ratchet action, three jaw chuck for holding round shank drills up to 3/4 in. diam., malleable frame japanned and nickel trimmed, w't doz. 99 lbs., per dozen $187.20

ONE IN A BOX

### MILLER'S FALLS

No. 12—Breast plates, w't per doz. 72 lbs., per dozen $94.20

No. 15—Iron D handles, w't per doz. 72 lbs., per dozen $94.20

ONE IN A BOX

No. 118—M. F. Co., with level glass, iron frame, three jawed nickel plated chuck, capacity 0 to 3/4 in. for round shank drills, adjustable speed gear and breast plate, steel cone bearing, nickel plated crank, cocobola handles, w't dz. 90 lbs., dz. $109.60

ONE IN A BOX

YANKEE, two speeds, malleable iron frame, dead black finish, ball bearing, length 17 1/2 in.

No. 455—2 Jaw chuck for holding round or square shank drills up to 3/4 in. in diameter, w't per doz. 72 lbs., per dozen $124.80

No. 1455—3 jaw chuck for holding round shank drills only up to 3/4 in. in diameter, w't per doz. 72 lbs., per dozen $124.80

ONE IN A BOX

No. 1555 YANKEE, two speed, malleable iron frame, finished in dead black, bright parts nickel plated and polished, length 18 in., with right and left hand handles

No. 555—2 Jaw chuck for holding round or square shank drills up to 3/4 in. in diameter, w't per doz. 78 lbs., per dozen $184.80

No. 1555—3 jaw chuck for holding round shank drills only up to 3/4 in. in diameter, w't per doz. 78 lbs., per dozen $184.80

ONE IN A BOX

No. 1555—3 jaw chuck for holding round shank drills only up to 3/4 in. in diameter, w't per doz. 78 lbs., per dozen $184.80

ONE IN A BOX

No. 1555—3 jaw chuck for holding round shank drills only up to 3/4 in. in diameter, w't per doz. 78 lbs., per dozen $184.80

ONE IN A BOX

No. 1555—3 jaw chuck for holding round shank drills only up to 3/4 in. in diameter, w't per doz. 78 lbs., per dozen $184.80

ONE IN A BOX

No. 1555—3 jaw chuck for holding round shank drills only up to 3/4 in. in diameter, w't per doz. 78 lbs., per dozen $184.80

ONE IN A BOX
Thor

THE WORLD'S GREATEST ELECTRIC DRILLS

CAN BE OPERATED FROM ANY LAMP SOCKET

No. P000
Furnished regularly with breast plate as shown, but may be furnished with grip handle or screw feed if specified.

No. P00
Furnished regularly with grip handle as shown, but may be furnished with breast plate or screw feed if specified.

No. P01
Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.

No. P1
Furnished regularly with screw feed as shown, but may be furnished with breast plate or grip handle if specified.

Will drill a hole in metal or wood in one-fifth the time required by hand. Saves 80% in the cost of drilling. All drills are furnished with Jacobs Chuck for straight shank twist drills.

CAPACITY
Drilling, Ream- Wood Boring, in. in. in.
1/8 1/8 1/8
1/16 1/16 1/16
1/32 1/32 1/32

FREE SPEED
Universal Current
2600 1900
1400 1000
950 750
800 675
750 650

Distance From Side L'Gth to Spindle Over-
Wts., Lbs. Center, in. in.
6 5 101
7 5 1/6 103
12 11 121
17 13 143
18 18 121

Watts Com-
sumed Under Load
260
260
500
560
600

UNIVERSAL TYPE
For Alternating and Direct Current.

NOS. Each
P000U $102.00
P00U $119.00
P01U $161.50
P1U $170.00

PMMMD $102
PMM $118
P0D $139
P01D $169
P1D $179

VOLTAGE DESIRED MUST BE SPECIFIED IN ORDERING.
## SCREW DRIVERS

### HIBBARD

Forged from solid bar high grade special steel. Hardened, natural finish, knife handle. The handle is securely fastened to driver with two rivets. Highly polished blade carefully tempered. The flat shape of handle prevents the driver rolling when laid down. A high grade tool in every respect.

<table>
<thead>
<tr>
<th>No. 200</th>
<th>Length overall, in.</th>
<th>Wt. per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>4½</td>
<td>4½</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>$5.60</td>
<td>$6.00</td>
<td>$7.00</td>
</tr>
<tr>
<td></td>
<td>Half Dozen in a box</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MACHINISTS' SQUARE SHANK

Finely polished tempered blade, forged from solid bar high grade special steel. Stained hardwood handle, riveted to driver with two rivets.

<table>
<thead>
<tr>
<th>No. 1</th>
<th>Inches</th>
<th>3½</th>
<th>3½</th>
<th>4</th>
<th>4½</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length over all, in.</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10½</td>
<td></td>
</tr>
<tr>
<td>Size of blade, in.</td>
<td>¾</td>
<td>8</td>
<td>9</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Wt. per doz., lbs.</td>
<td>3½</td>
<td>5</td>
<td>7½</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.70</td>
<td>13.60</td>
<td>15.60</td>
<td>17.60</td>
<td></td>
</tr>
<tr>
<td>HALF DOZEN IN A BOX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### GVB

Round blued cast steel blade, heavy iron ferrule, stained handle.

| No. 6 | Inches | 2½ | 3 | 4 | 5 | 6 |
|-------|--------|----|---|---|---|
| Wt. per doz., lbs. | 3½ | 4 | 5 | 6½ |
| Per dozen | $3.20 | 3.50 | 4.00 | 4.60 | 5.00 |
| No. 6 | Inches | 7 | 8 | 10 | 12 |
| Wt. per doz., lbs. | 4½ | 7 | 7½ | 8 |
| Per dozen | $5.80 | 6.40 | 7.70 | 9.20 |
| HALF DOZEN IN A BOX |

### CHAMPION

Polished round blade, forged from die steel, tempered and shrunk into malleable bolster, heavy combined tang and ferrule, stained fluted handle.

### STANDARD

| No. 26 | Inches | 2½ | 3 | 4 | 5 | 6 |
|--------|--------|----|---|---|---|
| Wt. per doz., lbs. | 2 | 2½ | 3 | 4 | 4½ |
| Per dozen | $5.20 | 6.20 | 7.20 | 6.90 | 8.00 |
| No. 26 | Inches | 7 | 8 | 10 | 12 |
| Wt. per doz., lbs. | 6½ | 7 | 8 | 11 |
| Per dozen | $9.20 | 10.20 | 10.80 | 15.30 |
| HALF DOZEN IN A BOX |

### CABINET

<table>
<thead>
<tr>
<th>No. 126</th>
<th>Inches</th>
<th>2½</th>
<th>3½</th>
<th>4½</th>
<th>5½</th>
<th>6½</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz., lbs.</td>
<td>1⅜</td>
<td>2¼</td>
<td>2½</td>
<td>3½</td>
<td>3½</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$5.20</td>
<td>6.20</td>
<td>6.50</td>
<td>7.60</td>
<td>8.60</td>
<td></td>
</tr>
<tr>
<td>HALF DOZEN IN A BOX</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CRUSO

| No. 012 | Length, in. | 2½ | 3 | 4 | 5 | 6 |
|---------|--------------|----|---|---|---|
| Wt. per doz., lbs. | 1 | 1½ | 2¼ | 2½ | 2½ |
| Per dozen | $1.80 | 2.10 | 2.50 | 3.00 | 3.00 |
| No. 012 | Length, in. | 6 | 8 | 10 | 12 |
| Wt. per doz., lbs. | 3½ | 4½ | 6 |
| Per dozen | $3.60 | 4.80 | 6.00 |
| HALF DOZEN IN A BOX |
**CYD SCREW DRIVERS**

CYD screw drivers have the blade, shank and head formed of one piece of special steel. The projection under the head prevents the blade from turning in the handle. This construction makes the CYD driver unusually strong and durable.

CYD drivers are made in two forms—ones in which the metal head comes through the handle, and one having a countersunk head and insulated by a non-conduction plug. Electricians require this type. On account of the parallel sides, a countersunk screw may be followed without injury to the wood, thus making it an attractive tool to the cabinet maker.

All cuts used to illustrate this line are made to scale approximately one-fourth the actual size.

All handles are finished in dull black and are typical of "THE VERY BEST" workmanship.

**STANDARD TYPE**, special steel, finely tempered blade, polished steel ferrule, ebonite handle.

For all sorts of work. Diameter of blades, width of tips, and size of handle vary according to over-all length of driver.

<table>
<thead>
<tr>
<th>No. 100 CYD</th>
<th>Blade, in.</th>
<th>Tip, in.</th>
<th>Stock, in.</th>
<th>W't per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2</td>
<td>3 1/2</td>
<td>3</td>
<td>$5.20</td>
<td>6.10 7.50 8.90</td>
<td></td>
</tr>
</tbody>
</table>

**HALF DOZEN IN A BOX**

Has cabinet makers' tip, sides being parallel (instead of tapered) to follow up countersunk screws without marring the wood. It also has an insulated head. In this driver the diameter of blade, size of handle, width of tip do not increase in same proportion as in the standard line.

<table>
<thead>
<tr>
<th>No. 101 CYD</th>
<th>Blade, in.</th>
<th>Tip, in.</th>
<th>Stock, in.</th>
<th>W't per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 1/2</td>
<td>3 1/2</td>
<td>3 1/2</td>
<td>3 1/2</td>
<td>3 1/2</td>
<td>3 1/2</td>
</tr>
</tbody>
</table>

**HALF DOZEN IN A BOX**

Special steel blade, nickel plated ferrule, ebonized handle. Blades are pinned, making a strong driver for pocket use.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Length of blade, in.</th>
<th>Stock, in.</th>
<th>W't per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>107</td>
<td>12</td>
<td>11/4</td>
<td>3</td>
<td>2.70</td>
</tr>
</tbody>
</table>

**ELECTRICIANS'**

Electric, special steel, finely tempered blades, 1 in. tip, ½ in. stock, polished steel ferrule, ebonite handle, insulated head.

<table>
<thead>
<tr>
<th>No. 103 CYD</th>
<th>Blade, in.</th>
<th>W't per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2</td>
<td>3 1/2</td>
<td>3 1/2</td>
<td>3 1/2</td>
</tr>
</tbody>
</table>

**HALF DOZEN IN A BOX**

MACHINISTS'

Machinists' special finely tempered blade, polished steel ferrule, ebonite handle.

Especially adapted for heavy work.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Length of blade, in.</th>
<th>Length over all, in.</th>
<th>W't per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>105</td>
<td>13</td>
<td>11/4</td>
<td>3 1/2</td>
<td>3 1/2</td>
</tr>
</tbody>
</table>

**HALF DOZEN IN A BOX**

SPECIAL

The special feature of this driver is that the blade instead of being round is forged to a flat shape ½ in. thick and ½ in. wide. Tip is ½ in. wide. The same size material is used as in forging the regular round driver, so that this tool is unusually strong. Designed for use in automobile and electrical work.

<table>
<thead>
<tr>
<th>No. 114</th>
<th>Regular head, length 4 in., w't per doz. 23 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>114</td>
<td>$6.10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. 214</th>
<th>Insulated head, length 4 in., w't per doz. 23 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>214</td>
<td>$6.10</td>
</tr>
</tbody>
</table>

**HALF DOZEN IN A BOX**

**No. 104 CYD**—Special steel, 1½ in. finely tempered blade, ½ in. tip, ½ in. stock, polished steel ferrule, ebonite handle, w't per doz. 2 lb. per dozen $4.50

**HALF DOZEN IN A BOX**
"HURWOOD" SCREW DRIVERS

Cross Section "Hurwood" Screw Driver.

"HURWOOD" SCREW DRIVERS have blade, shank and head formed of one piece of special steel. A rivet through the ferrule, handle and shank as well as the head with two projecting wings—see cut—securely fasten the handle. This construction makes the "Hurwood" driver unsurpassed for strength and durability.

"Hurwood" drivers are made in two forms—one in which the metal head comes clear through the handle and one designed for electricians giving same advantages of strength but having the head countersunk in the handle and insulated by a non-conducting plug. All "Hurwood" drivers have finely tempered blades and are well finished and fully warranted.

<table>
<thead>
<tr>
<th>No. 20—4 in.</th>
<th>STANDARD TYPE, special steel, finely tempered blade, polished steel ferrule, ebonite handle. Diameter of blade, size of tip and size of handle increase with length of blade in proportion for heavier work.</th>
<th>No. 50—4 in.</th>
<th>SPECIAL TYPE, special steel, finely tempered blade, &amp; in. tip, polished steel ferrule, ebonite handle. A special driver designed for light and delicate work, and made of very small stock and with a small tip. The size of stock, tip and handle is the same in all lengths of blade. As the small diameter of shank wire necessitates a very small rivet, the &quot;winged&quot; head is a great advantage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>3</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>50</td>
<td>6</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Tip, in.</td>
<td>Width, in.</td>
<td>Thickness, in.</td>
</tr>
<tr>
<td>20</td>
<td>5</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>50</td>
<td>8</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Wt. per doz., lbs.</td>
<td>Per dozen</td>
<td>Wt. per doz., lbs.</td>
</tr>
<tr>
<td>20</td>
<td>6</td>
<td>5.40</td>
<td>20.00</td>
</tr>
<tr>
<td>50</td>
<td>8</td>
<td>5.40</td>
<td>20.00</td>
</tr>
</tbody>
</table>

HALF DOZEN IN A BOX

CABINET MAKERS'

Tip, parallel sides, insulated head, special steel, finely tempered blade, polished steel ferrule, ebonite handle. Has cabinet maker's tip, sides being parallel (instead of tapered) to follow up countersunk screws without marring the work; also insulated head. In this driver, diameter of blade and size of handle do not increase in same proportion as in the standard line.

<table>
<thead>
<tr>
<th>No. 45—Blade, in.</th>
<th>Tip, in.</th>
<th>Stock, in.</th>
<th>Wt. per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>6</td>
<td>8</td>
<td>3</td>
<td>24.00</td>
</tr>
</tbody>
</table>

HALF DOZEN IN A BOX

ELECTRICIANS.

Special steel, finely tempered blade, & in. tip, & in. stock, polished steel ferrule, ebonite handle, insulated head. A special driver corresponding to the No. 50, but having insulated head for electrician's work.

<table>
<thead>
<tr>
<th>No. 55—Blade, in.</th>
<th>Tip, in.</th>
<th>Stock, in.</th>
<th>Wt. per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>55</td>
<td>13</td>
<td>14</td>
<td>13</td>
<td>14</td>
</tr>
</tbody>
</table>

HALF DOZEN IN A BOX

For use where a driver of short length is desired. The blade is strong and the size makes it a handy vest pocket screw driver.

<table>
<thead>
<tr>
<th>No. 21—Baby, special steel, 1½ in., finely tempered blade, &amp; in. tip, &amp; in. stock, polished steel ferrule, ebonite handle, w.t. per doz.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>5.40</td>
</tr>
</tbody>
</table>

HALF DOZEN IN A BOX
### Yankee Spiral Ratchet Screw Driver

Right or left hand and rigid at variable lengths. This tool is for driving small screws only and is intended for electrical workers, cabinet makers and mechanics having a large number of small screws to drive. It is a very light and convenient tool that can be easily carried in the pocket.

**No. 35**—Nickel plated, stained cherry handle, length with bit when extended 9 1/4 in., 3 forged steel bits, w/t per dozen 51 lbs.

**ONE IN A BOX**

$35.80

### Bits with Screw Holders

A longer bit than regular with holder attached to hold screw, especially useful in places difficult to reach.

**No. 305**—For No. 30, per dozen $8.60

**No. 315**—For No. 31, per dozen $8.60

**Yankee Chucks and Drills**

For Nos. 30, 31, 35 Screw Drivers.

**No. 301**—For No. 35—Set consists of chuck and 3 cast steel drill points, sizes 1/8, 1/4, 3/16, and 1/4 in., spring lock, per dozen sets $7.50

**No. 300**—For No. 30—Set consists of chuck and 8 cast steel drill points sizes 1/8, to 1/4, and 1/8 in., spring lock, per dozen sets $15.00

**No. 311**—For No. 31—Set consists of chuck and 8 cast steel drill points sizes 1/8 to 3/16, spring lock, per dozen sets $15.00

**Yankee Screw Driver Bits**

For Nos. 30, 31, 35 Screw Drivers.

**No. 330**—For No. 30—Set consists of 3 bits sizes 1/8, 1/4, and 1/4 in., per dozen sets $10.00

**No. 331**—For No. 31—Set consists of 3 bits sizes 1/8, 1/4, and 3/16 in., per dozen sets $10.00

**No. 302**—For No. 35—Set consists of 3 bits sizes 3/16 and 1/8 in., per dozen sets $10.00

**Yankee Chucks**

For Nos. 30, 31, 35 Screw Drivers, Used With Nos. 300 and 301 Chucks.

**STRAIGHT SIZES**

Sizes, 1/8, 1/4, 3/16, 1/4, 1/4, and 1/4 in., per dozen

$1.80

**IN SETS OF 8**

One each, 1/8 to 1/4 in., per dozen $1.20

### Reeds Lightning Screw Driver

**No. 42**—Nickel plated cylinder, rosewood handle, lignum vitae head, length 12 in., extended 21 in., with 1 boring and 2 screw driver bits, for light boring, driving and removing screws, w/t per dozen 9 lbs.

**HALF DOZEN IN A BOX**

$63.00

**No. 41**—Nickel plated cylinder, rosewood handle, lignum vitae head, length 18 in., extended 26 in., with 1 boring and 2 screw driver bits, for light boring, driving and removing screws, w/t per dozen 18 lbs.

**ONE IN A BOX**

$81.00
NOVELTY SCREW DRIVERS

Blades made of the best grade of steel, highly tempered and polished with nickel plated knurled body.

No. 33—Three in One, length 3 in., consists of three distinct screw drivers in one, w/t per doz. 1¼ lbs.,
ONE DOZEN ON A DISPLAY CARD $6.60

No. 34—Four in One, length 5½ in., consists of four distinct screw drivers in one, w/t per doz. 2½ lbs.,
ONE DOZEN IN A BOX $12.00

POCKET MAGAZINE SCREW DRIVER

Has four blades to suit different size screws. Blades are kept in magazine in handle.

No. 60—Nickel plated, polished cast steel blades, knurled handle, diam. 8 in., length closed 3 in., w/t per doz. 1½ lbs.,
ONE DOZEN IN A BOX $16.00

HAMMER HANDLE SCREW DRIVERS

Tool steel, tempered, nickel plated, folding T hammer handle held in either position by a strong spring.

Nos. 24, 25, 26
Length blade, in. 4 5 6
Length over all, in. 7 8 9
Width point, in. ⅙ ⅛ ⅛
Wt. per doz., lbs. 7 10
Per dozen $12.50 13.45 14.40
NOS. 24 AND 25 ONE-QUARTER DOZEN NO. 26 ONE DOZEN IN A BOX

YANKEE RATCHET SCREW DRIVER

For gunsmith’s fitters, electricians, etc., a strong, substantial driver.
No. 12—Polished cast steel forged blade, 11 in., nickel plated ferrule, polished hardwood handle, w/t per doz. 3 lbs.,
HALF DOZEN IN A BOX $15.00

SCREW DRIVER ASSORTMENTS

MAYHEW

No. 811— Assorted 1 to 3 in., forged blued steel blade, ¼ in. diam., securely fastened, stained handle, w/t per doz. 3 lbs.,
ONE DOZEN MOUNTED ON AN ATTRACTIVE DISPLAY CARD 7½ x 11 IN.
ONE DOZEN IN A BOX $1.80

FOUR TOOLS IN ONE

Three sturdy blades, one sturdy awl, large enough to hang a door. Small enough to fix a bell.

The blades of the Olson Magazine Screw Driver are made of ¼ round high grade steel, forged and tempered. The sizes are 1½, 2¼, 2½, and will fit any common screw. The awl is four cornered and tapers from a point to a square at the corners. It is small enough to make starting holes for fine hanger screws or large enough to drive a hinge screw.

The handle is of steel, knurled on the outside and nickel plated. The wood is hollowed out to hold all four tools.

The cap has a chuck locked inside of it, so that it acts as a chuck and cap at the same time. The blades swing into the chuck and chuck enters into the handle, and when tightened it is like a solid steel spike.

No. 35—Length of screw driver blade inserted is 5½ in., length inside 3½ in., w/t per doz. 2½ lbs.,
ONE IN A BOX $20.00

HAMMER AND SCREW DRIVER ASSORTMENT

No. 36— An all metal hammer and three screw drivers combined, in one practical tool. Hammer is 7½ in. long, head 1½ x 1½ in. Three in one screw driver, length 5½ in., fits nicely into the handle of hammer. All finely polished and nickel plated, w/t per doz. 8 lbs.,
10 TOOLS WITH DISPLAY CARD IN A PACKAGE $19.20

LITTLE GIANT

A Very Strong and Useful Tool.
No. 13½ — Length over all 3½ in., forged crucible steel blade, carefully tempered, knurled steel handle, nickel plated, w/t per doz. 1½ lbs.,
ONE DOZEN PER DOLLAR $2.20
ONE DOZEN ON A DISPLAY CARD

No. 660—Consists of one dozen assorted 1½, 2½ and 3½ in. screw drivers, forged steel polished blades with knurled band to give handy grip with fingers in starting screws. Cocobola handles with nickel plated ferrule, w/t per ass't. 2 lbs.,
ONE DOZEN MOUNTED ON A DARK GREEN PASTEBOARD CARD WITH CARD HANGER $4.00

ROSE TOOLS, INC.
ROSE TOOLS, INC.

INSIDE CALIPERS

Cast Steel Polished.
Nos........... 104 105 106 108
Inches......... 4 5 6 8
Wt, doz., lbs... 1/4 1/4 1/2 3/2
Per dozen...... $3.00 3.30 3.60 8.00

ONE DOZEN IN A BOX

OUTSIDE CALIPERS

Cast Steel Polished.
Nos........... 203 204 205
Inches......... 3 4 5
Wt, doz., lbs... 1/4 1/4 1/4
Per dozen...... $2.70 3.00 3.30

ONE DOZEN IN A BOX

DOUBLE CALIPERS

Cast Steel Polished.
Nos........... 304 305 306
Inches......... 4 5 6
Wt, doz., lbs... 1/4 1/4 1/4
Per dozen...... $4.30 5.00 6.00

HALF DOZEN IN A BOX

SELF-REGISTERING CALIPERS

No. 56—8 in., nickel plated, with set screw, w.t per doz. 2 lb. per dozen $11.00

HALF DOZEN IN A BOX

WING CALIPERS

Forged Steel Polished, with Spring and Set Screw.
Nos........... 806 808
Inches......... 6 8
Per dozen...... $16.80 21.60

HALF DOZEN IN A BOX

REVONOC WING DIVIDERS

Forged Steel, Polished.
Nos........... 36 37 38 39
Inches......... 6 7 8 9
Wt, doz., lbs... 3 4 4 4 7
Per dozen...... $11.40 12.80 14.00 14.80

HALF DOZEN IN A BOX

REVISION WING DIVIDERS

Forged Steel Polished, with Spring and Set Screw.
Nos........... 806 808
Inches......... 6 8
Per dozen...... $16.80 21.60

HALF DOZEN IN A BOX

EXTENSION WING DIVIDERS

Forged Steel, Polished, One Extension Leg.
Nos........... 16 17 18
Inches......... 6 7 8
Wt, doz., lbs... 4 4 4
Per dozen...... $19.50 21.60 23.80

HALF DOZEN IN A BOX

COMPASSES AND DIVIDERS

One in a box, together with a nickel box containing six refills.
No. 569—Eagle, nickel plated, w.t per doz. 11 lbs. . . . . per dozen $9.00
ONE DOZEN IN A CARTON

PENCIL HOLDERS

No. 8—Stanley's, corrugated steel with thumb screw, nickel plated, w.t per doz. 2 lb. . . . . per dozen $2.60
ONE DOZEN ON A CARD

COMBINATION CALIPERS

Inside and Outside Calipers also Depth Gauge made of nickel silver, guaranteed not to rust graduated in 16ths and 32nds. Jaws 1 in. deep.
Nos........... 134 135 136
Length, in. . . . 4 5 6
Wt, doz., lbs... 2 1 1
Per dozen...... $43.20 45.60 48.00

HALF DOZEN IN A BOX
ROSE TOOLS, INC.

FAY PATENT CALIPERS

No. 76. No. 74.
Polished steel, tempered flat steel bow spring, with spring nut.

Length, in. 2½ 3 4
Wt., ozs. 1 1½ 2

No. 76—Outside, per dozen $24.00 24.00 25.80
No. 74—Inside, per dozen $24.00 24.00 25.80

No. 75—Outside, per dozen $25.80 31.00 36.20
No. 77—Inside, per dozen $25.80 31.00 36.20
SIXTH DOZEN IN A BOX

YANKEE CALIPERS

No. 79. No. 73.
Polished, tempered flat steel bow spring, with solid nut.

Similar to the Fay pattern but are not quite as heavy.
The bow on No. 73 is stiff, making the caliper reliable. After calipering
the inside of chambers cavity by springing the legs they may be withdrawn,
but as they spring back will show the exact size calipered.

Length, in. 2½ 3 4 5
Wt., ozs. 2 1½ 1¾ 1½

No. 79—Outside, per dozen $13.80 14.60 15.70 15.20
No. 73—Inside, per dozen $13.80 14.60 15.70 15.20

No. 78—Outside, per dozen $21.00 22.00 23.00 28.50
No. 77—Inside, per dozen $18.00 20.70 28.50
QUARTER DOZEN IN A BOX

THREAD CALIPERS

No. 179. No. 184.
Polished steel, tempered flat steel bow spring, with solid nut, designed
for measuring diameter at bottom of threads.

Length, in. 4 5 6
Wt., ozs. 1½ 1½ 2½

No. 179—Outside, per dozen $15.70 17.20 18.00
No. 184—Inside, per dozen $15.70 17.20 18.00
QUARTER DOZEN IN A BOX

LOCK-JOINT CALIPERS

No. 38. No. 39.
Polished Steel, Lock Joint.
Instantly adjusted to their full extent, and as quickly locked firm in
the joint, and yet provided with a sensitive adjustment. A socket joint
made tapering is locked or released by a partial turn of the knurled disk,
drawing it together. A spring washer under the disk maintains an easy
friction in the joint when unlocked.

Length, in. 4 6 8
Wt., ozs. 1½ 3 4½
No. 38—Outside, per dozen $18.00 20.70 25.80
No. 39—Inside, per dozen $16.90 20.70 25.80
QUARTER DOZEN IN A BOX

IMPROVED FIRM-JOINT CALIPERS

No. 26. No. 27.
Polished Steel.
Joint is made to be drawn together by means of a screw. Main stud is
squared and fitted to one leg, preventing the stud turning when loosening
and tightening, and insuring a smooth and uniform friction of more
or less tension to suit the user.
The capacity is about one-third greater than the size given.

Length, in. 4 5 6
Wt., ozs. 1½ 1¾ 2½

No. 26—Outside, per dozen $8.60 10.30 12.00 13.80
No. 27—Inside, per dozen $8.60 10.30 12.00 13.80
Length, in. 8 10 12
Wt., ozs. 3½ 5½ 7½

No. 26—Outside, per dozen $17.20 18.90 20.70
No. 27—Inside, per dozen $17.20 18.90 20.70
QUARTER DOZEN IN A BOX

Our reputation founded on over sixty-seven years' business stands back
of the brand.

All goods branded are guaranteed to be of highest quality material
and workmanship and free from imperfections.

In selling articles there is a profit for you and satisfaction to your customers.
STARRETT HERMAPHRODITE CALIPERS

Polished steel, adjustable point, lock-joint, sensitive adjustment.
A socket joint made tapering is locked or released by a partial turn of the knurled disc drawing it together. A spring washer under the disk maintains an easy friction in the joint when unlocked.

No. 42—In. 4 6 8
Wt., doz., lbs. 1 2 3
Per dozen $20.70 24.00 28.50
QUARTER DOZEN IN A BOX

FIRM-JOINT HERMAPHRODITE CALIPERS

Polished Steel, Adjustable Point.
The improved firm joint, with its smooth and uniform friction, is superior to the old style riveted jointed.

No. 41—Length, in. 4 6 8
Wt., doz., lbs. 1 2 3
Per dozen $13.80 17.20 20.70
QUARTER DOZEN IN A BOX

STARRETT IMPROVED EXTENSION DIVIDERS

Head and arms of best malleable iron and the balance of tool steel, hardened points, auxiliary caliper legs, patent locking nut.

A well made, nicely finished divider, with auxiliary caliper legs, which, together with a common pencil, form convenient combinations. The patent locking nut between the arms, against which a spiral spring acts, is a valuable feature. After the fine adjustment is made, the nut may be turned back, locking spring and arms firmly, thus remedying the weak point which renders the common wing divider only as stiff as the adjusting spring.

WITH DIVIDER LEGS ONLY

Nos. 85A 85B
Length, in. 7 9
Wt., doz., lbs. 7 10
Per dozen $31.00 36.20

COMPLETE

Nos. 85C 85D
Length, in. 7 9
Wt., doz., lbs. 12 16
Per dozen $51.80 57.00
ONE IN A BOX

SCRIBERS

The spindle passes through a rotating head, joined to a rocking bracket, pivoted in base. The bracket being adjusted by a knurled screw in one end against a stiff spring in the other, the spindle may be set upright or at any angle, or turned so as to work under the base and be sensitively adjusted to any position. The snug and head carrying the scriber are so made that when the clamp nut is loosened, all may be freely moved to any position and by friction springs retained in place until a slight turn of the clamp nut holds them firm. In the rear end of the base are two gauge pins frictionally held which may be pushed to bear against the edge of a surface plate or in slot of a planer bed for linework.

No. 57A—New Universal, heavy base grooved through bottom and end, adapting it for use on or against circular work as well as flat surfaces, height 3 in., with 9 in. spindle, w't per doz. 25 lbs., per dozen $60.40
ONE IN A PACKAGE
COMBINATION SETS

ROSE TOOLS, INC.

PROTRACTOR HEADS

One set in a package

Combination Squares

Hardened polished steel blade, ja-
med iron stock, polished faces and
edges. Complete substitute for a whole
set of common try squares and is one
of the best gauges made for trans-
fer measurements or laying out.

With Center Head

No. 011—In. 9 12
Wt., ozs. 83 123
Per dozen $3.40 5.60

Without Center Head

No. 23—In. 9 12
Wt., ozs. 83 123
Per dozen $3.70 4.60

A Combined Scale Rule, Degree
Square and Caliper.

Graduated from 1 in. to 4 in. in
48ths. Graduated from 4 in. to 8 in.
in 32nds. Caliper is graduated in
48ths.

Accurately and carefully made from
18-gauge, nickel silvered, and will not
rust. Center joint has fiber bearings
making very rigid.

No. 603—Length, in. 3 4 6 12
Wt., ozs. 83 2
Per dozen $3.00 5.60

Flexible, very thin, spring tem-
ered, graduated in 32nds and 64ths
on one side only.

No. 320—Length, in. 3 4 6 12
Wt., ozs. 2 2 2 2
Per dozen $10.30 12.90 15.70 28.50
HALF DOZEN IN A PACKAGE

Improved hook, spring tempered,
1/4 in. thick, graduated in 64ths and 32nds
on one side, 16ths and 8ths on the other,
end graduated in 32nds. Convenient for
infinite measurements from 48ths of
angles, through hubs of pulleys, setting inside
calipers, etc. Hook quickly removed by
 turned eccentric stud one-half round.

No. 419—Length, in. 6 9 12
Width, in. 1 1 2
Wt., ozs. 2 2 2
Per dozen $2.10 3.20 3.70
QUARTER DOZEN IN A PACKAGE

Narrow hook, spring tempered,
1/4 in. thick, graduated in 32nds on one side, 64ths
on the other.

No. 422—Length, in. 6 9 12
Width, in. 1 1 2
Wt., ozs. 2 2 2
Per dozen $1.70 2.40 2.80
QUARTER DOZEN IN A PACKAGE

Spring tempered, 1/4 in. thick,
graduated in 64ths and 32nds
on one side, 16ths and 8ths on the
other, graduated in 32nds on both
ends of one side.

No. 603—Length, in. 3 4 6 12
Width, in. 1 1 2 2
Wt., ozs. 2 2 2 2
Per dozen $10.30 12.90 15.70 28.50
HALF DOZEN IN A PACKAGE

Polished steel, graduated one cor-
er each in 32nds, 48ths, 64ths and
144ths, length 21 in., 60 degree angles.

For use in grinding and setting
cutting tools.

No. 390—Not tempered, w/t per doz.
$3 60 6 80

No. 391—Spring tempered, w/t per
doz. $6 80 $6

HALF DOZEN IN A PACKAGE

Center Gauges

The center joint is so constructed
that the rule remains firm in any posi-
tion. The vernier reads to one-half
degree and is a valuable feature in
obtaining fine measurements.

Nickel silver, combines caliper
rule, try square bevel square and
protractor, adjustable to any angle
or bevel desired, marked in 8ths 16ths
and 32nds.

Nos. 44 45
Length, in. 6 12
Wt. per doz., lbs. $13 3
Per dozen $43.20 54.00
HALF DOZEN IN A BOX

A Combined Scale Rule, Degree
Square and Caliper.

Graduated from 1 in. to 4 in. in
48ths. Graduated from 4 in. to 8 in.
in 32nds. Caliper is graduated in
48ths.

Accurately and carefully made from
18-gauge, nickel silvered, and will not
rust. Center joint has fiber bearings
making very rigid.

No. 116—W/t per doz. 13 lbs.
Per dozen $36.00

ONE IN AN ENVELOPE

ROSE TOOLS, INC.
**DOUBLE SQUARES**

Polished and hardened steel blade, japanned cast iron stock with polished face and edges; blade graduated in 64ths and 32nds on one side, 16ths and 8ths on the other. 4 and 6 in. are fitted with both bevel and regular blades.

The sliding scale, shortened or extended full length makes this square very valuable, while with the extra bevel blade we have both the hexagon and octagon angles.

**No. 13**—In. 4 6 9
W't, doz., lbs. 3 1/2 7 1/2 11 1/2
Per dozen $34.50 51.80 62.00
ONE IN A PACKAGE

**STARRETT THICKNESS GAUGES**

The thickness is marked on each leaf.

**No. 172A**—Polished steel, 9 tempered leaves—0.015 to 0.015—3/8 x 3 in. case, 3/16 x 3 in. leaves, w't per doz. 13 lbs., per dozen...$25.80

ONE IN A PACKAGE

**STARRETT SCREW PITCH GAUGES**

Polished Steel, 2½ in. Long.

Can be used inside a nut as well as on the outside of a screw or bolt. Each leaf is stamped in decimals showing the double depth of thread on said leaf, and this of course equals the depths of threads on the two sides of a tap having the same pitch, and helps the workman determine the size of drill needed to drill the hole the right size to leave a full V thread for a tap having the same pitch.

**Nos.** 40 6
Number of pitchs 22 30
Pitches 9 to 40 4 to 42
W't doz. lbs. 13 1/2 14
Per dozen $21.60 30.20

ONE IN A PACKAGE

**STARRETT DEPTH GAUGES**

The wire in this gauge is held to a groove by a friction spring inside the nut while adjusting, and may be used close to the end, as well as in the middle of the straight edge. By loosening the nut, the gauge may be neatly folded.

**No. 45A**—Polished steel, 3/8 in. stock, w't per doz. 13 lbs., per dozen...$15.70
ONE IN A BOX

**STARRETT PROTRACTORS**

Graduated in degrees from 0 to 90, both ways. The blade is 6 inches long, and by means of patent lock joint is set firmly by a slight turn of the nut. The back of the tool is flat. This protractor is accurate and is convenient for setting bevels, for transferring angles, as a small T-square, or for a large number of other uses which will readily occur to a machinist or draftsman.

**No. 19**—Polished steel, graduated from 0 to 90 degrees from each end, 6 in. blade, w't per doz. 13 lbs., per dozen...$38.80
ONE IN A BOX

**STARRETT STAIR GAUGE FIXTURES**

A pair of these fixtures can be readily clamped to a carpenter's steel square to form a gauge for various uses.

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 in quartering a circle.

**No. 111**—Nickel plated, steel, unpolished body, w't 4 oz., per pair...$1.20
THREE PAIRS IN A BOX

**STARRETT POCKET SCREW DRIVER**

Steel tubing, knurled and nickel plated, properly tempered blades.

**Nos.** 553A 553B
Diam., handle, in. 1/2 1/8
Length of blade, in. 1 1/2 3
W't, doz. lbs. 1 1/2 1
Per dozen...$6.80 8.60

HALF DOZEN IN A BOX

**STANDARD WIRE GAUGES**

Cast Steel, Round.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Small Large</td>
<td></td>
</tr>
<tr>
<td>Gauges, wire Nos.</td>
<td>6 to 28 30 to 36</td>
<td></td>
</tr>
<tr>
<td>W't doz. lbs.</td>
<td>1 21</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$28.10 46.00</td>
<td></td>
</tr>
<tr>
<td>HALF DOZEN IN A BOX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**STARRETT MICROMETERS**

No. 23—Polished steel, hardened spindle, knurled sleeve and lock nut, with ratchet stop, for measurement by thousandths up to 1 in., w/t per doz. 77 lbs., per dozen $172.80

ONE IN A PACKAGE

No. 25—Polished steel, hardened spindle, knurled sleeve and lock nut, with ratchet stop and 1 in. test gauge, for measurement by thousandths from 1 in. to 3 in., w/t per doz. 77 lbs., per dozen $190.00

ONE IN A PACKAGE

**STARRETT HIGH SPEED INDICATORS**

This indicator may be run at highest speed required without heating, and this on account of frictionless bearing against which the inner end of the spindle revolves. The dial plate has two rows of figures, reading right or left, as the shaft may run. The rotating disc being carried by friction, may be moved to the starting point where the raised knobs coincide. When the spindle is placed in connection with the revolving shaft, pressing the raised knob with the thumb will prevent the disc from rotating, while the hand of the watch gets to the right position to take the time. By releasing the pressure the disc is liberated for counting the revolutions of the shaft when every 100 may be noted by feeling the knob pass under the thumb lightly pressed against it, thus relieving the eye, which has only to look on the watch to note the time.

No. 104—Nickel plated scored steel handle, hardened steel pointed spindle with rubber tip for pointed or hollow center, encased working parts 5 in. long, w/t per doz. 33 lbs., per dozen $21.60

ONE IN A BOX

**STARRETT REGISTERING SPEED INDICATORS**

Devised to automatically register hundreds as well as units and tens, and thus relieve the mind from keeping tally. The instrument will register 5,000 revolutions. The large dial is graduated into one hundred lines, each one representing a revolution of the spindle. The small dial has fifty lines cut upon its face, each representing one hundred revolutions of the spindle (or one complete turn of the large dial). A spring finger trip attached to the case engages with one of the lines in the small dial and holds it from revolving until the large dial makes one complete turn, when the trip pin passing under the spring trip lifts it, and the dial is frictionally carried along by the large plate one line, thus showing that one hundred revolutions of the spindle have been made.

No. 107—Nickel plated, hard rubber handle, making a safe insulator when used on electric machinery, hardened steel pointed spindle with rubber tip for pointed or hollow centers, w/t per doz. 41 lbs., per dozen $62.00

ONE IN A BOX
# Center Punches

**Tool Steel, Tempered, Knurled Center.**
- **Nos.** 924, 925, 926
- **Diam. in.** 1/4, 5/16, 3/8
- **Wt. per doz., lbs.** 1 1/2
- **Per dozen** $2.50, 2.70, 3.10

**One Dozen in a Box.**

## Nail Sets

<table>
<thead>
<tr>
<th>No. 40</th>
<th>Diam. in, size at point, 3/16 in., w/t per doz., 1 lb.</th>
<th>Per dozen</th>
<th>$3.00</th>
</tr>
</thead>
</table>

**Assorted Sizes.**
- **No. 38**—Consists of one dozen, 4 each 3/16, 5/32, and 7/32 in. points, diam. 3/32 in., w/t, doz. 1 lb., assort. $3.00
- **No. 39**—Consists of one dozen, 6 each 3/32 and 7/32 in. points, diam. 3/32 in., w/t, doz. 1 lb., assort. $3.00

**One Dozen in a Box.**

For use on large nails and spikes.

**No. 30**—Car builders', high grade tool steel, 2-1/2 in., oil finished octagon barrel, 4 in. cup point, polished taper, w/t per doz. 7 lbs., assort. $7.00

**One Dozen in a Box.**

**Straight Sizes.**
- **Nos.** 24, 25, 26
- **Size, in.** 7/32, 9/32, 11/32
- **Length, in.** 4, 4, 4
- **Wt. doz., lbs.** 1
- **Two Dozen in a Display Box** Two Dozen in a Box

**Assorted Sizes.**
- **No. 50**—Consists of two dozen, assorted 2-32, 3-32, 4-32 and 5-32 in. points, w/t, box 1 lb., assort. $5.40

**We do not break boxes.**

**Two Dozen in a Box.**

**Straight Sizes.**
- **Nos.** 92, 93
- **Diam. in.** 3/32, 1/8
- **Size at point, in.** 3/32, 1/8
- **Wt. doz., lbs.** 1
- **Per dozen** $5.60

**One Dozen in a Box.**

**We do not break boxes.**

**Punch Set Assortment.**

**Machine Punches**

**No. 5**—In., cast steel, quality, 3 in. point, length 9 in. per doz. 8 lbs., per dozen $6.10

**Half Dozen in a Box.**

**Straight Sizes.**
- **Nos.** 11, 12, 13, 14
- **Sizes, in.** 6 x 4, 6 x 4, 6 x 4, 6 x 4
- **Size at point, in.** 7/32, 1/8, 1/8, 1/8
- **Wt. doz., lbs.** 3, 3, 3, 3
- **Per dozen** $4.00, 4.00, 4.00, 4.00

**Half Dozen in a Box.**

**Syracuse AS Assorted Sizes.**
- Consists of one dozen, assorted 3/32, 1/8, 1/8, 7/32 and 1/4 in. octagon tool steel, regular taper, polished, oil finished barrel.

**Straight Sizes.**
- **Nos.** 104, 105, 106, 107
- **Sizes, in.** 6 x 4, 6 x 4, 6 x 4, 6 x 4
- **Size at point, in.** 1/8, 1/8, 1/8, 1/8
- **Wt. doz., lbs.** 3, 3, 3, 3
- **Per dozen** $3.60, 3.60, 3.60, 3.60

**Half Dozen in a Box.**

**Reverso Assorted Sizes.**
- Consists of one dozen, assorted 3/32, 1/8, 1/8, and 7/32 in. points, diam. 1 in., length 6 in., w/t doz., 3 lbs., per assortment $3.50

**One Dozen in a Box.**

**Sydney Regular Taper Machine Punches.**

Forged from high grade octagon tool steel, carefully tempered, polished taper, oil finished barrel.

**No. 124**—Tool steel, tempered, polished and blued finish, 3 in. knurled body length 4 in. Contains 24 assorted Punches, as follows: 14 Pin Punches, 8 to 1-1/2 inch Point, 4 diam. 1/4 inch center and 2 prick Punches. W/t per asst. 21/2 lbs., per asst. $5.60

**Two Dozen in a Display Box.**

**Rose Tools, Inc.**

**Hibbard, Spencer, Bartlett & Co.**

**State Street Bridge.**
# Cold Chisels

<table>
<thead>
<tr>
<th>Size</th>
<th>1-4</th>
<th>3-8</th>
<th>1-2</th>
<th>5-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Length</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$6.20</td>
<td>6.40</td>
<td>6.70</td>
<td>8.80</td>
</tr>
</tbody>
</table>

**Half Dozen in a Box**

<table>
<thead>
<tr>
<th>Size</th>
<th>3-4</th>
<th>7-8</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Length</td>
<td>11</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>11</td>
<td>14</td>
<td>19</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$9.60</td>
<td>13.40</td>
<td>16.00</td>
</tr>
</tbody>
</table>

AND 4 IN ONE DOZEN; BALANCE HALF DOZEN IN A BOX

---

# Cape Chisels

<table>
<thead>
<tr>
<th>Size at point, in.</th>
<th>1-4</th>
<th>5-16</th>
<th>3-8</th>
<th>1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Length</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$6.20</td>
<td>6.40</td>
<td>6.70</td>
<td>8.80</td>
</tr>
</tbody>
</table>

**Half Dozen in a Box**

---

# Long Brick Chisels

<table>
<thead>
<tr>
<th>Size</th>
<th>1-2</th>
<th>5-8</th>
<th>3-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>12</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>8</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$6.00</td>
<td>8.40</td>
<td>12.00</td>
</tr>
</tbody>
</table>

**Half Dozen in a Package**

---

# Diamond Point Chisels

<table>
<thead>
<tr>
<th>Size at point, in.</th>
<th>1-4</th>
<th>5-16</th>
<th>3-8</th>
<th>1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Length</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$6.90</td>
<td>7.00</td>
<td>8.80</td>
<td>11.40</td>
</tr>
</tbody>
</table>

**Half Dozen in a Box**

---

# Round Nose Chisels

<table>
<thead>
<tr>
<th>Size at point, in.</th>
<th>1-4</th>
<th>5-16</th>
<th>3-8</th>
<th>1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Length</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$6.20</td>
<td>6.40</td>
<td>6.70</td>
<td>8.80</td>
</tr>
</tbody>
</table>

**Half Dozen in a Box**

---

# Saddlers' or Belt Punches

**Red**, length 4 in, forged from fine tool steel, polished handle, blued barrel, evenly tempered, carefully milled, reamed to allow easy clearance in punching.

<table>
<thead>
<tr>
<th>Size</th>
<th>1, 2 and 3, w/t doz.</th>
<th>4, 5, w/t, doz.</th>
<th>6 and 7, w/t, doz.</th>
<th>8 and 9, w/t, doz.</th>
<th>10 and 12, w/t, doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per dozen</td>
<td>$5.60</td>
<td>6.60</td>
<td>6.60</td>
<td>6.60</td>
<td>9.00</td>
</tr>
</tbody>
</table>

**One Dozen in a Box**

---

**Cast steel**, polished, length 3½ in.

| No. 55 | Sizes 1, 2, 3, 4, 5 and 6, w/t doz. | 4 lb, per dozen | $3.10 |
| No. 56 | Sizes 7, 8 and 9, w/t doz. | 1 lb, per dozen | $3.60 |
| No. 57 | Sizes 10 and 12, w/t doz. | 1½ lb, per dozen | $5.00 |

**One Dozen in a Box**

---

**Tool steel**, tempered, length 3½ in.

| No. 33 | Sizes 1, 2, 3, 4, 5 and 6, w/t doz. | 4 lb, per dozen | $2.50 |
| No. 34 | Sizes 7, 8 and 9, w/t doz. | 1½ lb, per dozen | $2.80 |
| No. 35 | Size 10, w/t doz. | 1 lb, per dozen | $3.50 |

**One Dozen in a Box**

---

**A handy vest pocket punch. Adjustable blade. Can cut any size hole from ¼ to 3 in., easily sharpened on a stone when dull. Cutter is pushed in**

| No. 70 | **Rogers**, fine quality steel, length 3 in. closed, 5½ in. when open, w/t per doz. | 2 lb, per dozen | **$12.00** |

**One Dozen in a Box**

---

**Octagon, Cast Steel, Natural Finish.**

<table>
<thead>
<tr>
<th>Size</th>
<th>1-4</th>
<th>3-8</th>
<th>1-2</th>
<th>5-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Length</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>11</td>
<td>15</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$5.00</td>
<td>8.00</td>
<td>11.20</td>
<td></td>
</tr>
</tbody>
</table>

AND 4 IN ONE DOZEN; BALANCE HALF DOZEN IN A BOX

---

**Hexagon. Cast Steel, Natural Finish.**

<table>
<thead>
<tr>
<th>Size</th>
<th>1-4</th>
<th>3-8</th>
<th>1-2</th>
<th>5-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Length</td>
<td>7</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Wt, doz.</td>
<td>11</td>
<td>15</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$5.00</td>
<td>8.00</td>
<td>11.20</td>
<td></td>
</tr>
</tbody>
</table>
### SPRING PUNCHES

**Spring Punches**

- **One**: Spring Punches are forged from the best tool steel.
- **Description**: The grip with its mild curve exactly fits the hand.
- **Cutting Tubes**: Made of tool steel, tapered to allow easy escape of leather and can be changed.
- **Cutting Seat**: Copper to protect cutting edges.

**No. 24**
- **Description**: 4 tubes, drop forged tool steel, polished, knurled handles, tubes and spring straw color, sizes 4, 6, 8 and 10, length 9 in., w/t per doz. 10 lbs. per dozen $18.00
- **Half Dozen in a Box**: $2.80

**No. 21**
- **Description**: Single tube, drop forged tool steel, polished, knurled handles, tube and spring straw color, assorted sizes, length 9 in., w/t per doz. 8 lbs., per dozen $13.00
- **Half Dozen in a Box**: $2.50

### PARAGON

- **Description**: Full nickel plated, knurled handles. Best quality assorted screw tubes, crucible steel frame, light, strong and durable.

**Nos.**
- 284: 8
- 286: 8

**Length, in.**
- 8

**No. of Tubes**
- 4

**Wt., oz., lbs.**
- 9

**Per dozen**: $20.00

**Half Dozen in a Box**: 24.00

### CONDUCTORS' PUNCHES

**LoDi**
- **Description**: Revolving, pressed steel, polished steel, polished, bright finish, steel, drive tubes sizes 1, 3, 5 and 7, length 8 in., knurled handle.

**No. 38**
- **Description**: 4 tube, w/t per doz., 7 lbs., per dozen $14.40

**No. 385**
- **Description**: 6 tube, w/t per doz., 8 lbs., per dozen $18.40

**No. 40**
- **Description**: For No. 384, one in a box

**No. 260**
- **Description**: Wrought steel, nickel plated with reservoir, fancy holes, length 5 in., w/t per doz. 2 lbs., per dozen $5.00

**Half Dozen in a Box**: 5.00

### PARAGON

- **Description**: Single tube, full nickel plated, knurled handle, best quality screw tubes, assorted sizes, crucible steel frame. Light, strong and durable.

**No. 291**
- **Description**: Length 8 in., w/t per doz. 5 lbs. per dozen $10.00

**Half Dozen in a Box**: 10.00

### CONDUCTORS' PUNCHES

**No. 38**
- **Description**: Nickel plated, fancy holes, assorted, length 5 1/2 in., w/t per doz. 3 lbs. per dozen $26.00

**Half Dozen in a Box**: 26.00

**No. 120**
- **Description**: Nickel plated, with fancy holes, assorted, length 4 1/2 in., w/t per doz. 2 1/2 lbs. per dozen $20.30

**Half Dozen in a Box**: 20.30

**No. 263**
- **Description**: Nickel plated, fancy holes assorted, length 4 1/2 in., w/t per doz. 3 lbs. per dozen $54.00

**One in a Box**: 54.00

This is one of the best punches made for street car transfers and other tickets, as the numbers to be punched can be plainly seen through the punch.
**FLAT NOSE**

Drop forged from best special Swedish plier steel, close fitting box joints, polished jaws, gun metal finish handles.

**NEVER SLIP**

A very high grade tool in every way, 8 inch full polished, forged steel handles, extra fine crucible steel inserted cutting jaws securely fastened to plier with countersunk screws, the removable cutters can be easily replaced, thus increasing many times life of plier, w/t per doz. 8 1/4 lbs.

**EXTRA JAWS FOR NEVERSLIP PLIERS**

For No. 480—Per dozen pairs $12.00

The rubber is a special composition, seamless, moulded to the handles, and almost unbreakable, offering a perfect resistance of about 2,000 volts.

**MILLINERS’ PLIERS**

Combination oval nose and side cutting nippers.

**SIDE CUTTING PLIERS**

ROSE TOOLS, INC.

ROSE TOOLS, INC.

**FREEWAL**

Drop forged from best crucible steel, close fitting box joints, polished jaws, gun metal finish handles.

**CUT TOOLS**

CAST STEEL, forged, raised cutters, oil finished, lap joint, polished jaws.

**EXTRA JAWS FOR NEVERSLIP PLIERS**

For No. 480—Per dozen pairs $12.00

The rubber is a special composition, seamless, moulded to the handles, and almost unbreakable, offering a perfect resistance of about 2,000 volts.

**MILLINERS’ PLIERS**

Combination oval nose and side cutting nippers.

**FREEWAL**

Drop forged from best special Swedish plier steel, close fitting box joints, polished jaws, gun metal finish handles.

**SIDE CUTTING PLIERS**

ROSE TOOLS, INC.

ROSE TOOLS, INC.

**FREEWAL**

Drop forged from best special Swedish plier steel, close fitting box joints, polished jaws, gun metal finish handles.

**SIDE CUTTING PLIERS**

ROSE TOOLS, INC.

ROSE TOOLS, INC.
**ROSE TOOLS, INC.**

**ELECTRICIAN'S Pliers**

**Round Nose.**
- No. 68 OYB—5½ in., drop forged, lap joint, long polished jaws, gun metal finish handles, w't per doz. 2 lbs. per dozen $18.80
- ONE IN A BOX

**Round Nose Side Cutting.**
- No. 69 OYB—5½ in., drop forged, lap joint, long polished jaws, gun metal finish handles, w't per doz. 2½ lbs. per dozen $21.20
- ONE IN A BOX

**KLIEN'S ELECTRICIAN'S Pliers**

**Oblique Cutting**
- Electricians, telephone men, and switchboard builders will find this particular oblique cutting plier one of the most useful tools in their kits.
- Cuts close, the narrow head permitting its use in confined places. The knives are perfectly fitted, so that they meet accurately at all points.
- Nos. 2025 2026
- Inches 6 6
- W't, per doz. lbs. 4 4
- Per dozen $35.10 41.40
- ONE IN A BOX

**Long Nose**
- This style of plier has been perfected to meet a long felt want of the electrician and general mechanic. It is adaptable to stripping the ends of insulated wire and the extra long reach of the jaws permit working in confined space.
- WITHOUT CUTTER S
- Nos. 3015 3016
- Inches 5 5
- W't, per doz. lbs. 24 3
- Per dozen $31.90 35.10
- WITH SIDE CUTTING KNIVES
- Nos. 2035 2036
- Inches 5 6
- W't, per doz. lbs. 24 3
- Per dozen $38.20 41.40
- ONE IN A BOX

**Flat Nose.**
- No. 63 OYB—5½ in., drop forged, lap joint, long polished jaws, gun metal finish handles. This plier is adapted for extra fine work, w't per doz. 3 lbs. per dozen $28.00
- ONE IN A BOX

**Long Flat-Nose**
- Extra long wide flat nose makes this an especially useful plier.
- No. 3056—6 in., w't per doz. 3½ lbs., per dozen $35.10
- ONE IN A BOX

**Flat Nose Side Cutting.**
- No. 65 OYB—6 in., drop forged, lap joint, long polished jaws, gun metal finish handles, w't per doz. 2½ lbs. per dozen $22.40
- ONE IN A BOX

**Long Flat-Nose Side-Cutting**
- Extra long flat nose, side cutting knives.
- No. 2066—6 in., w't per doz. 3½ lbs., per dozen $41.40
- ONE IN A BOX

**DIAGONAL CUTTING Pliers**

**These are extra heavy and are designed so as to give very strong leverage in using.**
- One pound pressure on handles cuts twenty pounds on jaws.
- No. 7 OYB—6½ in., crucible steel, polished jaws, gun metal finish, knurled handles, w't per doz. 6 lbs., per dozen $20.40
- ONE IN A BOX

**End Cutting Nippers**

**Swedish pattern, crucible steel, box joint, polished jaws, gun metal finish handles.**
- Nos.—OYB 275 276
- Inches 5 6
- W't per doz. lbs. 26 3
- Per dozen $24.00 28.00
- ONE IN A BOX

**Bernard**
- No. 165—6 in. drop forged, nicked plated knurled handles, black jaws, polished cutting edges, compound leverage, which gives it great cutting power, jaws open ¾ in., w't per doz. 7½ lbs., per dozen $28.80
- HALF DOZEN IN A BOX
### Cutting Pliers

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Length</th>
<th>Width</th>
<th>Price/Per Doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>Crucible steel, full nickel plated, parallel jaws</td>
<td>5 1/2</td>
<td>4 1/2</td>
<td>$23.00</td>
</tr>
<tr>
<td>1120</td>
<td>Crucible steel, nickel plated, parallel jaws, cuts and pierces 1/2 in. round belting</td>
<td>6</td>
<td>6</td>
<td>$32.00</td>
</tr>
</tbody>
</table>

### Bernard's

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Length</th>
<th>Width</th>
<th>Price/Per Doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>Combination gas and cutting pliers, flat nose</td>
<td>5 1/2</td>
<td>4 1/2</td>
<td>$26.00</td>
</tr>
<tr>
<td>1120</td>
<td>Combination gas and cutting pliers, parallel jaws</td>
<td>6</td>
<td>6</td>
<td>$32.00</td>
</tr>
</tbody>
</table>

### Plier Assortments

<table>
<thead>
<tr>
<th>Assortment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 102</td>
<td>5 1/2 inch, Bernard Pliers</td>
</tr>
<tr>
<td>No. 128</td>
<td>6 inch, Bernard Pliers</td>
</tr>
</tbody>
</table>

Each assortment is mounted on attractive metal display board, size 9 x 16 in. Finished in three colors. No extra charge for display board.

### Mathias Klein & Sons

<table>
<thead>
<tr>
<th>Assortment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 203-6</td>
<td>Long Nose Side Cutting Pliers</td>
</tr>
<tr>
<td>No. 301-6</td>
<td>Long Nose Pliers</td>
</tr>
</tbody>
</table>

Each assortment has packed with it enameled door signs, counter folders and extra booklets for sales help. Is priced at regular selling price of pliers, without any extra charge for display board.

### Bernard Pliers

- Assortment consists on one each No. 102, 4 1/2, 5 1/2, and 6 1/2 in., No. 128, 5, 6 and 7 in., Bernard Pliers. Mounted on attractive metal display board, size 9 x 16 in. Finished in three colors. No extra charge for display board.

### Klein Pliers

- Assortment consists of:
  1. No. 203-6 inch Long Nose Side Cutting Pliers
  2. No. 301-6 inch Long Nose Pliers
  3. No. 202-5 inch Oblique Side Cutting Pliers
  4. No. 201-6 inch Side Cutting Pliers
  5. No. 201-7 inch Side Cutting Pliers
  6. No. 201-8 inch Side Cutting Pliers

One of each of above are mounted on attractive metal blue display board, size 14 x 11 inch.

Each assortment has packed with it enameled door signs, counter folders and extra booklets for sales help. Is priced at regular selling price of pliers, without any extra charge for display board. W't per ass't. 17 1/2 lbs., per ass't.

**Prices:**
- Bernard Pliers: $20.50
- Klein Assortment: $70.00
ROSE TOOLS, INC.

PLIER ASSORTMENTS

THE LOGICAL CHOICE OF THOSE WHO JUDGE VALUE BY PRACTICAL SERVICE

These Pliers are all forged from special steel exactly and individually tempered and possess unique, practical features in design and finish which give them unmistakable distinction.

Scientifically designed and perfectly balanced. They are not heavy. This insures utmost leverage—the strain being uniformly distributed over the entire tool, making for greater strength and durability.

No. 24.

No. 22.

No. 18.

These assortments have been made up from our regular stock and comprise the best selling sizes in high grade pliers. They are very attractive in appearance and will afford valuable help to the dealer in selling. No charge is made for the display board.

One of each number of pliers in the assortment is mounted on attractive wood display board, made in three ply to prevent warping. Board is attractively finished in mahogany. Each plier is securely fastened to board with nickel plated bolt and nut. Board has a wire easel on back for support.

No. E24—GME Plier Assortment.
The assortment contains following GME Combination Pliers: Two each Nos. 210 and 405, three No. 208, seven each Nos. 206 and 406 and three Hibbard Combination Pliers. Wt per assortment 15 lbs., per assortment $32.50

No. E22—GME Plier Assortment.
The assortment contains following GME Pliers: Two each Nos. 27—5 in. and No. 208, three each Nos. 69 and 47—8 in. and six each Nos. 206 and 406. Wt per assortment 13½ lbs. ... per assortment $33.50

No. E18—GME Plier Assortment.
The assortment contains following GME Pliers: Four each Nos. 65 and 270, two each Nos. 27—5 in. and No. 77—6 in., three each No. 7 and No. 73—8 in. Wt per assortment 13½ lbs. ... per assortment $37.00

ONE ASSORTMENT IN A BOX
### Combination Pliers

#### CVB
- Finely nickel plated, crucible steel, knurled handles, narrow jaw.
- A combination gas plier, wire cutter, wrench and screw driver.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>206</th>
<th>208</th>
<th>210</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length in.</td>
<td>6</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>6</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$16.00</td>
<td>20.00</td>
<td>24.00</td>
</tr>
</tbody>
</table>

Extra fine polished, coppered, and nickel plated, narrow buffed, wide round Dentyne knurled handles, with U.S.A. shield. Will handle all sizes of spark plugs, pipes and nuts from 1/4 to 1 in., combines wire cutter, gas plier, wrench and screw driver.

No. 405 CVB - 5 in., w/t per doz. 45 lbs., $15.00 per dozen.
No. 406 CVB - 6 in., w/t per doz. 6 lbs., $16.00 per dozen.

**One in a Box**

**Half Dozen in a Carton**

#### RIVARG
- High grade tool steel, drop forged, combining gas plier, wire cutter, wrench and screw driver, knurled handles.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>222 RIVARG</th>
<th>322 RIVARG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length in.</td>
<td>6 in.</td>
<td>8 in.</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>6 lbs.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$7.60</td>
<td>$10.80</td>
</tr>
</tbody>
</table>

**Nickel Plated.**

- Nickel plated, combining gas plier, wire cutter, wrench and screw driver.

No. 305 - Cruso, drop forged, 5 in., w/t per doz. 41 lbs., $5.00 per dozen.
No. 306 - Cruso, drop forged, 6 in., knurled handle, w/t per doz. 6 lbs., $5.00 per dozen.

**One in a Box**

#### RIVARG
- High grade tool steel, drop forged, combining gas plier, wire cutter, wrench and screw driver, knurled handles.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>322 RIVARG</th>
<th>323 RIVARG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length in.</td>
<td>6 in.</td>
<td>8 in.</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>6 lbs.</td>
<td>10 lbs.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$10.80</td>
<td>15.20</td>
</tr>
</tbody>
</table>

**One in a Box**

**Nickel Plated.**

- Nickel plated, combining gas plier, wire cutter, wrench and screw driver.

No. 305 - Cruso, drop forged, 5 in., w/t per doz. 41 lbs., $5.00 per dozen.
No. 306 - Cruso, drop forged, 6 in., knurled handle, w/t per doz. 6 lbs., $5.00 per dozen.

**One in a Box**

### Bernard
- Forged steel, full nickel plated, knurled handles, combining side cutter, gas plier and screw driver. A universal slip-joint cutting plier. Jaws are formed to hold objects of any shape or form without slipping. The flush center pin and narrow nose increases the range and efficiency of the tool, while the broad scored handles are comfortable to the grip.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>605</th>
<th>607</th>
<th>608</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length in.</td>
<td>5 1/2</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>3 1/2</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$22.00</td>
<td>26.40</td>
<td>33.00</td>
</tr>
</tbody>
</table>

**Half Dozen in a Box**

### Slip Joint Nut Pliers

#### CRUSO
- Nickel plated forged steel, combining gas plier, wire cutter, wrench and screw driver.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>308</th>
<th>310</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length in.</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$7.60</td>
<td>11.40</td>
</tr>
</tbody>
</table>

**One in a Bag**

**V and B**

- Forged tool steel, black finish. Milled jaws with wire cutter, designed especially for use on nuts or bolts; holds nuts 3/8 to 1 in. outside; w/t per doz. 7/4 lbs., $16.00 per dozen.

**Half Dozen in a Box**
**Burner Pliers**

No. 6 OVB—6 in., full polished, drop forged tool steel, tempered in oil, w't per doz. 41 lbs., per dozen .................. $11.50

**Half Dozen In A Box**

No. 06 REWB—6 in., extra quality steel, oil finished, polished jaws, w't per doz. 41 lbs. ... per dozen $10.90

**Half Dozen In A Box**

**Gas Pliers**

OV

Full polished, drop forged tool steel, tempered in oil.

Nos.—OV 80 110

Inches 8 10

W't per doz., lbs. 8 11

Per dozen .................. $13.90 17.20

**Half Dozen In A Box**

**Staple Pullers**

No. 19 OVB—Length 10 in., forged tool steel, polished head, blued handles, combining staple puller, wire cutter, splicer and hammer, w't per doz. 22 lbs., per dozen .................. $30.00

**One In A Box**

No. 29 ESB—Length 10 in., forged steel, blued finish, combining staple puller, wire cutter, splicer and hammer, w't per doz. 22 lbs., per dozen .................. $28.00

**One In A Box**

**Button Pliers And Wire Cutters**

Extra Quality Steel, Full Polished.

A highly finished high grade tool for constant use, the handle is rounded and fits the hand.

NOS. | 474 | 476 | 478 | 478

Inches | 4 | 6 | 8 | 10

Cut wire No. 14 11 8 6

W't, doz., lbs. 21 4 9 11

Per dozen 13.20 15.00 18.00 22.80

**Half Dozen In A Box**

Stop joint, highest grade tool steel, full polished, beveled jaws, knurled handles.

When open, the wire cutters stop opposite each other so that the pliers is always ready to receive the wire. The jaws are beveled to prevent breaking wire in twisting it.

NOS. | 574 | 576 | 578 | 579

Inches | 4 | 6 | 8 | 10

Cut wire No. 14 11 8 6

W't, doz., lbs. 21 4 9 11

Per dozen 12.60 14.30 17.20 21.50

**Half Dozen In A Box**

**Silk Joint Nut Pliers**

REWB

Cast steel, oil finished, polished jaws.

Nos. 8 10

Inches 8 10

W't per doz., lbs. 71 11

Per dozen 13.30 16.40

**Half Dozen In A Box**

**Fencing Pliers**

No. 104—Black Bull, forged steel, polished jaws, blued handles, combining wire cutter, staple puller, splicer and hammer, length 10 in., w't per doz. 24 lbs., per dozen .................. $30.00

**One In A Box**

**Cronk's**, Cast Steel, Bright Jaws.

Nos. 198 200

Length, in. 8 10

W't, doz., lbs. 9 14

Per dozen 27.00 30.00

**Half Dozen In A Box**

**Cruso**

Cast steel, polished jaws, black handles.

A strong, well made plier.

Nos. 506 508 510

Length, in. 6 8 10

W't, doz., lbs. 43 9 13

Per dozen 11.40 13.80 18.20

**Half Dozen In A Box**
## Carpenters' Pincers

<table>
<thead>
<tr>
<th>No.</th>
<th>OVB</th>
<th>108</th>
<th>108</th>
<th>1010</th>
<th>1012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$12.00</td>
<td>15.50</td>
<td>19.30</td>
<td>21.00</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**HARD WIRE, extra quality, black finish, knurled handles, with claw, screwdriver, and wire cutter.**

<table>
<thead>
<tr>
<th>No.</th>
<th>HWGC</th>
<th>166</th>
<th>168</th>
<th>1610</th>
<th>1612</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.20</td>
<td>14.60</td>
<td>18.80</td>
<td>20.60</td>
<td>20.00</td>
</tr>
</tbody>
</table>

**CHURCH, good quality, oil finish with claw and screwdriver.**

<table>
<thead>
<tr>
<th>No.</th>
<th>176</th>
<th>177</th>
<th>178</th>
<th>1710</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
<td>lbs.</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$9.00</td>
<td>10.80</td>
<td>12.50</td>
<td>15.60</td>
</tr>
</tbody>
</table>

**Porter's Bolt Cutters**

- **FORGED TOOL STEEL, adjustable jaws, japanned malleable iron handles, all parts interchangeable, ample adjustment to take up the wear on the cutting edges.**
- The O.K. Cutters are made to meet the demand for a lower priced bolt cutter than the regular New Easy, being a necessity for farm and household.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>10</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length over all, in.</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>Cuts bolts up to, in.</td>
<td>7/8</td>
<td>3/4</td>
</tr>
<tr>
<td>Wt. each, lbs.</td>
<td>13</td>
<td>14</td>
</tr>
</tbody>
</table>

**Twenty-five in a case**

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each</td>
<td>$4.00</td>
</tr>
</tbody>
</table>

## Porter's Bolt Clippers

**PORTER'S "NEW EASY," compound lever action, forged tool steel adjustable jaws, japanned malleable iron handles, rubber buffers, all parts interchangeable.**

**These clippers have an adjustable set screw requiring no special shim or wrench.**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length over all, in.</td>
<td>18</td>
<td>24</td>
</tr>
<tr>
<td>Cuts bolts up to, in.</td>
<td>3/4</td>
<td>9</td>
</tr>
<tr>
<td>Wt. each, lbs.</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Each</td>
<td>$6.00</td>
<td>8.00</td>
</tr>
</tbody>
</table>

**PORTER'S "NEW EASY"—Equalizing device is in the gear teeth between the two jaws. Any degree of adjustment is secured by means of the set screw and eye bolt. Requires only an ordinary monkey wrench for use on all parts.**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length over all, in.</td>
<td>30</td>
<td>36</td>
</tr>
<tr>
<td>Cuts bolts up to, in.</td>
<td>5</td>
<td>9</td>
</tr>
<tr>
<td>Wt. each, lbs.</td>
<td>9</td>
<td>13</td>
</tr>
<tr>
<td>Each</td>
<td>$11.40</td>
<td>14.60</td>
</tr>
</tbody>
</table>

**PORTER'S "EASY"—Equalizing device is in the equalizing gearing. Adjustment is secured by steps by the use of shims. Requires special wrench for use on lock nuts.**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>F11</th>
<th>F11J</th>
</tr>
</thead>
<tbody>
<tr>
<td>For bolts 3/4 in. and smaller, length 24 in., w't 43 lbs.</td>
<td>For bolts 3/4 in. and smaller, length 30 in., w't 73 lbs.</td>
<td></td>
</tr>
<tr>
<td>Each</td>
<td>$8.00</td>
<td>$11.40</td>
</tr>
</tbody>
</table>

## Porter's Tools

**Japanned malleable iron handles, tool steel jaws tempered for cutting bolts, rivets, wire, etc.**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2055</th>
<th>Length overall 12 in., for bolts 7/8 in. and smaller, w't per doz. 18 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loose</td>
<td>each</td>
<td>$2.35</td>
</tr>
</tbody>
</table>

**Items Marked Thus Are Shipped From Factory Only.**
### SHOE PINCERS

**Pexto**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>1810</th>
<th>1812</th>
<th>1814</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>10</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>17</td>
<td>21</td>
<td>24</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$19.70</td>
<td>20.80</td>
<td>23.10</td>
</tr>
</tbody>
</table>

**Blacksmiths' Pincers**

Finest quality solid steel, polished jaws.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>212</th>
<th>214</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>23</td>
<td>25</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$32.40</td>
<td>36.00</td>
</tr>
</tbody>
</table>

**Farriers' Shoeing Pincers**

No. 034—14 in., solid steel, polished jaws, w't per doz. 32½ lbs., per dozen $39.60

**Hibbard**

Drop forged tool steel, polished jaws, the jaws on these nippers are so designed that great leverage is obtained making the work very easy when cutting.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>24</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$17.60</td>
<td>23.80</td>
</tr>
</tbody>
</table>

**Heller's, Cast Steel, Full Polished**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>23</th>
<th>23</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$45.60</td>
<td>54.80</td>
</tr>
</tbody>
</table>

**Larson Pincers**

No. 2014—Heller's, 14 in., cast steel, polished jaws, w't per doz. 33 lbs., per dozen $45.60

No. 1—13 in., hoof-nippers, drop forged tool steel, japanned, polished jaws, w't per doz. 19 lbs., per dozen $22.00

No. 2H—Heavy, 13 in., w't per doz. 20 lbs., per dozen $24.40

---

* Items Marked Thus * Are Shipped From Factory Only.

---

ROSE TOOLS, INC.

---

ROSE TOOLS, INC.
**ROSE TOOLS, INC.**

### KNIFE HANDLE
- Forged steel bar through end of case hardened jaws, two in handle.
- Nos.: 146 148 1410
- Length, in.: 6 8 10
- Opening, in.: 1/4 1/4 1/4
- Wt., oz., lbs.: 9 16 26
- Per dozen: $15.00 18.00 22.00

**COE'S STANDARD**
- Forged steel bar, head and screw, hardwood knife handle.
- Length, in.: 12 15 18
- Opening, in.: 2 2 1/4
- Wt. per dozen, lbs.: 38 55 80
- Per dozen: $28.00 38.00 48.00

**TRIMO MONKEY**
- Advantage increases in proportion to size of nut, as movable jaw moves forward instead of toward nut. Movable with nut-guard which prevents them from adjusting. Threads of both jaw and nut-guard are cut to screw. Indestructible, all steel, drop-forged, hardened; the nut-guard, steel jaws in adjustment.
- Length, in.: 176 178 1710 1712
- Diameter: 1 1/4 1 1/4 1 1/4 1 1/4
- Wt.: 10 18 33 50
- Per dozen: $15.00 18.00 22.00 28.00

### WRENCHES

#### GIRARD AGRICULTURAL
- Wrought steel bar, head and screw, oil finished hardwood handle.
- Nos.: 406 408 410
- Length, in.: 6 8 10
- Opening, in.: 1 1/4 1 1/4
- Wt., oz., lbs.: 8 15 22
- Per dozen: $10.00 12.00 14.00

#### P. S. & CO.'S SOLID HANDLE
- One piece, solid steel forging, case hardened, oil finished hardwood riveted handle, warranted.
- Nos.: 866 868 8610 8612
- Length, in.: 6 8 10 12
- Opening, in.: 1/4 1/4 1/4 1/4
- Doz. in box: 1/4 1/4 1/4 1/4
- Wt., oz., lbs.: 9 16 26 38
- Per dozen: $15.00 18.00 22.00 28.00

### ADJUSTABLE "S"

#### B. & C. WESTCOTT PATTERN
- Malleable frame, japanned, polished jaws and edges, adjustable.
- Nos.: 486 488 4810
- Length, in.: 6 8 10
- Opening, in.: 1 1/4 1 1/4
- Wt., oz., lbs.: 6 12 24
- Per dozen: $8.00 10.00 12.00

#### P. S. & CO.'S ALL STEEL
- Head, bar and handle forged solid from one piece of steel, black.
- Nos.: 876 878 8710 8712
- Length, in.: 6 8 10 12
- Opening, in.: 1/4 1/4 1/4 1/4
- Doz. in box: 1/4 1/4 1/4 1/4
- Wt., oz., lbs.: 10 18 33 50
- Per dozen: $15.00 18.00 22.00 28.00

### ROBINSON
- Drop forged, from high grade steel, natural finish, polished jaws.
- There are two grooves on the moveable jaw where it moves through the frame which adds considerably to the strength and firmness of this wrench. Jaws are also thinner than other wrenches which permits their use in places heretofore inaccessible. The opening in jaws are also wider.
- Nos.: 516 518 520
- Length, in.: 6 8 10
- Opening, in.: 1/4 1/4 1/4
- Wt. doz., lbs.: 7 11 16
- Per dozen: $16.80 21.00 26.00
**DROP FORGED STEEL WRENCHES**

Crescent, single end, forged steel ribbed handle, special steel jaws, hardened, tempered and polished, 22½ degree angle engineer's wrench.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>504</th>
<th>506</th>
<th>508</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size, in.</td>
<td>4</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Opening, in.</td>
<td>1</td>
<td>1½</td>
<td>1</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$12.15</td>
<td>12.15</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**STOCK REPAIRS**

Jaws.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>54</th>
<th>56</th>
<th>58</th>
<th>510</th>
<th>512</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size, in.</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$4.80</td>
<td>4.80</td>
<td>5.76</td>
<td>7.68</td>
<td>11.52</td>
</tr>
<tr>
<td>Thumb Knurls.</td>
<td>Per dozen</td>
<td>$1.90</td>
<td>1.90</td>
<td>2.30</td>
<td>2.90</td>
</tr>
<tr>
<td>Pins.</td>
<td>Per dozen</td>
<td>$0.95</td>
<td>.95</td>
<td>.95</td>
<td>1.90</td>
</tr>
</tbody>
</table>

**CARLL ADJUSTABLE**

Polished jaws, natural finish handles. Drop forged from high grade steel, carefully hardened and tempered, sliding jaws are reversible and can be used for either nut or pipe wrench, also on square or hexagon nuts. Knurl fitted with spiral spring for holding adjustment.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>66</th>
<th>88</th>
<th>610</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size, in.</td>
<td>6</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>Opening, in.</td>
<td>1</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$15.00</td>
<td>18.00</td>
<td>23.50</td>
</tr>
</tbody>
</table>

**GENERAL PURPOSE WRENCHES**

Drop Forged Steel, Semi-Finished, Case Hardened.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>475T</th>
<th>477T</th>
<th>479T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6</td>
<td>7½</td>
<td>8½</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>3</td>
<td>4½</td>
<td>6</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$3.50</td>
<td>4.30</td>
<td>5.50</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>481T</th>
<th>483T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Length, in.</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$7.10</td>
<td></td>
</tr>
</tbody>
</table>

**DROP FORGED STEEL WRENCHES**

Unfinished, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>21</th>
<th>23</th>
<th>25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>5½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$1.60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**UNFINISHED, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts, case hardened.**

**GENERAL PURPOSE SETS IN BUNDLES**

No. 105—One each Nos. 475, 477, 479, 481 and 483, w/t per set 2½ lbs., per set.

**GENERAL PURPOSE SETS**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>475</th>
<th>477</th>
<th>479</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6</td>
<td>7½</td>
<td>8½</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>2</td>
<td>3½</td>
<td>6</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$2.30</td>
<td>3.00</td>
<td>3.75</td>
</tr>
</tbody>
</table>

**GENERAL PURPOSE SETS**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>481</th>
<th>483</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Length, in.</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$4.90</td>
<td></td>
</tr>
</tbody>
</table>

**HALF DOZEN IN A BOX**

**GENERAL PURPOSE SETS**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>475</th>
<th>477</th>
<th>479</th>
<th>481</th>
<th>483</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6</td>
<td>7½</td>
<td>8½</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>3½</td>
<td>4½</td>
<td>6</td>
<td>9½</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$2.32</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SEMIFINISHED, double head, engineers' pattern, 15 degree angle, milled for U. S. standard nuts, case hardened.**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>21T</th>
<th>23T</th>
<th>25T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>5½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$2.15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>27T</th>
<th>29T</th>
<th>31T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>3½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$4.60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>39</th>
<th>41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6½</td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>8½</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$12.95</td>
<td></td>
</tr>
</tbody>
</table>

**ONE IN A BOX**

**LOOSE**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>21T</th>
<th>23T</th>
<th>25T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>5½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$2.15</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>27T</th>
<th>29T</th>
<th>31T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
<td>1</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>3½</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$4.60</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nos.</th>
<th>39</th>
<th>41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size bolts, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Openings, in.</td>
<td>½</td>
<td>¾</td>
</tr>
<tr>
<td>Length, in.</td>
<td>6½</td>
<td></td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>8½</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$12.95</td>
<td></td>
</tr>
</tbody>
</table>
**ROSE TOOLS, INC.**

**CHECK NUT OR THIN WRENCHES**

**WILLIAM'S**

- Semi-finished, drop forged, double head, 15 degree angle, milled for U.S. standard nuts and cap screws.
  - **Nos.** 623 623D 625
  - **Size Bolt, in.** 7/16 7/16 1/2
  - **Cap Screws, in.** 7/16 7/16 1/2
  - **Openings, in.** 7/16 7/16 1/2
  - **Extreme length, in.** 5 5 6
  - **Wt. doz., lbs.** 3 3 3
  - **Per dozen** $4.60 $4.60 $5.75

**CAP SCREW WRENCH**

**WILLIAMS'**

- Semi-finished, drop forged, double head, 15 degree angle, for Hexagon Head Cap Screws.
  - **Nos.** 721 723 723A
  - **Size Screws** 1/4 1/4 1/4
  - **Openings, milled** 1/4 1/4 1/4
  - **Thickness, head** 1/16 1/16 1/16
  - **Extreme length, in.** 3 4 4
  - **Wt. doz., lbs.** 1 1 1
  - **Per dozen** $2.45 $3.00 $3.00

**CAP SCREW WRENCH**

**WILLIAMS'**

- Semi-finished, drop forged, double head, 15 degree angle, for Hexagon Head Cap Screws.
  - **Nos.** 725 725A 725B
  - **Size Screws** 1/8 1/8 1/8
  - **Openings, milled** 1/8 1/8 1/8
  - **Thickness, head** 1/16 1/16 1/16
  - **Extreme length, in.** 4 4 4
  - **Wt. doz., lbs.** 2 2 2
  - **Per dozen** $3.60 $3.60 $3.60

**WRENCH ASSORTMENTS**

All Semi-finished Wrenches. Use our 021T line to fill in for these assortments.

Eighty-four 15 degree angle, double head wrenches in 14 sizes.

**SIX EACH OF THE FOLLOWING NOS.**

**THIN WRENCHES**

- **Opening, in.**
  - No. 623D 1/4 and 1/4
  - No. 626S 1/4 and 1/4
  - No. 627 1/4 and 1/4
  - No. 629E 1/4 and 1/4
  - No. 632 1/4 and 1/4
  - No. 632X 1/4 and 1/4

**ENGINEERS' WRENCHES**

- **Opening, in.**
  - No. 21 3/4 and 3/4
  - No. 23 3/4 and 3/4
  - No. 725 3/4 and 3/4
  - No. 27 3/4 and 3/4
  - No. 727 3/4 and 3/4
  - No. 731A 3/4 and 3/4
  - No. 32 3/4 and 3/4
  - No. 35C 3/4 and 3/4

**One Assortment in a Box**

- **Price** $39.50

**GENUINE CRESCENT**

- **No. E5—Consists of six each 4 and 10 in. and No. 68 twelve each 6 and 8 in., three each 12 in., and No. 80 one each 15 and 18 in., with handsome display board. This 26x25 in. board is made of selected quartered oak, five-ply veneered to prevent warping. It is surrounded by ornamental molding. Upon the board is mounted a decalcomania transfer showing each wrench in its natural color and full size with the lettering in black and gold. The board is then given a high-rubbed finish in natural oak, equal to that of the finest furniture, wt. each 75 lbs.**
  - **Per dozen** $76.90

**CAR WRENCHES**

**UNFINISHED, 221⁄2 degree angle, milled for U.S. standard nuts.**

- **Nos.** 367 373
- **Size bolts, in.** 1/16 1/16
- **Openings, in.** 7/64 11/64
- **Length, in.** 12 20
- **Wt. per doz., lbs.** 18 42
- **Per dozen** $7.60 $14.90

- **Nos.** 376 383
- **Size bolts, in.** 3/32 3/32
- **Openings, in.** 1 1
- **Length, in.** 21 24
- **Wt. per doz., lbs.** 48 77
- **Per dozen** $18.50 $30.80

**PACKED LOOSE**
**ALLIGATOR PATTERN**

Drop forged steel, polished raised jaws, open handle.

**No. 1 OVB**—Case hardened, w't per doz. 33 lbs. ... per dozen $2.50

ONE DOZEN IN A BOX

---

**WRENCHES**

**CVD UNIVERSAL GRIP**

Drop forged, nicely finished, guaranteed first class.

**No. 850 CVD**—$1 in., polished raised surfaces, grips from 1 to 1 in diameter, eases for re-threading 1 and 1 in. bolts, w't per doz., 113 lbs. ... $8.00

HALF DOZEN IN A PACKAGE

**ALWAYS READY**

Drop forged steel, chased body, polished raised jaws.

**Nos.** 101 102
Length, in. 5 7
For nuts, in. 4 to 1 1/16 to 1.1/4
Wt doz., lbs. 64 93
Per dozen $4.00 7.20

NO. 12, ONE DOZEN; NO. 13, HALF DOZEN IN A BOX

---

**TWIN ALLIGATOR PATTERN**

**No. 130 CVD**—10 in., drop forged steel, polished raised jaws, for pipe 1 to 2 in., for round iron 2 to 1 in., w't per doz. 15 lbs.

$12.00

HALF DOZEN IN A BOX

---

**BOLT**

**No. 23 OVB**—6 in., black, solid, cast steel of superior quality, oil tempered, re-threads, bolts 1/16 to 1 in. for round iron 1/2 in., w't per doz. 33 lbs.

$6.00

ONE DOZEN IN A BOX

---

**RONSON**

The upper part of wrench is adjustable and is held open by a spring. It can be closed by the thumb nut until both jaws meet, giving the tool a wide range of work. The extra jaws are very easily adjusted and they renew the wrench indefinitely.

**No. 204**—6 in., drop forged nickel plated, carefully tempered, consists of 4 open end slotted wrenches fastened together with bolt and wing nut. Wrenches fit U.S. Standard nuts on bolts from 1 to 1/2 in. diameter, also has 1/4 in. square opening in head of 1 in. wrench, w't per doz. 6 lbs.

$14.00

ONE IN A BOX; ONE DOZEN IN A CARTON

---

**ORUSO WRENCH SETS**

These are strong serviceable wrenches at a very attractive price.

**No. 125**—Consists of five standard double end white nickel finish wrenches, made from heavy stamped steel case, hardened size, case hardened, sizes range 1/4 to 5/16 and 1/4 to 5/8, 3/8, 7/8, and 1 1/2 in., w't per set 1 lb., per set...

$0.50

ONE SET IN A BOX

---

**BIT BRACE SOCKET WRENCHES**

Made of malleable, hardened steel to give the greatest strength. Nicely finished, japanned body, polished head and shank. Each size is accurately drifted to United States standard nut size. A shoulder prevents the nut working far up into the wrench and the open shank prevents clogging with dirt, also enabling the user to handle dirt, also enabling use of wrench in places where brace would not go.

**No. 235**—6 in., black, solid, cast steel of superior quality, oil tempered, re-threads, bolts 1/16 to 1 in. for round iron 1/2 in., w't per doz. 33 lbs.

$6.00

ONE DOZEN IN A BOX

---

**ELGIN**

Hexagon openings for U.S. standard nuts and cap screws.

**Nos.** 167 168 169
Openings, in. 1/4 1/3 1/2
Bolt size 1/4 1/3 1/2
Cap screw 1/4 1/3 1/2
Set screw 1/4 1/3 1/2
Wt per doz., lbs. 1/4 1/3 1/2
Per dozen...

$6.00

---

**Extra Toothed Jaws**

$6.00

ONE DOZEN IN A BOX

---

ROSE TOOLS, INC.
### Genuine Stillson Pipe Wrenches

Drop forged tool steel, hardened jaw and frame, polished shank and frame. Movable steel pin holds frame in place.

**Double Spring, Hardwood Handle.**

- Nos. 206 208 2010 2014
- Wt., lbs. 6 9 19 38
- Per dozen $24.00 27.00 30.00 42.00

**Double Spring, Solid Steel Handle.**

- Nos. 2018 2024 2036 2048
- Wt., lbs. 9 9 12 24
- Per dozen $28.00 32.00 48.00 96.00

**Extra Parts for Stillson Wrenches.**

- 6 8 10 14
- $9.00 9.60 10.20 13.80

**Vulcan Pipe Wrenches.**

- 6 8 10 14
- $9.00 9.60 10.20 13.80

### Genuine Trimo Pipe Wrenches

- Drop forged bar steel hardened jaws and frame, insert jaw and frame fastened to handle with movable pin, with nut guard to hold in place, japanned handle, polished head and jaws.

**Hardwood Handle.**

- Nos. 226 228 2210 2214
- Inches 6 8 10 14
- For pipe, in. 7/8 7/8 1 1/8
- Wt., lbs. 6 9 19 40
- Per dozen $24.00 27.00 30.00 42.00

**Solid Steel Handle.**

- Nos. 2518 2524 2536 2548
- In. 8 10 12 14
- For pipe, in. 1 1/4 1 3/4 2 1/2 3
- Wt., lbs. 60 96 192 300
- Per dozen $60.00 87.00 162.00 240.00

### Trimo Auto Pipe Wrenches

- Narrow jaw, drop forged bar, steel hardened jaws, and frame. Frame fastened to handle with movable pin and fitted with nut guards to hold jaw in place. japanned handle, polished head and jaws.

**Nos.** 266 268 2610
- Inches 6 8 10
- For pipe, in. 7/8 7/8 1
- Wt., lbs. 5 8 15
- Per dozen $24.00 27.00 30.00

### Combination Wrenches

- Tool steel, hardened jaws, polished hardwood handle. Bright with long nut.

**Nos.** 4510 4512 4515
- Inches 10 12 15
- Opening, in. 1 1/4 2 1/2 3
- Wt., lbs. 29 43 58
- Per dozen $30.00 36.00 48.00

### Extra Parts for Trimo Wrenches

- Inches 6 8 10 14
- Movable Jaw $9.00 9.60 10.20 13.80
- Nuts 1.44 1.80 2.40 3.60
- Insert Jaws 4.20 4.80 6.00 7.20
- Frames 4.56 5.04 6.00 7.20
- Springs 36 36 36 36
- Frame Pins 36 36 48 48
- Jaw Pins 36 36 48 48
- Nut Guards 4.80 6.00 7.20

**Inches** 18 24 36 48
- Mov. Jaw $21.00 27.00 52.20 90.00
- Nuts 4.20 6.60 13.20 18.00
- Insert Jaws 8.40 9.60 13.20 21.00
- Frames 9.00 11.40 20.40 36.40
- Springs 48 48 60 60
- Frame Pins 48 48 60 60
- Jaw Pins 48 48 60 60
- Nut Guards 4.20 5.40 6.60 7.80

### Vulcan Pipe Cutters

- Drop forged, cast steel handle with iron grip, case hardened, rolls on pins, with cutter and two rollers.

**Nos.** 511 512 513
- Sizes 1 2 3
- Length, in. 15 18 19
- For pipe, in. 5/16 7/16 1/2
- Wt., lbs. 66 68 84
- Per dozen $4.00 7.00 12.00

### Extra Cutters $4.80 4.80 6.00

### Barness' Pipe Cutters

- Three wheel, malleable frame, crucible steel cutters and pins.

**Nos.** 1 2 3 4
- Per pipe, in. 7/16 9/16 5/8 3/4
### Pick-Up Tongs

No. 201—22 in., drop forged steel, oil finish, w/t 3¼ lbs. .......... per dozen $19.50

---

### Cold Cutters or Chisels

#### Cold Forged Steel, Oil Finished.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2269</th>
<th>22610</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size square steel, in.</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>18</td>
<td>24</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.40</td>
<td>12.70</td>
</tr>
</tbody>
</table>

Per dozen ............... $16.30 19.30

### Bolt Tongs

Drop Forged Steel, Oil Finished.

For holding bolts and round iron. When ordering, give size of iron instead of length.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2033</th>
<th>2034</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of iron, in.</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Length, in.</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Wt each, lbs.</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$16.60</td>
<td>16.60</td>
</tr>
</tbody>
</table>

### Gad Tongs

Drop Forged Steel, Oil Finished.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2035</th>
<th>2036</th>
<th>2037</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of iron, in.</td>
<td>8</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Length, in.</td>
<td>22</td>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>Wt each, lbs.</td>
<td>34</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$19.00</td>
<td>19.00</td>
<td>20.00</td>
</tr>
</tbody>
</table>

### Straight Lip Tongs

Drop Forged Steel, Oil Finished.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>01</th>
<th>1</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>16</td>
<td>18</td>
<td>20</td>
</tr>
<tr>
<td>Wt each, lbs.</td>
<td>14</td>
<td>2</td>
<td>23</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$12.80</td>
<td>13.20</td>
<td>14.20</td>
</tr>
</tbody>
</table>

### Horseshoers’ Tongs

Drop Forged Steel, Oil Finished.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>0</th>
<th>0</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, in.</td>
<td>12</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Wt doz. lbs.</td>
<td>18</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.20</td>
<td>11.00</td>
<td></td>
</tr>
</tbody>
</table>

---

### Hot Cutters or Chisels

#### Forged Steel, Oil Finished.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2279</th>
<th>22710</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size square steel, in.</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>18</td>
<td>24</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$11.40</td>
<td>12.70</td>
</tr>
</tbody>
</table>

### Flatters

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2292</th>
<th>2292</th>
<th>2293</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size square face, in.</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Wt doz., lbs.</td>
<td>18</td>
<td>45</td>
<td>63</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$19.30</td>
<td>25.40</td>
<td>32.60</td>
</tr>
</tbody>
</table>

### Hardies

<table>
<thead>
<tr>
<th>Nos.</th>
<th>2254</th>
<th>2255</th>
<th>2256</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of shank, in.</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Cutting edge, in.</td>
<td>11</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Wt, doz., lbs.</td>
<td>6</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$8.00</td>
<td>8.60</td>
<td>9.66</td>
</tr>
</tbody>
</table>

### Hot

<table>
<thead>
<tr>
<th>Nos.</th>
<th>22711</th>
<th>22712</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size square steel, in.</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Wt per doz., lbs.</td>
<td>30</td>
<td>36</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$16.30</td>
<td>19.30</td>
</tr>
</tbody>
</table>
**RALLIS**

- 1½ in. jaws, steel screw with wrought iron head, w't per dozen $12.00
  - Loose

---

**VISES**

**ALL CLAMP BOTTOM, PLAIN IRON JAWS**

- Nos. 741 742 743
- Width, jaw, in. 11 12 13 2
- W't, doz., lbs. 36 39 42
- Per dozen $27.40 32.40 38.00

**ALL CLAMP BOTTOM, STEEL FACED JAWS**

- Nos. 761 762 763
- Width, jaw, in. 11 12 13 2
- W't, doz., lbs. 36 39 42
- Per dozen $34.80 39.80 46.80

**CHAMPION**

**IMPROVED COMBINATION BLACKSMITH OUTFITS**

Outfit, equipped with Forged, Vise, Anvil, Pipe Vise, Drill Press and Emery Grinder, strictly a high grade combination tool built for service.

Gears are all cut. Forge pan 12x14 inches, large enough to take a plow share. Pan cutaway so that a plow share can be put into it. The Blowhead attached is a real cut-off, high speed outfit that runs silent, is speeded high enough to produce a white pressure heat so that welding can be done on any work.

Emery wheel is screwed on stud between vise jaws attached to high speed gear on this gear box, two substantial bearings—one on each side of vise jaws—support this wheel, making it a rigid, practical, durable grinder.

Screw accurately cut and two heavy shafts support vise so that jaws meet perfectly without lost motion.

Pipe vise operates without any change whatever. No parts are removed or lost and this machine takes pipe up to two inches.

Legs are angle steel, well riveted to top plate and tool tray, two steel rods support forge pan.

Height over all ....... 40 in.
Height to top of Forge Hearth .... 26 in.
Width of Vise Jaws .... 4 in.
Extreme opening of Vise Jaws .... 4½ in.
Capacity of Pipe Vise .... 2 in.
Capacity of Drill Press .... 1 in.
Greatest distance from Spindle to Table .... 11 in.
Spindle head to take .... 3½ in.
Face of Anvil .... 3½ in.
Size of Hardie .... 1½ in.
Size of Forge Hearth .... 12x14 in.
Depth of Forge Hearth .... 2½ in.
Speeds obtained by gearing .... 1 to 1, 1 to 4 and 1 to 14
Size of Emery Wheel .... 6½ in.
Floor Space .... 19x38 in.
Weight Crated .... 185 lbs.

No. W19—Each ...... $40.00
# Vises

## Revonoc Machinist

The swiveling device is patented and is operative at all points, a **Revonoc** feature. It can be converted to the use of a left hand workman. These vises are exceptionally first-class in every respect.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>A172½</th>
<th>A173</th>
<th>A173½</th>
<th>A174</th>
<th>A174½</th>
<th>A175</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jaws, in.</td>
<td>2½</td>
<td>3</td>
<td>3½</td>
<td>4</td>
<td>4½</td>
<td>5</td>
</tr>
<tr>
<td>Opens, in.</td>
<td>3½</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>6½</td>
<td>7½</td>
</tr>
<tr>
<td>Wt, lbs.</td>
<td>15</td>
<td>27</td>
<td>42</td>
<td>68</td>
<td>76</td>
<td>104</td>
</tr>
<tr>
<td>Each</td>
<td>$16.00</td>
<td>17.30</td>
<td>20.00</td>
<td>22.60</td>
<td>26.60</td>
<td>40.00</td>
</tr>
</tbody>
</table>

**Packed Loose**

## Oval Slide

**Empire**, solid cast steel, hardened jaws nicely finished.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>A025</th>
<th>A030</th>
<th>A035</th>
<th>A040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jaws, in.</td>
<td>2½</td>
<td>3</td>
<td>3½</td>
<td>4</td>
</tr>
<tr>
<td>Opens, in.</td>
<td>4</td>
<td>4½</td>
<td>4½</td>
<td>5</td>
</tr>
<tr>
<td>Wt, lbs.</td>
<td>8</td>
<td>10</td>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>Each</td>
<td>$7.50</td>
<td>9.00</td>
<td>12.00</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**Packed Loose**

## Yankee

All parts are accurately machined.

For use on Bench Drills or attached separately to bench.

| No. 990—Main body and sliding jaw cast iron, size 6x2½x2 in. high, jaws open 3 in., removable jaw hardened swivel jaw, w’t per doz. 49 lbs. | Each $4.48 | ONE IN A BOX |

## Yankee Swivel

Vise is especially adapted for use in garage and home and for tool makers and machinists. While used on the bench the Vise proper can be quickly detached from base and without removing work from Vise, can be used on Bench Drill, etc., and returned to base again.

| No. A1993—7½ in. long, 5½ in. high, 2½ in. wide, 1¼ in. deep, opens 3¼ in., steel face jaws and screw, main body machined finish, japanned base, steel block with V shaped grooves for holding round or irregular work, main body can be removed for use on drill press, swivel base is operated by small lever, size boxed 9½x3½x6 in., w’t each 15 lbs. | $12.50 | ONE IN A BOX |

## Garage Vises

Stationary Base with central Bolt, Nut and Washer for fastening to bench, also provided with bolt holes for permanently securing to bench. 3 in. steel jaws, opens 3½ in. Can be used as either Stationary or Swivel Bottom Vise.

<table>
<thead>
<tr>
<th>Nos. A230</th>
<th>A231</th>
<th>A232</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jaws, in.</td>
<td>2½</td>
<td>3</td>
</tr>
<tr>
<td>Opens, in.</td>
<td>3½</td>
<td>4</td>
</tr>
<tr>
<td>Wt, lbs.</td>
<td>8</td>
<td>14</td>
</tr>
<tr>
<td>Each</td>
<td>$4.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>
VISES

Swivel base, self-adjusting back jaw, polished steel faces, milled and fitted.

A270 A271 A272 A273 A275
33 33 43 5 61
3½ 5 6 7 92
28 51 60 80 176
$23.30 26.60 37.30 46.60 80.00
LOOSE

PARKER'S COMBINATION

Bi-metal base, steel jaws, toothed, hinged frame with hook lock, for pipe 4 to 2 in., w't 6 lbs. each $4.90

A87 A88
38 48
2 3
41 61
48 71
$24.00 30.00
PACKED LOOSE

COMBINATION

Stewart Handy Worker, consists of a combination small, vise, pipe vise, emery wheel and drill, 4 in. pipe vise takes pipe up to 1/4 in., drill may be operated at two speeds, 5 in. carborundum may be operated at three speeds, main body made of steel casting, entire tool and attachments are first quality material finished in green enamel, w't each... each $40.50

ONE SET IN A BOX

PIPE

Malleable iron frame, polished solid tool steel milled jaws, oil hardened, self-locking, all parts interchangeable.

Nos. A211 A212
For pipe, in. 4to2 4to3½
W't each, lbs. 8 14
Each...

$6.30 10.30
LOOSE

ELGIN PIPE VISE JAWS

No. 15—Two pieces of toothed steel 1½ x 1½ in., riveted together with a steel spring, for use with any vise, w't per doz. 18 lbs. per dozen $5.00

PACKED ONE DOZEN IN A BOX
ROSE TOOLS, INC.

**Reynoc Anvil and Vise**

No. A24 REYNOC—4 in. steel faced milled jaws, opens 12 in., back jaw adjustable to any desired position, securely held in position by corrugations on either side, pipe holding device holds from 1 to 2 in. pipe, 1 in. solid steel screw, face of anvil chilled and polished, size not including horn 8½ in., painted green, w't each 51 lbs., each $8.00

ONE IN A BOX

**Reynoc Drill Attachments**

No. A124 REYNOC—For use with No. A24 REYNOC Anvil and Vise, w't 15 lbs., each $4.80

ONE IN A CARTON

**Woodworkers’ Vises**

SHELDON'S rapid acting, rigid jaws, forged steel rack, accurately milled, ¼ to ⅜ in. thrust.

No. A224—3x7 in. jaws, opens 9 in., w't 24 lbs., each $12.80

No. A123—3x7 in. jaws, opens 8½ in., with steel dog for holding wide material, w't 27 lbs., each $15.00

PACKED LOOSE

**Cabinet Makers’ Vises**

No. A46B—Parker’s ¼ in. jaws, opens 9½ in., ½ in. screw, w't 57 lbs., each $23.30

PACKED LOOSE

**Solid Box Vises**

**Extra Quality.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Extra Finish</th>
<th>Each Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A35</td>
<td>3½ in.</td>
<td></td>
<td>$8.80</td>
</tr>
<tr>
<td>A40</td>
<td>4 in.</td>
<td></td>
<td>$9.30</td>
</tr>
<tr>
<td>A45</td>
<td>4½ in.</td>
<td></td>
<td>$9.70</td>
</tr>
<tr>
<td>A50</td>
<td>5 in.</td>
<td></td>
<td>$10.00</td>
</tr>
<tr>
<td>A55</td>
<td>5½ in.</td>
<td></td>
<td>$10.60</td>
</tr>
<tr>
<td>A60</td>
<td>6 in.</td>
<td></td>
<td>$11.40</td>
</tr>
<tr>
<td>A70</td>
<td>7 in.</td>
<td></td>
<td>$13.20</td>
</tr>
<tr>
<td>A80</td>
<td>8 in.</td>
<td></td>
<td>$15.00</td>
</tr>
<tr>
<td>A90</td>
<td>9 in.</td>
<td></td>
<td>$17.60</td>
</tr>
<tr>
<td>A100</td>
<td>10 in.</td>
<td></td>
<td>$19.40</td>
</tr>
</tbody>
</table>

**Extra Finish.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Size</th>
<th>Extra Finish</th>
<th>Each Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A35</td>
<td>3½ in.</td>
<td></td>
<td>$8.80</td>
</tr>
<tr>
<td>A40</td>
<td>4 in.</td>
<td></td>
<td>$9.30</td>
</tr>
<tr>
<td>A45</td>
<td>4½ in.</td>
<td></td>
<td>$9.70</td>
</tr>
<tr>
<td>A50</td>
<td>5 in.</td>
<td></td>
<td>$10.00</td>
</tr>
<tr>
<td>A55</td>
<td>5½ in.</td>
<td></td>
<td>$10.60</td>
</tr>
<tr>
<td>A60</td>
<td>6 in.</td>
<td></td>
<td>$11.40</td>
</tr>
<tr>
<td>A70</td>
<td>7 in.</td>
<td></td>
<td>$13.20</td>
</tr>
<tr>
<td>A80</td>
<td>8 in.</td>
<td></td>
<td>$15.00</td>
</tr>
<tr>
<td>A90</td>
<td>9 in.</td>
<td></td>
<td>$17.60</td>
</tr>
<tr>
<td>A100</td>
<td>10 in.</td>
<td></td>
<td>$19.40</td>
</tr>
</tbody>
</table>

**Anvils and Vises**

AUSTIN’S hardened face and jaws.

No. A13—3 in. jaws, 4 in. opening, pipe’s jaws, 7½x3 in., anvil face, w’t 22 lbs., each $3.60

PACKED LOOSE

CHENEY’S, self-adjusting back jaw, tempered steel face, chilled steel anvil, smooth face, solid steel hardy or cutting-off tool.

The back jaw of the vise is self-adjusting and in use conforms by automatic action to any angle and makes firm any objects held, whether it be straight, beveled or wedge shape.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>A120</th>
<th>A130</th>
<th>A140</th>
</tr>
</thead>
<tbody>
<tr>
<td>Face, in.</td>
<td>6½x3</td>
<td>8x3½</td>
<td>8½x3</td>
</tr>
<tr>
<td>Jaws, in.</td>
<td>3½</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>Opens, in.</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>W’t lbs.—less crate</td>
<td>26</td>
<td>35</td>
<td>51</td>
</tr>
<tr>
<td>Each</td>
<td>$16.40</td>
<td>18.70</td>
<td>23.50</td>
</tr>
</tbody>
</table>

ONE IN A CRATE

ROSE TOOLS, INC.
**REVOCAN ANVILS**

Made from American ingot or wrought iron, welded at the waist, thus making a solid forging to which is welded a high grade crucible cast steel face—the best obtainable—each in turn being ground, tempered, and polished, forming a perfect working surface, body coated with pure asphaltum paint. The wrought iron being fibrous is very tough, and will withstand more hard usage than any other metal used in the manufacture of anvils, while nothing but the very best grade of tool steel will form a working surface that is a manufacturer to the smith desiring a high grade article.

Fully Warranted.

**VULCAN ANVILS**

Cast Iron Body with Welded Steel Face.

The face is welded to the body by a patent process, then accurately ground and tempered. The horn is covered with and at its extremity is made entirely of steel. The face and horn are warranted to be thoroughly welded to the body and not to separate.

<table>
<thead>
<tr>
<th>No.</th>
<th>F00</th>
<th>F0</th>
<th>F1</th>
<th>F2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimen. of face, in.</td>
<td>11x13</td>
<td>2x12</td>
<td>2x12</td>
<td>2x12</td>
</tr>
<tr>
<td>Size of hardie hole, in.</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Size of pritchel hole, in.</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>W't about, lbs.</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Per pound</td>
<td>$0.30</td>
<td>$0.45</td>
<td>$0.55</td>
<td>$0.80</td>
</tr>
</tbody>
</table>

**HAND OR MOULDERS' BELLOWS**

Fancy grained wood boards, galvanized sheet steel funnel, select tan leather, with studded black reinforcing border.

<table>
<thead>
<tr>
<th>Lumps</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter, in.</td>
<td>14</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Depth, lbs.</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>Per dozen</td>
<td>$22.00</td>
<td>25.00</td>
<td>28.20</td>
</tr>
<tr>
<td>Diameter, in.</td>
<td>10</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Diameter, lbs.</td>
<td>12</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Weight, lbs.</td>
<td>15</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

**LUMP BORAX**

<table>
<thead>
<tr>
<th>No.</th>
<th>17</th>
<th>100 lb. bags or less</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$0.25</td>
<td></td>
</tr>
</tbody>
</table>

**WELDING COMPOUND**

Cherry heat welding compound, welds iron to iron, steel to steel, and malleable iron to steel and is the highest grade of welding flux.

<table>
<thead>
<tr>
<th>No.</th>
<th>W00</th>
<th>100 lb. boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$21.50</td>
<td></td>
</tr>
</tbody>
</table>

**E-Z**

We guarantee "E-Z" Welding Compound to make stronger and smoother welds on any grade of steel or iron than any other. It does not boil up and waste like other compounds do. It welds at a lower heat, prevents slipping of parts and leaves no scale.

<table>
<thead>
<tr>
<th>No.</th>
<th>W100</th>
<th>100 lb. boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$19.50</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>W5</th>
<th>5 lb. boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price</td>
<td>$1.10</td>
<td></td>
</tr>
</tbody>
</table>
CHAMPION BLACKSMITH'S GOODS

HAND BLOWERS
Meet the demand for strong, dependable direct driven blower no so expensive as the No. 400 or "Midway."
No. W40L — Champion Lancaster, cut geared blacksmith's, adjustable nozzle, tuyere iron and piping complete, smooth running, crank turns either way to make blast, 12 in. fan, w't 110 lbs., each $38.00

CHAMPION WHIRLWIND TUYERE IRONS
No. W40—Best tool steel and phosphor bronze working parts, highest grade tool steel adjustable ball bearings throughout, lathe turned cups and cones hardened and ground to highest possible finish, 12 in. fan, full width fan wing insuring large volume of air and high pressure with easy turning. Each revolution of crank produces 46 full revolutions of fan wing with "whirlwind" blast anti-clinker heavy nest tuyere iron and piping, w't 160 lbs., each $61.40

NEW CHAMPION DISC WHEEL
Strictly first class in all parts. Blades are made of special rolled steel and mechanically fit into a grooved hub where they are securely fastened.

ROSE TOOLS, INC.
Champion, steel horseshoeers', with half hood, heavy structural steel, working parts of highest grade tool steel, 12 in fan, adjustable ball bearing, with "Whirlwind" blast anti-cinder heavy nest tuyere iron.

No. 4084
This is virtually the No. 400 Blower converted into a forge. It will make a white heat blast equal to the best power blast. Crank turns in either direction, it runs noiseless, smooth, easy and pleasant to the hand. It is adapted for carriage and heavy engine work, railroad shops as well as general blacksmithing.

Without Water Tank
No. F408 - Size of hearth 30 x 36 x 6 in., wt each 265 lbs.* ....... each $95.40

With Water Tank
No. F408 - Size of hearth 30 x 36 x 6 in., wt each 325 lbs.* ....... each $103.40

One in a Crate

Agricultural
No. 145
These improved Agricultural Forges are equipped with a cut-gearied crank-driven blower, helical gearing being used to give smooth running and noiseless operation. The gear ratio gives 48 revolutions of the blast wheel to one turn of the crank, making a strong, steady, high pressure blast with smooth easy turning - crank turning either direction. The gear case is oil-tight and dust-proof.

With Shield
Nos. ............ F145 F147 F142
Hearth, in. ........ 18 22 23 x 30
Height, in. ........ 30 30 30
Diam. of fan, in. .... 8 8 10
Wt, lbs. ........... 85 106 115
Each ........... $ 145 180 195

With Half Hood
Nos. ............ F146 F148 F143
Hearth, in. ........ 18 22 23 x 30
Height, in. ........ 30 30 30
Diam. of fan, in. .... 8 8 10
Wt, lbs. ........... 90 110 120
Each ........... $ 150 180 195

Champion, structural steel, rivet, adjustable ball bearings throughout. Patented high speed spiral cut bronze and steel gearing, 18 in. hearth, height 30 in., 9 in. fans.

Used by railroads, bridge builders, boiler and structural iron workers.

Will produce blast to weld 3/4 to 4 in. iron in 10 minutes. The crank turns either way to produce blast.

Can be taken apart for transportation and set up in a few minutes.

No. W401 - With Shield, w/t 115 lbs., each ............ $ .51. 40

Champion Lancaster Cut, geared direct drive, agricultural forge, 23 x 35 in., cast iron hearth, height 30 in., 12 in. fan.

A well built, low priced, direct drive forge, a good blast producer and recommended for farmers' use. It is well finished in every respect, with a large size hearth and fan.

No. W43 - With half hood, w/t each 170 lbs. ........... each $48.00

No. W42 - With shield, w/t each 165 lbs. ........... each $45.60

Champion Geared Rivet Forge

For farmers use. All gears are supplied with bushed journal bearings and run in dust-proof cases. Crank turns in either direction.

No. F48 - Size of hearth 18 in., height 30 in., diam. of fan 10 in., w/t 125 lbs.* ....... each $
PORTABLE FORGES

These forges are built strong and powerful. All gears are substantially supplied with bushed journal bearings on both sides of the gears. All gears in the Midway cross spiral gearing are made from guaranteed durable metals, machined and constructed so perfectly that the Midway Forges are sold guaranteed to run smooth and noiseless. This line will give satisfaction to those who are not looking for that high class machinery which can only be furnished by the famous 400 Blower. The Midway has no small gears or pinions. Gears run in a dustproof casing. Crank turns in either direction.

WITHOUT WATER TANK

<table>
<thead>
<tr>
<th>Nos.</th>
<th>F073</th>
<th>F072</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of hearth, in.</td>
<td>22 x 35</td>
<td>23 x 35</td>
</tr>
<tr>
<td>Height, in.</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Diameter of fan, in.</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Wt., lbs.</td>
<td>185</td>
<td>190</td>
</tr>
<tr>
<td>Each</td>
<td>$58.70</td>
<td>52.80</td>
</tr>
</tbody>
</table>

WITH WATER TANK

<table>
<thead>
<tr>
<th>Nos.</th>
<th>F72</th>
<th>F73</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of hearth, in.</td>
<td>23 x 35</td>
<td>23 x 35</td>
</tr>
<tr>
<td>Height, in.</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Diameter of fan, in.</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Wt., lbs.</td>
<td>195</td>
<td>200</td>
</tr>
<tr>
<td>Each</td>
<td>$8.00</td>
<td>8.00</td>
</tr>
</tbody>
</table>

CHAMPION, agricultural, lever forge, height 30 in., hearth 18 in., fan 8 in.

No. W150—With shield, w’t each 75 lbs. .................. each $16.90

The Imperial Lever Motion is a very simple device. Will stand years of hard work.

For machinists, plumbers, millers, locksmiths, planters, and in railroad repair shops.

No. W83—with half hood, w’t each 170 lbs. .................. each $53.40

CHAMPION, agricultural crank forge, height 30 in., depth 4 in., hearth 18 in., fan 8 in.

Especially adapted for farmers or where light jobs are to be done.

No. W152—With shield, w’t each 70 lbs. .................. each $16.90

CHAMPION IMPERIAL, self-acting ratchet levers, hardened tool steel ratchet dogs, height 30 in., hearth 23 x 35 in., fan 12 1/2 in.

No. W100—With shield, w’t each 90 lbs. .................. each $19.20

* Items Marked Thus * Are Shipped From Factory Only.
**Upright Drills**

**No. F397**—Champion, self-feed and propeller hand-feed upright drill, with cone pulley and counter shaft, complete for hand and power combination, w't 625 lbs. each $____.

**No. F285**—Champion, self-feed and propeller hand-feed upright drill, as above described, for hand power using, w't 500 lbs. each $____.

**No. F201**—Champion, upright combination automatic self-feed and compound lever-feed, with cut gears and ball bearings, table is raised and lowered by a rack and can be turned back out of the way, drills to center of 21 in. circle, up-and-down run of spindle 5½ in., spindle 1¼ in. in diameter, bored like “Never-Slip” chuck, to take ¾ in. straight shank drill bits, drills from 0 to ¾ in., with wheel hanger for drilling tires, w't 415 lbs. each $108.70.

**No. F1201**—Tight and loose pulleys for power for No. F201 Champion, extra $____.

Drill Bits not included with Drills.

**Ball Bearing.**

**No. W95**—New Champion, ball bearing self-feed blacksmith's, made of best material, bearings ground out of solid metal, tempered die steel cup and cone ball bearing to take end thrust, 11 in. steel spindle bored like “Never-Slip” chuck, for ¾ in. straight shank drills, 83 in. up-and-down run, drills to center of 18 in. circle, holes from ¾ in. to ¼ in., back geared, greatest distance from table to spindle 9¼ in., w't 130 lbs., each $32.00.

**Champion** Post Drill is built to furnish a self-feed drill at the lowest price possible. Has back gears and slotted lathe-turned table. Will drill to center of a 12-inch circle. Has one speed for the crank. The spindle is 3 inch in diameter. It drills holes up to ¾ inch and has an up-and-down run of 3 inches. The spindle is bored like never slip chuck for ¾ inch straight shank drills; when specially ordered ¾ inch, Greatest distance from table to spindle 8¾ inches.

**No. F103—Ball Bearing**, w't each 75 lbs. each $____.

* Items Marked Thus Are Shipped From Factory Only.
POST DRILLS

This drill has points of simplicity never found on a drill before at this price.

No. W97—Champion automatic self-feed and propeller wheel hand feed and quick return, two speeds, quick acting, end thrust ball bearings ground from solid metal, drills to center of 16 in. circle and holes from 0 to 14 in., lathe turned slotted table, 3 in. spindle, 5 in. up-and-down run, spindle takes 3 in. straight shank bits, w/t 175 lbs., each $45.40

No. W97A—With tight and loose pulleys, 6 in. diam., 2 in. face for power, speed 250 R.P.M., w/t each 175 lbs., each $8...

No. W91—Champion, two speed ball bearing, full automatic self-feed, blacksmith’s, with end thrust ball bearing cups and cones of tool steel, drills to center of a 14 in. circle, bores holes up to 1 in., 14 in. spindle up-and-down run of 8 in., spindle bored like “Never-Slip” chuck to take in 14 in. straight shank drill bits, slotted lathe turned table, w/t 110 lbs., each $22.70

CHAMPION, ball bearing, self-feed blacksmith’s, made of best material bearings ground from solid metal, steel spindle bored like “Never-Slip” chuck, 3 in. up-and-down run, single speed, with back gear slotted lathe turned table.

No. W101—3 in. spindle drills to center of 12 in. circle, holes from 3/4 to 3 in., for 1 in. straight shank drills, greatest distance from table to spindle 10 in., w/t each 80 lbs., each $18.00

No. W98—1 in. spindle drills, to center of 14 in. circle, holes from 1/4 to 1 in., for 3/4 in. straight shank drills, greatest distance from table to spindle 10 in., w/t each 100 lbs., each $21.40

This drill has a third gear to give the second speed the same turning direction of the crank as the first speed, and full back gears with two speeds to the crank.

No. W195—Champion, ball-bearing full automatic self-feed, blacksmith’s, with cups and cones of tool steel, drills to center of a 15 in. circle, drills holes up to 13 in., 14 in. spindle, up-and-down run of 3 1/2 in., spindle bored like “Never-Slip” chuck to take in 1 1/8 in. straight shank drill bits, slotted lathe turned table, greatest distance from table to spindle 10 in., w/t 115 lbs., each $29.40

Drill Bits Not Included With Drills.

No. W93A—Champion, self feed, blacksmith’s, made of best material, bearings ground out of solid metal, 1 1/4 in. steel spindle bored like “Never-Slip” chuck, for 3 in. straight shank drills, 3 in. up-and-down run, drills to center of 15 in. circle, holes from 1/4 to 1 1/4 in., 2 speeds, full back gear, w/t 115 lbs., each $28.00

No. W94—With tight and loose pulleys, 6 in. diam., 2 in. face for power, speed 250 R.P.M., w/t 115 lbs., each $...

This tool is designed for light and quick work, where tire drilling and counter-sinking is an object. Our stock on above drills have spindles bored to take 1 in. straight shank drill bits. If specially ordered from factory, will be bored to take 45/64 in.

No. W100—Champion, lever feed blacksmith’s, made of best material, bearings ground out of solid metal, steel spindle bored like “Never-Slip” chuck for 1 1/4 in. straight shank drills, 4 1/2 in. up-and-down run, drills to center of 14 in. circle, holes up to 1 1/2 in., with back gear, slotted lathe turned table, w/t 110 lbs., each $24.00
BALL-BEARING POST DRILL

CHAMPION, ball bearing, hand feed, made of best material, bearings ground out of solid metal, 8 in. steel spindle bored like "Never-slip" chuck, 3 in. upper-and-cone run, drills to center of 12 in. circle, holes from 1/8 to 3/4 in., slotted lathe turned table, greatest distance from table to w't 60 lbs.

For 1 in. straight shank drills each $15.60

ONE IN A CRATE

CHAMPION POWER BENCH DRILL

The Champion No. 0 Power Bench Drill represents a powerful and well-made Power Bench Drill with every detail complete for completeness in design and workmanship taken into consideration.

The top of the drill base is planed off as a table when the regular drill table is turned to one side, thus giving a space of 16 in. between the chuck and base table. The upper-and-down run is between two bearings, thus distributing the strain. Countershaft is supplied with belt shift on upper-and-down run, pulleys and feed lever is equipped with spring arrangement and all times automatically keep belt up and out of work.

New holes up to 1/4 in. in diameter. Upper-and-down run of spindle 10 in. greatest distance from table 16 in., greatest distance from center to 10 in., upper-and-down run of table 3 in., center run of small cone pulley 4 in., center run of large cone pulley 10 in.,

ONE IN A CRATE

NEW PATENT TIRE BENDER

Its adjusting roll has an adjusting screw at each end, with a graduated indicator and double back gear, and worked with two cranks and two speeds, one for light and fast work and the second for heavy work. The center roll pulls out to take the tire out.

No. 2—Champion, will bend any tire up to 3/4 in., w't 120 lbs., each $50.00

ONE IN A CRATE

NEW PATENT TIRE BENDER

Champion Improved 3-Jaw Adjustable

Ball-bearing, hand adjustable. Accurate, self-centering, simple and positive in operation.

No. 0 — 1 in. adjustable each $5.00
No. 00 — 1 in. adjustable each $5.00
No. 000 — 3/4 in. adjustable each $5.00
No. 1 — Morse taper each 1.25
No. 2 — Morse taper each 1.25
No. 3 — Morse taper each 1.25
No. 4 — Morse taper each 1.25

ONE IN A CRATE

Champion Mole Tire Shrinker

Guaranteed to work correctly and is recommended only where lowest priced shrinker is desired. Built of first-class material and workmanship throughout and furnished with and without Anti-Kinking attachment.

No. 1—Will shrink tires, 24 x 3 in., w't 125 lbs. each $125.00
No. 2—Will shrink tires, 3 x 4 in., w't 225 lbs. each $225.00
No. 3—Will shrink tires 4 x 4 in., w't 250 lbs. each $250.00
No. 4—With Anti-Kinking device, will shrink tires 3 x 4 in., w't 240 lbs. each $240.00
No. 5—With Anti-Kinking device, will shrink tires, 4 x 3 in., w't 275 lbs. each $275.00

ONE IN A CRATE
Bench Drills

The feature of these drills are their strength, convenience and rapidity of operation, by means of automatic and friction feeds the operator has the free use of one hand to hold work. The columns are cylindrical, giving strength and rigidity as well as being graceful in appearance. The bracket and table are removable for any high work that can be supported on floor or other wise.

Yankee

One Speed.

One turn of the crank gives 3½ revolutions to spindle. The spindle is ¾ in. in diameter. The chuck is made of steel, polished and nickel plated and is 1 ¾ ins. long and 1 in. in diameter. The jaws are of tool steel and take round shank drills up to ¾ in. diameter inclusive. The feed is of steel, has V tread and fitted with ball bearing at lower end. All steel parts subject to wear are hardened. The table is 4½ ins. in diameter, its center 2½ ins. from face of slide. This drill has an extra large capacity the distance from the table to the chuck being 5 ins. The frame is finished in dead black. Height of drill overall 18½ ins.

No. W1003—Wt. each 20 lbs. $20.70

Yankee

Two Speed.

The speeds can be changed quickly. Fast speed gives 3½ revolutions of the spindle to one of the crank and slow speed gives one revolution of the spindle to one of the crank. The spindle is ¾ in. in diameter. The chuck is of steel, polished and nickel plated and is 2½ ins. long and 1¾ ins. in diameter. The jaws are of tool steel and take round shank drills up to ¾ in. inclusive. The feed screw is of steel, has square thread to insure durability, and fitted with ball bearing at lower end. All steel parts subject to wear are hardened. The table is 6½ ins. in diameter, its center is 3½ ins. from fall of slide. This drill has an extra large capacity the distance from the table to the chuck being 7½ ins. The frame is finished in dead black. Height of drill overall 28½ ins.

No. W1005—Wt. each 57 lbs. $34.50

Our reputation founded on over sixty-seven years’ business stands back of the OYB brand.

All goods branded OYB are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling OYB articles there is a profit for you and satisfaction to your customers.
CARPENTERS' SHOULDER TOOL CHESTS

Nicely finished, with iron handle, fitted with iron lock and key.

No. 10—Size 28 x 8 x 8 in. inside measurement, will take 38 in. panel saw, w't each 11 lbs. .......... each $6.80
No. 43—Size 32 x 8 x 8 in. inside measurement, will take 38 in. saw, w't each 14 lbs. .......... each $7.80

PACKED LOOSE

REYONOC

Hardwood, nicely finished and stained. Opens on side, furnished with lifting handle, brass suit case lock, clasps, knees and corners. Has saw rack and tray.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>112</td>
<td>32 x 7 x 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 x 7 x 17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$9.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12.00</td>
</tr>
</tbody>
</table>

PACKED LOOSE

REYONOC CABINET MAKERS' BENCHES

Hard maple, thoroughly seasoned and kiln-dried, glued oak maple top, 24 in. thick, 10 in. recess for tools at back, wooden legs 18 x 3 in., furnished with front and tail vises. Made of 3/ in. wood bench screws, under side of front piece of top and upper edge of front gir is grooved to receive vises when wanted.

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>W2</td>
<td>W3</td>
</tr>
<tr>
<td>63</td>
<td>7</td>
<td>54</td>
</tr>
<tr>
<td>24</td>
<td>24</td>
<td>24</td>
</tr>
<tr>
<td>34</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

TOTAL $57.60 68.40 64.00

ONE IN A CRATE

REYONOC MANUAL TRAINING BENCHES

No. W16—Hard maple, thoroughly seasoned and kiln-dried. Height 32 in., length 52 in., width 22 in., including tool recess 71 in. wide. Top 24 in. thick, drawer 30 x 19 x 6 in., fitted with bronzed pulls, w't each 150 lbs., each $36.00

No. W4—Hard maple, thoroughly seasoned and kiln-dried. Length 4 feet exclusive of vises, width 22 in., height 32 in., glued-up maple top 13 in. wide and 11 in. thick, 8 in. recess for tools at back; back board for holding tools, size of legs 11 x 3 in. Furnished with front and tail vises, both fitted with 1½ in. wood bench screws. W't each 120 lbs. .......... each $22.80

Hard maple, thoroughly seasoned and kiln-dried, with cabinet, length 4 feet exclusive of vises, width 22 in., height 32 in., glued-up maple top 13 in. wide and 11 in. thick, 8 in. recess for tools at back, backboard for holding tools, cabinet contains three drawers and cupboard all fitted with locks and keys. Drawers are 19 x 16 x 8 in., cupboard is 18 x 18 x 10 in., legs 13 x 3 in., furnished with front and tail vises, both fitted with 1 in. wood bench screws; also furnished with three spring wood stops.

No. W14—With Rapid-Acting Vise on side, w't each 190 lbs. .......... each $47.50
No. W13—Without Rapid-Acting Vise on side, w't each 175 lbs. .......... each $38.00

ALL ABOVE ONE IN A CRATE
TOOL CHESTS

Chestnut Box, Heavy Brown Moulding.

No. 245—Size 9½x4½x2³/₄ in., hinged cover, locked corners, well finished, containing about 8 tools, w't per doz. $10.80.

No. 260—Size 11x6x3 in., with till, hinged cover, containing 11 tools, w't per doz. 40 lbs. per dozen $19.80.

No. 290—Size 12½x6x1 in., with tray, locked corners, containing about 13 tools, w't per doz. 62½ lbs., per dozen $28.80.

No. 2600—Size 14x6½x4 in., with tray, containing about 16 tools, w't per doz. 90 lbs. per dozen $36.00.

No. 2700—Size 15x7½x6 in., with tray, containing about 16 tools, w't per doz. 105 lbs. per dozen $50.40.

No. 2725—Size 16½x7½x6 in., with tray, polished hammer, large level, brace and bit, containing about 16 tools, w't per doz. 110 lbs. per dozen $57.60.

No. 2750—Size 17½x8½x6 in., with tray, bronze handles, containing about 24 tools, w't per doz. 125 lbs., per dozen $72.00.

No. 2800—Size 18x8½x6 in., with tray, bronze handles, containing about 28 tools, w't per doz. 140 lbs., per dozen $93.60.

No. 45B, SIX DOZEN; No. 60B, THREE DOZEN; No. 92B, TWO DOZEN: BALANCE, ONE DOZEN IN A CRATE. All sizes given are inside measures.

No. T200 GVD—Hardwood box with tray size 25¼x11½x9 in., dovetailed box, nicely finished, fitted with lock and key and chest handles on ends, contains 25 high grade tools, w't 40 lbs. .. each $33.33.

Contents One Each of the Following:

No. 2 A. E. Nail Hammer. 6 in. GVD Flat Bastard File and Handle.
¾ in. GVD Socket Butt Chisel. 6 in. GVD Flat Slitting Chisel.
1 in. GVD Socket Butt Chisel. 1 each ¼, ½, 1 and 2 in. GVD Auger Bits.
20 in. GVD Panel Saw. GVD Gimlet.
No. 100 Coping Saw. 8 in. GVD Plain Brace.
6 in. GVD Wing Divider. 5 in. GVD Screw Driver.
10 in. GVD Steel Square. No. 35½ GVD Nail Set.
No. 62 Marking Gauge. No. 922 Swivel Pliers.
No. R24 Plane. GVD Alligator Wrench.
No. 223 Mallet. No. 31 Oilier.
No. 102 Level. 2 oz. of Glue.
No. 03 Zigzag Rule. No. 111 Carpenter's Pencil.

CRUSO BOYS'

No. 500—H. S. B. & Co.'s men's work box, containing 17 different tools as enumerated below, made by the best makers and taken direct from stock, the assortment includes just such tools as every man needs about the house, dovetailed box, length 2 ft. 3½ in., width 1½ in., height 4½ in., w't 19 lbs. .. each $14.50

Contents One Each of the Following:

No. 102 Level.
No. 40 Tool Handle.
Pair 6½ in. Button Pliers.
No. 61 Rule.
8 in. Agricultural Wrench.
1 each 1½, 2, 3 and 1½ in. Cast Steel Auger Bit.
16 in. German Saw.
12 in. German Axe.
Gimlet Bit.
No. 2 Maricopa Half Hatchet.
No. 110 Block Plane.
8 in. Washita Oil Stone, 1 lb.
Calumet Bell Face Nail Hammer.
No. 80—22 in. Panel Saw.
10 in. Barker's Brace.

No. 1800—Contains 15 well-made serviceable tools taken from our regular stock; No. 3 Cruso nail hammer, No. 14 Cruso panel saw, No. 20 Cruso mallet, ¾-inch GVD butt chisel, No. 110R GVD plane, No. 012 3½ in. screw driver, No. 0100 coping saw, No. 6 try square, 1 ft. flat rule, No. 68 boxwood rule, No. 010 gimlet, 8½ in. mill file with handle, No. 300 plier, scratch awl; Also package tacks, brads and wire nails; Chest 18¾x8½x6½ in. with tray; w't 14 lbs. Nicely finished each $11.50.
TOOL CHESTS

Contents One Each of the Following:

No. 21½ REYNOLDS Hammer.
24 in. No. 70 REYNOLDS Saw.
No. R26 REYNOLDS Plane.
Each 5/8, 9/16, 9/16, 7/8, 9/8 and 11/8 in. No. 26 REYNOLDS Auger Bits.
Each 1/8, 2/32, 1/32, 1/32 and 1/64 in. No. 108 REYNOLDS Bit Stock Drills.
Each 6 and 10 in. REYNOLDS Mill Files.
6 in. REYNOLDS Slim Taper File.
8 in. REYNOLDS Round Bastard File.
8 in. No. 14 REYNOLDS Wrench.
No. 600 REYNOLDS Pliers.

6 in. No. 6 REYNOLDS Screw Driver.
5 in. REYNOLDS Cold Chisel.
No. 35½ REYNOLDS Nail Set.
No. 33 REYNOLDS Tape.
No. 127 REYNOLDS Screw Driver Bit.
No. 1 REYNOLDS Scratch Awl.
No. 1 Gimlet.
No. 121 Hack Saw Frame and Blade.
No. 100 Coping Saw and 1 doz. Blades.
No. 62 Marking Gauge.
No. 26 Try Square.
No. 61 Rule.
No. 277 Oil Stones.
No. 24 REYNOLDS Sand Paper Assortment.
No. 3 Chalk Line and Chalk.

TOOL CABINETS

Contents—Continued.

No. 716 Mounted Oil Stone.
No. 2 EB Tool Handle.
3 in. EB Screw Driver.
6 in. EB Screw Driver.
8 in. EB Wing Divider.
EB Scratch Awl.
EB Brad Awl.
No. 44 EB Nail Set.
No. 206 EB Combination Plier.
No. 5 Glass Cutter.
No. 22 EB Cabinet Scraper.
No. 33 Measuring Tape.
No. 781 Carpenter’s Pencill.
No. 62 Marking Gauge.
2 ounces LePage’s Glue.
No. 60 8 in. EB Socket Firmer Gauge.
No. 00 EB Level.
1 doz. No. 1–9 in. EB Hack Saw Blades.
EB Tack Claw.
No. 61 Rule.
8 in. Agricultural Wrench.
No. 26 EB Jack Plane.
No. 9½ EB Block Plane.
22 in. EB Panel Saw.
12 in. EB Compass Saw.
EB Hack Saw Frame.
EB Coping Saw.
No. 2 EB Bell Face Nail Hammer.
No. 1 EB Riveting Hammer.
No. 1 EB Shingling Hatcher.
No. 10 EB Blue Steel Square.
No. 20–6 in. EB Try Square.
No. 25–8 in. EB Sliding T Bevel.

No. EB Drawing Knife.
No. 206–3 in. EB Ratchet Bar.
3 and 1 in. EB Auger.
5–6 and 1/2nds EB Counter Sink Bit.
No. EB Mill File with Handle.
No. EB Half Round Cabinet File, with Handle.

No. EB Reamer Bit.
No. 7 Screw Driver Bit.
1/8, 1/5, and 1 in. EB Socket Firmer Beveled Chisels.
No. 31 Oiler.
No. 12 Mallet.
No. 2 Carriage Maker’s Clamp.
No. 041 Yankee Hand Drill.
5½ in. EB Slim Taper File, with Handle.

ROSE TOOLS, INC.
STANLEY TOOL CHESTS AND ROLLS FOR BOY SCOUTS

The following chests have been designed especially for Boy Scouts. The officials of this organization have put these Tool Chests in the new Equipment number of Scouting. Appeals have been sent out to thousands of Boy Scouts and Adult Scout Leaders to put over new development in the scouting program in encouraging and interesting boys in the use of tools in the home.

The tools in these assortments are of the dependable Stanley quality. A practical collection of good tools for the home. All chests are made from hardwood nicely finished, 20 in. long, 10½ in. wide, 8 in. deep.

**TOOL CHESTS**

**No. T888A**—Contains 32 tools w’t 35 lbs. ...............each $54.50

Contents, one each of the following:
- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
  - Gimlet
  - File
  - Saw
  - Chisel
  - Square Reamer
  - Small Screw Driver
  - Two Brad Awls
  - Extra Long Saw
- Pair Pliers
- ½ in. Stanley Cold Chisel
- 6 in. Adjustable Wrench
- No. 2, 6 in. Stanley Try and Mitre Square
- 16 in. Hand Saw
- No. 3 Stanley Bailey Plane
- Coping Saws with 12 extra blades
- No. 20 Stanley Hurwood Screw Driver
- No. 945, 8 in. Stanley Bit Brace
- ½ in. Auger Bit
- ¼ in. Auger Bit
- Gimlet Bit
- Sharpening Stone
- No. 40, 1 in. Stanley Chisel
- 8 in. Flat Mill File with Handle
- No. 62 Stanley Marking Gauge
- No. 742 Stanley Vise
- Glass Cutter
- No. 23 Stanley Countersink
- No. 10, 12 in. Stanley Steel Square
- Expansive Bit
- No. 11 Stanley Nail Set
- No. 104, 18 in. Stanley Level
- Adjustable Pipe Wrench
- No. 147, 4 oz. Stanley Riveting Hammer
- No. 3 Stanley Hand Drill
- Pair Pincers
- ¼ in., Stanley Chisel
- No. 19 Stanley Center Punch

**No. T888B**—Contains 18 tools, w’t 25 lbs. ...............each $36.50

Contents, one each of the following:
- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
  - Gimlet
  - File
  - Saw
  - Chisel
  - Square Reamer
  - Small Screw Driver
  - Two Brad Awls
  - Extra Long Saw
- Pair Pliers
- ½ in. Stanley Cold Chisel
- 6 in. Hand Saw
- No. 3 Stanley Bailey Plane
- Coping Saw with 12 extra blades
- No. 20, 4 in. Stanley Screw Driver
- No. 945, 8 in. Stanley Bit Brace
- ¼ in. Auger Bit
- ¼ in. Auger Bit
- Gimlet Bit
- Sharpening Stone
- No. 10, 12 in. Stanley Steel Square
- No. 40, 1 in. Stanley Chisel
- Glass Cutter
- Adjustable Pipe Wrench

**No. T888C**—Contains 12 tools, w’t 20 lbs. ...............each $21.50

Contents, one each of the following:
- No. 04 Stanley Zig Zag Rule
- No. 12, 13 oz. Stanley Hammer
- No. 302 Stanley Hollow Tool Set, containing
  - Two Saws
  - Chisel
  - Gimlet Bit
  - Three-cornered Tapering File
  - Screw Driver
  - Reamer
  - Two Brad Awls
  - Pair Pliers
- ½ in. Stanley Cold Chisel
- No. 20, 4 in. Stanley Hurwood Screw Driver
- Glass Cutter
- Coping Saw with extra blades
- Stanley Chalkline Reel
- Adjustable Pipe Wrench
- 16 in., 10 point Hand Saw
- No. 11 Stanley Nail Set

**TOOL ROLLS**

**No. 873**—Contains 5 tools, w’t 3 lbs. ..........each $9

Contents, one each of the following:
- No. 12, 13 oz. Stanley Hammer
- ½ in. Stanley Cold Chisel
- No. 302 Stanley Tool Set contain
  - Gimlet
  - File
  - Chisel
  - Square Reamer
  - Small Screw Driver
  - Two Brad Awls
  - Pair Pliers
  - No. 61 Stanley Rule

ONE IN A BOX
ROSE TOOLS, INC.

STANLEY TOOL CABINETS

Made of black walnut, very finely finished. The paneled doors are hung on brass hinges. Cylinder lock with two keys. Interior:

- Contains 25 tools, length 25 in., height 12 in., depth 6 in., with leather handle for carrying, w/t 33 lbs. ... each $57.00

- Contains 20 tools, height 22 in., width 14 in., depth 6¾ in., w/t 37 lbs. ... each $44.00

- Contains 35 tools, height 26½ in., width 19½ in., depth 8 in., w/t 80 lbs. ... each $90.50

STANLEY TOOL CHESTS

The covers are swung on ornamental brass hinges, a brass handle is fixed at the top for carrying:

- Contains 15 tools, length 25 in., width 8½ in., depth 6½ in., w/t 30 lbs. ... each $26.50

- Contains 12 tools, length 25 in., width 14 in. when open, heavy brown canvas, w/t 6 lbs., each $18.30

- Contains 6 tools, length 20 in., width 14 in. when open, heavy brown canvas, w/t 2 lbs., each $10.20

STANLEY TOOL ROLLS

ONE IN A BOX

ROSE TOOLS, INC.
**TOOL CABINETS**

Contents One Each of the Following:

No. 24 **COPCO** Plane.
18 in. **GIB** Panel Saw.
No. 2 **COPCO** Bell Face Nail Hammer.
No. 1 **COPCO** Shingling Hatchet.
1 each ½ and ⅛ in. **COPCO** Auger Bits.
No. 30—½nds **COPCO** Gimlet Bit.
No. 213—11 in. Butt Chisel.
No. 1 **COPCO** Tool Handle.
No. 126 **COPCO** Plier.
No. 3 Cabinet Scaper.
No. 111 Carpenter's Pencil.
8 in. Plain Brace.
No. 20—6 in. **COPCO** Try Square.
6 in. **COPCO** Screw Driver.
No. 70—6 in. Oil Stone.
8 in. **COPCO** Mill File, with Handle.
5½ in. **COPCO** Slim Taper File, with Handle.
No. 44 **COPCO** Nail Set.
No. 61 Rule.
No. 62 Marking Gauge.
No. 31 Copper Plated Oiler.
2 oz. LePage's Glue.

---

**No. T125 COPCO**—Hardwood, nicely varnished, dovetailed, with two paneled doors, outside measurement 24×17×6 in., inside measurement 22½×15×5½ in., inside drawer 13×3.2 in., brass hinges, lock with key and heavy brass bolt with 21 best grade tools, w't each 43 lbs., each $32.50

**No. 115—CRUSO,** cottonwood box, size 24×17×6 in., nicely finished, fitted with one handle on end, contains 25 tools, w't each 21 lbs. ............ each $13.50

Contents One Each of the Following:

No. 012 Calumet Hammer.
No. 315—3 in. Chisel.
No. 50—18 in. Panel Saw.
No. 100 Coping Saw.
No. F63 Rule.
1 each ½, ⅛ and ⅛ in. No. 62 Auger Bits.
No. P8 Brace.
No. 306 Plier.
No. 26—6 in. Try Square.
No. 10—4 in. Screw Driver.

No. 25 Gimlet.
No. R102 Plane.
No. 20 Mallet.
No. 100 Scratch Awl.
No. 35½ Nail Set.
No. 155 Level.
No. 01 Alligator Wrench.
No. 3—6 in. Divider.
2 oz. Glue.
No. 111 Pencil.

---

**No. T101 COPCO**—Hardwood, dovetailed, paneled and nicely finished, outside dimensions 26½×19½×8¼ in., contains 35 first quality tools, w't each 55 lbs., each ............ $41.00

Contents One Each of the Following:

2 Planes.
1 Rule.
1 Try Square.
1 Marking Gauge.
1 Knurled Nail Set.
1 Pair Wing Dividers.
1 Pair Gas Pliers.
1 Pair Flat Nose Pliers.
1 Pair Cutting Nippers.
1 Saw File.
1 Oil Whetstone.
1 Oiler.
1 Coping Saw.
1 Glue Pot.
1 Drawing Knife.

1 18 in. Saw.
1 Brace.
3 Gimlets.
3 Auger Bits.
3 Chisels.
2 Screw Drivers.
1 Hack Saw.
1 Hexagon Level.
1 Countersink.
1 Cabinet Scaper.
1 Steel Nail Hammer.
1 Tack Hammer.
1 Tool Holder, with 10 Tools.
SCROLL SAWs

ROGERS, japanned iron frame, striped in red and gold, japanned tilting-table, selected ash arms and Pitman, steel arbors, carefully fitted to bearings, 4½ in. iron balance wheel, with drilling attachment, iron saw clamps, height of table 28 in. The swing around the table under the arms is 34 in., complete with a dozen 5-in. bracket saw blades, wrench, sheet of designs and drill points, w't 25 lbs., boxed for shipment 42 lbs.

No. Tz—With Emery flywheel, each .................................................. $20.00

ONE IN A BOX, SHIPPED KNOCKED DOWN

ROSE TOOLS, INC.

VELOCIPEDE SCROLL SAWs

Cast iron frame, hard maple table and arms, balance and drive wheels run on steel arbors, 7 in. blade, with one dozen blades, w't 90 lbs., boxed for shipment 130 lbs.

No. Fz—Without boring attachment, each* .................................. $76.00

No. F28—With boring attachment, including one ½ in. bit, each* .......................................................... $85.00

Sweep around blade under arm is 24 in. Boring attachment can be furnished at any time. We furnish extra bits at following prices, each: 1/8, 15c; 1/4, 15c; 5/32, 25c; 3/32, 25c; ½, 20c; 3/16, 25c; 5/32, 30c; 5/32, 30c.

ONE IN A BOX, SHIPPED KNOCKED DOWN

COMBINED CIRCULAR AND SCROLL SAWs

SHOWING CIRCULAR SAW ONLY.

Neither circular nor scroll saw interferes with successful operation of the other. Capacity of scroll saw is same as that of No. Tz. Table can be adjusted up or down by a cam, to allow any desired depth of cut being made by saws or cutter tools. Circular saws are 6 in. in diam. and reach 18 in. above the table. W't boxed for shipment 350 lbs.

No. Fz—Circular saw only—with two 6 in. saws—without attachments, each* ........................................... $161.50

No. F26—Scroll saw attachment—1 dozen saws, extra* each ........................................ $19.00

No. F27—Boring attachment, with drill chuck, extra* each ........................................ $28.50

No. F28—Combined machine, complete with attachments, each* ........................................ $190.00

ONE IN A BOX, SHIPPED KNOCKED DOWN

* Items Marked Thus * Are Shipped From Factory Only.

CIRCULAR SAWs

Iron and steel frame, 30×30 in. iron table, complete with self-feed, two 10 in. circular saws 1 each rip and cross-cut, w't 400 lbs., crated 480 lbs.

Hand and foot power for hard or soft, thick or thin lumber. Can be used as a cross-cut saw. Self-feed mechanism can be instantly thrown back to rear of machine, also rip gauge, leaving table perfectly clear for cut-off work. Can be used for rabbeting and grooving. The self-feed can be used for grooving and rabbeting as well as when the machine is used for ripping. Cutter heads are also used for graining and dadoing and with knives of suitable width for joining. Can be provided with boring attachment which is the same as used on the combined machine.

No. Fz—For Foot Power, each* .................................................... $285.00

No. F5—With countershafts, for steam instead of foot power, each* .................................................... $285.00

BOILING ATTACHMENTS

No. F6—each* ....................................................... $28.50

COUNTERSHAFTS

No. F7C—Countershaft and belt pulleys* ........................................ $28.50

ONE IN A BOX, SHIPPED KNOCKED DOWN
Cut showing portion of No. 0 Screw Cutting Engine Lathe.

Barnes all iron and steel, velocipede foot power.

Swings 11 in. on the face plate, 6½ in. over the tool carriage, and is 34 in. between centers. Back-gearing and cone pulleys give great range of speed. Head stock has a steel spindle with 1½ in. hole through its entire length. Tail stock can be readily set at any desired point, and can be taken off altogether, leaving it free for face plate or chuck work. It can also be set over for turning tapers. Spindles of both head and tail stocks are of steel, with positively true taper holes for the reception of the centers. Tail stock center is self-discharging. Tool carriage is gibbed to the bed. The tool can be set to the work at any position or angle desired; also to bore a taper hole. All the works are securely protected from chips and dirt. As a right or left screw cutting lathe it is simply perfect. All the gearing is cut from solid metal in the best machinery known for gear cutting, and is as true and noiseless as it is possible for metal gearing to be. Weight 385 lbs., boxed ready for shipment, 500 lbs.

No. F9—Foot power mortisers, with 15 chisels, w't 135 lbs.; boxed 170 lbs. each $95.00

No. F10—Self-cleaning mortising chisel, sizes 1, ⅛, ⅜, ½, 1, 1⅛, 1⅔, 3, ½ and 1 in. each $4.50

ONE IN A CRATE

EMERY WHEEL DRESSERS

No. 15—Huntington, for truing, shaping and removing glaze from solid emery wheels while running at full speed, w't per doz. 22 lbs., per dozen $9.80

No. 25—Extra Cutters, w't per doz. sets 1 lb. per set $0.09

ONE IN A BOX
## Emery Wheels

Special Price Quoted on Application

Best Emery

### Flat Face Wheels Carried In Stock

<table>
<thead>
<tr>
<th>Thickness, in.</th>
<th>Arbor, in.</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>1</th>
<th>1 1/2</th>
<th>1 3/4</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam. in.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1</td>
<td>1 1/2</td>
<td>1 1/2</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>1.40</td>
<td>1.40</td>
<td>1.40</td>
<td>1.40</td>
<td>1</td>
<td>2</td>
<td>2 1/2</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>1.90</td>
<td>1.90</td>
<td>1.90</td>
<td>1.90</td>
<td>1</td>
<td>2.25</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>2.40</td>
<td>2.40</td>
<td>2.40</td>
<td>2.40</td>
<td>1</td>
<td>3.40</td>
<td>4 1/2</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>2.70</td>
<td>2.70</td>
<td>2.70</td>
<td>2.70</td>
<td>1</td>
<td>3.90</td>
<td>5 1/2</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
<td>1</td>
<td>6.00</td>
<td>6.00</td>
<td>6</td>
</tr>
<tr>
<td>9</td>
<td>4.20</td>
<td>4.20</td>
<td>4.20</td>
<td>4.20</td>
<td>1</td>
<td>6.90</td>
<td>7.80</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>4.40</td>
<td>4.40</td>
<td>4.40</td>
<td>4.40</td>
<td>1</td>
<td>6.90</td>
<td>7.80</td>
<td>7</td>
</tr>
</tbody>
</table>

### Round Face Wheels Carried In Stock

<table>
<thead>
<tr>
<th>Thickness, in.</th>
<th>Arbor, in.</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>1</th>
<th>1 1/2</th>
<th>1 3/4</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam. in.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1.90</td>
<td>1.90</td>
<td>1.90</td>
<td>1.90</td>
<td>1</td>
<td>2.40</td>
<td>3.55</td>
<td>4.30</td>
</tr>
<tr>
<td>8</td>
<td>2.70</td>
<td>2.70</td>
<td>2.70</td>
<td>2.70</td>
<td>1</td>
<td>3.60</td>
<td>4.90</td>
<td>5.20</td>
</tr>
<tr>
<td>10</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
<td>3.60</td>
<td>1</td>
<td>6.00</td>
<td>7.80</td>
<td>7.80</td>
</tr>
<tr>
<td>12</td>
<td>4.20</td>
<td>4.20</td>
<td>4.20</td>
<td>4.20</td>
<td>1</td>
<td>6.00</td>
<td>7.80</td>
<td>7.80</td>
</tr>
</tbody>
</table>

Flat, Round or Beveled Face Wheels Shipped From Factory

<table>
<thead>
<tr>
<th>Thickness, in.</th>
<th>1/8</th>
<th>1/4</th>
<th>1/2</th>
<th>1 1/2</th>
<th>1 3/4</th>
<th>2</th>
<th>2 1/2</th>
<th>3</th>
<th>3 1/2</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diam.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>.40</td>
<td>.50</td>
<td>.60</td>
<td>.70</td>
<td>.80</td>
<td>.95</td>
<td>1.05</td>
<td>1.15</td>
<td>1.35</td>
<td>1.55</td>
</tr>
<tr>
<td>2</td>
<td>.60</td>
<td>.75</td>
<td>.90</td>
<td>1.00</td>
<td>1.15</td>
<td>1.30</td>
<td>1.45</td>
<td>1.60</td>
<td>1.85</td>
<td>2.00</td>
</tr>
<tr>
<td>3</td>
<td>.80</td>
<td>1.00</td>
<td>1.20</td>
<td>1.45</td>
<td>1.65</td>
<td>1.85</td>
<td>2.10</td>
<td>2.30</td>
<td>2.70</td>
<td>3.15</td>
</tr>
<tr>
<td>4</td>
<td>1.10</td>
<td>1.40</td>
<td>1.20</td>
<td>1.25</td>
<td>2.25</td>
<td>3.00</td>
<td>3.80</td>
<td>4.15</td>
<td>4.90</td>
<td>5.70</td>
</tr>
<tr>
<td>5</td>
<td>1.90</td>
<td>2.40</td>
<td>2.25</td>
<td>3.00</td>
<td>4.85</td>
<td>6.50</td>
<td>7.80</td>
<td>10.30</td>
<td>12.00</td>
<td>13.70</td>
</tr>
<tr>
<td>6</td>
<td>2.40</td>
<td>2.95</td>
<td>2.95</td>
<td>3.60</td>
<td>4.95</td>
<td>5.80</td>
<td>6.30</td>
<td>8.20</td>
<td>9.80</td>
<td>10.90</td>
</tr>
<tr>
<td>7</td>
<td>4.40</td>
<td>4.80</td>
<td>5.80</td>
<td>6.30</td>
<td>7.40</td>
<td>8.40</td>
<td>9.50</td>
<td>10.60</td>
<td>12.70</td>
<td>14.80</td>
</tr>
<tr>
<td>8</td>
<td>9.50</td>
<td>10.60</td>
<td>12.70</td>
<td>14.80</td>
<td>17.00</td>
<td>19.00</td>
<td>21.20</td>
<td>23.30</td>
<td>25.50</td>
<td>28.00</td>
</tr>
<tr>
<td>9</td>
<td>14.90</td>
<td>20.20</td>
<td>23.80</td>
<td>27.30</td>
<td>30.90</td>
<td>34.40</td>
<td>38.00</td>
<td>41.60</td>
<td>45.20</td>
<td>48.80</td>
</tr>
<tr>
<td>10</td>
<td>24.00</td>
<td>24.00</td>
<td>30.60</td>
<td>37.30</td>
<td>44.00</td>
<td>51.00</td>
<td>59.00</td>
<td>67.00</td>
<td>75.00</td>
<td>83.00</td>
</tr>
</tbody>
</table>

* Items Marked Thus * Are Shipped From Factory Only.
CARBORUNDUM AND ALOXITE GRINDING WHEELS
HARDEST AND SHARPEST

Carborundum and Aloxite grinding wheels are electric furnace manufactured abrasives and guaranteed for uniformity as to grits and grades.

When ordering sizes not listed be sure to state sizes of arbor hole and class of work wheels are to be used for so that factory may be able to furnish proper grades for each class of work.

Carborundum and Aloxite grinding wheels can be used wet or dry and are guaranteed when used with ordinary care.

CARBORUNDUM WHEELS
FROM STOCK

Flat Face, Medium Grit For General Use.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Arbor</th>
<th>Each.</th>
<th>Nos.</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Arbor</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>$1.00</td>
<td>56</td>
<td>6</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>2.40</td>
<td>58</td>
<td>8</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>34</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>2.65</td>
<td>68</td>
<td>8</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>44</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>2.80</td>
<td>810</td>
<td>10</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>35</td>
<td>5</td>
<td>2</td>
<td>3</td>
<td>3.40</td>
<td>812</td>
<td>12</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

ALOXITE SAW GUMMING WHEELS
FROM STOCK

Round Face, Medium Grit.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Arbor</th>
<th>Each.</th>
<th>Nos.</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Arbor</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>$2.40</td>
<td>124</td>
<td>12</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>83</td>
<td>8</td>
<td>1</td>
<td>1</td>
<td>3.55</td>
<td>124</td>
<td>12</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>84</td>
<td>8</td>
<td>1</td>
<td>1</td>
<td>3.55</td>
<td>124</td>
<td>12</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td>104</td>
<td>10</td>
<td>1</td>
<td>1</td>
<td>4.90</td>
<td>124</td>
<td>12</td>
<td>12</td>
<td>1</td>
</tr>
</tbody>
</table>

CARBORUNDUM OR ALOXITE GRINDING WHEELS
PICK-UP

In ordering specify thickness, size of arbor and class of work wheels are to be used for.
PIKE'S OIL STONES AND SLIPS

ARKANSAS SOFT NO. 1 QUALITY

used extensively by sheep shearers.

Nos. .......... 396 398

Length, in. ....... 6 to 6 3/4 to 7 1/2 to

Width, in. ...... 2

Thick., in. .......... 3/4 to 1 3/4 to 2

Wt., doz., about, lbs. .. 12 18

Per dozen .................. $32.00 52.00

PACKED IN AN INDIVIDUAL BOX

ARKANSAS SOFT NO. 2 QUALITY

used extensively by sheep shearers.

Nos. .......... 496 498

Length, in. ....... 6 to 6 3/4 to 7 1/2 to

Width, in. ...... 2

Thick., in. .......... 3/4 to 1 3/4 to 2

Wt., doz., about, lbs. .. 12 18

Per dozen .................. $18.00 25.60

PACKED IN BULK AND IN PAPER

LILY WHITE WASHITA

386 387 388

Length, in. ....... 5 1/2 to 6 1/2 to 7 1/2 to

Width, in. ...... 2

Thick., in. .......... 3/4 to 1

Per dozen .................. $12.00 13.50 20.00

PACKED IN AN INDIVIDUAL BOX

WASHITA NO. 1 QUALITY

used extensively by sheep shearers.

Nos. .......... 276 277 278

Length, in. ....... 5 3/4 to 6 to 6 3/4 to 7 1/2 to 8

Width, in. ...... 2

Thick., in. .......... 3/4 to 1 3/4 to 2 3/4 to 4

Wt., doz., about, lbs. .. 11 1/2 13 14

Per dozen .................. $7.20 8.80 12.00

PACKED IN INDIVIDUAL FOLDING CARTONS

QUEER CREEK

Nos. .......... 165 166 167

Length, in. ....... 5 6 7

Width, in. ...... 2

Thick., in. .......... 3/4 to 1 3/4 to 2

Wt., doz., about, lbs. .. 9 10 10 4

Per dozen .................. $2.70 3.70 4.80

PACKED IN INDIVIDUAL FOLDING CARTONS

HINDOSTAN ASSORTED

No. 57—Blue small, assorted 7 x 2 to 1 in., w't from 1 lb. to 1 lb., per pound $0.25

No. 58—Blue regular, assorted 8 x 2 x 1 to 1 in., w't from 1 lb. to 1 lb., per pound $0.20

PACKED IN BULK

MOUNTED OIL STONES

No. 907—Arkansas, soft, 7 x 2 in., mahogany box, w't per doz. 18 lbs., per dozen $32.00

No. 716—Washita, 6 x 1 1/2 in., polished hardwood box, w't per doz. 14 lbs., per dozen $11.20

No. 717—Washita, 7 x 2 in., polished hardwood box, w't per doz. 16 lbs., per dozen $14.40

No. 725—Cruso, Queer Creek, 5 x 2 in., polished hardwood box, w't per doz. 14 lbs., per dozen $3.80

No. 727—Cruso, Queer Creek, 7 x 2 in., polished hardwood box, w't per doz. 16 lbs., per dozen $6.00

No. 805—Two Bits, 5 x 1 1/2 x 1 in., polished hardwood box, especially for 18 lbs., per doz. 16 lbs., per doz. $5.00

AXE STONES

No. 153—Hindostan, small, assorted 3 x 2 1/2 x 1 in., w't in lb., per pound $0.20

No. 254—Hindostan, large, assorted 4 x 2 x 1 in., w't in lb., per pound $0.20

ONE IN A BOX

BEVELED OIL SLIPS

ARKANSAS ROUND EDGE HARD

Nos. .......... 93 94

Length, in. ....... 2 3/4 to 3 1/2 to 3 3/4 to 4

Width, in. ...... 1/2 to 2 1/2 to 2

Thick., in. .......... 3/16 to 1/2 to 3/4

Wt., doz., about, lbs. .. 2 3

Per dozen .................. $18.00 24.00

ONE IN A BOX

ARKANSAS ROUND EDGE SOFT

Nos. .......... 593 594

Length, in. ....... 2 3/4 to 3 1/2 to 3 3/4 to 4

Width, in. ...... 1 1/2 to 2 1/2 to 2

Thick., in. .......... 3/16 to 1/2 to 3/4

Wt., doz., about, lbs. .. 3 3

Per dozen .................. $6.40 9.60

ONE IN A BOX

LILY WHITE ROUND EDGE

No. 184—3 1/2 in. long x 1 3/4 in. thick, 3 1/2 in. thick, w't per doz. about 3 lbs., per dozen $4.80

ONE DOZEN IN A PASTEBOARD BOX

WASHITA ROUND EDGE, No. 1

Nos. .......... 174 175

Length, in. ....... 33 to 43 43 1/4 to 53

Width, in. ...... 13 to 2 13 to 2

Thick., in. .......... 3/4 to 1 3/4 to 2

Wt., doz., about, lbs. .. 3 3

Per dozen .................. $3.20 4.80

ONE DOZEN IN A PASTEBOARD BOX

ROSE TOOLS, INC.
INDIA POCKET KNIFE STONES

One of the best all around sharpeners for all sorts of small tools around the home, office and workshop. It is made of selected material and gives a sharp, keen edge.

No. 293—3¼ in. long x 1 in. wide x ⅜ in. thick, w't per doz. about 2¾ lbs., per dozen $3.20

PACKED IN NATURAL WOOD DISPLAY STANDS CONTAINING ONE DOZEN STANDS

INDIA "KANT-BREAK" KNIFE SHARPENERS

These "Stone Steels" are made of the most satisfactory abrasion known—India Corundum—a substance in hardness about that of a diamond. It is crushed into small grains, bound together under heavy pressure and hardened by heat. There is a strong reinforcing rod running the entire length of the steel as well as rubber tips at both ends and a rubber ring upon the handle. All serving to make the hone strong and less liable to break. We cannot too highly recommend these hone's to the man who wants a very rapid cutting, durable sharpener.

No. 10—"Kant Break" w't per doz. 8 lbs. per dozen $9.60

A STRONG, NEAT COUNTER DISPLAY STAND PACKED WITH EVERY DOZEN SHARPENERS

SAND STONES

No. 38—Shoemakers' about 8x1½x 1¼ in., w't about 1½ lbs., per pound $0.15 LOOSE

No. 32—Kitchen, 8x1½x1½ in., neat wood box, w't per doz. 30 lbs., per dozen ONE DOZEN IN A BOX $3.40

INDIA OIL SLIPS

No. 44—Slip, 4¾ in. long x 1⅝x⅝ in., w't per doz. about 2½ lbs., per dozen ONE DOZEN IN A BOX $10.40

INDIA OIL STONES

India oil stone has been on the market but a few years, yet its reputation has become world-wide. For rapid cutting it has no equal and it leaves a remarkably smooth, lasting edge on the tool. It is made in coarse and medium grits. The coarse grit is used only where very rapid work is desired, the medium grit being used mostly by carpenters, joiners and others wanting a stone for general use.

The India is also made with the coarse grit on one side and medium on the other. This stone is very popular as it saves many the necessity of buying two stones.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>FINE</th>
<th>MEDIUM</th>
<th>COMBINATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length, in.</td>
<td>Width, in.</td>
<td>Thickness, in.</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
**Oil Stone Assortment**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
<th>Per asst.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CYB Soft</td>
<td></td>
<td>$2.00</td>
</tr>
<tr>
<td></td>
<td>CYB Soft</td>
<td></td>
<td>$2.25</td>
</tr>
<tr>
<td></td>
<td>CYB Lily</td>
<td></td>
<td>$2.75</td>
</tr>
<tr>
<td></td>
<td>White Washita</td>
<td></td>
<td>$3.25</td>
</tr>
<tr>
<td></td>
<td>White Washita</td>
<td></td>
<td>$3.50</td>
</tr>
<tr>
<td></td>
<td>CYB Hard</td>
<td></td>
<td>$0.80</td>
</tr>
<tr>
<td></td>
<td>CYB Hard</td>
<td></td>
<td>$1.00</td>
</tr>
<tr>
<td></td>
<td>CYB Hard</td>
<td>Combination</td>
<td>$1.50</td>
</tr>
<tr>
<td></td>
<td>Arkansas Slips</td>
<td></td>
<td>$1.00</td>
</tr>
<tr>
<td></td>
<td>Medium India</td>
<td></td>
<td>$1.00</td>
</tr>
<tr>
<td></td>
<td>Medium India</td>
<td></td>
<td>$1.15</td>
</tr>
<tr>
<td></td>
<td>Medium India</td>
<td></td>
<td>$1.30</td>
</tr>
<tr>
<td></td>
<td>Slips</td>
<td></td>
<td>$0.20</td>
</tr>
<tr>
<td></td>
<td>Medium India</td>
<td></td>
<td>$1.60</td>
</tr>
</tbody>
</table>

**Ruby Oil Stones**

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Length, in.</th>
<th>Width, in.</th>
<th>Thickness, in.</th>
<th>Wt, oz.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>222</td>
<td>4</td>
<td>4</td>
<td>3</td>
<td>16</td>
<td>$3.00</td>
</tr>
<tr>
<td>226</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>16</td>
<td>$3.10</td>
</tr>
<tr>
<td>227</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>16</td>
<td>$3.20</td>
</tr>
<tr>
<td>228</td>
<td>4</td>
<td>6</td>
<td>3</td>
<td>16</td>
<td>$3.30</td>
</tr>
</tbody>
</table>

**Carborundum Rubbing Bricks**

For dressing or scouring.

Suitable for dressing granite and marble, or scouring castings, chilled iron and steel. Made in any grit, 20 (coarse) to FF (fine). State grit wanted or for what purpose.

**Nos.** | P206 | P207 | P211 | P212
---|------|------|------|------
**Length, in.** | 3    | 3    | 3    | 3
**Width, in.** | 2    | 2    | 2    | 2
**Thickness, in.** | 2    | 2    | 2    | 2
**Wt, oz.** | 5    | 7    | 7    | 7
**Per dozen.** | $3.50| $5.60| $7.85| $10.35|

**Ruby Oil Slips**

**CRUSO**

Finest Ruby Corundum, 4x24 x 1/4 in. Wt per dozen 2 lbs., $3.00.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Length, in.</th>
<th>Width, in.</th>
<th>Thickness, in.</th>
<th>Wt, oz.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>334</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>16</td>
<td>$3.00</td>
</tr>
<tr>
<td>2334</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>16</td>
<td>$3.00</td>
</tr>
</tbody>
</table>

**Ruby Knife Stones**

**CRUSO**

Pocket, Finest Ruby Corundum.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Description</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>403</td>
<td>31 x 3 x 1/8 in., in leatherette case, w't per dozen. 1 lb.,</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

**Carborundum Stones**

For Truing and Dressing Emery Wheels.

Especially adapted for shaping, truing and dressing gurneers.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Description</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>P212C</td>
<td>8 x 2 x 1 in., w't per dozen.</td>
<td>$15.35</td>
</tr>
</tbody>
</table>
CARBORUNDUM STONES

Every Stone is Guaranteed to be Perfect, Can be Used with Oil, Water or Dry.

POCKET HONES
No. 150—Fine, Round, 2 in. diam., ½ in. thick, w't per doz. 14 oz., per doz. $3.00
ONE IN A BOX

CARBORUNDUM POCKET HONE

Made of finest carborundum powder, suitable for sharpening pocket knives, ink scratchers, scissors and small tools. Smooth, fast cutting. Stone is put up in a neat buff colored carton.
No. 149C—Two doz. stones 3x1/2 in., mounted in a 10x12 in. attractive display box with easel back, per carton $4.80

AXE

Medium Grit.
193 24 13 12 3 $4.20
194 3 2 1 $4.50
195 2½ 1½ 1½ 3 $4.50
Per dozen ONE IN A BOX

ROUND COMBINATION AXE

One Coarse Side and One Fine Side.
No. 196—3x1/4 in., w't per doz. 4 lbs., per dozen $2.20
ONE IN A BOX

ROUND COMBINATION BENCH

One Side Coarse, Other Very Fine. Sharpening area contains 12 sq.in.
No. 107—4x1 in., w't per doz. 10½ lbs., per dozen $15.00

CARBORUNDUM HOUSEHOLD STONES

Mounted on Wood Base
No. 330—6-½ in. w't per doz. 9 lbs., per dozen THREE DOZEN IN A BOX $5.40

SLIP

Made of finest carborundum powder, and is ground to a very fine grit. Suitable for sharpening pocket knives, ink scratchers, scissors and small tools. Sharpens quickly and is easy to use.

One Coarse and One Very Fine Stone
Nos. Length, in. Width, in. Thickness, in. W't, doz., lbs. Per dozen
328 8 8 1 8 8 1 8 1 18 3 $27.00 21.00 15
108 11 11 1 11 11 1 11 1 18 3 15
Per dozen ONE IN A BOX

BENCH

Fine Grit.
Nos. Length, in. Width, in. Thickness, in. W't, doz., lbs. Per dozen
115 8 8 6 18 6 18 6 18 6 15 3 15 3 15 3
118 8 8 6 18 6 18 6 18 6 15 3 15 3 15 3
121 8 8 6 18 6 18 6 18 6 15 3 15 3 15 3
Per dozen ONE IN A BOX

MACHINISTS' SPECIAL

SLIP

Designed for machinists' use. 4x1x½ in., w't per doz. 14 lbs.
No. 292—Fine Grit, per dozen $6

No. 292M—Medium Grit, per dozen $6

ONE IN A BOX
# CARBORUNDUM STONES

## CARBORUNDUM DISPLAY CASES

About fourteen inches square and seven inches high. Natural wood colors, is strong, durable and practical as a stock keeper.

Has four spacious drawers, each fitted with a strong drawer pull. Each drawer is large enough to hold a good supply.

The lift-top cover is lowered and fits tightly to the body of the case, making the interior dust-proof. This case is given absolutely free to any dealer purchasing any one of the following assortments:

<table>
<thead>
<tr>
<th>Assortment</th>
<th>Contains 26 carborundum stones, total retail value $24.00, w't per assortment 20 lbs.</th>
<th>$24.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 2 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 3 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 4 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 5 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 6 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 7 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 8 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 9 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 10 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 11 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 12 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 13 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 14 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 15 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 16 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 17 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 18 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 19 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 20 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 21 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 22 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 23 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 24 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 25 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
<tr>
<td>No. 26 Assortment</td>
<td></td>
<td>$24.00</td>
</tr>
</tbody>
</table>

## CARBORUNDUM GRAINS AND POWDERS

The carborundum grains and powders are produced by crushing the crude carborundum crystal masses.

The grains are subjected to an acid treatment, then graded into the different grits by a sieving process.

The grains too small to grade by sieving are graduated in running water, the finest grains being those which float longest.

### Prices on Application

Following carried in stock:

<table>
<thead>
<tr>
<th>No.</th>
<th>80—80 grain, 1 lb. cans</th>
<th>per lb.</th>
<th>$0.40</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>80—80 grain, 5 lb. cans</td>
<td>per lb.</td>
<td>$0.40</td>
</tr>
<tr>
<td>No.</td>
<td>120—120 grain, 1 lb. cans</td>
<td>per lb.</td>
<td>$0.40</td>
</tr>
<tr>
<td>No.</td>
<td>120—120 grain, 5 lb. cans</td>
<td>per lb.</td>
<td>$0.30</td>
</tr>
<tr>
<td>No.</td>
<td>2F—2F powder, 1 lb. cans</td>
<td>per lb.</td>
<td>$0.40</td>
</tr>
<tr>
<td>No.</td>
<td>2F—2F powder, 5 lb. cans</td>
<td>per lb.</td>
<td>$0.30</td>
</tr>
</tbody>
</table>

## CARBORUNDUM OIL STONE BOXES

- **Varnished Wood**
  - **P49**
  - **P50**
  - **P51**
    - 6.2 x 1.7 x 1.8
    - 3 x 4 x 4
    - $4.80

- **Iron, Painted Black**
  - **P52**
  - **P53**
  - **P54**
    - 6.2 x 1.7 x 1.8
    - 3 x 3 x 3
    - $10.20

## CARBORUNDUM GRAIN

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P24</td>
<td>24</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P30</td>
<td>30</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P36</td>
<td>36</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P40</td>
<td>40</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P50</td>
<td>50</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P60</td>
<td>60</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P60</td>
<td>70</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P80</td>
<td>80</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
<td>$0.20</td>
</tr>
<tr>
<td>P90</td>
<td>90</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
<td>$0.20</td>
</tr>
<tr>
<td>P100</td>
<td>100</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
<td>$0.20</td>
</tr>
<tr>
<td>P120</td>
<td>120</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
<td>$0.20</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P1F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P3F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
</tbody>
</table>

## CARBORUNDUM POWDER

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P1F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P3F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
</tbody>
</table>

**LOOSE**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P1F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
</tr>
<tr>
<td>P3F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
</tr>
</tbody>
</table>

**Cans**

<table>
<thead>
<tr>
<th>Grain</th>
<th>Cans</th>
<th>Bags</th>
<th>Drums</th>
<th>Kegs</th>
<th>Kegs</th>
<th>Kegs</th>
<th>Kegs</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P3F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P1F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P2F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
<tr>
<td>P3F</td>
<td>F</td>
<td>$0.40</td>
<td>$0.30</td>
<td>$0.25</td>
<td>$0.23</td>
<td>$0.21</td>
<td>$0.20</td>
</tr>
</tbody>
</table>
CARBORUNDUM STONES

NO. 7 DISPLAY CASE

We will furnish FREE, the above illustrated display case, providing the dealer will purchase from us the stones displayed in case, and a selling stock of stones, at a total investment of $6170, list price.

With this proposition the dealer is assured of three things—first, of a wide margin of profit. Second, a quick selling stock of Carborundum Sharpening Stones, made of Carborundum, the hardest, sharpest, quickest cutting abrasive known, and third, of a very attractive display case of such finish and workmanship as to be quite in keeping with the furnishings of any first class hardware store.

The case is 24 inches high, 18 inches wide and 12 inches deep, made of the best grade golden finish quartered oak. The door and heavy glass-covered display panel showing an assortment of carborundum stones are one. The stones are attractively arranged on dark cloth-covered panel, with number and selling price of stones stamped on each stone. Stones are easily removable. Back of the door are four spacious compartments for carrying stone assortment. The stock is accessible from the front of the case, making it very convenient.

This is a splendid, attractive case especially designed for the window or counter display.

The following stones are displayed on the panel of the show case. They are rapid sellers and known to the trade.

<table>
<thead>
<tr>
<th>Stone Description</th>
<th>Retail Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>103C Razor Hone</td>
<td>$1.15</td>
</tr>
<tr>
<td>200C Aloxite Razor Hone</td>
<td>1.00</td>
</tr>
<tr>
<td>109C Combination Stone</td>
<td>1.25</td>
</tr>
<tr>
<td>111C Combination Stone</td>
<td>1.00</td>
</tr>
<tr>
<td>112C Combination Stone</td>
<td>.85</td>
</tr>
<tr>
<td>118C Sharpening Stone, Fine</td>
<td>1.35</td>
</tr>
<tr>
<td>124C Sharpening Stone, Fine</td>
<td>.90</td>
</tr>
<tr>
<td>142C Sharpening Stone, Fine</td>
<td>.65</td>
</tr>
<tr>
<td>145C Sharpening Stone, Fine</td>
<td>.45</td>
</tr>
<tr>
<td>149C Pocket Stone, Fine</td>
<td>.20</td>
</tr>
<tr>
<td>183C Slip Stone, Fine</td>
<td>.65</td>
</tr>
<tr>
<td>184C Slip Stone, Medium</td>
<td>.65</td>
</tr>
<tr>
<td>194C Axe Stone</td>
<td>.45</td>
</tr>
<tr>
<td>292C Machinist's Stone, Fine</td>
<td>.55</td>
</tr>
<tr>
<td>2 x 4 x 8 Round Sticks</td>
<td>.70</td>
</tr>
<tr>
<td>2 x 4 x 8 Square Sticks</td>
<td>.50</td>
</tr>
<tr>
<td>2 x 4 x 8 Triangular Sticks</td>
<td>.65</td>
</tr>
</tbody>
</table>

Total ......................................................... $14.80

All Stones Guaranteed

We Guarantee All Stones in the Display and Stock, and Will Refund Full Price Paid for Any Stone Not Giving Exceeding Satisfaction to Your Customer.

* Items Marked Thus * Are Shipped From Factory Only.
CARBORUNDUM FILE

A handy tool for the farmer, gardener or householder. It is a mild four-sided, tapered shaft of Carborundum that cuts swiftly and free. Use it for mower sections, lawn mower blades, for practically any edge, farm or garden tool. Just the right handy size and made in the right grit to give best and quickest results.

A wonderfully useful tool. It's chief use is the sharpening of knives of the mower sections, but it can be used in sharpening an edge on almost any farm or garden tool, sickles, plow, spades, scythes, lawn mower knives, etc.

No. 17—17 in. long, wood handle, w't per doz. 15 lbs.

LOOSE

$12.00

SCYTHE STONE ASSORTMENTS

This display box is made of cardboard reinforced with wood, and covered with a buff glazed coated paper.

Three sizes are put up in this way; one dozen No. 190C, 10 inches in length, one dozen No. 191C, 12 inches in length, and one dozen No. 192C, heavy, 10 inches in length.

The box is hinged at the center and when folded back for display, is very substantial and makes an exceedingly attractive appearance.

No. 190C—Length 10 in., w't per gro. 72 lbs., per gross ........................................ $43.20
No. 191C—Length 12 in., w't per gro. 120 lbs., per gross ........................................ $50.40
No. 192C—Length 10 in., heavy, w't per gro. 108 lbs., per gross ........................................ $50.40

ONE DOZEN IN A CARTON

CARBORUNDUM ALOXITE SCYTHE STONES

Aloxite Scythe Stones are made of carborundum aloxite, the hardest and sharpest known abrasive material. The sharpness gives an exceeding rapid cutting quality, and the hardness imparts durability unequalled by any abrasive.

SHIPPING FACILITIES

With our immense stock and very modern facilities for shipments we are enabled to fill orders with unequaled promptness. On some of the roads we have special through cars which enable us to reach distant points 24 hours ahead of shipments made in the regular way.
### SCYTHE STONES

**Black Diamond**, flat octagon, best Vermont grit, very fine, length 10 in., w/t per gro. 106 lbs.

- No. N78—Full quarter gross box, per gross $31.50
- No. 78—Less than quarter gross, per gross $32.50

**Pike's Genuine Indian Pond**, No. 1, oval red end, very sharp grit, length 10 in., w/t per gro. 108 lbs.

- No. N66—Full quarter gross box, per gross $21.60
- No. 66—Less than quarter gross, per gross $22.60

**Willoughby Lake**, round oval, bluish gray, fine sharp grit, length 10 in., w/t per gro. 100 lbs.

- No. N68—Full quarter gross box, per gross $25.20
- No. 68—Less than quarter gross, per gross $26.20

**Green Mountain**, flat oval, Vermont grit, sharp, length 10 in., w/t per gro. 100 lbs.

- No. N64—Full quarter gross box, per gross $20.00
- No. 64—Less than quarter gross, per gross $21.00

**Lamoille**, round oval, extra quality Vermont grit, very sharp, length 10 in., w/t per gro. 108 lbs.

- No. N76—Full quarter gross box, per gross $29.50
- No. 76—Less than quarter gross, per gross $26.50

### EMERY GRINDER HEADS

**Wheels Not Included.**

- No. N21—Intended for very light work, will carry two 6x1 in. wheels. Split cast iron bearings. Spindle 11 in. long, diam. in bearing 3 in., diam. on end 3 in., size of pulley 1½x1½ in., distance between wheels 6 in., height to center of spindle 5 in., w/t complete 15 lbs. each...
  $6.60

- No. N22—Built with babbitted bearings and adjustable tool rests, will carry two 8x1½ in. wheels, length of spindle 14 in., diam. in bearing 3 in., diam. on end 3 in., size of pulley 2½-2 in., distance between wheels 8 in., height to center of spindle 6½ in., w/t complete 25 lbs. each...
  $13.50

- No. N23—Built with babbitted bearings with wick oiling arrangement as insurance against faulty lubrication, will carry two 10x1¼ in. wheels, length of spindle 18 in., diam. in bearings 1½ in., diam. on end 1 in., size of pulley 2½-2 in., distance between wheels 10 in., h't to center of spindle 7½ in., w/t complete 45 lbs. each...
  $23.00

- No. N24—Bearings are babbitted and fitted with wick oiling arrangement. 12-2 in. wheel, length of spindle 24 in., diam. of spindle in bearings 1½ in., diam. between collars 1 in., size of pulley 4x3½ in., distance between wheels 14½ in., height to center of spindle 8 in., w/t complete 75 lbs. each...
  $40.00

### POLISHING HEADS

**Wheels Not Included.**

- No. 10—6½ in. high, for wheels not larger than 6½ in., 9 in. spindle, 3 in. diam. between flanges, 2 in. taper screw, end fitted to hold emery wheel, etc., 2 speed pulleys fitted in round belting, w/t 3½ lbs. each...
  $4.60
ROSE TOOLS, INC.

**CRB TOOL GRINDERS**

**CRB NIAGARA GRINDERS**

Equipped with Genuine Carborundum Wheels.

Best grade cast iron castings, malleable iron handle and clamp, spiral cut gears, enclosed casing, fitted with adjustable tool-grinding guide. Size 3 in. each 10 lbs. $7.50

CRB Twist Drill Attachment

The attachment is mechanically simple and its cost is so low that every mechanic should have one.

**No. P23 CRB**—Attachment is built expressly for Nos. N3 and N4 CRB Grinders, enables a wide range of drills to be accurately pointed, w't 13 lbs. $4.55

**ONE IN A BOX**

GRINDER FOOT POWER ATTACHMENT

Illustration shows attachment fitted to No. N4 CRB Grinder.

Made of malleable iron, is strong and durable and readily adjusted to several heights.

**No. 21**—Attachment to fit No. N4 CRB Grinders, w't each 5 lbs., $3.90

**No. 20**—Attachment to fit No. N3 CRB Grinder, w't each 5 lbs., $3.90

**ONE IN A BOX**

CRB GRINDER DISPLAY STANDS

**No. P31 CRB**—Height 45 in., 15 in. square at base, one center shelf 12 in. square, one shelf at top 10 in. square, w't knocked down 36 lbs., shipped free of charge with an order for three each Nos. N1 and N2, two each Nos. N3 and N4 or their equivalent, ten machines.

**No. P32 CRB**—Height 32 in., 12 in. square at base, shelf 12 in. square, w't knocked down 19 lbs., shipped free of charge with an order for two each Nos. N1, N2 and N3 and one No. N4 CRB Grinder or their equivalent, seven machines.

**ONE IN A BOX**

---

All goods branded CRB are guaranteed to be of highest quality material and workmanship and free from imperfections.
ROSE TOOLS, INC.

TOOL GRINDERS

ROSONC Tool Grinders are made in three sizes, designed to withstand constant and heavy work. The castings are of a good grade of gray iron. The gears are spiral machine cut, the pinions of steel, machine cut, surfaces between gear case and cover ground, making machine oil tight and dust-proof, the grinders are finished in Carborundum Wheels and practical tool rests.

ROSONC HOUSEHOLD GRINDERS

A small, compact grinder, suitable for the home, office, or wherever a light, portable sharpening machine is wanted.

**No. 44 ROSONC**—High grade cast iron castings, malleable iron handle and clamp, spiral machine cut gears, enclosed casings dust proof and oil tight, fitted with 4 x 1 x 3 in. carborundum wheel, fine grit, equipped with tool rest, w't 7 lbs. ... each $8.40

ONE IN A CARTON

A very practical grinder for household and light use. Is equipped with a special combination knife and shear guide, so that anyone, however inexperienced, can successfully sharpen knives and shears.

**Mechanical Construction**

Machine cut gears, high grade cast iron castings, malleable iron handle and clamp, enclosed casings, dust proof and oil tight.

**The Bearings** are extra wide and heavy, so as to give ample oil-retaining surfaces and long life.

**The Tool Guide** is especially designed to give the proper bevel to knives and shears.

**No. 33 ROSONC**—Equipped with 3 x 1/2 in. carborundum wheel of very fine grit and combination knife and shear guide, w't packed for shipment 3 lbs. ............... each $3.30

CRUSO

This size grinder is particularly adapted for Mechanics and Carpenters’ Tool Chests.

**No. 45 ROSONC**—High grade cast iron castings, malleable iron handle and clamp, spiral machine cut gears, enclosed casings dust proof and oil tight. Fitted with 5 x 1 in. carborundum wheels, medium grit, 1/2 in. arbor hole, guide for chisels, scissors and plane bit, w't 10 lbs., each $10.50

ONE IN A CARTON

A durable, quiet running and satisfactory grinder, combining many special features.

**No. 46 ROSONC**—Machine cut gears, high grade cast iron castings, malleable iron handle and clamp, enclosed casings, dust proof and oil tight, fitted with 6 x 1 in. wheels medium grit, 1 in. arbor hole, equipped with adjustable tool rest and guide for chisels, scissors and plane bit, w't 5 lbs., each $13.30

ONE IN A BOX

“BEST MAIDE”

This machine is built for hard service; every part of the wheel can be used in grinding. The worm gear is of iron and is cut from the solid blank on special designed machinery.

The swiveling device allows quick and accurate adjustment, horizontal or vertical, and holds the machine rigidly in any position.

All gears and shafts are of extra large diameter, with great wearing and oil-retaining surfaces. The entire mechanism is inclosed in a dust-proof casing, strictly oil tight, and ball bearings take up all end thrust.

**No. N51—“BEST MAIDE,”** bakelite japan finish, adjustable body so the wheel can be run either in the vertical or horizontal position, entirely enclosed cut worm gears, ball bearings making it quiet and easy running, fitted with adjustable tool rest.

Equipped with a 5 x 1/2 in. Carborundum wheel of medium grit, face with very fine grit so that grinding and finishing can be done with the same wheel, 1/2 in. arbor hole w't 11 lbs. ............... each $14.60

**No. 510—Extra Wheels, for N51 Best Maide Grinder, w't each 2 lbs each $3.30**

LOOSE
A useful farm grinder for tool and sickle sharpening. Made especially to take care of all general grinding on a farm, such as axes, scythes, chisels, plane bits, sickles, etc. This machine can be quickly attached to a mower wheel or bench and is exceptionally efficient as a general all-around farm grinder.

**Mechanical Construction**

The Drive Gear is large and accurately machine cut.

The Pinions are cut from solid steel blanks, large in diameter, giving long life and preventing springing.

The One-Piece Case is rigid and contains all of the bearings in the one piece.

The Bearings are extra wide, heavy and chambered for oil; long life and smooth action without vibration are guaranteed.

The Tool Rest may be used either as a tool or hand rest.

The Sickle Holding Attachment can be used on either side of the wheel and affords the most modern method of sharpening any size or make of sickle. The sharpening is done on the flat side of the wheel. The edge of the wheel is used to sharpen clear down to the bar. Any bevel, long or short, can be given to the sections.

The Clamp is heavy. The supports hold the machine to the table or slide to a stand, so that the machine can be clamped rigidly to a mower wheel or bench.

**No. N264C—Best Made**, steel worm shaft, cut steel gear, large wearing surfaces, enclosed and dust-proof parts, grinding wheel all one grip, single grip sharpening wheel 4"x11/2" in., also a beveled sickle sharpening wheel, shipping w't 18 lbs. ............ each $15.40

**ONE IN A BOX**

Simple, very compact, serviceable grinder. No oscillating parts or difficult adjustment. Grinding in full control of the operator, easy to sharpen every section, clamps to mower wheel or bench.

**No. N75—Spartan cog gear, 4½x1½ in., Carborundum tool grinding wheel, and barrel shaped wheel for sickles, wide bearings, high speed, w't 17 lbs. ............ each $9.45**

**ONE IN A FIBRE CASE**

---

**Our reputation founded on over sixty-seven years' business stands back of the GUH brand.**

All goods branded GUH are guaranteed to be of highest quality material and workmanship and free from imperfections.

In selling GUH articles there is a profit for you and satisfaction to your customers.

**No. N182C—Equipped with one barrel-shaped carborundum wheel, compact, efficient, clamps anywhere, shipping w't 22 lbs. .......... each $8.00**

**ONE IN A FIBRE CASE**

---

**EXTRA WHEELS**

**No. 1—Carborundum barrel shape, for No. N75 GUH sickle and No. N182C Grinders, w't 2 lbs. .......... each $3.60**

**LOOSE**
**Foot Power Tool Grinder**

No. N271C—An unequalled foot-power grinder, all-metal frame, shaft drive, beveled gears, fully enclosed. The upper transmission is by ball bearings and a machine cut worm gear and shaft, both being extra heavy. The head containing the grinding wheel shaft may be turned to any desirable angle. Two foot-pedals, bicycle type, adjustable metal seat. Regular equipment consists of two work rests, which are adjustable, sickle and disc attachment and two Dino-Grit wheels one medium and one coarse, size 6 x 11 x 1. Height of machine over all 42 in., packed for shipment 75 lbs., each $35.00

**ONE IN A CRATE**

Sickle and Disc Sharpening Attachment.

Order Separately If Wanted.

 Grinding is done on the side face of either of the wheels, rest is adjustable to any angle and can be used on either side, will hold any disc from 14 to 25 in. in diameter, any bevel can be given to the disc and work done automatically or at the will of the operator.

No. 17A—With disc adjustment, w't each boxed 6 lbs. each $2.70

**Revonoc Railway Grinder**

No. N175

A heavy, powerful machine, made to stand up under great abuse. Equipped with a medium grit Dino-Grit stone 7 x 14 in., which will sharpen the hardest steel without drawing the temper. A very strongly constructed hand power grinder designed for railroads and other heavy uses.

**Description of Attachments**

In the tooling attachments of the No. N175 Revonoc Railway Grinder, simplicity, ruggedness and at the same time accuracy, have been the first considerations. The working parts of the machine are machined and finished in gray enamel with good weather resisting properties.

Aside from the regular tool attachments, consisting of a sliding plane bit and chisel guide, and the jaws by drill sharpening attachment, we furnish, as special equipment, a flat drill sharpening attachment.

The three attachments are mountable and interchangeable on one tool post furnished with each machine. Mounting and operating is so simple that any workman can use them.

The Sliding Plane Bit and Chisel Guide attachment consists of a plain tool rest and also a clamp suitable for holding finely any flat tool. The holding device then can be moved backward and forward on the tool post, in a straight line, across face of wheel, producing an accurate bevel.

The Twist Drill Sharpening Attachment. Twist drills, ranging in sizes 1 to 14 inches, with cutting edge lying against a steel lip at the nose of the attachment. The adjustment of the drill in the "V" way is regulated by a screw operated stop, and the advance of the work against the grinding wheel is controlled by sliding the attachment along the tool post. The operation of grinding is merely that of swinging the "V" way about its mounting post.

The Flat Drill Sharpening Attachment in its general operation, is the same as that of the twist drill sharpening attachment, excepting that the flat drill is clamped between the jaws by a thumb screw. The process of grinding is the same as that of the twist drill sharpening attachment.

No. N175 Revonoc—Railway grinder, w't 39 lbs., each $21.00

**GRINDERS**

No. N310C

A very practical Power Bench Grinder, capable of taking care of all farm grinding and heavy machine work. Power can come from above, below or either side. This grinder is equipped with adjustable tool rests, adjustable bearings, spring oil cup, solid malleable iron frame tight and loose pulleys, one coarse and one medium Dino-Grit wheel. Cuts steel about ten times faster than ordinary, leaving a keen cutting edge without drawing the temper. Fully guaranteed. Wheels 7 x 11 x 1 in.

Nos. N390C N310C

No. of pulleys 1 2

W't each, lbs. 39 42

Each $18.90 $22.40

**ONE IN A BOX**

COMBINATION SICKLE AND DISC ATTACHMENT

Fits either the Nos. N310C or N300C models.

The disc attachment sharpens each blade separately. Easily adjusted for any size disc. Disc blade will automatically revolve when the handle on the attachment is raised.

No. 925AC—Attachment includes all the equipment for the above work each $4.90
ROSE TOOLS, INC.

**LAWN MOWER GRINDERS**

The ideal lawn mower grinder is the only practical machine on the market for sharpening the blades of lawnmowers. It will pay itself more quickly than any other investment one can make. It means increased business and increased for the repair man. The will sharpen all makes of perfectly in from 15 to 20 without removing the wheels from the real knife. Skates can be ground on the machine by clamping them in the attachment used when sharpening lawmower wheels. Travel one in a crate.

**MOUNTED GRINDSTONES**

**No. W12—Auto,** bolted hardwood frame, malleable iron fixtures. Ball bearing. Length 44 in., diam. of stone 22 to 24 in., thickness 2 to 2½ in., w't 70 to 80 lbs. W't complete 115 to 125 lbs. each $13.00 SHIPPED KNOCKED DOWN

**HERCULES**

Designed specially for railroad and New England trade, where a strong heavy article is required. Frame made of seasoned hardwood, with oil and varnish finish, strongly braced in all directions. Heavy bolts and washers. Furnished with crank, treadle, water trough and clothes protector. Extra heavy patent shaft and turn rollers furnished.

**Schofield's, Malleable Iron Fixtures, Wrought Steel Frame and Seat, Double Treadle, Front Shield. Length 30 in., diameter 19 to 22 in., thickness 1½ to 2½ in., w't of stone 50 to 60 lbs., w't complete 100 lbs.**

**No. W5—Plain Bearing,** each $12.80

**No. W5—Ball bearing,** each $13.30

**ONE IN A CRATE**

**No. W6 Cruso—Angle iron frame, ball bearing, painted black, w't of stone about 50 lbs., w't complete about 85 lbs.**

**KNOCKED DOWN AND WIRED TO CRATE.**

**SHIPPED KNOCKED DOWN**

**Nos. F201H F202H F203H F204H**

Diam. of stone, in. 24 24 26 26

Width of stone, in. 2 2 3 3

W't complete lbs. 180 180 200

Each $9.00 $9.50 $10.00

**Nos. F205H F206H F207H**

Diam. of stone, in. 28 30 30

Width of stone, in. 3 2 2

W't complete lbs. 225 200 265

Each $11.50 $11.00 $12.00

**Nos. F208H F209H F210H**

Diam. of stone, in. 32 34 34

Width of stone, in. 2 2 2

W't complete lbs. 275 250 325

Each $12.00 $12.00 $14.00

SHIPPED KNOCKED DOWN

* Items Marked Thus * Are Shipped from Factory Only.

* Numbers of larger dimensions than are regularly furnished with the different an extra charge will be made.
FAMILY GRINDSTONE

Improved ball bearing, fine, especially selected Berea grindstone, turned and rubbed smooth, mounted in extra heavy malleable iron trough on wood base, enameled blue, fitted with patent hub, steel shaft and steel ball bearings.

Can be shipped knocked down, can be set up or a new stone applied in a few minutes by anyone, no cement necessary.

Nos. .... R27 R28 R29
Diam. stone, in. ... 7 8 9
Wt. doz., lbs. ... 102 120 168
Per dozen .... $56.00 59.50 63.50
ONE IN A CARTON

LOOSE GRINDSTONES

Selected Stones.

No. W20—20 to 33 lbs,... per ton $115.00
No. F20—20 to 39 lbs,... per ton $95.00
No. W40—40 to 100 lbs,... per ton $110.00
No. F40—40 to 200 lbs,... per ton $90.00
No. F200—200 lbs. and over... per ton $100.00

Weights and sizes of loose grindstones.

20 12 to 14 2 to 3
30 14 to 16 2 to 3
40 17 to 19 2 to 3
50 20 2 to 3
60 22 2 to 3
70 24 2 to 3
80 26 2 to 3
90 28 2 to 3
100 30 2 to 3

SMALL GRINDSTONES OR LATHE STONES

Thickness 1 in. to 1½ in.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in.</td>
<td>$12.10</td>
</tr>
<tr>
<td>7 in.</td>
<td>$12.70</td>
</tr>
<tr>
<td>8 in.</td>
<td>$13.30</td>
</tr>
<tr>
<td>9 in.</td>
<td>$14.30</td>
</tr>
<tr>
<td>10 in.</td>
<td>$15.10</td>
</tr>
<tr>
<td>11 in.</td>
<td>$16.30</td>
</tr>
<tr>
<td>12 in.</td>
<td>$18.20</td>
</tr>
</tbody>
</table>

EXTRA PARTS FOR MOUNTED GRINDSTONES

No. 30—Shafts and nuts for Nos. 11, 12 and 13 Auto, and REWNOC, each $1.50
No. 11—Shafts and nuts for No. W5 Schofield each $1.50
No. 7—Shafts and nuts for Nos. 1, 2 and 3 Sampson each $1.50
No. 56—Shaft bearings for No. W5 Schofield and REWNOC, per set $0.50
No. 57A—Shaft bearings for Nos. 11, 12 and 13 Auto per set $0.50
No. 58—Bushings or Hubs (2 and 3 complete) for Sampson, Schofield and Cruso per set $1.00
No. 55—Pitman bearings for Nos. 11, 12 and 13 Auto, REWNOC and Cruso each $0.30
No. 56A—Round steel balls for Pitman and shaft bearings, per set of nine $0.50
No. 59—Treadle Rods for REWNOC and Auto each $0.25
No. 54—Cranks for Nos. 11, 12 and 13 Auto and REWNOC each $0.30
No. 12—Cranks for Nos. W5 and W05 Schofield each $0.50
No. 1—Hand cranks for Nos. 1, 2 and 3 Sampson each $0.60

GRINDSTONE FIXTURES

Cast iron, japanned, double wheel, anti-friction covered bearings, two iron washers and adjustable nut.

Full half dozen boxes

Nos. .... T15 T17 T19 T21
Axle, in. ... 15 17 19 21
Wt. doz., lbs. ... 60 66 70 80
Per dozen $11.70 12.30 13.80 16.50
Less than box

Nos. .... 15 17 19 21
Per dozen $12.30 12.90 14.50 17.40
HALF DOZEN IN A BOX

No. 10—Extra cranks, per dozen $2.10
No. 117—Extra shafts with nuts, 17 in., per dozen $6.20
No. 20—Extra nuts for common grindstone shafts, per dozen $0.80
No. 25—Extra flanges or washers, per dozen $0.70

BALL BEARING GRINDSTONE FIXTURES

Richard's, ball bearing journals, adjustable metal shafts, suitable for stones 2 to 3 in. thick, weighing from 50 to 100 lbs., fitted with ball bearing treadle arm for foot power and hand crank, wt. per doz. sets 85 lbs.

No. T100—Full dozen case, per dozen sets $33.00
No. 100—Less than dozen case, per dozen sets $36.00
ONE DOZEN IN A CASE

Items Marked Thus ★ Are Shipped From Factory Only.
ROSE TOOLS, INC.

W O O D  F R A M E

Frames made of seasoned hardwood, braced in every direction, firmly anchored together. 12-in. pulley furnished with all sizes of wood power will substitute required size furnished at actual difference in price.

- F220P  F225P  F230P
- 30  32  36

- $55.70  $65.30  $77.00

F A R M E R S  S P E C I A L

Farmers' need is speed and economy. Has hand crank so it may be used in an emergency. Steel frame, wood shaft, hard wood, strong, heavy. A 7-in. pulley, hardened steel bearings, foot treadle with ball bearings on crank, stone 3 in. in diameter, 2 to 3 in. thick, each $23.00

E M P I R E

Made from most needs of farmers, powered by gasoline engine. Non-regular pattern of stone, steel shaft, roller bearing.

- Empires 24 in. in and 12 in. in thick, shipping weight 225 lbs. each $40.00

O N E  I N  A  C R A T E

- Items Marked Thus * Are Shipped From Factory Only

P O W E R  G R I N D S T O N E S

- Keystone Iron Frame

Trough thick, heavy cast iron, legs securely bolted to frame. Adjustable tool rest with drip pan. 12-in. pulley furnished with all sizes; required size furnished at actual difference in price.

- Nos. F508K F506K
- Size of stone in. .50 x 1 1/2 to 6
- Size of shaft at
  Bearings, in. 1 1/2 1 1/2
- Wt. packed, lbs. 1975 1650
- Each $160.00* $140.00*

- No. F488K
- Size of stone, in. 48 x 1 1/2 to 6
- Wt. packed, lbs. 1850
- Each $150.00*

- No. F486K F485K
- Size of stone, in. 48 x 1 1/2 to 6 48 x 1/2 to 5
- Size of shaft at
  Bearings, in. 1 1/2 1 1/2
- Wt. packed, lbs. 1600 1450
- Each $136.00* $120.00*

- No. F406K
- Size of stone, in. 40 x 1 1/2 to 6
- Wt. packed, lbs. 1050
- Each $102.00*

- No. F405K F366K
- Size of stone, in. 40 x 1 1/2 to 6 36 x 3 to 6
- Size of Shaft at
  Bearings, in. 1 1/2 1 1/2
- Wt. packed, lbs. 900 900
- Each $88.00* $88.00*

- No. F365K
- Size of stone, in. 36 x 1 1/2 to 6
- Wt. packed, lbs. 875
- Each $84.00*

- No. F364K F303K
- Size of stone, in. 36 x 3 30 x 3
- Size of shaft at bearings, in. 1 1
- Wt. packed, lbs. 825 450
- Each $78.00* $45.00*

- No. F304K
- mounted 225 lbs. each $36.25

- No. F303K F302K
- Size of stone, in. 30 x 3 30 x 3
- Size of shaft at bearings, in. 1
- Wt. packed, lbs. 450 425
- Each $74.00* $73.00*

- No. F300K
- mounted 225 lbs. each $36.25

- No. F303K F302K
- Size of stone, in. 30 x 3 30 x 3
- Size of shaft at bearings, in. 1
- Wt. packed, lbs. 450 425
- Each $74.00* $73.00*

- No. F300K
- mounted 225 lbs. each $36.25

- No. W800—Regular, which includes steel frame, stone 24 in. in diam. and 2 in. thick, 12 x 2 in. pulley, hand crank and drip cup, w/t each 125 lbs. each $17.80

- No. W301—Complete with trough, threadle, pitman and bearing, w/t each 149 lbs. each $21.20

A B O V E, O N E  I N  A  C R A T E

The frame folds, and it is only necessary to attach one end of each of the four side braces to set up. It is constructed of heavy 14 x 14 x 3/4 in. angle steel, and is handsomely painted green and black. Can be set up in a few minutes without instructions. Bolted bearings made from cold rolled steel, industry, the only cheap power stone with bearing of this type. Frame knocked down; stone canted.

- No. W800—Regular, which includes steel frame, stone 24 in. in diam. and 2 in. thick, 12 x 2 in. pulley, hand crank and drip cup, w/t each 125 lbs. each $17.80

- No. W301—Complete with trough, threadle, pitman and bearing, w/t each 149 lbs. each $21.20

A B O V E, O N E  I N  A  C R A T E
ROSE TOOLS, INC.

REYNOC PAPERS

REYNOC FLINT PAPER

Finest pure rope manila paper backing, extra tough and flexible glue, carefully graded abrasive coating, thoroughly seasoned in sheets 9 x 11 in.

Nos. 000 000 00
Wt., ream, lbs. 16 17 19
Per ream $7.50 8.00 8.30

Nos. 0 1-2 1
Wt., ream, lbs. 22 23 32
Per ream $9.00 9.80 11.00

Nos. 1/2 2 2 1/2
Wt., ream, lbs. 33 41 47
Per ream $13.00 15.00 15.00

Nos. 3 3 1/2 4
Wt., ream, lbs. 53 60 70
Per ream $15.00 16.00 16.00

Assorted Nos. 00 to 3, each 1/2 ream containing one quire each Nos. 00, 0, 1/2, 2, 2 1/2, 3 and two quires each Nos. 1 and 1 1/2, w/t per ream 33 lbs.
Per ream $13.00
We cannot supply assorted sheets to the quire.

HALF REAM IN A BUNDLE

MARICOPA FLINT PAPERS

Maricopa Flint Paper
3/4 x 10 1/2 in. Sheets

Good fibre paper, selected glue and carefully graded Quartz coating, sheets 3/4 x 10 1/2 inches.

Nos. 000 000 00
Wt., ream, lbs. 15 16 17
Per ream $7.00 7.50 8.10

Nos. 1 1 1/2 2
Wt., ream, lbs. 19 21 27
Per ream $8.80 10.00 11.70

Nos. 2 2 1/2 3
Wt., ream, lbs. 31 40 44
Per ream $13.50 13.50 13.50

Assorted Nos. 00 to 3, each 1/2 ream containing one quire each Nos. 00, 0, 1/2, 2, 2 1/2, 3 and two quires each Nos. 1 and 1 1/2, w/t per ream 27 lbs.
Per ream $11.70
We cannot supply assorted sheets to the quire.

HALF REAM IN A BUNDLE

ALOXITE CLOTH

In Sheets 9 x 11 Inches, in Reams.

Aloxite is an artificial abrasive, the product of a special bauxite clay, treated in the electric furnace at a temperature of 3000 degrees Fahrenheit; the Aloxite grains are much harder and tougher than emery, and will cut metal quickly and easily, leaving a super finish.

Aloxite cloth is made with the greatest care, the grains being thoroughly cleaned, graded and coated on the best quality of brown drill by improved process. The glues used are the purest and best quality obtainable, and as a result Aloxite cloth is uniformly coated, durable and flexible.

Nos. 600 60 60
Grit, Nos. 2-0 0 0
Wt., ream, lbs. 32 35 42
Per ream $57.00 57.00 59.30

Nos. 61 61 1/2 62
Grit, Nos. 1 1 1/2 2
Wt., ream, lbs. 44 49 54
Per ream $62.20 65.20 69.30
QUARTER REAM IN A PACKAGE

REYNOC EMERY CLOTH

Finest heavy woven twill cloth backing, extra tough and flexible glue, carefully graded pure emery abrasive coating, thoroughly seasoned, in sheets 9 x 11 inches.

Nos. 00 0 1-2
Grade emery 150 120 90
Wt., ream, lbs. 31 34 41
Per ream $50.00 50.00 53.00

Nos. 1 1 1/2 2
Grade emery 80 70 60
Wt., ream, lbs. 45 49 53
Per ream $55.70 58.30 62.00

HALF REAM IN A PACKAGE

REYNOC CROCUS CLOTH

Crocus, w/t per ream 24 lbs.

Nos. Nos. 00 0 1-2
Grade emery 80 70 60
Wt., ream, lbs. 40 44 46
Per ream $19.00 21.80 25.20
QUARTER REAM IN A PACKAGE

In Economy Rolls, 50 Ft. Long.
The handiest form for use in shop or garage, prevents waste, and is always ready for use.

1 INCH WIDE

Nos. 6100 610 610 1/2
Grit, Nos. 00 1 1 1/2
Wt. per roll, lbs. 13 2 3 4
Per roll $4.10 4.20 4.80

1 1/2 INCHES WIDE

Nos. 6150 615 1/2 615 1/2
Grit, Nos. 00 1 1 1/2 2
Wt. per roll, lbs. 21 3 5 6
Per roll $5.50 5.75 6.40

2 INCHES WIDE

Nos. 6200 620 620 1/2
Grit, Nos. 00 1 1 1/2 2
Wt. per roll, lbs. 3 4 5 6
Per roll $6.80 7.20 8.00
LOOSE
**ABRASIVE PAPER AND CLOTH, IN ROLLS**

**FIRST QUALITY FLINT PAPER**

Narrower than 24 in. size must be ordered in quantities sufficient to use up full rolls of sizes 24 in. or larger. For example: 24 in. is a regular size, but we can furnish 8 in. if three rolls of 8 in. are ordered, which will cut, without waste, from the single 24 in. roll.

Per Roll, 50 Yards Long.

<table>
<thead>
<tr>
<th>No.</th>
<th>F 1/4</th>
<th>F 1/2</th>
<th>F 1</th>
<th>F 2</th>
<th>F 2 1/2</th>
<th>F 3</th>
<th>F 3 1/2</th>
<th>F 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 in.</td>
<td>0.50</td>
<td>0.35</td>
<td>0.55</td>
<td>0.58</td>
<td>0.63</td>
<td>0.64</td>
<td>0.67</td>
<td>0.70</td>
</tr>
<tr>
<td>1/2 in.</td>
<td>0.70</td>
<td>0.60</td>
<td>0.80</td>
<td>0.85</td>
<td>0.90</td>
<td>0.95</td>
<td>1.00</td>
<td>1.05</td>
</tr>
<tr>
<td>1 in.</td>
<td>1.10</td>
<td>1.00</td>
<td>1.30</td>
<td>1.45</td>
<td>1.55</td>
<td>1.65</td>
<td>1.80</td>
<td>1.95</td>
</tr>
</tbody>
</table>

Widths not listed will be charged at the price of the next greater width.

**FIRST QUALITY GARNET PAPER**

Narrower than 9 in. sizes must be ordered in quantities sufficient to use up full rolls of sizes 9 in. or larger. For example: 9 in. is a regular size, but we can furnish 3 in. if three rolls of 3 in. are ordered, which will cut, without waste, from the single 9 in. roll.

Per Roll, 50 Yards Long.

<table>
<thead>
<tr>
<th>No.</th>
<th>F 1/4</th>
<th>F 1/2</th>
<th>F 1</th>
<th>F 2</th>
<th>F 2 1/2</th>
<th>F 3</th>
<th>F 3 1/2</th>
<th>F 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 in.</td>
<td>1.00</td>
<td>0.70</td>
<td>1.00</td>
<td>1.05</td>
<td>1.10</td>
<td>1.15</td>
<td>1.20</td>
<td>1.25</td>
</tr>
<tr>
<td>1 in.</td>
<td>1.45</td>
<td>1.15</td>
<td>1.40</td>
<td>1.50</td>
<td>1.55</td>
<td>1.60</td>
<td>1.65</td>
<td>1.70</td>
</tr>
<tr>
<td>1 1/4 in.</td>
<td>2.00</td>
<td>1.50</td>
<td>2.00</td>
<td>2.15</td>
<td>2.20</td>
<td>2.25</td>
<td>2.30</td>
<td>2.35</td>
</tr>
<tr>
<td>1 1/2 in.</td>
<td>2.55</td>
<td>2.05</td>
<td>2.50</td>
<td>2.75</td>
<td>2.85</td>
<td>2.90</td>
<td>2.95</td>
<td>3.00</td>
</tr>
</tbody>
</table>

Widths not listed will be charged at the price of the next greater width.

**TABLE OF WEIGHTS OF FLINT PAPER IN ROLLS**

<table>
<thead>
<tr>
<th>Grade of Emery</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>600</th>
<th>800</th>
<th>1000</th>
<th>1200</th>
<th>1400</th>
<th>1700</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1 to 2</td>
<td>20</td>
<td>30</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>120</td>
<td>140</td>
<td>170</td>
</tr>
<tr>
<td>No. 1 1/2</td>
<td>25</td>
<td>35</td>
<td>45</td>
<td>65</td>
<td>85</td>
<td>105</td>
<td>125</td>
<td>145</td>
<td>175</td>
</tr>
<tr>
<td>No. 2</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>70</td>
<td>90</td>
<td>110</td>
<td>130</td>
<td>150</td>
<td>180</td>
</tr>
<tr>
<td>No. 3</td>
<td>35</td>
<td>45</td>
<td>55</td>
<td>75</td>
<td>95</td>
<td>115</td>
<td>135</td>
<td>155</td>
<td>185</td>
</tr>
<tr>
<td>No. 4</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>120</td>
<td>140</td>
<td>160</td>
<td>190</td>
</tr>
</tbody>
</table>

Garnet paper weighs considerably more than Flint, running from 26 to 120 lbs. on 24 in., as compared with 23 to 78 lbs. on 24 in. Garnet and Flint cloth weigh approximately the same as paper. Emery paper and cloth weigh about 42 lbs. per roll.
**Nail Pullers**

**Eclipse**
Box Joint—Round Rod

The best popular priced puller made. Rammer has octagon head. Prevents rolling. Polished Jaws; round ram- mers, japanned.

No. 91—Giant pattern, 18 in., w/t per doz. 57 lbs. . . . per dozen $22.00
THREE DOZEN IN A BOX

**Giant**
Box Joint with Hand Guard

The box joint keeps the Jaws in perfect alignment. The hand guard prevents pinching the hand. Jaws open by gravity. Polished long and short jaws, octagon rammer, japanned.

Nos. .......... 1 1
Inches .......... 17 18
W/t doz., lbs. . . . 42 60
Per dozen .......... $28.50 31.50
THREE DOZEN IN A BOX

**Box Chisels**

High carbon tool steel, satin finish, flat head.

No. 2 Everlast—In. 10 12 14
W/t per doz., lbs. 7 113 17
Per dozen .......... $7.00 7.60 7.50
ONE DOZEN IN A BOX

**Crate Openers**

This is a tool of quality and durability.

No. 3 Everlast—One piece, 9 in., nickel plated, forged from high grade carbon tool steel, w/t per doz. 10½ lbs. . . . . per dozen $19.50
HALF DOZEN IN A BOX

Forged from good material and does the work.

No. 328 Everlast—One piece, 9 in., drop forged steel square head, satin finish, face and claw polished, w/t per doz. 11 lbs. . . . per dozen $15.50
ONE DOZEN IN A BOX

**Box and Wood Scrapers**

No. 60—Triangular, solid steel, wood handle, 2¼ in. cutter, length 11 in., w/t per doz. 7½ lbs., per dozen . . . . $10.50
HALF DOZEN IN A BOX

No. 16 Everlast—Solid steel, hard wood handle, 2¼ in. cutter, length 11½ in., w/t per doz. 9 lbs., per dozen . . . . $13.00
HALF DOZEN IN A BOX

No. 70—Malleable iron, adjustable steel blade, 2 in. cutter, wood handle, length 12 in., w/t per doz. 12 lbs., per dozen . . . . $18.00
Extra blades, for No. 70, per dozen . . . . $3.50
HALF DOZEN IN A BOX

No. 280—Double handle, solid steel blade, 4½ in. cutter, w/t per doz. 9 lbs. . . . per dozen $18.50
HALF DOZEN IN A BOX

**Handy Tool Bars**

No. 25—Octagon steel, polished point and claw, length 12 in., diam. 1 in., w/t per doz. 10 lbs., per dozen . . . . $4.00
HALF DOZEN IN A BOX

The screw press has the follower attached to the screw and is taken up with the screw after the barrel is headed.

No. N10—Cruso, with hardwood head, piece 21 in. long, 3½x2 in. stock, 1 in. steel screw 8 in. long with malleable fittings; 14x1 in. hickey handle; hardwood follower piece, 14 in. long by 1 in. thick; steel side clamp bars 36 in. long, 1½ in. stock, braced and bolted, height over all closed, 39 in., w/t per doz. 172 lbs., per dozen . . . . $38.00
LOOSE

**Bung Borers**

Cast steel, tempered, polished blades with round lip bit.

The Everlast bores a regular tapered round hole, holding its own chip preventing them from entering the cask. It is tempered to cut in a kind of wood and the round lip assures smoothness in boring.

No. 10 Everlast—Bores from 8 to 1½ in., w/t per doz. 18 lbs., per dozen . . . . $60
No. 20 Everlast—Bores from 1½ to 2 in., w/t per doz. 20 lbs., per dozen . . . . $64
WASH APRONS
Useful for many purposes, while repairing car on the road, cleaning machine, etc. Made of superior quality rubber cloth. Will be found a most useful article by automobilists.

No. 85-Medium weight, heavily rubber coated, w't each 2 lbs., each $3.00

HALF DOZEN IN A PACKAGE

CARPENTER APRONS

BOX OR HAY HOOKS
An extra heavy hay hook.
No. 65—All steel, 7½ x ¾ in., extra cast steel, with large loop for hand, w't per doz. 12 lbs., per dozen $7.20

HAY OR COTTON HOOKS
No. 6 CVD—6 x ½ in., hexagon oil tempered tool steel, flattened shank, natural oval oiled hardwood handle, w't per doz. 6 lbs., per dozen $7.20
No. 44 CVD—6 x ½ in., extra oil tempered tool steel, polished shank, natural oiled hardwood oval handle, w't per doz. 6 lbs., per dozen $7.60

BOX HOOKS
Hexagon tool steel, oil tempered flattened shank, oval natural oiled hardwood handle.
Nos. CVD
Size, in. 8 x ⅜ 10 x ⅜
W't, per doz., lbs. 7½ 9
Per dozen $6.80 8.30
ONE DOZEN IN A BOX

Hay Hooks
No. 62 CVD—7½ x ⅜ in., hexagon oil tempered tool steel, flattened polished shank, natural oiled hardwood oval handle, w't per doz. 6 lbs. $7.00
No. 63 CVD—7½ x ⅜ in., extra tool steel, polished shank, natural oiled handle, w't per doz. 6½ lbs., per dozen $8.00
ALL ABOVE ONE DOZEN IN A BOX

ROSE TOOLS, INC.
**Concrete Tools**

**Brick Chisels and Sets**

Solid forged steel, 4 inch octagon Shank, polished head and blade, length over all about 7 inches.

- **No. 55—Sets, single bevel, 4 in.**
  - per doz. $17.00
  - HALF DOZEN IN A BOX

- **No. 75—Chisels, double bevel, 4 in.**
  - per doz. $14.40
  - HALF DOZEN IN A BOX

**Abrams Jointers**

- **No. 20—Nickel iron, 10 x 3 3/4 in., double action, 6 ft. handle, w't each 6 lbs.**
  - each $18.00
  - LOOSE

**Rey-O-No Star Drills**

Made of tough high carbon octagon steel, hand forged, ground to size, tempered in oil and slightly drawn to color, polished wings and head.

- **No. 11**
  - per doz. $48.00
  - LOOSE

- **No. 22**
  - per doz. $56.00
  - LOOSE

**Finishing Trowels**

- **No. 1—Silver steel, 24 x 6 in., double action, 6 ft. handle, w't each 6 lbs.**
  - each $13.00
  - LOOSE

- **No. 2—Silver steel, 16 x 5 in., double action, 6 ft. handle, w't each 6 lbs.**
  - each $12.00
  - LOOSE

**Edgers**

- **No. 30—Nickel iron 10 x 3 3/4 in., double action 6 in. Form face, at 1/2 in. radius 6 ft. handle, w't 6 lbs.**
  - each $16.00
  - LOOSE

**Sidewalk Tamper**

Steel plate, malleable riveted socket, 4 foot, squared plain end, wood handle.

- **N4—Extra Handles,**
  - per dozen $5.60

**One-piece, reinforced cast plate and socket, 4 foot round slotted end, wood handle.**

- **N30—Extra Handles,**
  - per dozen $5.60

**Beading Tools**

Polished cold drawn steel, milled true to gauge, length 83 in., one end concave and the other convex.

- **Nos.**
  - 140 130 120
  - Size, in. 4 3 2
  - W't per doz., lbs. 8 3 2
  - Per dozen $9.00

**Pointing Tools**

- **No. 60—8 in. long, one end round for concave mortar joints, one end square for diamond joints tool steel, polished and tempered, w't per doz.**

- **No. 402—8 in. long, one end round for concave mortar joints, one end square for diamond joints tool steel, polished and tempered, w't per doz.**

**Rey-O-No Star Drills**

We Stand Behind the Brand.
CEMENT AND SIDEWALK TOOLS

Made of Close Grained Cast Iron, Well Polished, with Waxed Maple Handles.

JOINTERS

These jointers are for grooving between the sections of a concrete walk, cutting a groove ½ in. deep, ½ in. wide.

No. 10—Iron, 6x2 in., both ends curved, w't per doz. 11½ lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

SIDEWALK GROOVERS

No. 13—Iron, 6x3 in., both ends curved, w't per doz. 15 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

Groovers make a cut ½ in. deep and ½ in. wide. Used for drainage grooves or to prevent slipping.

No. 14—Iron, 6x3 in., one end straight, w't per doz. 14 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

SIDEWALK EDGERS

Nos. 01 02

Size, in. 6x22 6x22

Radius, in. 2 2

Depth, in. 2 2

W't per doz., lbs. 16 17

Per dozen $7.60 8.70

SIXTH DOZEN IN A CASE

Edgers are used for finishing and slightly rounding the edges of cement walks, to prevent slipping.

No. 01N—Iron, 8x1¾ in., radius 2 in., depth 2 in., w't per doz. 13½ lbs., per dozen $8.70

SIXTH DOZEN IN A CASE

CURBING EDGERS

No. 18—Iron, 8x1¾ in., both ends curved, w't per doz. 16 lbs., per dozen $7.60

SIXTH DOZEN IN A CASE

For finishing curbs, copings, etc., giving a full rounded edge.

No. 22—Iron, 6½x3½ in., radius 1 in., depth 1½ in., w't per doz. 22 lbs., per dozen $16.70

SIXTH DOZEN IN A CASE

SQUARE EDGERS

No. 21—Iron, 6x3 in., radius ¾ in., depth 1 in., w't per doz. 17 lbs., per doz. $12.00

SIXTH DOZEN IN A CASE

For finishing steps and all right angled corners.
ROSE TOOLS, INC.

**BRICK TROWELS**

**WIDE HEEL**, forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3010</td>
<td>10</td>
<td>6</td>
<td>$14 1/2</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

**PHILADELPHIA PATTERN**, forged from high grade trowel steel, tempered, ground and polished; hardwood handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3011</td>
<td>11</td>
<td>6 1/2</td>
<td>$15 1/2</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

**ROSE'S Philadelphia pattern**, cast steel blade, solid shank, steel ferrule, maple handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3411</td>
<td>10</td>
<td>5</td>
<td>$13 1/2</td>
<td>$28.00</td>
</tr>
</tbody>
</table>

**CHICAGO PATTERN**, forged from high grade trowel steel, tempered, ground and polished; leather wound handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3210</td>
<td>10</td>
<td>6</td>
<td>$14 1/2</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

**DISSTON'S cast steel polished blade**, steel ferrule, gum-wood handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>5010</td>
<td>10</td>
<td>6</td>
<td>$15 1/2</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

**CRUSO, Philadelphia pattern**, forged from special steel, tempered, ground and polished; hard wood handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3710</td>
<td>9</td>
<td>5</td>
<td>$10 1/2</td>
<td>$16.00</td>
</tr>
</tbody>
</table>

**CRUSO, Philadelphia pattern**, forged from special steel, tempered, ground and polished; hard wood handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3711</td>
<td>11</td>
<td>5</td>
<td>$10 1/2</td>
<td>$16.00</td>
</tr>
</tbody>
</table>

**JOEY (No. 215)**, blade 5 in. wide, at heel 3 1/2 in., w't per doz. 35 lbs.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>215</td>
<td>5 1/2</td>
<td>2</td>
<td>$31.00</td>
<td>$16.00</td>
</tr>
</tbody>
</table>

**CRUSO**, Philadelphia pattern, forged from special steel, tempered, ground and polished; hard wood handle.

<table>
<thead>
<tr>
<th>Nos.</th>
<th>Blade, in.</th>
<th>Width at heel, in.</th>
<th>Wt per doz., lbs.</th>
<th>Per dozen</th>
</tr>
</thead>
<tbody>
<tr>
<td>3711</td>
<td>11</td>
<td>5</td>
<td>$10 1/2</td>
<td>$16.00</td>
</tr>
</tbody>
</table>
MISCELLANEOUS PLASTERING TOOLS

PLASTERER'S HAWKS

Wood.
Made of one piece clear seasoned redwood, fitted with dovetailed cross brace to prevent warping; brass flange fastened under cross brace and tapped for handle which is detachable.

No. 11—Marshalltown, 13½ x 13½ in.,
w't per doz. 26 lbs.,
per dozen ........................................... $21.00
THIRD DOZEN IN A BOX

Marshalltown Aluminum.
Made from hard rolled aluminum, 12 gauge with smooth straight edges; aluminum flange with brass nut tapped for handle which is detachable.

Equipped with rubber cushions the purpose of this is to protect the operator from callouses.

Nos. .......... 21 22 23
Sizes in. ....... 13 x 13 13½ x 13½ 14 x 14
W't, doz., lbs. 20 22 24
Per dozen ...... $52.80 54.40 56.00
QUARTER DOZEN IN A BOX

PLASTERER'S FLOATING CORKS

Made from one thickness of cork, carefully smoothed on both sides.

Nos. .......... 5 6
Size, in. ........... 12 x 6 x 1¼ 12 x 6 x 1¼
W't per doz., lbs. 6 7
Per dozen ........ $15.00 16.00
LOOSE

CORNER TROWELS

No. 70 GVE—8 in., made of special steel, full polished; 88 degree angle, with sharp corner; bronzed mountings and cherry finished handle, w't per doz. 10½ lbs., per dozen $16.50
HALF DOZEN IN A BOX

TOOL BAGS

For masons or plasterers, steel frame, with lock and key, leather handles, billets and buckle pieces riveted to frame, large inside pocket.

24 oz. duck sewed on lock stitch machine.

Nos. .......... 1918 1920
Inches .......... 18 20
W't per doz., lbs. 31 36
Per dozen ...... $76.80 80.00
ONE DOZEN IN A PACKAGE

IMITATION TILE AND BRICK MARKERS

No. 2—Marshalltown, size 3½ x 4¼ in.,
made from 8 gauge aluminum; equipped with one handle and 18 in. rib, w't per doz. 30 lbs.,
per dozen ........................................... $57.60
HALF DOZEN IN A CASE

No. 1—Spring steel, polished; hardwood handle ........... per dozen $8.30
½ LB. A DOZEN
HALF DOZEN IN A BOX

DARBIES

No. 6—Size 8 x 4¼ in., made from clear redwood, equipped with one handle and 12 in. rib, w't per doz. 15 lbs.,
per dozen ........................................... $12.00
HALF DOZEN IN A CASE

No. 1—Spring steel, polished; hardwood handle ........... per dozen $8.30
½ LB. A DOZEN
HALF DOZEN IN A BOX

No. 7—Size 5 x 12 in., made from one thickness of cork, carefully smoothed and cemented on wood block with handle, w't per doz. 18 lbs.,
per dozen ........................................... $19.60
ONE IN A BOX, ONE DOZEN IN A CASE

The groove on this marker is gauged to the proper depth, cuts both ways as to cut into corners.

No. 1—Spring steel, polished; hardwood handle ........... per dozen $8.30
½ LB. A DOZEN
HALF DOZEN IN A BOX