Introduction

The Lufkin Rule Company for over forty years has made Measuring Devices. It has steadily grown and has become the world’s largest manufacturer in this line.

This company has been the pioneer in the development of many of its products, and the leader in the noteworthy improvements in its field over that whole period. Its goods are sold in all markets. The organizers of the original company are the heads and in active charge of the corporation of today.

The Lufkin Rule Co.
This catalog represents the developments of over forty years in Measuring Instruments and kindred lines by The Lufkin Rule Company.

Not only in America, but wherever measurements are taken, our goods are the recognized standard of accuracy.

We are prepared to mark our Tapes, Rules, etc., in the regular measurements of all countries.

They have established and maintain the highest standards of quality.

Our lines of Tapes and Rules are most complete; we have been leaders always in the development of new items and improvement of the old to properly meet the needs of the consumer. We offer the best of service.

The goods and the progressive general policies of The Lufkin Rule Company have made it the world's largest manufacturer of Measuring Devices.

The manufacture of Fine Mechanical Tools, in the Small Tool Division, is our latest development. We have entered into this in a large way and aim to make each tool the best of its kind on the market. The distinctive organization of this Division is described in Section Three of this Catalog.

All goods are made complete in our own plants. Raw materials are selected and tested to assure their being best for the purpose; skilled mechanics are employed in the manufacture; and parts, as well as completed articles, are thoroughly inspected. Special attention is given to packing.

LUFKIN goods are carried in stock by jobbers, by hardware and supply dealers, tool stores, engineering, technical and professional supply houses, stationery and other stores in all parts of the world.

Quite apart from our regular stock goods, we make Tapes and Rules with customer's advertising upon them. For details of this Advertising Specialty Line and its separate Catalog, see last pages of this book.
Section One

STEEL MEASURING TAPES

Section Two

WOVEN MEASURING TAPES

Section Three

MECHANICAL TOOLS
(Small Tool Division)

Section Four

BOXWOOD RULES

Section Five

SPRING JOINT RULES

Section Six

MISCELLANEOUS WOOD RULES
ET CETERA

Section Seven

LUMBER RULES
ET CETERA

OUR Steel Tapes are universally recognized as the standard of accuracy, and are a most highly developed and specialized line. We make them in patterns and grades, lengths and graduations best suited to every need.

The lines are of highest grade tape steel, specially rolled for the purpose. Among other features they have Instantaneous Readings and "Nubian" Finish, described below. The cases, frames and reels are of most approved construction, sturdy and reliable.

LUFKIN Steel Tapes are made to bench standards certified accurate by the United States Bureau of Standards, Washington, D. C., which Bureau, for a nominal fee, will test and issue report on any tape, showing its tension and temperature of accuracy. (Such Government test we recommend for tapes to be used on very precise work). The temperature standard for steel tapes is 68 degrees Fahrenheit (equal to 20 degrees centigrade). The coefficient of expansion of steel tapes as determined by the United States Bureau of Standards is 0.00000645 per degree Fahrenheit, amounting on a 100 foot tape to 0.00774 inch per degree. The standard tension for tapes of ordinary lengths when supported throughout is 10 lbs. avoirdupois (for metric tapes, 5 kilograms).

Instantaneous Readings

Our Steel Tapes have Instantaneous Readings, a great improvement in numbering, of which we are the originators. The above illustration conveys the idea. Briefly described, it is the last preceding foot number repeated at each inch or tenth throughout the tape, in small, yet easily read figures. This keeps the total reading directly before the eye, eliminates the chance of error in running back to the last foot, and saves time. The same system is used on our metric steel tapes.

"NUBIAN" FINISH

This is the standard finish of our Steel Tapes. It consists of a dead black background, against which the raised lines and figures in the natural steel color are in marked contrast, making them most legible. This finish wears and looks well, and resists rust.
### "RELIABLE" STEEL TAPES

**Instantaneous Readings.**  "Nubian" Finish.

**THE FINEST AND BEST TAPE IN THE WORLD**

This is a tape suitable for all general measuring work. It is made throughout of specially selected materials, and in design, construction and finish represents the best of our long experience in the making of tapes.

Line is distinctly marked. Case is of cordovan-brown genuine leather, handsomely finished. It is closely hand-stitched and has steel liner heavily brass plated. Trimmings are nickel plated. The winding handle is double-folding flush pattern, opened by pressing on opposite side. It has extension finger hold, affording most firm grip. Measurements guaranteed accurate.

### WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>200</th>
<th>201</th>
<th>202</th>
<th>203</th>
<th>204</th>
<th>205</th>
<th>206</th>
<th>207</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>Weight each, oz.</td>
<td>$6.00</td>
<td>$8.00</td>
<td>$10.00</td>
<td>$12.00</td>
<td>$15.00</td>
<td>$18.00</td>
<td>$21.00</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

Marked feet, tenths and hundredths of feet, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>200D</th>
<th>201D</th>
<th>202D</th>
<th>203D</th>
<th>204D</th>
<th>205D</th>
<th>206D</th>
<th>207D</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>Weight each, oz.</td>
<td>$6.00</td>
<td>$8.00</td>
<td>$10.00</td>
<td>$12.00</td>
<td>$15.00</td>
<td>$18.00</td>
<td>$21.00</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

### "RELIABLE" STEEL TAPES (HALF INCH WIDE)

**Instantaneous Readings.**  "Nubian" Finish.

**A TAPE OF THE HIGHEST GRADE AND EXTRA DURABILITY**

Like the "Reliable" tapes of other widths, this one stands foremost among all measuring tapes. It is made from most choice materials and by the best methods known.

This line, being ½ inch wide, has extra durability. Its markings are clear and very legible. The cordovan-brown genuine leather case is closely hand-stitched and nicely finished. It has heavily brass plated steel liner and all trimmings are nickel plated. The double-folding flush handle is opened by pressing on opposite side and has extension finger hold, giving a firm grip for winding. Measurements guaranteed accurate.

### WITH ONE-HALF INCH TAPES

Marked feet, inches and 8ths of inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>300</th>
<th>301</th>
<th>302</th>
<th>303</th>
<th>304</th>
<th>305</th>
<th>306</th>
<th>307</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length feet</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>Weight each, oz.</td>
<td>$6.00</td>
<td>$8.00</td>
<td>$10.00</td>
<td>$12.00</td>
<td>$15.00</td>
<td>$18.00</td>
<td>$21.00</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

Marked feet, tenths and hundredths of feet, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>300D</th>
<th>301D</th>
<th>302D</th>
<th>303D</th>
<th>304D</th>
<th>305D</th>
<th>306D</th>
<th>307D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length feet</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>Weight each, oz.</td>
<td>$6.00</td>
<td>$8.00</td>
<td>$10.00</td>
<td>$12.00</td>
<td>$15.00</td>
<td>$18.00</td>
<td>$21.00</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

### MARKED METRIC AND ENGLISH

One side metric (first decimeter in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>200</th>
<th>201</th>
<th>202</th>
<th>203</th>
<th>204</th>
<th>205</th>
<th>206</th>
<th>207</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length metres</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>Weight each, oz.</td>
<td>$6.00</td>
<td>$8.00</td>
<td>$10.00</td>
<td>$12.00</td>
<td>$15.00</td>
<td>$18.00</td>
<td>$21.00</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

### PACKING: One in a box

**NOTE**—We no longer regularly list "Reliable" tapes marked lines on back, as this graduation is not extensively used. The prices of No. 200 and No. 200D series tapes above are reduced accordingly. If lines on back are wanted, add 1c per foot to above list prices. Specify as "200L" or "200DL", etc.

"Reliable" tapes marked feet, inches and 8ths, price, 5% extra.
"RELIABLE" STEEL TAPES (EXTRA WIDE)

EXTRA STRENGTH AND LARGE, MOST LEGIBLE FIGURES
ARE FEATURES OF THESE WIDE TAPES

These are the widest steel tapes we make. Being "Reliable" brand, they are of the very finest materials and construction. While in thickness identically same as the tapes on previous pages, the greater width gives these lines more body. It also accommodates larger figures. The cases are of cordovan-brown genuine leather, closely hand-stitched and well finished. They have heavily brass plated steel cases and nickel plated trimmings. Double-folding flush handle is opened by pressing on opposite side, and has extension finger hold, affording good grip for winding. Measurements guaranteed accurate.

WITH FIVE-EIGHTHS INCH TAPES

<table>
<thead>
<tr>
<th>Marked one side only</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet, inches and 8ths of inches</td>
<td>341</td>
<td>342</td>
<td>343</td>
<td>344</td>
</tr>
<tr>
<td>Feet, 10ths and 100ths of feet</td>
<td>341D</td>
<td>342D</td>
<td>343D</td>
<td>344D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>15</td>
<td>19</td>
<td>24</td>
<td>27</td>
</tr>
<tr>
<td>Weight each, ozs</td>
<td>33</td>
<td>36</td>
<td>40</td>
<td>43</td>
</tr>
<tr>
<td>Price, each</td>
<td>$8.40</td>
<td>$11.40</td>
<td>$14.70</td>
<td>$16.70</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>341ME</th>
<th>344ME</th>
<th>345ME</th>
<th>346ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Weight each, ozs</td>
<td>15</td>
<td>19</td>
<td>24</td>
<td>28</td>
</tr>
<tr>
<td>Price, each</td>
<td>$9.00</td>
<td>$12.40</td>
<td>$16.00</td>
<td>$18.20</td>
</tr>
</tbody>
</table>

WITH THREE-QUARTERS INCH TAPES

Marked one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>351</th>
<th>352</th>
<th>353</th>
<th>354</th>
<th>355</th>
<th>356</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet, inches and 8ths of inches</td>
<td>351D</td>
<td>352D</td>
<td>353D</td>
<td>354D</td>
<td>355D</td>
<td>356D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>33</td>
<td>50</td>
<td>68</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight each, ozs</td>
<td>33</td>
<td>36</td>
<td>38</td>
<td>38</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.90</td>
<td>$12.90</td>
<td>$16.30</td>
<td>$18.70</td>
<td>$23.00</td>
<td></td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>351ME</th>
<th>352ME</th>
<th>353ME</th>
<th>354ME</th>
<th>355ME</th>
<th>356ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>33</td>
<td>50</td>
<td>68</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight each, ozs</td>
<td>33</td>
<td>36</td>
<td>38</td>
<td>38</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Price, each</td>
<td>$10.00</td>
<td>$13.90</td>
<td>$17.80</td>
<td>$20.00</td>
<td>$21.40</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE—We no longer regularly list "Reliable" tapes marked links on back, as this grade of 3/8" is not extensively used. The prices of No. 341, No. 341D, and No. 351 and 352 and 353 and 354 and 355 and 356 in length, are reduced accordingly. If links on back are wanted, add 1c per foot to above list prices. Specify as "341L", "341DL", etc.

"RELIABLE JUNIOR" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

THE FINEST, LIGHT WEIGHT, LONG STEEL TAPE MADE;
A MINIATURE "RELIABLE" TAPE

This, while a 3/8 inch wide light weight steel tape, will give good service. Though small and convenient to carry anywhere, it is long enough to take usual measurements. It is about one-half the size and weight of the 3/8 inch wide "Reliable" and embodies its improved features.

Case is of cordovan-brown genuine leather, hand-stitched, with brass plated steel liner and nickel plated trimmings. Double-folding flush wind handle is opened by pressing on opposite side, and has extension finger hold. Measurements guaranteed accurate.

WITH LIGHT WEIGHT, ONE-QUARTER INCH TAPES

Marked feet, inches and 16ths of inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>100</th>
<th>101</th>
<th>102</th>
<th>103</th>
<th>104</th>
<th>105</th>
<th>106</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight each, ozs</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>9</td>
<td>12</td>
<td>16</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$5.10</td>
<td>$5.65</td>
<td>$7.70</td>
<td>$9.70</td>
<td>$11.10</td>
<td>$13.40</td>
<td>$15.40</td>
</tr>
</tbody>
</table>

Marked feet, 10ths and 100ths of feet, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>100D</th>
<th>101D</th>
<th>102D</th>
<th>103D</th>
<th>104D</th>
<th>105D</th>
<th>106D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>25</td>
<td>33</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight each, ozs</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>9</td>
<td>12</td>
<td>16</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$5.10</td>
<td>$5.65</td>
<td>$7.70</td>
<td>$9.70</td>
<td>$11.10</td>
<td>$13.40</td>
<td>$15.40</td>
</tr>
</tbody>
</table>

Marked metric only, one side only

| First decimetre in mm., balance of length in cm. |
|------|------|------|------|------|------|------|
| No. | 100 | 101 | 102 | 103 | 104 | 105 | 106 |
| Length, metres | 25 | 33 | 40 | 50 | 60 | 75 | 100 |
| Weight each, ozs | 3 | 6 | 7 | 9 | 12 | 16 | 25 |
| Price, each | $4.80 | $5.65 | $7.70 | $9.70 | $11.10 | $13.40 | $15.40 |

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>100 1/4</th>
<th>101 1/4</th>
<th>102 1/4</th>
<th>103 1/4</th>
<th>104 1/4</th>
<th>105 1/4</th>
<th>106 1/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight each, ozs</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>9</td>
<td>12</td>
<td>16</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$5.10</td>
<td>$5.65</td>
<td>$7.70</td>
<td>$9.70</td>
<td>$11.10</td>
<td>$13.40</td>
<td>$15.40</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE—These are assembled in case with metric on front, English on back.

(These tapes are assembled in case with English on front, metric on back.)
"CHALLENGE" STEEL TAPES


FOR YEARS THIS HAS BEEN THE MOST WIDELY USED GENERAL PURPOSE STEEL TAPE.

Particularly recommended for all kinds of general measuring; has long been especially popular in construction and similar work. Even where subject to continuous and hard use the "Challenge" gives satisfactory service.

Line of highest grade tape steel with distinct markings. Case of selected genuine russet leather, hand-stitched, and with substantial plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>260</td>
</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>Price</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marked feet, 10ths and 100ths of feet, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>260D</td>
</tr>
<tr>
<td>25</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>Price</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Marked metric only, one side only

<table>
<thead>
<tr>
<th>Marked metric only, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>250 1/4 M</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>Price</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>Marked metric and English</th>
</tr>
</thead>
<tbody>
<tr>
<td>One side metric, feet, inches and 8ths of inches, balance of length in cm.</td>
</tr>
<tr>
<td>One side English, feet, inches and 8ths of inches</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>250 1/4 ME</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>Price</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE.—"Challenge" tapes marked feet, inches and 14ths, price, $5 extra.

For 1/2 inch wide "Challenge" tapes, see page 11.

STAINLESS STEEL TAPES

(R"Challenge" Pattern)

RUST PROOF NON-CORROSIVE

STAINLESS TAPES ARE IDEAL FOR USE WHEREVER CONDITIONS COMMONLY CAUSING RUST OR CORROSION ARE PRESENT

The lines in these tapes are of standard weight and of Genuine Stainless Steel, rust proof and non-corrosive. This material also is of suitable temper for tapes, in that respect closely approaching the best quality materials now used. Our Stainless Steel Tapes hold their shape well, far better than lines made of other rust proof materials such as phosphor bronze and monel metal. The tapes below have Instantaneous Readings, and "Nubian" Finish, aids to accurate and quick reading.

The cases are of selected genuine leather, hand-stitched, and with substantial plated steel liners. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH STAINLESS TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>S-260</td>
</tr>
<tr>
<td>S-261</td>
</tr>
<tr>
<td>S-262</td>
</tr>
<tr>
<td>S-263</td>
</tr>
<tr>
<td>S-264</td>
</tr>
</tbody>
</table>

Marked feet, 10ths and 100ths of feet, one side only

| No.          | Length, ft. | Price, each |
| S-265D       | 25           | $6.65 |
| S-266D       | 30           | $7.50 |
| S-267D       | 50           | $11.00 |
| S-268D       | 75           | $12.90 |
| S-269D       | 100          | $15.00 |

WITH ONE-HALF INCH STAINLESS TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>S-360</td>
</tr>
<tr>
<td>S-361</td>
</tr>
<tr>
<td>S-362</td>
</tr>
<tr>
<td>S-363</td>
</tr>
</tbody>
</table>

Marked feet, 10ths and 100ths of feet, one side only

| No.          | Length, ft. | Price, each |
| S-365D       | 25           | $7.50 |
| S-366D       | 50           | $11.50 |
| S-367D       | 75           | $15.00 |
| S-368D       | 100          | $20.00 |

Packing: One in a box

NOTE.—We can supply 1/8" and 1/4" wide Stainless Steel Tapes also in "Reliable" pattern leather cases, and in metal arm frames, and the 1/2" tape in "Rival" pattern metal case.
### "CHALLENGE" STEEL TAPES (HALF-INCH WIDE)

**Instantaneous Readings.** **"Nubian" Finish.**

**EXTRA DURABLE, THEREFORE POPULAR FOR HEAVY DUTY, AS HIGHWAY WORK, AND AROUND MILLS, ETC.**

Same as the ½ inch "Challenge" on page 12, but with line ½ inch wide. This extra width makes the tape somewhat sturdier. These ½ inch tapes are suitable for practically any work to which ½ inch "Challenge" tapes are put.

Line of highest grade tape steel, distinctly marked. Case of selected genuine russet leather, hand-stitched, with substantial plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

### WITH ONE-HALF INCH TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marked feet, 10ths and 100ths of feet, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

### MARKED METRIC ONLY, ONE SIDE ONLY

<table>
<thead>
<tr>
<th>Marked metric only, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

### "CHALLENGE JUNIOR" STEEL TAPES

**Instantaneous Readings.** **"Nubian" Finish.**

A LONG STEEL TAPE, YET OF SIZE AND WEIGHT NOT INCONVENIENT OR BURDENSOME TO CARRY ANYWHERE.

A counterpart of the "Challenge", but about one-half its size and weight. At the same time this "Junior" pattern is well built and with reasonable care will give years of good service.

Line of highest grade tape steel, distinctly marked. Case of selected genuine russet leather, hand-stitched, with plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

### WITH LIGHT WEIGHT, ONE-QUARTER INCH TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 10ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marked feet, 10ths and 100ths of feet, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

### MARKED METRIC ONLY, ONE SIDE ONLY

<table>
<thead>
<tr>
<th>Marked metric only, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

### MARKED METRIC AND ENGLISH

<table>
<thead>
<tr>
<th>Marked metric and English</th>
</tr>
</thead>
<tbody>
<tr>
<td>One side metric (first decimetre in mm., balance of length in cm.)</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

### Packing:

One in a box
"RIVAL" STEEL TAPE

- Instantaneous Readings.
- "Nubian" Finish.

A GENERAL PURPOSE STEEL TAPE IN METAL CASE

Some people prefer a metal to a leather case, and for certain classes of work it is best. We recommend the "Rival" for use around steel and tube mills, or wherever a tape case comes much in contact with oil, grease or grit.

Line of highest grade tape steel, distinctly marked. Case of steel, nickel plated, and with knurled edge, which affords a firm grip. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPE

<table>
<thead>
<tr>
<th>No.</th>
<th>240</th>
<th>241</th>
<th>242</th>
<th>243</th>
<th>244</th>
<th>245</th>
<th>246</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>20</td>
<td>23</td>
<td>26</td>
<td>29</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.45</td>
<td>$4.60</td>
<td>$4.75</td>
<td>$4.90</td>
<td>$5.05</td>
<td>$5.20</td>
<td>$5.35</td>
</tr>
</tbody>
</table>

Marked feet, 10ths and 100ths of feet, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>240D</th>
<th>241D</th>
<th>242D</th>
<th>243D</th>
<th>244D</th>
<th>245D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>20</td>
<td>23</td>
<td>26</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.45</td>
<td>$4.60</td>
<td>$4.75</td>
<td>$4.90</td>
<td>$5.05</td>
<td>$5.20</td>
</tr>
</tbody>
</table>

Marked metric only, one side only (First decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>240 l/M</th>
<th>241 l/M</th>
<th>242 l/M</th>
<th>243 l/M</th>
<th>244 l/M</th>
<th>245 l/M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>20</td>
<td>23</td>
<td>26</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.45</td>
<td>$4.60</td>
<td>$4.75</td>
<td>$4.90</td>
<td>$5.05</td>
<td>$5.20</td>
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</table>

Marked metric and English

<table>
<thead>
<tr>
<th>No.</th>
<th>240 1/2 M</th>
<th>240M</th>
<th>241M</th>
<th>242M</th>
<th>243M</th>
<th>244M</th>
<th>245 1/2 M</th>
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<tbody>
<tr>
<td>Length, metres</td>
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<td>40</td>
<td>45</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>20</td>
<td>23</td>
<td>26</td>
<td>32</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.45</td>
<td>$4.60</td>
<td>$4.75</td>
<td>$4.90</td>
<td>$5.05</td>
<td>$5.20</td>
<td>$5.35</td>
</tr>
</tbody>
</table>

"RIVAL JUNIOR" STEEL TAPE

- Instantaneous Readings.
- "Nubian" Finish.

A COMPACT, LIGHT WEIGHT LONG STEEL TAPE, CONVENIENT TO CARRY IN THE POCKET ANYWHERE

The "Rival Junior" is a miniature "Rival" tape. It has an exceptionally neat appearance, and, while small, is of good construction and with reasonable care holds up well.

Line of highest grade tape steel, distinctly marked. Case of steel, nickel plated, and with knurled edge, affording good grip. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH LIGHT WEIGHT, ONE-QUARTER INCH TAPE

<table>
<thead>
<tr>
<th>No.</th>
<th>1240</th>
<th>1241</th>
<th>1242</th>
<th>1243</th>
<th>1244</th>
<th>1245</th>
<th>1246</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>7</td>
<td>10</td>
<td>13</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.20</td>
<td>$4.60</td>
<td>$5.15</td>
<td>$5.60</td>
<td>$6.15</td>
<td>$6.65</td>
<td>$7.20</td>
</tr>
</tbody>
</table>

Marked feet, 10ths and 100ths of feet, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>1240D</th>
<th>1241D</th>
<th>1242D</th>
<th>1243D</th>
<th>1244D</th>
<th>1245D</th>
<th>1246D</th>
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</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
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<tr>
<td>Weight, ozs</td>
<td>7</td>
<td>10</td>
<td>13</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.20</td>
<td>$4.60</td>
<td>$5.15</td>
<td>$5.60</td>
<td>$6.15</td>
<td>$6.65</td>
<td>$7.20</td>
</tr>
</tbody>
</table>

Marked metric only, one side only (First decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>1240 1/4 M</th>
<th>1241 1/4 M</th>
<th>1242 1/4 M</th>
<th>1243 1/4 M</th>
<th>1244 1/4 M</th>
<th>1245 1/4 M</th>
<th>1246 1/4 M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>7</td>
<td>10</td>
<td>13</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.20</td>
<td>$4.60</td>
<td>$5.15</td>
<td>$5.60</td>
<td>$6.15</td>
<td>$6.65</td>
<td>$7.20</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>No.</th>
<th>1240 1/4 E</th>
<th>1241 1/4 E</th>
<th>1242 1/4 E</th>
<th>1243 1/4 E</th>
<th>1244 1/4 E</th>
<th>1245 1/4 E</th>
<th>1246 1/4 E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td>Weight, ozs</td>
<td>7</td>
<td>10</td>
<td>13</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.20</td>
<td>$4.40</td>
<td>$4.60</td>
<td>$4.80</td>
<td>$5.05</td>
<td>$5.30</td>
<td>$5.55</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE—"Rival" tapes marked feet, inches and 16ths. Price $3.50 extra.
"BANNER" STEEL TAPES


THE "BANNER" AFFORDS AT A MOST MODERATE PRICE THE ACCURACY OBTAINABLE ONLY IN A STEEL TAPE

This is by far the best of all popular priced steel tapes on the market. It is popularizing steel tapes with many who have previously used only woven lines. It meets a widespread demand.

Line of highest quality tape steel, distinctly marked. Case of mottled black imitation leather, a material of extraordinary durability and of good appearance. It is hand-stitched, has plated steel liner, and its trimmings are nickel plated. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked, inches and 8ths of inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>550</th>
<th>553</th>
<th>555</th>
<th>558</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>50</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>7</td>
<td>11</td>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.20</td>
<td>$5.75</td>
<td>$6.85</td>
<td>$8.75</td>
</tr>
</tbody>
</table>

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>550 1/4M</th>
<th>551M</th>
<th>553M</th>
<th>554M</th>
<th>555 1/4M</th>
<th>556M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>6</td>
<td>8</td>
<td>11</td>
<td>14</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>Price, each</td>
<td>$3.75</td>
<td>$4.70</td>
<td>$5.25</td>
<td>$6.40</td>
<td>$7.60</td>
<td>$8.75</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>550 1/4ME</th>
<th>550EM</th>
<th>551ME</th>
<th>551EM</th>
<th>552ME</th>
<th>552EM</th>
<th>553ME</th>
<th>553EM</th>
<th>554ME</th>
<th>554EM</th>
<th>555 1/4ME</th>
<th>556ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>5</td>
<td>7 1/4</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>22</td>
<td>25</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length, feet</td>
<td>15</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>78</td>
<td>82</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Price, each</td>
<td>$4.15</td>
<td>$4.70</td>
<td>$5.40</td>
<td>$6.25</td>
<td>$7.70</td>
<td>$8.35</td>
<td>$9.25</td>
<td>$10.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Packing: One in a box

Note—"Banner" tapes are furnished marked feet, 10ths and 100ths of feet when so ordered.

IMPROVED "UNIVERSAL" STEEL TAPES

Instantaneous Readings. "Nubian" Finish

A Steel Tape so low in price that no carpenter or other mechanic can afford to be without it. The "Universal" gives the accuracy obtainable only in a steel tape, and sells at a popular price.

A 3/4 inch wide, standard weight, steel tape, clearly marked. The metal-lined case is covered with mottled, tan-colored imitation leather, a good looking and extra durable material, and has a 3/16 inch wide, flat flush, nickel plated edge band. Folding flush handle opened by pressing pin on opposite side. All trimmings are nickel plated.

WITH THREE-EIGHTHS INCH STEEL TAPES

Marked Feet, Inches, and 8ths of Inches, One Side Only

<table>
<thead>
<tr>
<th>No.</th>
<th>540</th>
<th>543</th>
<th>545</th>
<th>546</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>50</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>6</td>
<td>10</td>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>Price, each</td>
<td>$2.60</td>
<td>$2.90</td>
<td>$4.00</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE:—Stock numbers are changed from No. 560 to No. 540 Series.
"CHALLENGE" STEEL TAPES WITH DIAMETER MEASUREMENT


CONVENIENT FOR DETERMINING THE DIAMETER OF PULLEYS, SHAFTING, PIPING, COLUMNS, TANKS, ETC.

Standard pattern "Challenge" tapes but with diameter marking. Line marked one side feet, inches and 8ths of inches, other side diameter equivalents of circumferences in diameter feet and inches, with extra diameter inch first end subdivided to 64ths. With this tape one can read directly not only the circumference of any cylindrical body, but its diameter down to 64ths of an inch, by applying tape to circumference. Highest grade tape steel, distinctly marked. Blank space first end. Case of selected genuine russet leather with plated steel liner Nickel plated trimmings. Folding flush handle opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

No. 261P Length 33 feet. Weight each, 9 ozs. Each. $7.00
No. 263P Length 50 feet. Weight each, 11 ozs. Each. 8.40

"CHALLENGE" STEEL TAPES IN CONSECUTIVE INCHES

"Nubian" Finish

FOR ANY WORK REQUIRING LONG MEASUREMENTS EXPRESSED IN INCHES

Standard pattern "Challenge" tapes but with inches numbered consecutively, i.e., 25 foot tape has inches numbered 1 to 300, 50 foot tape 1 to 600. High grade steel line, distinctly marked. Case of selected genuine russet leather with plated metal liner, and nickel plated trimmings. Folding flush handle opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked one side only, consecutive inches to eightths of inches. $6.40

No. 260C Length 300 inches (25 ft). Weight each, 8 ozs. Each. 7.80
No. 263C Length 600 inches (50 ft). Weight each, 11 ozs. Each. 11.25

"CHALLENGE" TREE TAPES


GIVE AT A DIRECT READING THE DIAMETER AS WELL AS THE CIRCUMFERENCE OF THE TREE

This steel tape is used by the United States Forest Service, as well as by private foresters, and in ranger schools, etc. The line is marked one side regular feet, 10ths and 100ths of feet, other side diameter equivalents of circumferences in diameter feet, inches and 10ths of inches. Blank space first end. It is equipped for fastening to the tree with spike or peg, which folds down for convenience in carrying. Highest grade tape steel, distinctly marked. Case of selected genuine russet leather with plated steel liner Folding flush handle opened by pressing pin on opposite side.

WITH THREE-EIGHTHS INCH TAPES

No. 261TP Length, 33 feet. Weight each, 10 ozs. Each $9.00
No. 263TP Length, 50 feet. Weight each, 12 ozs. Each 11.25

"ARTISAN" TREE TAPE

"Nubian" Finish

A FORESTER'S TAPE OF MEDIUM LENGTH IN METAL CASE

This item is also standard equipment of United States foresters. The steel line is marked on the front 20 feet in feet, 10ths and 100ths of feet, on the back in diameter equivalents of circumferences in consecutive inch feet inches and 10ths of inches up to 76 inches. Blank space first end. Tape is fitted with a pointed metal hook for catching bark of trees. Put up in nickel plated steel case with knurled edge, affording a firm grip. Hole in edge of case into which point of hook fits for protection in carrying. Folding flush handle is opened by pressing pin on opposite side.

Packing: All packed one in a box

NOTE—For Biltmore or Forest Cruiser Sticks, see Section Seven.
ENGINEERS PATTERN STEEL TAPES

**Instantaneous Readings.**

**"Nubian" Finish.**

A STURDY TAPE AND CASE DESIGNED FOR ENGINEERING, SURVEYING AND OTHER HEAVY WORK

A quarter-inch tape, 50 per cent heavier than standard 3/8 inch line, and put up in steel lined leather case. It is the width and weight best for heavy work. For carrying, a case tape is by many preferred to a frame tape. The line, of highest grade tape steel, is distinctly marked, with measurements beginning at end. It is readily removed from case and is supplied with a pair of detachable rings. The case is narrow, of selected genuine russet leather, hand-stitched, with substantial plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH STANDARD, ONE-QUARTER INCH ENGINEERS TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marked feet, 10ths and 100ths of feet, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked metric only, one side only

<table>
<thead>
<tr>
<th>Marked metric only, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>(First decimeter in mm., balance of length in cm.)</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>Marked metric and English</th>
</tr>
</thead>
<tbody>
<tr>
<td>One side metric (first decimeter in mm., balance of length in cm.)</td>
</tr>
<tr>
<td>One side English (feet, inches and 8ths of inches)</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE—For Engineers Pattern Tapes in frames, see page 22.

"WOLVERINE" STEEL TAPES

**Instantaneous Readings.**

**"Nubian" Finish.**

POPULAR ABOUT MINES AND OTHER PLACES REQUIRING ACCURACY UNDER SEVERE CONDITIONS OF USE

An Engineers Pattern heavy line on perforated metal disk reel. While somewhat more compact than a frame, this reel also allows for dirt accumulation and for its drying out.

The line, of highest grade tape steel, distinctly marked, is engineers style, i.e., measures from end of tape, is detachable from reel and supplied with two rings. The metal reel is in dull finish, strong, and of good appearance. It has folding winding handle and adjustable strap handle, which affords a firm hold. Measurements guaranteed accurate.

WITH STANDARD, ONE-QUARTER INCH ENGINEERS TAPES

Marked feet, inches and 8ths of inches, one side only

| No. | 1373 | 1374 | 1375 | 1376 | 1377 |
| Length, feet | 50 | 66 | 75 | 90 | 100 |
| Price, each, oz. | $11.10 | $13.30 | $15.50 | $17.70 | $19.90 |
| Price, each | $12.10 | $14.30 | $16.50 | $18.70 | $20.90 |

Marked feet, 10ths and 100ths of feet, one side only

| No. | 1373D | 1374D | 1375D | 1376D | 1377D |
| Length, feet | 50 | 66 | 75 | 90 | 100 |
| Price, each, oz. | $11.10 | $13.30 | $15.50 | $17.70 | $19.90 |
| Price, each | $12.10 | $14.30 | $16.50 | $18.70 | $20.90 |

Marked metric only, one side only

<table>
<thead>
<tr>
<th>Marked metric only, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>(First decimeter in mm., balance of length in cm.)</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>Marked metric and English</th>
</tr>
</thead>
<tbody>
<tr>
<td>One side metric (first decimeter in mm., balance of length in cm.)</td>
</tr>
<tr>
<td>One side English (feet, inches and 8ths of inches)</td>
</tr>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Packing: One in a box

(note—For Engineers Pattern Tapes in frames, see page 22.)
ENGINEERS PATTERN FRAME STEEL TAPES
With Folding Winding Handle


AN ENGINEERS STRONG TAPE AND FRAME, SERVICEABLE EVEN UNDER SEVERE CONDITIONS

Our Engineers Pattern heavy tape on open metal frame. Frames take care of dirt or other accumulation better than enclosed cases, they also give a firm hold and extra winding leverage.

Line of highest grade tape steel, distinctly marked. Readily removed from frame and supplied with a pair of detachable rings. Substantial metal frame, heavily nickel plated, with polished hardwood handle. Measurements guaranteed accurate.

WITH STANDARD, ONE-QUARTER INCH ENGINEERS TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>271</td>
</tr>
<tr>
<td>Length, feet</td>
<td>10</td>
</tr>
<tr>
<td>Weight, each, ozs.</td>
<td>$6.70</td>
</tr>
</tbody>
</table>

AN EXTRA HEAVY ENGINEERING TAPE, GRADUATED ENTIRE LENGTH TO 10THS AND 100THS OF FEET

This is a heavy duty tape for engineering and construction work, where extra durability and accuracy are desired.

The LINE is 60% heavier than our standard weight Engineers Pattern Tapes; is graduated to feet, 10ths and 100ths of feet entire length and guaranteed accurate. Each end is fitted with heavy nickel plated brass clip (eye), and has blank space. Line is easily removed from frame. Pair of leather thongs furnished with each tape.

The FRAME is substantial, four-arm pattern, of metal, nickel plated and has polished hardwood handle. It has LOCK WINDING HANDLE, which, turned over, engages the frame and holds the tape at any desired point. The long winding handle and knob and 4-inch drum shell give good grip, leverage and speed in winding.

WITH HEAVY ONE-QUARTER INCH STEEL TAPE

Marked Feet, 10ths, and 100ths of Feet, One Side Only

<table>
<thead>
<tr>
<th>Marked metric only, one side only</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>271M</td>
</tr>
<tr>
<td>Length, metres</td>
<td>10</td>
</tr>
<tr>
<td>Weight, each, ozs.</td>
<td>$6.70</td>
</tr>
</tbody>
</table>

Note—Above tapes can be furnished graduated feet, inches and 8ths, at same prices. Specify as "No. 1276 Heavy".

PACKING: One in a box.
FRAME STEEL TAPES

With Folding Winding Handle


FOR GENERAL MEASURING.

FRAME TAPE ARE KEPT IN CONDITION WITH THE MINIMUM OF ATTENTION.

This is a standard width and weight steel tape, such as the "Challenge" 3/8 inch, but on metal frame. It is a favorite in the oil fields and many places in general work. Frames take care of reasonable amount of dirt accumulation and afford the line a chance to dry. They also give extra winding leverage and a firm hold.

Line of highest grade tape steel, distinctly marked. Substantial metal frame, heavily nickel plated and with polished hardwood handle. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 6ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marked feet, 10ths and 100ths of feet, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked metric only, one side only

<table>
<thead>
<tr>
<th>First decimetre in mm., balance of length in cm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>First decimetre in cm., balance of length in cm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

FRAME STEEL TAPES (EXTRA WIDE)

With Folding Winding Handle


THE EXTRA WIDTH GIVES GREATER DURABILITY.
FRAME CONSTRUCTION WILL NOT READILY CLOG WITH DIRT.

A popular tape for heavy general measuring work. It affords good winding leverage and firm grip. Frame tapes not only take care of reasonable accumulation of dirt, etc., and give it a chance to dry out, but can be reeled up and put directly into oil.

Line of highest grade tape steel, distinctly marked. The metal frame is substantial, heavily nickel plated, and fitted with polished hardwood handle. Measurements guaranteed accurate.

WITH ONE-HALF INCH TAPES

<table>
<thead>
<tr>
<th>Marked feet, inches and 8ths of inches, one side only</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked feet, 10ths and 100ths of feet, one side only

| No.    | 290D | 291D | 293D | 294D | 295D | 296D | 297D | 298D |
| Length, feet | 25  | 33  | 50  | 66  | 75  | 100 | 150 | 200 |
| Weight, oz. | 17  | 19  | 22  | 25  | 27  | 31  | 42  | 51  |
| Price, each | $5.60 | $6.70 | $8.35 | $9.85 | $11.90 | $14.20 | $21.50 | $27.50 |

Marked metric only, one side only

<table>
<thead>
<tr>
<th>First decimetre in mm., balance of length in cm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>One side metric, (first decimetre in mm., balance of length in cm.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight, oz.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(EM) tapes are assembled in frame with metric on front, English on back</th>
</tr>
</thead>
</table>

Packing: One in a box

NOTE--Above tapes over 100 feet long are on four-arm frames, shorter lengths on two-arm frames.

For above tapes fitted with plumb bob for oil gauging, see page 27.
For above tapes on lock handle frames, see page 23.

STAINLESS STEEL—At an extra price we can furnish the above tapes in Stainless Steel.
LOCK HANDLE FRAME STEEL TAPES


THE ADVANTAGES OF A FRAME TAPE COMBINED WITH THAT OF THE LOCK HANDLE

These tapes and frames are, except in the winding apparatus, same as engineers and standard pattern frame tapes previously listed. The one-piece winding handle can be turned completely over, thus engaging the frame and holding or locking the tape at any desired point. This handle with its larger knob and greater length affords good grip and extra leverage.

Line of highest grade tape steel, distinctly marked. Substantial metal frame heavily nickel plated, and with polished hardwood handle. Measurements guaranteed accurate.

WITH STANDARD, ONE-QUARTER INCH ENGINEERS PATTERN TAPES

(With Detachable Rings)

Marked one side only

<table>
<thead>
<tr>
<th>Feet, inches and 8ths No.</th>
<th>1271</th>
<th>1272</th>
<th>1273</th>
<th>1274</th>
<th>1275</th>
<th>1276</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet, 10ths and 100ths No.</td>
<td>1271D</td>
<td>1272D</td>
<td>1273D</td>
<td>1274D</td>
<td>1275D</td>
<td>1276D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td>24</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Price each</td>
<td>$6.70</td>
<td>$8.35</td>
<td>$9.85</td>
<td>$11.90</td>
<td>$14.20</td>
<td></td>
</tr>
</tbody>
</table>

WITH THREE-EIGHTHS INCH TAPES

Marked one side only

<table>
<thead>
<tr>
<th>Feet, inches and 8ths No.</th>
<th>1281</th>
<th>1282</th>
<th>1283</th>
<th>1284</th>
<th>1285</th>
<th>1286</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet, 10ths and 100ths No.</td>
<td>1281D</td>
<td>1282D</td>
<td>1283D</td>
<td>1284D</td>
<td>1285D</td>
<td>1286D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>18</td>
<td>20</td>
<td>22</td>
<td>24</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Price each</td>
<td>$5.60</td>
<td>$7.15</td>
<td>$8.20</td>
<td>$9.85</td>
<td>$12.25</td>
<td></td>
</tr>
</tbody>
</table>

WITH ONE-HALF INCH TAPES

Marked one side only

<table>
<thead>
<tr>
<th>Feet, inches and 8ths No.</th>
<th>1291</th>
<th>1292</th>
<th>1293</th>
<th>1294</th>
<th>1295</th>
<th>1296</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet, 10ths and 100ths No.</td>
<td>1291D</td>
<td>1292D</td>
<td>1293D</td>
<td>1294D</td>
<td>1295D</td>
<td>1296D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight each, ozs.</td>
<td>20</td>
<td>23</td>
<td>26</td>
<td>28</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Price each</td>
<td>$6.70</td>
<td>$8.35</td>
<td>$9.85</td>
<td>$11.90</td>
<td>$14.20</td>
<td></td>
</tr>
</tbody>
</table>

Packing: All packed one in a box

NOTE—All above tapes are furnished with two-arm frame, except Nos. 1276 and 1276D, which have four-arm frame.

Lock handle tapes marked metric and English take same price as 271ME series. Standard and ME series, page 25; 281ME series, page 26; 291ME series, page 24, respectively. Marked metric only, price same as marked feet and inches.

For lock handle tapes with plumb bob for oil gauging see page 28.

STAINLESS STEEL—At an extra price we can furnish the 3/8" and 1/2" tapes in Stainless Steel.

"ATLAS" OIL GAUGERS HEAVY STEEL TAPES

With Plumb Bob—With Lock Handle


EXTRA HEAVY LOCK HANDLE FRAME TAPE WITH No. 590, 20 OZ. PLUMB BOB

DESIGNED EXCLUSIVELY FOR TANK GAUGING

This tape is well balanced, and the most practical and durable one made for tank gauging.

One-half inch wide steel line, 50 per cent heavier than standard 5/8 inch measuring tapes, and distinctly marked. Measurements guaranteed accurate.

Sturdy metal case-hardened frame, built to withstand severe usage, with polished hardwood handle and with solid brass bob.

It has lock handle, which, turned over, engages the frame and holds or locks the tape at any point. Long winding handle and knob, and extra size drum shell give good grip, leverage, and speed in winding.

The solid brass bob is round, with tapered point, is 6 3/4 inches long and 1 inch in diameter. Weighing 20 ozs., it will penetrate the heavier oils. It is included in measurement of tape and can be detached.

WITH HEAVY, ONE-HALF INCH TAPES

STANDARD PATTERN

Marked feet, inches and 8ths of inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>12915</th>
<th>With 590 Plumb Bob,</th>
<th>Length 33 feet.</th>
<th>Weight each, 2 1/4 lbs. Each</th>
<th>$13.20</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>12935</td>
<td>With 590 Plumb Bob,</td>
<td>Length 50 feet.</td>
<td>Weight each, 3 1/4 lbs. Each</td>
<td>$15.10</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric (1st decimetre in mm., balance of length in cm.)

<table>
<thead>
<tr>
<th>No.</th>
<th>12915-ME</th>
<th>With 590 Plumb Bob,</th>
<th>Length 33 feet.</th>
<th>Weight each, 2 1/4 lbs. Each</th>
<th>$13.85</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>12935-ME</td>
<td>With 590 Plumb Bob,</td>
<td>Length 15 metres (50 ft.).</td>
<td>Weight each, 3 1/4 lbs. Each</td>
<td>$16.10</td>
</tr>
</tbody>
</table>

MEXICAN PATTERN

Same as above ME tapes, except metric side graduated down to millimetres entire length, and English side to feet, inches and 16ths. Not *Instantaneous* Readings.

<table>
<thead>
<tr>
<th>No.</th>
<th>12915-ME</th>
<th>MEXICAN PATTERN with 590 Plumb Bob,</th>
<th>Length 33 metres (105 ft.).</th>
<th>Weight each, 2 1/4 lbs. Each</th>
<th>$14.70</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>12935-ME</td>
<td>MEXICAN PATTERN with 590 Plumb Bob,</td>
<td>Length 15 metres (50 ft.).</td>
<td>Weight each, 3 1/4 lbs. Each</td>
<td>$17.50</td>
</tr>
</tbody>
</table>

Packing: All packed one in a box

NOTE—Standard Pattern is furnished unless "Mexican Pattern" is specified. For gauging tapes with lighter weight bobs, see pages 27 and 28.

"Atlas" tapes marked metric only, price same as marked feet and inches.
OIL GAUGERS STEEL TAPES
With Plumb Bob—With Lock Handle

POPULAR WITH GAUGERS OF THE LIGHTER CRUDE OILS,
GASOLINE, ETC.

These standard weight steel tapes on frames. with the light
(6 oz.) bob, are also widely used throughout the oil industry.
Line of highest grade tape steel, distinctly marked. Measures-
ments guaranteed accurate. Substantial metal frame heavily nickel
plated, and with polished hardwood handle.
Tape fitted with No. 588, 6 oz. solid brass, cone-shaped bob, of
1½ inch diameter. Length of bob, 2¾ inches, is included in meas-
urement of tape, and bob is detachable.

ALWAYS SPECIFY “WITH 588 BOB”
IF WANTED WITHOUT BOB, SPECIFY “FOR 588”

WITH THREE-EIGHTHS INCH TAPES
Marked feet, inches and 8ths of inches, one side only
No. 280 With 588 Plumb Bob. Length 25 ft. Weight each, 1½ lbs. Each. $6.50
No. 281 With 588 Plumb Bob. Length 33 ft. Weight each, 1½ lbs. Each. $7.70
No. 283 With 588 Plumb Bob. Length 50 ft. Weight each, 1½ lbs. Each. $9.25

Marked metric and English
One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 4ths of inches)
No. 281ME With 588 Plumb Bob.
Length 10 metres (33 ft.). Weight each, 1½ lbs. Each. $4.80
No. 283ME With 588 Plumb Bob.
Length 15 metres (50 ft.). Weight each, 1½ lbs. Each. $6.90

WITH ONE-HALF INCH TAPES
Marked feet, inches and 8ths of inches, one side only
No. 290 With 588 Plumb Bob. Length 25 ft. Weight each, 1½ lbs. Each. $7.70
No. 291 With 588 Plumb Bob. Length 33 ft. Weight each, 1½ lbs. Each. $8.80
No. 293 With 588 Plumb Bob. Length 50 ft. Weight each, 1½ lbs. Each. $10.45

Marked metric and English
One side metric (first decimetre in cm., balance of length in cm.)
One side English (feet, inches and 4ths of inches)
No. 291ME With 588 Plumb Bob.
Length 10 metres (33 ft.). Weight each, 1½ lbs. Each. $8.45
No. 293ME With 588 Plumb Bob.
Length 15 metres (50 ft.). Weight each, 1½ lbs. Each. $10.80

Packing: All packed one in a box

NOTE—For other bobs, see page 30. While above tapes can be furnished with the
heavy, No. 590, bob, we recommend for that the heavier tape, the “Atlas”, page 26.
Any above tapes can be furnished in “Mexican Pattern”, i.e., marked mm throughout, and 16ths.
For extra charge.

OIL GAUGERS STEEL TAPES
With Plumb Bob—With Lock Handle

THE LOCK HANDLE IS CONVENIENT WHEN SOUNDING
FOR THE BOTTOM OF THE TANK

Standard weight steel tapes with No. 588 Plumb Bob and with
lock handle frame. Many gaugers will use only the lock handle
pattern.
Line of highest grade tape steel, distinctly marked. Measure-
ments guaranteed accurate. Substantial nickel plated metal frame
with polished hardwood handle. Lock handle holds the tape at any
point and gives good grip and leverage.
Fitted with No. 588, 6 oz. solid brass plumb bob of 1½ inch
diameter, 2½ inches long. Bob is included in measurement of tape
and is detachable.

ALWAYS SPECIFY “WITH 588 BOB”
IF WANTED WITHOUT BOB, SPECIFY “FOR 588”

WITH THREE-EIGHTHS INCH TAPES
Marked feet, inches and 8ths of inches, one side only
No. 1280 With 588 Plumb Bob. Length 25 ft. Weight each, 1½ lbs. Each. $6.85
No. 1281 With 588 Plumb Bob. Length 33 ft. Weight each, 1½ lbs. Each. $7.90
No. 1283 With 588 Plumb Bob. Length 50 ft. Weight each, 1½ lbs. Each. $9.25

Marked metric and English
One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 4ths of inches)
No. 1281ME With 588 Plumb Bob.
Length 10 metres (33 ft.). Weight each, 1½ lbs. Each. $3.40
No. 1283ME With 588 Plumb Bob.
Length 15 metres (50 ft.). Weight each, 1½ lbs. Each. $4.80

WITH ONE-HALF INCH TAPES
Marked feet, inches and 8ths of inches, one side only
No. 1290 With 588 Plumb Bob. Length 25 ft. Weight each, 1½ lbs. Each. $7.70
No. 1291 With 588 Plumb Bob. Length 33 ft. Weight each, 1½ lbs. Each. $8.80
No. 1293 With 588 Plumb Bob. Length 50 ft. Weight each, 1½ lbs. Each. $10.45

Marked metric and English
One side metric (first decimetre in cm., balance of length in cm.)
One side English (feet, inches and 4ths of inches)
No. 1291ME With 588 Plumb Bob.
Length 10 metres (33 ft.). Weight each, 1½ lbs. Each. $8.45
No. 1293ME With 588 Plumb Bob.
Length 15 metres (50 ft.). Weight each, 1½ lbs. Each. $10.80

Packing: All packed one in a box

NOTE—For other bobs, see page 30. While above tapes can be furnished with the
heavy, No. 590, bob, we recommend for that the heavier tape, the “Atlas”, page 26.
Any above tapes can be furnished in “Mexican Pattern”, i.e., marked mm throughout, and 16ths.
For extra charge.

For tapes marked metric only. price same as marked feet and inches.
TEMPERATURE SCALE

For the most exact results the temperature in which a measuring tape is actually used must be taken into account.

Temperature scale on a steel tape is a series of graduations at the last end corresponding to the expansion and contraction of the tape over a range of temperatures which are indicated opposite the various lines. (Above illustration shows such scale (half size) on a 100 foot tape graduated to 10ths and 100ths). This scale takes the place of the terminal mark, that point falling on the line in the scale representing the temperature prevailing.

We are prepared to put this scale on all steel tapes ¼ inch and over in width, on the basis of the Fahrenheit thermometer for tapes in English markings, and the centigrade thermometer for those in metric.

Extra for Temperature Scale $1.30 per tape

PHOSPHOR BRONZE TAPES

Nickel Plated

These are rust proof. They are particularly adapted for use around salt water, acids and gases, and where a tape is continuously exposed. While of hard bronze, they are not spring tempered as are steel tapes.

We can supply Phosphor Bronze Tapes in ½ inch and ⅛ inch widths put up in any of our standard leather cases or metal frames. Prices quoted on application.

STEEL TAPE LINES WITHOUT CASES OR FRAMES

With Regular Graduations

Specify as "Tapes only" and by prefixing zero to stock number of complete tape, as "No. 0263 Challenge tape only".

Three-Eighths Inch Wide


Length, feet

25 30 40 60 75 100 150 200

Length, metres

8 10 13.2 20 30 45 60 90

Marked one side, each...

$3.00 $3.60 $4.50 $6.50 $8.00 $13.50 $16.50 $20.00

Marked both sides, each...

$3.60 $4.00 $5.00 $6.70 $7.60 $12.30 $15.00 $18.00

One-Half Inch Wide

For No. 300 Series "Reliable", No. 360 Series "Challenge", and No. 290 and No. 1291 Series Frame Tapes.

Length, feet

25 30 40 60 75 100 150 200

Length, metres

8 10 13.2 20 30 45 60 90

Marked one side, each...

$4.00 $4.80 $6.50 $9.75 $12.00 $18.50 $22.50 $27.00

Marked both sides, each...

$4.80 $5.30 $7.00 $9.25 $12.00 $18.50 $22.50 $27.00

Light Weight, One-Quarter Inch Wide

For "Reliable Jr.", "Challenge Jr.", and "Rival Jr." Tapes.

Length, feet

25 30 40 60 75 100 150 200

Length, metres

8 10 13.2 20 30 45 60 90

Marked one side, each...

$2.55 $3.00 $3.70 $4.30 $5.00 $7.50 $8.60 $9.70

Marked both sides, each...

$3.00 $3.40 $4.20 $5.70 $7.20 $10.50 $11.30 $12.80

Heavy, One-Quarter Inch Wide (with Detachable Rings)

For "Wolverine", and Nos. 231, 231, and 231 Series Engineers Pattern Tapes.

Length, feet

25 30 40 60 75 100 150 200

Length, metres

8 10 13.2 20 30 45 60 90

Marked one side, each...

$5.40 $6.80 $8.40 $10.20 $11.70 $18.00 $20.30 $24.00

Marked both sides, each...

$6.60 $8.40 $10.70 $12.30 $13.80 $16.10 $18.00 $23.70

NOTE—Plumb Bob Tape only. Also, tapes cut for bob and fitted with snap, take above prices plus 10c each (except the "Atlas").

"Atlas" One-Half Inch Wide

Standard Pattern with Snap $5.00

Length, feet

33 48 60 75 100 150 200

Length, metres

10 13.2 20 30 45 60 90

Marked one side, each...

$5.60 $8.00 $8.60 $9.70 $12.80 $20.30 $24.00

Marked both sides, each...

$6.70 $9.80 $11.30 $12.80 $16.10 $24.00 $28.00

CLAMP HANDLE

For gripping a steel tape at any point along its length so tension can readily be applied and held. Made of brass, nickel plated. Applied and removed by simply operating the handle. Properly used, will not damage a tape in any way.

No. 584 Wt. each, 4 ozs. Each $2.65

TENSION HANDLE

For applying and determining the exact tension applied to any tape. Used on steel tapes in precise work to insure uniformity of half pounds.

No. 586 Weight each, 4 ozs. Each $5.25

NOTE—For Surveyor's Arrows, see page 31.
SPRING STEEL ARROWS

THESE SURVEYOR'S ARROWS ARE OF OIL TEMPERED STEEL

No. 591 3/16 inch, square; 14 inches long. Nickel plated. With red flag. This arrow, being square, measurements to or from it can be most accurately taken. Its size and shape are such that with it a hole can be reamed in hard soil or ice and an especially firm setting secured. The red linen flag is securely sewed to the ring.

Weight per set, 2 lbs. Price, per set of 11...$5.25


Weight per set, 1 1/2 lbs. Price, per set of 11...$2.25


Weight per set, 1 1/2 lbs. Price, per set of 11...$2.60

No. 594 9/64 inch, round; 10 inches long. Plain. With ring enameled bright vermilion.

Weight per set, 3/4 lbs. Price, per set of 11...$1.40

No. 595 9/64 inch, round; 14 inches long. Plain. With ring enameled bright vermilion.

Weight, per set, 1 lb. Price, per set of 11...$1.50

Packing: One set of 11 Arrows in a box

For carrying Arrows we can furnish the following:

No. 596 Steel Carrying Ring. Price, each...$0.35
No. 597 Leather Quiver with belt loop for carrying 11 arrows. Price, each...$4.20

SURVEYORS CHAIN TAPES


A CHAIN TAPE FOR HEAVY SURVEY WORK, YET ONE THAT AFFORDS ALSO THE CLOSEST DEGREE OF ACCURACY

A quarter-inch extra heavy steel tape, marked one side only. Markings are etched into raised bright portions of the tape, therefore most legible and permanent. A pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Put up on well finished hardwood reel, with long folding winding handle and large drum. Trimmings nickel plated. Line detachable from reel. Measurements guaranteed accurate.

Regular Markings
Tapes in feet—marked feet only every foot, with end feet in 10ths.
Tapes in links—marked links and poles, with end links in 10ths.
Tapes in metres—marked first and last decimetre in mm., balance of first and last metre in cm., balance of length in decimetres.

WITH EXTRA HEAVY, ONE-QUARTER INCH TAPES

Tapes Complete,
With Red and Thongs

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>Wt. Each</th>
<th>Price per set</th>
</tr>
</thead>
<tbody>
<tr>
<td>5100</td>
<td>100 ft</td>
<td>3/4 lbs</td>
<td>$9.00</td>
</tr>
<tr>
<td>5150</td>
<td>150 ft</td>
<td>3/4 lbs</td>
<td>12.00</td>
</tr>
<tr>
<td>5200</td>
<td>200 ft</td>
<td>4 lbs</td>
<td>14.10</td>
</tr>
<tr>
<td>5300</td>
<td>300 ft</td>
<td>5 lbs</td>
<td>21.40</td>
</tr>
<tr>
<td>5050</td>
<td>400 ft</td>
<td>6 lbs</td>
<td>30.80</td>
</tr>
<tr>
<td>5132</td>
<td>200 link</td>
<td>3 lbs</td>
<td>7.80</td>
</tr>
<tr>
<td>5082M</td>
<td>25 metre</td>
<td>2 1/4 lbs</td>
<td>8.70</td>
</tr>
<tr>
<td>5100M</td>
<td>30 metre</td>
<td>2 1/2 lbs</td>
<td>10.00</td>
</tr>
<tr>
<td>5164M</td>
<td>50 metre</td>
<td>3 1/2 lbs</td>
<td>15.00</td>
</tr>
<tr>
<td>5328M</td>
<td>100 metre</td>
<td>3 3/4 lbs</td>
<td>27.00</td>
</tr>
</tbody>
</table>

Tapes Without Red and Thongs

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>Wt. Each</th>
<th>Price per set</th>
</tr>
</thead>
<tbody>
<tr>
<td>05100</td>
<td>100 ft</td>
<td>1 1/2 lbs</td>
<td>$6.00</td>
</tr>
<tr>
<td>05150</td>
<td>150 ft</td>
<td>2 1/4 lbs</td>
<td>8.40</td>
</tr>
<tr>
<td>05200</td>
<td>200 ft</td>
<td>3 lbs</td>
<td>10.50</td>
</tr>
<tr>
<td>05300</td>
<td>300 ft</td>
<td>4 3/4 lbs</td>
<td>16.00</td>
</tr>
<tr>
<td>05606</td>
<td>100 link</td>
<td>4 lbs</td>
<td>8.80</td>
</tr>
<tr>
<td>05132</td>
<td>200 link</td>
<td>2 lbs</td>
<td>8.40</td>
</tr>
<tr>
<td>05082M</td>
<td>25 metre</td>
<td>1 1/2 lbs</td>
<td>5.70</td>
</tr>
<tr>
<td>05100M</td>
<td>30 metre</td>
<td>1 3/4 lbs</td>
<td>7.00</td>
</tr>
<tr>
<td>05164M</td>
<td>50 metre</td>
<td>2 3/4 lbs</td>
<td>11.50</td>
</tr>
<tr>
<td>05328M</td>
<td>100 metre</td>
<td>4 1/2 lbs</td>
<td>21.00</td>
</tr>
</tbody>
</table>

Reels Only

For 100 ft, 100 link, 25 and 30 metre tapes, each...$3.50
For 150 and 200 ft, 200 link, and 50 metre tapes, each...4.20
For 300 ft, and 100 metre tapes, each...6.30

Packing: One in a box

NOTE—Half gauge mark put on any above tapes when specified. No extra charge. This is a mark 2 1/4" from zero, representing one-half standard gage of railroad track.

Tapes with end feet marked inches and 10ths, no extra charge.
Tapes with extra feet first end to 190ths numbered from right to left, no extra charge.

NEW PRICES
**SURVEYORS CHAIN TAPES**


**AN ACCURATE, DURABLE CHAIN TAPE WITH FOLDING CROSS-ARM ALL-METAL REEL**

Steel line same as No. 5100 series, page 32, i.e., ½ inch extra heavy, with markings etched into bright portions, making them most legible and permanent. Tape marked one side only. A pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Put up on substantial cross-arm all-metal reel in dull nickel plated finish. Reel has leather strap handle, long folding winding handle and large drum. Cross arms fold together as illustrated above. This type of reel is especially desirable for the longer tapes. Trimnings nickel plated. Line detachable from reel. Measurements guaranteed accurate.

**Regular Markings**
Tapes in feet—marked feet only every foot, with end feet in 100ths.
Tapes in links—marked links and poles, with end links in 10ths.
Tapes in metres—marked first and last decimetre in mm., balance of first and last metre in cm., balance of length in decimetres.

**WITH EXTRA HEAVY, ONE-QUARTER INCH TAPES**

<table>
<thead>
<tr>
<th>Tapes Complete, With Reel and Thongs</th>
<th>Tapes Without Reel, With Thongs</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Length (ft)</td>
</tr>
<tr>
<td>-----</td>
<td>-------------</td>
</tr>
<tr>
<td>6100</td>
<td>100</td>
</tr>
<tr>
<td>6150</td>
<td>150</td>
</tr>
<tr>
<td>6200</td>
<td>200</td>
</tr>
<tr>
<td>6300</td>
<td>300</td>
</tr>
<tr>
<td>6500</td>
<td>500</td>
</tr>
<tr>
<td>6660</td>
<td>100 link</td>
</tr>
<tr>
<td>6132</td>
<td>200 link</td>
</tr>
<tr>
<td>6082M</td>
<td>25 metre</td>
</tr>
<tr>
<td>6100M</td>
<td>30 metre</td>
</tr>
<tr>
<td>6164M</td>
<td>50 metre</td>
</tr>
<tr>
<td>6328M</td>
<td>100 metre</td>
</tr>
</tbody>
</table>

Reels Only

For 100 ft., 100 link, 25 and 30 metre tapes, each..... $7.00
For 150 and 200 ft., 200 link, and 50 metre tapes, each..... 8.00
For 300 ft. and 100 metre tapes, each..... 10.00
For 500 ft. tapes, each..... 12.00

Packing: One in a box

**NOTE—Half gage mark put on any above tapes when specified. No extra charge. This is a mark 2 1/2 ½" from zero, representing one-half standard gage of railway track. Tapes with end feet marked in hundreds, no extra charge. Tapes with end feet marked in thousands, no extra charge.**

---

**NEW PRICES**

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**SURVEYORS CHAIN TAPES (EXTRA NARROW)**


**THIS EXTRA NARROW HEAVY TAPE HANDLES WELL AMONG OBSTRUCTIONS AND ON ROUGH GROUND**

One-eighth inch wide, extra heavy steel tape marked one side only. Markings are etched into raised bright portions of the tape, therefore are extra legible and permanent. Pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Durable sheet steel open reel in dull nickel plated finish, and mounted in hardwood frame, with strap handle. Long folding winding handle. Line detachable from reel. Measurements guaranteed accurate.

**Regular Markings**
Tapes in feet—marked feet only every foot, with end feet in 100ths.
Tapes in links—marked links and poles, with end links in 10ths.
Tapes in metres—marked first and last decimetre in mm., balance of first and last metre in cm., balance of length in decimetres.

**WITH EXTRA HEAVY, ONE-EIGHTH INCH TAPES**

<table>
<thead>
<tr>
<th>Tapes Complete, With Reel and Thongs</th>
<th>Tapes Without Reel, With Thongs</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
<td>Length (ft)</td>
</tr>
<tr>
<td>-----</td>
<td>-------------</td>
</tr>
<tr>
<td>4100</td>
<td>100</td>
</tr>
<tr>
<td>4150</td>
<td>150</td>
</tr>
<tr>
<td>4200</td>
<td>200</td>
</tr>
<tr>
<td>4300</td>
<td>300</td>
</tr>
<tr>
<td>4500</td>
<td>500</td>
</tr>
<tr>
<td>4666</td>
<td>100 link</td>
</tr>
<tr>
<td>4132</td>
<td>200 link</td>
</tr>
<tr>
<td>4082M</td>
<td>25 metre</td>
</tr>
<tr>
<td>4164M</td>
<td>30 metre</td>
</tr>
<tr>
<td>4288M</td>
<td>50 metre</td>
</tr>
<tr>
<td>4328M</td>
<td>50 metre</td>
</tr>
</tbody>
</table>

Reels Only

For 100, 150 and 200 ft., 100, 200 link, and 25, 30 and 50 metre tapes. Each....... $10.50
For 300 and 500 ft., and 100 metre tapes. Each..... 12.50

Packing: One in a box

**NOTE—Tapes with end feet marked in hundreds, no extra charge. Tapes with end feet marked in thousands, no extra charge.**

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**NEW PRICES**
ROSE TOOLS, INC.

“MICHIGAN” SURVEYORS CHAIN TAPES

Graduated on Babbitt Metal

A CHAIN TAPE THAT WILL STAND UP TO RAILROAD AND OTHER ROUGH WORK

This line is of heavy and extra tough steel, coated with white metal to resist rust. It is practically indestructible. Graduations are staked into the line. The line is marked one side only and a pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Has sturdy metal reel of improved pattern, heavily nickel plated, with polished hardwood handle and long folding winding handle. Line is detachable from reel.

Regular Markings

Tapes in feet—marked feet only every foot, end feet in 10ths.
Tapes in links—marked links and pence, with end links in 10ths.
Tapes in metres—marked first and last metre in decimetres, balance of length in metres.

Tapes Complete,
With Reel and Thongs

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3100</td>
<td>2100 100 ft. 3½</td>
<td>3½ 9.00</td>
<td>03100 &amp; 02100 100 ft. 2 2 5.00</td>
</tr>
<tr>
<td>3150</td>
<td>2150 150 ft. 5 10.00</td>
<td>03150 &amp; 02150 150 ft. 3 3 6.00</td>
<td></td>
</tr>
<tr>
<td>3200</td>
<td>2200 200 ft. 6 12.00</td>
<td>03200 &amp; 02200 200 ft. 4 4 7.00</td>
<td></td>
</tr>
<tr>
<td>3300</td>
<td>2300 300 ft. 8 14.00</td>
<td>03300 &amp; 02300 300 ft. 5 5 8.00</td>
<td></td>
</tr>
<tr>
<td>3500</td>
<td>2500 500 ft. 11½</td>
<td>14.00</td>
<td>03500 &amp; 02500 500 ft. 10 10 9.00</td>
</tr>
<tr>
<td>3600</td>
<td>2600 100 link 2½</td>
<td>16.00</td>
<td>03600 &amp; 02600 100 link 12 12 10.00</td>
</tr>
<tr>
<td>3800</td>
<td>2800 200 link 5½</td>
<td>18.00</td>
<td>03800 &amp; 02800 200 link 14 14 11.00</td>
</tr>
<tr>
<td>4000</td>
<td>3000 300 link 10½</td>
<td>20.00</td>
<td>04000 &amp; 03000 300 link 16 16 12.00</td>
</tr>
<tr>
<td>4200</td>
<td>3200 500 link 20</td>
<td>22.00</td>
<td>04200 &amp; 03200 500 link 20 20 13.00</td>
</tr>
<tr>
<td>5000</td>
<td>3500 1000 link 50</td>
<td>24.00</td>
<td>05000 &amp; 03500 1000 link 30 30 15.00</td>
</tr>
</tbody>
</table>

Tapes Only

For 100 ft., 100 link, 25 and 30 metre tapes, each... $3.50
For 150 and 200 ft., 200 link and 50 metre tapes, each... 5.25
For 300 ft. and 100 metre tapes, each... 7.00
For 500 ft. tapes, each... 8.50

Packing: One in a box

NOTE—Reels for above tapes over 100 feet long are four-arm pattern.

Half gauge mark put on any above tapes when specified. No extra charge.

This is a mark 2 4½ from zero, representing one-half standard gage of railroad track.

Reels with extra foot first and to 10ths, numbered from right to left, no extra charge.

Reels with measurements beginning at end (outer end of clip), no extra charge.

Babbitt Metal Chain Tapes can be supplied in 10 foot length.

NEW PRICES

THE “CRIPPLE CREEK” REEL

REEL AND FITTINGS ESPECIALLY DESIGNED FOR HANDLING THE LONGER CHAIN TAPES

This is an open disk reel, 8 inches in diameter, of steel, nickel plated. It is mounted on an aluminum frame 15 inches long.

The winding handle gives over 4 inches leverage and has extra large extension hand grip. The construction makes reeling up easy and rapid. A spring tension roller of hardwood ridges on the tape, causing it to wind evenly and tightly. Frame has leather loop for carrying reel suspended. While durable and designed for heavy tapes, the "Cripple Creek" is of medium weight.

Made in one size only. It will accommodate ½ inch wide etched Chain Tapes up to 1,000 feet long, ½ inch up to 500, and babbitt metal tapes up to 300 feet.

For the "Cripple Creek" reel we can supply a staff. This is of hardwood, 40 inches long, having at one end an aluminum socket and set screw for lifting the reel, at the other a steel point for firmly setting the ground.

"Cripple Creek" Reel only, complete. Weight each, 4½ lbs. Each... $42.00

Staff only for "Cripple Creek" Reel. Weight each, 2½ lbs. Each... 8.00

REEL No. 1914

AN ALL-STEEL LOCK HANDLE REEL FOR CHAIN TAPES

The winding reel is of 7 inch diameter and frame in which it is mounted is 14 inches long overall. The winding handle gives 5 inches leverage, and locks into either end of the frame, thus holding the tape at any point. Hardwood spring tension roller engages the tape, causing it to wind evenly and tightly. This reel is in full nickel plated finish. It is of medium weight and will withstand severe use.

No. 1914 reel can be used with any of our chains, pages 32, 33, 34 and 35, and is especially recommended for the longer lengths and the babbitt tapes. Made in three capacities, varying only in width.

In Ordering Always State Length, Width and Style of the Tape to be Used

<table>
<thead>
<tr>
<th>No. 1914</th>
<th>Reel, for 100 foot tapes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1914</td>
<td>Weight, 3½ lbs. Each... $16.30</td>
</tr>
<tr>
<td>1914</td>
<td>Reel, for 200 to 300 foot tapes</td>
</tr>
<tr>
<td>1914</td>
<td>Weight, 4 lbs. Each... 19.00</td>
</tr>
<tr>
<td>1914</td>
<td>Reel, for 500 foot tapes</td>
</tr>
<tr>
<td>1914</td>
<td>Weight, 4½ lbs. Each... 21.50</td>
</tr>
</tbody>
</table>

SHOULDERs FOR CHAIN TAPES

Some surveyors use a chain equipped with shoulders. These shoulders assist in locating the zero and last graduation. They are securely riveted to the tape and can be supplied on any of our chain tapes 3/16 inch or over in width.

Extra per pair... $0.85
“ARTISAN” STEEL TAPES


A STANDARD WIDTH AND WEIGHT, MEDIUM LENGTH TAPE AT MODERATE PRICE

The "Artisan" line affords the mechanic, at moderate cost, tapes 8 to 20 feet long with line and case heavy enough to stand hard service. An accurate steel tape in nickel plated steel case with knurled edge, affording firm grip. Flush folding handle opened by push button.

WITH THREE-EIGHTHS INCH TAPES

<table>
<thead>
<tr>
<th>No.</th>
<th>Marked feet, inches and 16ths, one side only</th>
<th>Length</th>
<th>Weight per doz., lbs.</th>
<th>Price, per doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>108</td>
<td>112</td>
<td>115</td>
<td>120</td>
<td>$24.00</td>
</tr>
<tr>
<td>112</td>
<td>12 ft.</td>
<td>15 ft.</td>
<td>20 ft.</td>
<td>$25.50</td>
</tr>
<tr>
<td>115</td>
<td></td>
<td></td>
<td>15 ft.</td>
<td>$28.00</td>
</tr>
<tr>
<td>120</td>
<td></td>
<td></td>
<td></td>
<td>$28.40</td>
</tr>
</tbody>
</table>

Marked metric and English

One side feet, inches and 16ths; other side millimetres throughout

<table>
<thead>
<tr>
<th>No.</th>
<th>112EM</th>
<th>115EM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>12 ft. (3 metres)</td>
<td>15 ft. (5 metres)</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>3½</td>
<td>4</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$34.20</td>
<td>$40.20</td>
</tr>
</tbody>
</table>

With Diameter Measurements

Enable one by applying tape to any circumference to arrive at its diameter down to 64ths of an inch.

Marked consecutive inches to 16ths one side; diameter measurements on back

<table>
<thead>
<tr>
<th>No.</th>
<th>108P</th>
<th>112P</th>
<th>115P</th>
<th>120P</th>
<th>*115PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>96 inches</td>
<td>144 inches</td>
<td>180 inches</td>
<td>240 inches</td>
<td>5 metres</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>3½</td>
<td>3½</td>
<td>4</td>
<td>4½</td>
<td>4</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$28.80</td>
<td>$34.20</td>
<td>$40.20</td>
<td>$48.00</td>
<td>$40.20</td>
</tr>
</tbody>
</table>

(*No. 115PM marked mm one side, diameter measure in metric other side)

Packing: ½ dozen in a box

NOTE—For "Artisan" Millmen's Tapes with hook on end for measuring steel sheets, tubes, etc., see page 36.
For "Artisan" Tire Tapes for fitters, see page 19.

MILLMEN'S STEEL TAPE WITH HOOK

"Artisan" Pattern

USED ON METAL SHEETS, TUBING, ETC., AT MILLS AND WAREHOUSES. ENABLES ONE MAN TO TAKE MEASUREMENTS.

This is the millmen tape which, because of its durability, we especially recommend. A ¾ inch wide standard weight steel tape, with flat steel hook riveted to first end. Zero falls at inside of hook. The line is marked one side only consecutive inches to 16ths, i.e., inches numbered from 1 to 144. "Nubian" Finish. Case of steel, nickel plated, and with knurled edge, affording firm grip. Flush folding handle opened by push button.

No. 112CH Length, 144 inches (12 ft.). Weight per doz., 4 lbs. Per doz. $32.40
Packing: One-half dozen in a box

Above tape line only, with hook, without case:
No. 0112CH Per doz. $18.00

MILLMEN'S STEEL TAPE WITH HOOK

Spring-wind Pattern

This tape differs from the one above principally in that it is spring-wind pattern and has narrower medium weight line.

The line is 5/16 inch wide. It is marked one side only consecutive inches to 16ths (inches numbered 1 to 144), "Nubian" Finish. Flat steel hook is riveted to first end and zero falls inside of hook. Case is of nickel-silver, spring-wind, with center stop.

No. 1512CH Length, 144 inches (12 ft.). Weight per doz., 3 lbs. Per doz. $36.00
Packing: One-half dozen in a box

Above tape line only, with hook, without case:
No. 01512CH Per doz. $19.80

NOTE—Millmen's tapes marked feet, inches and 16ths, price same as in consecutive inches. Specify as "112CH" and "1512CH", respectively.
POCKET TAPES ARE MORE UNIVERSALLY USED THAN ANY OTHER CLASS OF MEASURING TAPES

They find ready sale not only at hardware and tool stores, but also at engineering, technical and professional supply houses, as well as stationery and drug stores, novelty shops, etc. Our pocket tapes are of the most popular, durable types. All have metal cases, and are of sizes most convenient to carry.

POCKET STEEL TAPES

"Nubian" Finish

ROUND-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

This is the popular line of high grade Pocket Steel Tapes

WITH ONE-QUARTER INCH STEEL TAPES

Marked inches to 16ths, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>143</th>
<th>145</th>
<th>146</th>
<th>148</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch</td>
<td>60 inch</td>
<td>72 inch</td>
<td>96 inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>1</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$9.00</td>
<td>$11.40</td>
<td>$12.00</td>
<td>$18.00</td>
</tr>
</tbody>
</table>

(*When marked feet, inch and 16ths, known as No. 148F, price same as No. 148)

Marked inches to 16ths one side; feet, 16ths and 100ths of feet other side

<table>
<thead>
<tr>
<th>No.</th>
<th>143D</th>
<th>145D</th>
<th>146D</th>
<th>148D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch</td>
<td>60 inch</td>
<td>72 inch</td>
<td>96 inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$9.60</td>
<td>$12.60</td>
<td>$15.00</td>
<td>$21.00</td>
</tr>
</tbody>
</table>

Marked inches to 16ths one side; millimetres other side

<table>
<thead>
<tr>
<th>No.</th>
<th>143EM</th>
<th>145EM</th>
<th>146EM</th>
<th>148EM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 in. (1 metre)</td>
<td>60 in. (1¼ metre)</td>
<td>72 in. (2 metre)</td>
<td>96 in. (2¼ metre)</td>
</tr>
<tr>
<td>Wt. doz., lbs.</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$9.60</td>
<td>$12.60</td>
<td>$15.00</td>
<td>$21.00</td>
</tr>
</tbody>
</table>

Packing: One-half dozen in a box

NOTE—For Pocket Linen and Cotton Tapes, see pages 56 and 57

POCKET STEEL TAPES

"Nubian" Finish

SQUARE-EDGE, NICKEL-SILVER CASES, SPRING-WIND, CENTER STOP

Our finest line of pocket tapes, cases being of nickel-silver. Lengths up to 12 feet, the longest practical in spring-wind construction.

WITH ONE-QUARTER INCH STEEL TAPES

Marked inches to 16ths, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>153</th>
<th>155</th>
<th>156</th>
<th>158</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch</td>
<td>60 inch</td>
<td>72 inch</td>
<td>96 inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>1½</td>
<td>1¼</td>
<td>1¼</td>
<td>1½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$10.20</td>
<td>$13.20</td>
<td>$14.40</td>
<td>$21.00</td>
</tr>
</tbody>
</table>

<p>| Marked inches to 16ths one side; millimetres other side |</p>
<table>
<thead>
<tr>
<th>No.</th>
<th>153EM</th>
<th>155EM</th>
<th>156EM</th>
<th>158EM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch (1 metre)</td>
<td>60 inch (1¼ metre)</td>
<td>72 inch (2 metre)</td>
<td>96 inch (2¼ metre)</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>1½</td>
<td>1¼</td>
<td>1¼</td>
<td>1½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$10.80</td>
<td>$14.40</td>
<td>$17.40</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

WITH FINE-SIXTEENTHS INCH STEEL TAPES

Marked feet, inches and 16ths, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>1510</th>
<th>1512</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>10 feet</td>
<td>12 feet</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>2½</td>
<td>2½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$30.00</td>
<td>$32.40</td>
</tr>
</tbody>
</table>

Marked feet, inches and 16ths one side; feet, 10ths and 100ths of feet other side

<table>
<thead>
<tr>
<th>No.</th>
<th>1510D</th>
<th>1512D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>10 feet</td>
<td>12 feet</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$33.60</td>
<td>$37.20</td>
</tr>
</tbody>
</table>

Marked feet, inches and 16ths one side; millimetres other side

<table>
<thead>
<tr>
<th>No.</th>
<th>1510EM</th>
<th>1512EM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>10 feet (3 metres)</td>
<td>12 feet (3½ metres)</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$33.60</td>
<td>$37.20</td>
</tr>
</tbody>
</table>

With Diameter Measurement

Inches to 16ths one side; other side diameter measurement, enabling one by applying tape to circumference to determine directly the diameter down to 1/64th inch.

<table>
<thead>
<tr>
<th>No.</th>
<th>1512P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>144 inches (3½ ft.)</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>2½</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$37.20</td>
</tr>
</tbody>
</table>

Packing: All packed ¼ dozen in a box

NOTE—For Milliners Tape with hook, No. 1511CH, see page 38.
**POCKET STEEL TAPES WITH ARCHITECTS SCALES**
FOR QUICKLY MEASURING SCALE DRAWINGS OR BLUE PRINTS OF BUILDINGS, PLANS, ETC.

Tapes of best quality steel, ½ inch wide, in "Nubian" Finish. The cases are nickel plated and polished. They are round-edge pattern, spring-wind with center stop.

<table>
<thead>
<tr>
<th>No.</th>
<th>60-inch</th>
<th>Weight per doz.</th>
<th>Price per doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 391</td>
<td>60-inch</td>
<td>1 ½ lbs.</td>
<td>$12.00</td>
</tr>
</tbody>
</table>

**POCKET STEEL TAPE WITH ARCHITECTS AND ENGINEERS SCALES**


One side of tape marked full length upper edge to millimetres, lower edge inches to 16ths; other side laid off in 12-inch sections, marked both edges, and carrying 3/8, 3/4, 1/2, 1/4, 1, 1/2 and 3-inch architect's scales with subdivisions, and engineer's scales of 10, 20, 30 and 40 parts to the inch.

<table>
<thead>
<tr>
<th>No. 398</th>
<th>2 metres (78-¾ inches)</th>
<th>Weight per doz.</th>
<th>Price per doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 lbs.</td>
<td>$17.50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**METRIC CONVERSION STEEL TAPE**

For determining with ease and certainty the metric equivalents of English weights and measures, and vice versa. On this tape the English and metric weights and measures are placed in their corresponding relations so one can be converted into the other directly. Especially valuable to exporters, importers, shippers, and others.

A 5/16 inch wide, 2 metre (78-¾ inch) steel tape in "Nubian" Finish. Case of nickel-silver, square-edge, spring-wind with center stop. Line marked one side upper edge millimetres, lower edge inches to 16ths; other side marked upper edge to represent pounds and ounces, lower edge kilograms also properly subdivided.

<table>
<thead>
<tr>
<th>No. 396</th>
<th>2 metres (78-¾ inches)</th>
<th>Weight per doz.</th>
<th>Price per doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 lbs.</td>
<td>$31.20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
POINT OF BEGINNING OF MEASUREMENT ON STEEL TAPES

Showing tape measuring from end of ring (outer end)

Showing tape with blank space first end

OUR STANDARD PRACTICE ON STEEL TAPES IS AS FOLLOWS:

All catalogued long steel tapes marked one side only measure from end of ring, except:

1. Engineers Pattern Tapes (which measure from end of tape).
2. Chain Tapes (which have blank space first end).
3. Plumb Bob Tapes (which measure from lower end of bob).

All catalogued long steel tapes marked both sides have blank space first end, except:

1. Standard pattern tapes marked links on back (which measure from end of ring).
2. Engineers Pattern Tapes (which measure from end of tape).
3. Plumb Bob Tapes (which measure from lower end of bob).

All catalogued Pocket Steel Tapes and "Artisan" Tapes, marked one or both sides, have blank space first end, except:

1. Millmens Tapes (which measure from inside of hook).

NOTE—While the above is our standard practice, any of our steel tapes (except pocket tapes) will, without extra charge, be furnished in either style.

SPECIAL GRADUATIONS ON STEEL TAPES

We are prepared to put the following special graduations on steel tapes, aside from the regular graduations listed throughout Section One of this Catalog. (Tapes in special graduations do not have Instantaneous Readings.) Prices for these special markings are quoted on request.

ONE-QUARTER INCH STEEL TAPES:

Feet and inches only, inches not subdivided.
Feet, inches and quarters.
Feet, inches and 32nds.
Feet, inches and 8ths, left hand (figures running right to left).
Feet, 10ths and 100ths of feet, left hand (figures running right to left).
Consecutive inches to 10ths (up to 300 inches, 25 feet).
Links and poles (also links to 10ths and to 100ths throughout).
Diameter measurements.
Slope correction measurements (1/4 inch etched Chain Tapes).
Feet, 10ths and 100ths of feet (special on Chain Tapes).
Type measurements (pocket tapes).
Vasa measurements.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.

THREE-EIGHTHS INCH STEEL TAPES:

Feet and inches only, inches not subdivided.
Feet, inches and quarters.
Feet, inches and 10ths of inches.
Feet, inches and 32nds.
Feet, inches and 8ths, left hand (figures running right to left).
Feet, 10ths and 100ths of feet, left hand (figures running right to left).
Consecutive inches to 10ths (up to 600 inches, 30 feet).
Yards and fractions of yards to 1/32 yard (up to 20 yards).
Yards and quarter yards only (up to 20 yards).
Links and poles (also links to 100ths throughout).
Millimetres throughout entire length.
Burgos (Spanish Vara) measurement.
Other Vara measurements.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.
Vereshch and Sagen (Russian) measurements.

ONE-HALF INCH STEEL TAPES:

Feet and inches only, inches not subdivided.
Feet, inches and 10ths of inches.
Feet, inches and 12ths of inches.
Feet, inches and 16ths (see foot notes).
Feet, inches and 8ths, left hand (figures running right to left).
Feet, 10ths and 100ths of feet, left hand (figures running right to left).
Consecutive inches to 8ths (up to 600 inches, 30 feet).
Links and poles.
Millimetres throughout entire length.
Burgos (Spanish Vara) measurement.
Other Vara measurements.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.
Vereshch and Sagen (Russian) measurements.
Section Two

WOVEN MEASURING TAPES

Our line of Woven Tapes is diversified, ranging from the highest grade Metallic to the common Ass Skin Tape. These are to be seen in daily use everywhere.

Our Woven Tapes are of selected yarns, woven to width in our own factories, finished and coated to best resist stretching and shrinking under actual conditions of use. They are accurate within reasonable limits. However, the accuracy of such tapes cannot be guaranteed and, because of the very nature of the material, no fabric line should be depended upon for very close work. It is well to occasionally check up such tapes with a steel line, and for precise work a steel tape should always be used. However, for many kinds of work woven tapes are most practical and give satisfactory results, particularly the better grades.

One of the features of our Metallic Tapes is the patent threader, a device making the removal of an old and attaching of a new line most simple.

All cases are of good construction; those of leather are metal lined.

<table>
<thead>
<tr>
<th>Metallic Tapes Folding Handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE WIDELY USED, HIGHEST GRADE WOVEN TAPE</td>
</tr>
<tr>
<td>The Metallic is recommended for use where it is not practical to employ a steel tape and where the closest degree of accuracy is not required. It is the best woven line. This tape we weave, coat and mark by the most approved methods known to insure satisfactory service. The line is 3/8 inch wide, of linen with metallic warp. It has leather reinforcement first end. It is clearly marked and has prominent figures. The case is of genuine russet leather, hand-stitched, with metal liner and substantial folding handle. Trimmings nickel plated. Patent threader shown above makes removal of an old and attaching of a new line most simple.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WITH FIVE-EIGHTHS INCH METALLIC TAPES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marked one side only</td>
</tr>
<tr>
<td>Feet and inches</td>
</tr>
<tr>
<td>Feet and 10ths</td>
</tr>
<tr>
<td>Length, feet</td>
</tr>
<tr>
<td>Weight each, ozs.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
<tr>
<td>Marked metric one side only (metres to centimetres throughout)</td>
</tr>
<tr>
<td>No. 500 1/2M</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight each, ozs.</td>
</tr>
<tr>
<td>Price, each</td>
</tr>
</tbody>
</table>
| Marked metric and English (One side metric (metres to centimetres throughout) One side English (feet and inches)
| No. 500 1/2ME | 501ME | 502ME | 503ME | 504ME | 505ME | 506ME |
| Length, metres | 5 | 10 | 15 | 20 | 25 | 30 |
| Length, feet | 15 | 30 | 45 | 60 | 75 | 90 |
| Weight each, ozs. | 9 | 11 | 13 | 15 | 17 | 19 |
| Price, each | $3.20 | $3.80 | $4.70 | $5.40 | $6.20 | $7.60 |
| Marked links on back (The use of tapes marked links on back has been practically discontinued in the United States) |
| Feet and inches one side, links on back | No. 500L | 501L | 502L | 503L | 504L | 505L | 506L |
| Feet and 10ths one side, links on back | No. 500DL | 501DL | 502DL | 503DL | 504DL | 505DL | 506DL |
| Length, feet | 25 | 30 | 35 | 40 | 45 | 50 | 55 |
| Weight each, ozs. | 9 | 11 | 13 | 15 | 17 | 24 | 24 |
| Price, each | $3.25 | $3.80 | $4.70 | $5.40 | $6.20 | $7.60 | $7.60 |
| Packing: One in a box |

NOTE—For Metallic Tapes without cases, see page 48
METALLIC TAPES

Double-Folding Flush Handle

OUR BEST WOVEN TAPE, IN FLUSH HANDLE CASE

Recommended for use where impractical to employ a steel tape and where the closest degree of accuracy is not required. It is the best woven line. This tape we weave, coat, and mark by the most approved methods known to insure satisfactory service. The 3/8 inch wide line is of linen, with metallic warp. It has leather reinforcement first end, is clearly marked and has prominent figures. Case of genuine russet leather, hand-stitched, with metal liner. The winding handle is of superior construction, double-folding flush pattern opened by push pin. Nickel plated trimmings. Patent threader shown above makes removal of an old and attaching of a new line most simple.

WITH FIVE-EIGHTH INCH METALLIC TAPES

<table>
<thead>
<tr>
<th>Marked one side only</th>
<th>Feet and inches</th>
<th>No.</th>
<th>600</th>
<th>601</th>
<th>602</th>
<th>603</th>
<th>604</th>
<th>605</th>
<th>606</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Feet and 10ths</td>
<td>No.</td>
<td>600D</td>
<td>601D</td>
<td>603D</td>
<td>604D</td>
<td>605D</td>
<td>606D</td>
<td></td>
</tr>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>11</td>
<td>11</td>
<td>13</td>
<td>14</td>
<td>16</td>
<td>18</td>
<td>21</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$3.80</td>
<td>$4.35</td>
<td>$5.25</td>
<td>$5.80</td>
<td>$6.25</td>
<td>$7.80</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marked metric one side only (metres to centimetres throughout)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>600 1/4 M</td>
<td>660 1/4 M</td>
<td>690 1/4 M</td>
<td>690 1/4 M</td>
<td>690 1/4 M</td>
<td>690 1/4 M</td>
<td>690 1/4 M</td>
<td>690 1/4 M</td>
<td>690 1/4 M</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weight, each</td>
<td></td>
<td>$3.60</td>
<td>$4.15</td>
<td>$5.00</td>
<td>$5.80</td>
<td>$6.90</td>
<td>$7.80</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metric and English</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One side metric, metric and English, links on back</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>600 1/4 M</td>
<td>601 1/4 M</td>
<td>603 1/4 M</td>
<td>604 1/4 M</td>
<td>605 1/4 M</td>
<td>606 1/4 M</td>
<td>606 ME</td>
<td>606 ME</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Length, feet</td>
<td></td>
<td>$3.90</td>
<td>$4.50</td>
<td>$5.45</td>
<td>$6.15</td>
<td>$7.25</td>
<td>$8.30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$3.90</td>
<td>$4.50</td>
<td>$5.45</td>
<td>$6.15</td>
<td>$7.25</td>
<td>$8.30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marked links on back (The use of tapes marked on back has been practically discontinued in the United States)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feet and inches one</td>
<td>No. 600L</td>
<td>601L</td>
<td>603L</td>
<td>604L</td>
<td>605L</td>
<td>606L</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feet and 10ths one</td>
<td>No. 600DL</td>
<td>601DL</td>
<td>603DL</td>
<td>604DL</td>
<td>605DL</td>
<td>606DL</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$4.00</td>
<td>$4.50</td>
<td>$5.45</td>
<td>$6.15</td>
<td>$7.25</td>
<td>$8.30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metric and English</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feet and inches</td>
<td>No. 600</td>
<td>600L</td>
<td>600DL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Feet and 10ths</td>
<td>No. 600D</td>
<td>600DL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$1.90</td>
<td>$1.90</td>
<td>$2.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

JUNIOR METALLIC TAPES

Folding Handle

SMALLEST, MOST CONVENIENT TO CARRY, OF OUR LONG WOVEN TAPES. POPULAR FOR LIGHT WORK

The Junior is a narrower (3/8 inch) Metallic line compactly put up. It is about one-half the size and weight of our 3/8 inch tapes. The line is of linen with metallic warp and is clearly marked. Case is of genuine russet leather with metal liner. It has folding flush handle opened by push pin on opposite side. Nickel plated trimmings. Patent threader shown above makes removal of an old and attaching of a new line most simple. This tape is not made over 66 feet long.

WITH THREE-EIGHTH INCH JUNIOR METALLIC TAPES

<table>
<thead>
<tr>
<th>Marked one side only</th>
<th>Feet, inches and 8ths of inches</th>
<th>No. 600</th>
<th>601</th>
<th>602</th>
<th>603</th>
<th>604</th>
<th>605</th>
<th>607</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Feet, 10ths and 10ths of feet</td>
<td>No. 600D</td>
<td>601D</td>
<td>602D</td>
<td>603D</td>
<td>604D</td>
<td>605D</td>
<td>606D</td>
</tr>
<tr>
<td></td>
<td>Weight, each oz.</td>
<td>10</td>
<td>11</td>
<td>13</td>
<td>14</td>
<td>14</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$3.25</td>
<td>$3.60</td>
<td>$4.10</td>
<td>$4.60</td>
<td>$5.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marked metric and English</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>One side metric, metric and English, links on back</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
<td>600 1/8 ME</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Length, feet</td>
<td></td>
<td>$5.20</td>
<td>$5.80</td>
<td>$6.40</td>
<td>$6.90</td>
<td>$7.30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$5.20</td>
<td>$5.80</td>
<td>$6.40</td>
<td>$6.90</td>
<td>$7.30</td>
<td></td>
</tr>
</tbody>
</table>

METALLIC AND JUNIOR METALLIC TAPES WITHOUT CASES

METALLIC (3/8 INCH WIDE) TAPES ONLY

For No. 500 and No. 600 Series Tapes

<table>
<thead>
<tr>
<th>Marked one side only</th>
<th>Ft. &amp; in.</th>
<th>No. 500</th>
<th>500A</th>
<th>500L</th>
<th>500M</th>
<th>500N</th>
<th>500O</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ft. &amp; 10ths</td>
<td>No. 500D</td>
<td>500DL</td>
<td>500ED</td>
<td>500ED</td>
<td>500ED</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weight, each oz.</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td></td>
<td>$3.00</td>
<td>$3.60</td>
<td>$4.30</td>
<td>$5.00</td>
<td></td>
</tr>
</tbody>
</table>

METRIC:

<table>
<thead>
<tr>
<th>Marked one side only</th>
<th>No. 500</th>
<th>500L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

Packing: One in a box

NOTE: For Metallic Tapes without cases, see page 48
"STERLING" LINEN TAPES

A STRICLY HIGH GRADE TAPE ESPECIALLY POPULAR WITH TELEPHONE AND TELEGRAPH COMPANIES, ETC., FOR ORDINARY WORK

This line, in general appearance similar to the Metallic, is without the metallic warp. While no woven tape should be depended upon for the closest degree of accuracy, the "Sterling" is well made from the best materials and is serviceable.

Five-eighths inch wide linen tape with leather reinforcement first end. Markings are clear and figures prominent. Case of genuine russet leather, metal lined, with folding flush handle and nickel plated trimmings.

WITH FIVE-EIGHTHS INCH LINEN TAPES

<table>
<thead>
<tr>
<th>Feet and inches</th>
<th>No. 400</th>
<th>401</th>
<th>403</th>
<th>404</th>
<th>405</th>
<th>406</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet and 10ths</td>
<td>400D</td>
<td>401D</td>
<td>403D</td>
<td>404D</td>
<td>405D</td>
<td>406D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>78</td>
<td>106</td>
</tr>
<tr>
<td>Weight, oz</td>
<td>8</td>
<td>11</td>
<td>12</td>
<td>17</td>
<td>19</td>
<td>24</td>
</tr>
<tr>
<td>Price, each</td>
<td>$3.00</td>
<td>$3.35</td>
<td>$4.00</td>
<td>$4.70</td>
<td>$5.10</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

Marked metric one side only (metres to centimetres throughout)

<table>
<thead>
<tr>
<th>No.</th>
<th>400 M</th>
<th>401M</th>
<th>403M</th>
<th>404M</th>
<th>405M</th>
<th>406M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Weight, oz</td>
<td>8</td>
<td>11</td>
<td>12</td>
<td>17</td>
<td>20</td>
<td>24</td>
</tr>
<tr>
<td>Price, each</td>
<td>$2.60</td>
<td>$3.35</td>
<td>$4.00</td>
<td>$4.70</td>
<td>$5.40</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>Feet &amp; in.</th>
<th>No. 400M</th>
<th>401M</th>
<th>403M</th>
<th>404M</th>
<th>405M</th>
<th>406M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet &amp; 10ths</td>
<td>400D</td>
<td>401D</td>
<td>403D</td>
<td>404D</td>
<td>405D</td>
<td>406D</td>
</tr>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>78</td>
<td>106</td>
</tr>
<tr>
<td>Weight, oz</td>
<td>8</td>
<td>11</td>
<td>12</td>
<td>17</td>
<td>19</td>
<td>24</td>
</tr>
<tr>
<td>Price, each</td>
<td>$3.10</td>
<td>$3.60</td>
<td>$4.20</td>
<td>$5.10</td>
<td>$5.90</td>
<td>$6.65</td>
</tr>
</tbody>
</table>

Packing: One in a box

"STERLING" TAPES WITHOUT CASES

<table>
<thead>
<tr>
<th>Ft. &amp; in.</th>
<th>No. 0400</th>
<th>0401</th>
<th>0403</th>
<th>0405</th>
<th>0406</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ft. &amp; 10ths</td>
<td>0400D</td>
<td>0401D</td>
<td>0403D</td>
<td>0405D</td>
<td>0406D</td>
</tr>
<tr>
<td>Metric, No. 0400 M</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>78</td>
</tr>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>78</td>
</tr>
<tr>
<td>Length, metres</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.95</td>
<td>$1.75</td>
<td>$2.40</td>
<td>$2.80</td>
<td>$3.00</td>
</tr>
</tbody>
</table>

Marked metric both sides

<table>
<thead>
<tr>
<th>Metric, English, No. 0400 M</th>
<th>0401ME</th>
<th>0403ME</th>
<th>0405ME</th>
<th>0407ME</th>
<th>0409ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>15</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>78</td>
</tr>
<tr>
<td>Price, each</td>
<td>$1.10</td>
<td>$1.95</td>
<td>$2.60</td>
<td>$3.15</td>
<td>$3.90</td>
</tr>
</tbody>
</table>

Packing: One in a box

ASS SKIN TAPES

LOWEST IN PRICE OF OUR LONG WOVEN TAPES.
DESIGNED FOR ORDINARY WORK.

This popular priced tape would be convenient in every home, and particularly on the farm, where long measurements are often to be taken.

Half inch wide cotton line, clearly marked and well coated. Sheet steel case, brass bound, with sides cream enameled. Brass folding handle and trimmings.

WITH ONE-HALF INCH COTTON TAPES

<table>
<thead>
<tr>
<th>No.</th>
<th>710</th>
<th>711</th>
<th>713</th>
<th>714</th>
<th>715</th>
<th>716</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>23</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight per dz., lbs.</td>
<td>2½</td>
<td>3½</td>
<td>4</td>
<td>5½</td>
<td>5½</td>
<td>7</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$6.00</td>
<td>$7.20</td>
<td>$9.00</td>
<td>$10.60</td>
<td>$13.20</td>
<td>$16.20</td>
</tr>
</tbody>
</table>

Marked metric and English

<table>
<thead>
<tr>
<th>One side metric (feet and inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No.</td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>Length, metres</td>
</tr>
<tr>
<td>Weight per dz., lbs.</td>
</tr>
<tr>
<td>Price, per doz.</td>
</tr>
</tbody>
</table>

Packing: One in a box, ¾ doz. in a carton.
"UNIVERSAL" TAPES

Medium Grade

EXTRA GRADE COTTON LINE IN ENAMELED METAL CASE

Line clearly marked and well coated. Sheet steel case, brass bound, with sides maroon enameled. Brass folding handle and trimmings.

WITH ONE-HALF INCH EXTRA GRADE COTTON TAPES

Marked feet and inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>720</th>
<th>721</th>
<th>723</th>
<th>724</th>
<th>725</th>
<th>726</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>23</td>
<td>31</td>
<td>40</td>
<td>50</td>
<td>56</td>
<td>7</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$8.40</td>
<td>$10.00</td>
<td>$11.40</td>
<td>$13.20</td>
<td>$15.60</td>
<td>$19.20</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric (metres to centimetres throughout)
One side English (feet and inches)

<table>
<thead>
<tr>
<th>No.</th>
<th>721ME</th>
<th>723ME</th>
<th>724ME</th>
<th>725½ME</th>
<th>726ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Length, feet</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>82</td>
<td>100</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>3</td>
<td>4</td>
<td>5½</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$11.40</td>
<td>$14.40</td>
<td>$17.40</td>
<td>$22.80</td>
<td>$25.80</td>
</tr>
</tbody>
</table>

Packing: One in a box, ½ dozen in a carton

NOTE—For this line in pressed leather case, see page 55

"UNIVERSAL" TAPES

Extra Grade

WIDELY KNOWN AS THE "RAILROAD TAPE", SEE PARTICULARLY No. 733R. AN INEXPENSIVE, YET STRONG TAPE, AFFORDING A VERY FAIR DEGREE OF ACCURACY FOR A WOVEN LINE

This tape we recommend for any rough measuring. Wherever tried out it is rapidly replacing cheap cotton tapes.

The line is extra durable, being corded with pure, unbleached linen. It is ½ inch wide and well coated. Sheet steel case, brass bound, with sides maroon enameled. Brass folding handle and trimmings.

The Reinforced Tape, No. 733R, Is An Especially Good Value. It Is Standard Equipment of Most Railroads for Common Maintenance Work. It Has First Three Feet of Tape Double and Stitched. This Prolongs the Life of the Tape, the First End Receiving By Far the Most Wear.

WITH ONE-HALF INCH LINEN CORDED TAPES

Marked feet and inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>730</th>
<th>731</th>
<th>733</th>
<th>733R (reinforced)</th>
<th>734</th>
<th>735</th>
<th>736</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>23</td>
<td>31</td>
<td>40</td>
<td>50</td>
<td>56</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$9.00</td>
<td>$10.20</td>
<td>$14.40</td>
<td>$16.80</td>
<td>$16.20</td>
<td>$18.00</td>
<td>$22.20</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric (metres to centimetres throughout)
One side English (feet and inches)

<table>
<thead>
<tr>
<th>No.</th>
<th>731ME</th>
<th>733ME</th>
<th>733R-ME</th>
<th>734ME</th>
<th>735½ME</th>
<th>736ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>10</td>
<td>15</td>
<td>18</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Length, feet</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>82</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>3½</td>
<td>4½</td>
<td>4½</td>
<td>5½</td>
<td>6½</td>
<td>7</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$12.00</td>
<td>$17.40</td>
<td>$19.80</td>
<td>$20.40</td>
<td>$25.20</td>
<td>$28.80</td>
</tr>
</tbody>
</table>

Packing: One in a box, ½ dozen in a carton

NOTE—For this line in pressed leather case, see page 55.

For ½ inch and ¼ inch corded lines in pressed leather cases, see pages 54 and 55.
"UNIVERSAL" TAPES
Extra Grade

PREFERRED BY SOME TO A METAL CASE, YET LOWER IN PRICE THAN THE GENUINE LEATHER

This is our linen cored line like the No. 730 and 930 series but put up in case of medium grade.

A strong tape with very fair degree of accuracy for a woven line. Half inch wide, cored with pure unbleached linen, and well coated. Pressed leather case of russet color. Heavy brass folding handle, brass trimmings.

WITH ONE-HALF INCH LINEN CORED TAPES

Marked feet and inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>1030</th>
<th>1031</th>
<th>1032</th>
<th>1034</th>
<th>1035</th>
<th>1036</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>3 ½</td>
<td>4</td>
<td>4 ½</td>
<td>6</td>
<td>6 ½</td>
<td>7</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$16.50</td>
<td>$18.00</td>
<td>$25.80</td>
<td>$30.60</td>
<td>$33.00</td>
<td>$38.40</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric, one side English (feet and inches)

<table>
<thead>
<tr>
<th>No.</th>
<th>1031ME</th>
<th>1033ME</th>
<th>1034ME</th>
<th>1035½ME</th>
<th>1036ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>4 ½</td>
<td>6</td>
<td>6 ½</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$20.40</td>
<td>$28.80</td>
<td>$34.60</td>
<td>$41.40</td>
<td>$45.00</td>
</tr>
</tbody>
</table>

"UNIVERSAL" TAPES
Medium Grade

EXTRA GRADE COTTON LINE IN PRESESSED LEATHER CASE

Line clearly marked and well coated. Put up in pressed leather case of russet color. Heavy brass folding handle, brass trimmings.

WITH ONE-HALF INCH EXTRA GRADE COTTON TAPES

Marked feet and inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>1020</th>
<th>1021</th>
<th>1023</th>
<th>1024</th>
<th>1025</th>
<th>1026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>3 ½</td>
<td>4</td>
<td>4 ½</td>
<td>6</td>
<td>6 ½</td>
<td>7</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$12.60</td>
<td>$14.40</td>
<td>$20.20</td>
<td>$22.80</td>
<td>$25.80</td>
<td>$32.40</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric, one side English (feet and inches)

<table>
<thead>
<tr>
<th>No.</th>
<th>1021ME</th>
<th>1023ME</th>
<th>1024ME</th>
<th>1025½ME</th>
<th>1026ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>4 ½</td>
<td>6</td>
<td>6 ½</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$16.20</td>
<td>$24.00</td>
<td>$27.60</td>
<td>$33.60</td>
<td>$38.40</td>
</tr>
</tbody>
</table>

Packing: All above, one in a box, ¼ doz. in a carton

NOTE—For 1030 series tape in leather case, see page 51, and in enameled metal case, see page 52.

"UNIVERSAL" TAPES
Extra Grade

Linen cored line in leather case

FOR THOSE WHO WISH A GOOD YET MEDIUM PRICED TAPE

This is our lowest priced woven tape in genuine leather case.

The line is durable, being cored with pure, unbleached linen. It is ½ inch wide and well coated. It has a very fair degree of accuracy for a woven line. Case is of genuine russet leather, hand-stitched and with metal liner. Heavy brass folding handle, brass trimmings.

WITH ONE-HALF INCH LINEN CORED TAPES

Marked feet and inches, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>930</th>
<th>931</th>
<th>933</th>
<th>934</th>
<th>935</th>
<th>936</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>4 ½</td>
<td>5 ½</td>
<td>6 ½</td>
<td>7 ½</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$24.60</td>
<td>$27.00</td>
<td>$31.80</td>
<td>$33.60</td>
<td>$36.00</td>
<td>$40.80</td>
</tr>
</tbody>
</table>

Marked metric and English

One side metric, one side English (feet and inches)

<table>
<thead>
<tr>
<th>No.</th>
<th>931ME</th>
<th>933ME</th>
<th>934ME</th>
<th>935½ME</th>
<th>936ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, feet</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>5 ½</td>
<td>6 ½</td>
<td>7 ½</td>
<td>8 ½</td>
<td></td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$29.40</td>
<td>$34.80</td>
<td>$38.40</td>
<td>$43.80</td>
<td>$47.40</td>
</tr>
</tbody>
</table>

Packing: One in a box, ¼ doz. in a carton

NOTE—For this tape ½ inch wide, see page 51.

For this tape in metal case, see page 52.

For this tape in pressed leather case, see page 52.
"UNIVERSAL" TAPES
Extra Grade
Linen corded line in leather case

THE WIDTH AND WEAVE GIVE THIS TAPE EXTRA DURABILITY

Exactly same as No. 930 series, page 54, but with tape ⅜ inch wide, affording greater durability and more prominent figures. This line is corded with pure, unbleached linen and is well coated. It has great tensile strength and holds its length well. Case of genuine russet leather, hand-stitched, and with metal liner. Heavy brass folding handle, brass trimmings.

WITH FIVE-EIGHTHS INCH LINEN CORDED TAPES

<table>
<thead>
<tr>
<th>No.</th>
<th>940</th>
<th>941</th>
<th>942</th>
<th>943</th>
<th>944</th>
<th>945</th>
<th>946</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>25</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>75</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
<td>9/16</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$27.00</td>
<td>$29.40</td>
<td>$36.00</td>
<td>$38.40</td>
<td>$40.80</td>
<td>$45.00</td>
<td></td>
</tr>
</tbody>
</table>

Marked metric and English
One side English (feet and inches)

<table>
<thead>
<tr>
<th>No.</th>
<th>941ME</th>
<th>942ME</th>
<th>944ME</th>
<th>945½ME</th>
<th>946ME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, metres</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>33</td>
<td>50</td>
<td>66</td>
<td>82</td>
<td>100</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$31.80</td>
<td>$39.60</td>
<td>$42.60</td>
<td>$48.00</td>
<td>$51.60</td>
</tr>
</tbody>
</table>

Packing: One in a box, ½ doz. in a carton

NOTE—For this tape in ⅜ inch width, see page 54

POCKET LINEN TAPES

ROUND-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

These are our best woven pocket tapes. They are, in a fabric line, the equivalent of the No. 143 Pocket Steel Tapes, page 39. The lines are enamelled linen, woven to width in our own factories. Pocket Linen Tapes, appealing also to the ladies, are sold through many channels.

WITH ONE-QUARTER INCH LINEN TAPES
Marked inches to 8ths, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>173</th>
<th>175</th>
<th>176</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch</td>
<td>60 inch</td>
<td>72 inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$6.60</td>
<td>$7.80</td>
<td>$9.00</td>
</tr>
</tbody>
</table>

Marked inches to ⅜ths one side; millimetres other side

<table>
<thead>
<tr>
<th>No.</th>
<th>173EM</th>
<th>175EM</th>
<th>176EM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>⅜ inch</td>
<td>⅜ inch</td>
<td>⅜ inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$7.20</td>
<td>$8.40</td>
<td>$9.60</td>
</tr>
</tbody>
</table>

WITH FIVE-SIXTEENTHS INCH LINEN TAPES
Marked inches to ⅜ths, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>188</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, 96 inches</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>$15.00</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

Marked feet, inches and ⅜ths, one side only

<table>
<thead>
<tr>
<th>No. 188F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, 8 ft.</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
</tr>
<tr>
<td>Price, per doz.</td>
</tr>
</tbody>
</table>

NOTE—For Pocket Steel Tapes, see pages 39, 40 and 41.

"MARVEL" POCKET LINEN TAPES

SQUARE-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

Our popular priced linen pocket tapes, a companion line to the "Marvel" Pocket Steel Tapes, page 41. These tapes also sell in quantities through the department stores, novelty shops and bazaars, as well as the hardware trade. One-quarter inch wide enamelled linen tapes (woven to width).

The "Marvel" is a good medium grade tape.

WITH ONE-QUARTER INCH LINEN TAPES
Marked inches to ⅜ths, one side only

<table>
<thead>
<tr>
<th>No.</th>
<th>3173</th>
<th>3175</th>
<th>3176</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch</td>
<td>60 inch</td>
<td>72 inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$3.50</td>
<td>$4.50</td>
<td>$6.00</td>
</tr>
</tbody>
</table>

Marked inches to ⅜ths one side; millimetres other side

<table>
<thead>
<tr>
<th>No.</th>
<th>3173EM</th>
<th>3175EM</th>
<th>3176EM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>36 inch</td>
<td>60 inch</td>
<td>72 inch</td>
</tr>
<tr>
<td>Weight per doz., lbs.</td>
<td>⅜</td>
<td>⅜</td>
<td>⅜</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$4.80</td>
<td>$6.00</td>
<td>$6.60</td>
</tr>
</tbody>
</table>

NOTE—For "Marvel" Pocket Steel Tapes, see page 41.
SPECIAL GRADUATIONS ON WOVEN TAPEs

We are prepared to put the following special graduations on woven tapes, aside from the regular or common graduations listed throughout Section Two of this catalog. Prices quoted on application.

3/32 INCH METALLIC AND "STERLING" LINEN TAPEs:
- Feet only, not subdivided.
- Burgos (Spanish Vara) measurement.
- Palmos (Catalan) measurement.
- Argentine Vara measurement.
- Nya and Gamla (Swedish) measurements.
- Norsk (Norwegian) measurement.

1/4 INCH LINEN CORDED TAPEs:
- Gamla (Swedish) measurement.
- Norsk (Norwegian) measurement.

1/4 INCH POCKET LINEN TAPEs:
- Gamla (Swedish) measurement.
- Norsk (Norwegian) measurement.

POINT OF BEGINNING OF MEASUREMENTS ON WOVEN TAPEs

OUR STANDARD PRACTICE ON WOVEN TAPEs IS AS FOLLOWS:

All catalogued long woven tapes, single or double graduation, measure from outer end of ring.

All woven pocket tapes have blank space first end.

NOTE—Metallic and "Sterling" Linen tapes will, without extra charge, be furnished with short blank space first end when so specified.
Section Three
MECHANICAL TOOLS
SMALL TOOL DIVISION

THESE goods are the product of our Small Tool Division, a separate and entirely distinct manufacturing division of our plant, yet a unit under the same general management as the production of our Measuring Tapes, etc.

The designing and producing of these Fine Tools is in the hands of engineers and experts not only of broad experience in the making of such goods, but recognized authorities in that line.

Thus in its Small Tool Division the company brings to the manufacture, inspection, etc., of these lines that specialized experience and care necessary to insure each tool coming up to the highest standard.

At the same time, being a part of the organization of The Lufkin Rule Co. and governed by the same general policies, is assurance that there will be built for this entire line the same high reputation that Lufkin Tapes and Rules have borne for many years.

Steel Scales and Folding Steel Rules we have long manufactured. A most noteworthy improvement in steel rules, Readable Graduations, was first brought out by this company some years ago. It consists of numbering the 64ths every eighth line, which greatly facilitates reading.

To the Tools shown in this Section others will steadily be added completing the line.

Lufkin Mechanical Tools have many improved and exclusive features that will make them the most popular with mechanics and dealers.
DIRECTIONS FOR READING MICROMETER CALIPERS WITH TEN-THOUSANDTHS GRADUATIONS

Measurements to ten-thousandths of an inch are obtained by the use of a vernier, or a series of divisions placed on the hub of our Micrometer. It will be noted that these divisions on the hub are ten in number, occupying the same space as nine divisions on the sleeve, and numbered 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0.

When the Micrometer is opened for taking a measurement to thousandths, the sleeve is turned to the left and the reading taken on the hub by lines .025, .050, .075, .100. The thousandths between these points are read off from the zero line on the scale. Thus if the graduation line on the hub shows .025 and on the sleeve .015, the reading would be the sum of the two, or .040.

To read a Micrometer graduated to ten-thousandths, first note the reading on the hub, then the thousandths on the sleeve, which gives the total reading in thousandths, then add the reading of the coinciding line on the vernier. Should the reading on the vernier be the second line, which is numbered 1, add one ten-thousandth; should it be the line numbered 2, add two ten-thousandths, etc.

Example

The above illustration shows a Micrometer reading .1566 inch, arrived at as follows: First read the thousandths as usual; this gives .156 inch. The number of the vernier line on the hub coinciding with a line on the sleeve is 6, indicating six ten-thousandths or .0006 inch. Adding this to .156 gives .1566 inch, which is the total reading or measurement.

DIRECTIONS FOR ADJUSTING MICROMETER CALIPERS

(This instruction accompanies each tool).

To Adjust for Wear on the Faces of Anvil and Spindle: Clean the faces of anvil and spindle and bring them together. Slip the frictional wrench over sleeve "D", then hold the Micrometer and wrench in the position here illustrated. This brings the reading lines directly in view, so adjusting can be done in either direction without removing the wrench. Then grip the wrench firmly and rotate graduated sleeve "D" until zero line of this sleeve coincides with reading line on the hub. (Sleeve "D" is threaded and engaged in thimble "E").

To Adjust Tension and Take Up Wear on Screw of Spindle: For this purpose the spanner end of wrench fits the nut on end of hub of frame.

To Adjust Tension between Sleeve "D" and Thimble "E": Screw sleeve "D" out of thimble "E". It will then be noted that sleeve "D" is slotted at three points. By spreading these slots slightly, any tension desired between the two parts can be obtained.

These methods of adjustment prevent the mutilation of the Micrometer and prolong its life.

ONE INCH MICROMETER CALIPERS
With Full Finished Frame

Rapid Reading (See page 60)

<table>
<thead>
<tr>
<th>Number</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>611</td>
<td>8 ozs.</td>
<td>$ 8.50</td>
</tr>
<tr>
<td>621</td>
<td>8 ozs.</td>
<td>$ 9.50</td>
</tr>
<tr>
<td>631</td>
<td>8 ozs.</td>
<td>$ 10.00</td>
</tr>
</tbody>
</table>

For measuring by thousandths.
Range, 0 to 1 inch.

<table>
<thead>
<tr>
<th>Number</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>611V</td>
<td>8 ozs.</td>
<td>10.25</td>
</tr>
<tr>
<td>621V</td>
<td>8 ozs.</td>
<td>11.25</td>
</tr>
<tr>
<td>631V</td>
<td>8 ozs.</td>
<td>10.75</td>
</tr>
<tr>
<td>641V</td>
<td>8 ozs.</td>
<td>11.75</td>
</tr>
</tbody>
</table>

For measuring by thousandths.
Range, 0 to 1 inch.

METRIC MICROMETER CALIPERS—25 MM.

For measuring by hundredths of a millimetre.
Range, 0 to 25 mm.

<table>
<thead>
<tr>
<th>Number</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>611M</td>
<td>5 ozs.</td>
<td>8.50</td>
</tr>
<tr>
<td>621M</td>
<td>8 ozs.</td>
<td>9.50</td>
</tr>
<tr>
<td>631M</td>
<td>8 ozs.</td>
<td>9.00</td>
</tr>
<tr>
<td>641M</td>
<td>8 ozs.</td>
<td>10.00</td>
</tr>
</tbody>
</table>

Regular packing: One only in hinged wooden box with clasp.

Leather case can be supplied with any above Micrometers, extra $1.25

NOTE—For general description of Micrometer Calipers, see pages 60 and 61.
ONE INCH MICROMETER CALIPERS
With Full Finished, Cut Away Frame.

Rapid Reading (See page 60)

The frames of all Micrometers listed on this page are cut away. This makes them suitable for taking many measurements where micrometers without this feature could not be used. On these the combined depth of anvil and frame is approximately 11/32 inch (9 mm).

<table>
<thead>
<tr>
<th>Number</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Each</td>
<td>Each</td>
</tr>
</tbody>
</table>

For measuring by thousandths.

Range, 0 to 1 inch.

1611 Plain—without lock nut or ratchet stop 8 ozs. $8.50
1621 With lock nut, without ratchet stop 8 ozs. 9.50
1631 With ratchet stop, without lock nut 8 ozs. 10.00
1641 With lock nut and ratchet stop 8 ozs. 10.00

For measuring by ten-thousandths.

Range, 0 to 1 inch.

161IV Plain—without lock nut or ratchet stop 8 ozs. $10.25
162IV With lock nut, without ratchet stop 8 ozs. 11.25
163IV With ratchet stop, without lock nut 8 ozs. 11.75
164IV With lock nut and ratchet stop 8 ozs. 12.75

METRIC MICROMETER CALIPPERS—25 MM
For measuring by hundredths of a millimetre.

Range, 0 to 25 mm.

1611M Plain—without lock nut or ratchet stop 8 ozs. $8.50
1621M With lock nut, without ratchet stop 8 ozs. 9.50
1631M With ratchet stop, without lock nut 8 ozs. 10.00
1641M With lock nut and ratchet stop 8 ozs. 10.00

Regular packing: One only in hinged wooden box with clasp.

Leather case can be supplied with any above Micrometers, extra $1.25

NOTE—For general description of Micrometer Calipers, see pages 60 and 61.

TWO INCH MICROMETER CALIPERS
With Full Finished, Cut Away Frame

Rapid Reading (See page 60)

The frames of all Micrometers listed on this page are cut away. This makes them suitable for taking measurements where Micrometers without this feature could not be used. On these the combined depth of anvil and frame is approximately 11/32 inch (9 mm).

<table>
<thead>
<tr>
<th>Number</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Each</td>
<td>Each</td>
</tr>
</tbody>
</table>

For measuring by thousandths.

Range, 1 to 2 inches.

1612 Plain—without lock nut or ratchet stop 10 ozs. $9.50
1622 With lock nut, without ratchet stop 10 ozs. 10.50
1632 With ratchet stop, without lock nut 10 ozs. 10.00
1642 With lock nut and ratchet stop 10 ozs. 11.00

For measuring by ten-thousandths.

Range, 1 to 2 inches.

1612V Plain—without lock nut or ratchet stop 10 ozs. $11.25
1622V With lock nut, without ratchet stop 10 ozs. 12.25
1632V With ratchet stop, without lock nut 10 ozs. 11.75
1642V With lock nut and ratchet stop 10 ozs. 12.75

METRIC MICROMETER CALIPERS—50 MM
For measuring by hundredths of a millimetre.

Range, 25 to 50 mm.

1612M Plain—without lock nut or ratchet stop 10 ozs. 9.50
1622M With 25 mm test gage 10 ozs. 10.50
1632M With 25 mm test gage 10 ozs. 10.00
1642M With 25 mm test gage 10 ozs. 11.00

Regular packing: One only in hinged wooden box with clasp.

NOTE—For general description of Micrometer Calipers, see pages 60 and 61.
MICROMETER CALIPPERS

One Inch  Two Inch  Three Inch
With Olive Green Enameled Frame

Pat. Aug. 1, 1922.
Jan. 3, 1926.

For Prices, see Page 65-A

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1811</td>
<td>Plain—without lock nut or ratchet stop</td>
<td>8 ozs.</td>
<td>$6.25</td>
</tr>
<tr>
<td>1821</td>
<td>With lock nut, without ratchet stop</td>
<td>8 ozs.</td>
<td>6.75</td>
</tr>
<tr>
<td>1831</td>
<td>With ratchet stop, without lock nut</td>
<td>8 ozs.</td>
<td>6.75</td>
</tr>
<tr>
<td>1841</td>
<td>With lock nut and ratchet stop</td>
<td>8 ozs.</td>
<td>7.25</td>
</tr>
</tbody>
</table>

For Measuring by thousandths,
Range, 0 to 1 inch

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1811V</td>
<td>Plain—without lock nut or ratchet stop</td>
<td>8 ozs.</td>
<td>$7.75</td>
</tr>
<tr>
<td>1821V</td>
<td>With lock nut, without ratchet stop</td>
<td>8 ozs.</td>
<td>8.25</td>
</tr>
<tr>
<td>1831V</td>
<td>With ratchet stop, without lock nut</td>
<td>8 ozs.</td>
<td>8.25</td>
</tr>
<tr>
<td>1841V</td>
<td>With lock nut and ratchet stop</td>
<td>8 ozs.</td>
<td>8.75</td>
</tr>
</tbody>
</table>

For Measuring by ten-thousandths,
Range, 0 to 1 inch

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1812</td>
<td>Plain—without lock nut or ratchet stop</td>
<td>10 ozs.</td>
<td>$7.00</td>
</tr>
<tr>
<td>1822</td>
<td>With lock nut, without ratchet stop</td>
<td>10 ozs.</td>
<td>7.50</td>
</tr>
<tr>
<td>1832</td>
<td>With ratchet stop, without lock nut</td>
<td>10 ozs.</td>
<td>7.50</td>
</tr>
<tr>
<td>1842</td>
<td>With lock nut and ratchet stop</td>
<td>10 ozs.</td>
<td>8.00</td>
</tr>
</tbody>
</table>

For Measuring by thousandths,
Range, 1 to 2 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1812V</td>
<td>Plain—without lock nut or ratchet stop</td>
<td>10 ozs.</td>
<td>$8.50</td>
</tr>
<tr>
<td>1822V</td>
<td>With lock nut, without ratchet stop</td>
<td>10 ozs.</td>
<td>9.00</td>
</tr>
<tr>
<td>1832V</td>
<td>With ratchet stop, without lock nut</td>
<td>10 ozs.</td>
<td>9.00</td>
</tr>
<tr>
<td>1842V</td>
<td>With lock nut and ratchet stop</td>
<td>10 ozs.</td>
<td>9.50</td>
</tr>
</tbody>
</table>

Extra for 1 inch test gage for any of above 2 inch Micrometers... 1.00

For Measuring by ten-thousandths,
Range, 1 to 2 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1813</td>
<td>Plain—without lock nut or ratchet stop</td>
<td>12 ozs.</td>
<td>$7.75</td>
</tr>
<tr>
<td>1823</td>
<td>With lock nut, without ratchet stop</td>
<td>12 ozs.</td>
<td>8.25</td>
</tr>
<tr>
<td>1833</td>
<td>With ratchet stop, without lock nut</td>
<td>12 ozs.</td>
<td>8.25</td>
</tr>
<tr>
<td>1843</td>
<td>With lock nut and ratchet stop</td>
<td>12 ozs.</td>
<td>8.75</td>
</tr>
</tbody>
</table>

For Measuring by thousandths,
Range, 2 to 3 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>1813V</td>
<td>Plain—without lock nut or ratchet stop</td>
<td>12 ozs.</td>
<td>$9.25</td>
</tr>
<tr>
<td>1823V</td>
<td>With lock nut, without ratchet stop</td>
<td>12 ozs.</td>
<td>9.75</td>
</tr>
<tr>
<td>1833V</td>
<td>With ratchet stop, without lock nut</td>
<td>12 ozs.</td>
<td>9.75</td>
</tr>
<tr>
<td>1843V</td>
<td>With lock nut and ratchet stop</td>
<td>12 ozs.</td>
<td>10.25</td>
</tr>
</tbody>
</table>

Extra for 2 inch test gage for any of above 3 inch Micrometers... 1.25

2 and 3 inch Micrometers sent without test gage unless otherwise ordered.
Any of above Micrometer Calipers can be furnished with Metric Measurements at no extra charge.
Specify as No. 1811M, 1812M, etc.

Regular packing: One only in hinged wooden box with clasp.

NOTE:—For general description of Micrometer Calipers, see pages 60 and 61.
## MICROMETER CALIPERS

**Four Inch**  **Five Inch**  **Six Inch**  
With Olive Green Enamed Frame

<table>
<thead>
<tr>
<th>Number</th>
<th>For Measuring by thousandths, Range, 3 to 4 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1814</td>
<td>Plain—without lock nut or ratchet stop ............... 18 ozs.</td>
</tr>
<tr>
<td>1824</td>
<td>With lock nut, without ratchet stop ................. 18 ozs.</td>
</tr>
<tr>
<td>1834</td>
<td>With ratchet stop, without lock nut ................. 18 ozs.</td>
</tr>
<tr>
<td>1844</td>
<td>With lock nut and ratchet stop ...................... 18 ozs.</td>
</tr>
<tr>
<td></td>
<td>Extra for 3 inch test gage ...........................</td>
</tr>
</tbody>
</table>

**Range, 4 to 5 inches**

<table>
<thead>
<tr>
<th>Number</th>
<th>For Measuring by thousandths, Range, 4 to 5 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1815</td>
<td>Plain—without lock nut or ratchet stop ............... 22 ozs.</td>
</tr>
<tr>
<td>1825</td>
<td>With lock nut, without ratchet stop .................. 22 ozs.</td>
</tr>
<tr>
<td>1835</td>
<td>With ratchet stop, without lock nut .................. 22 ozs.</td>
</tr>
<tr>
<td>1845</td>
<td>With lock nut and ratchet stop ....................... 22 ozs.</td>
</tr>
<tr>
<td></td>
<td>Extra for 4 inch test gage ............................</td>
</tr>
</tbody>
</table>

**Range, 5 to 6 inches**

<table>
<thead>
<tr>
<th>Number</th>
<th>For Measuring by thousandths, Range, 5 to 6 inches</th>
</tr>
</thead>
<tbody>
<tr>
<td>1816</td>
<td>Plain—without lock nut or ratchet stop ............... 26 ozs.</td>
</tr>
<tr>
<td>1826</td>
<td>With lock nut, without ratchet stop .................. 26 ozs.</td>
</tr>
<tr>
<td>1836</td>
<td>With ratchet stop, without lock nut .................. 26 ozs.</td>
</tr>
<tr>
<td>1846</td>
<td>With lock nut and ratchet stop ....................... 26 ozs.</td>
</tr>
<tr>
<td></td>
<td>Extra for 5 inch test gage ............................</td>
</tr>
</tbody>
</table>

## METRIC MICROMETER CALIPERS

For measuring by hundredths of a millimetre

**Range, 75 to 100 mm.**

<table>
<thead>
<tr>
<th>Number</th>
<th>For Measuring by hundredths of a millimetre, Range, 75 to 100 mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1814M</td>
<td>Plain—without lock nut or ratchet stop .......................... 18 ozs.</td>
</tr>
<tr>
<td>1824M</td>
<td>With lock nut, without ratchet stop ................................ 18 ozs.</td>
</tr>
<tr>
<td>1834M</td>
<td>With ratchet stop, without lock nut ................................ 18 ozs.</td>
</tr>
<tr>
<td>1844M</td>
<td>With lock nut and ratchet stop ................................... 18 ozs.</td>
</tr>
<tr>
<td></td>
<td>Extra for 75 mm test gage ........................................</td>
</tr>
</tbody>
</table>

**Range, 100 to 125 mm.**

<table>
<thead>
<tr>
<th>Number</th>
<th>For Measuring by hundredths of a millimetre, Range, 100 to 125 mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1815M</td>
<td>Plain—without lock nut or ratchet stop .......................... 22 ozs.</td>
</tr>
<tr>
<td>1825M</td>
<td>With lock nut, without ratchet stop ................................ 22 ozs.</td>
</tr>
<tr>
<td>1835M</td>
<td>With ratchet stop, without lock nut ................................ 22 ozs.</td>
</tr>
<tr>
<td>1845M</td>
<td>With lock nut and ratchet stop ................................... 22 ozs.</td>
</tr>
<tr>
<td></td>
<td>Extra for 100 mm test gage .........................................</td>
</tr>
</tbody>
</table>

**Range, 125 to 150 mm.**

<table>
<thead>
<tr>
<th>Number</th>
<th>For Measuring by hundredths of a millimetre, Range, 125 to 150 mm.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1816M</td>
<td>Plain—without lock nut or ratchet stop .......................... 26 ozs.</td>
</tr>
<tr>
<td>1826M</td>
<td>With lock nut, without ratchet stop ................................ 26 ozs.</td>
</tr>
<tr>
<td>1836M</td>
<td>With ratchet stop, without lock nut ................................ 26 ozs.</td>
</tr>
<tr>
<td>1846M</td>
<td>With lock nut and ratchet stop ................................... 26 ozs.</td>
</tr>
<tr>
<td></td>
<td>Extra for 125 mm test gage .........................................</td>
</tr>
</tbody>
</table>

All above Micrometers sent without test gage unless otherwise ordered.

Regular packing: One only in binged wooden box with clasp.

**NOTE:** For general description of Micrometer Calipers, see pages 60 and 61.
ONE INCH MICROMETER CALIPERS

With Green Enamelled Frame

Rapid Reading (See page 60)

This micrometer is especially designed for production work, having a
sturdy ribbed frame, to withstand the harder usage, without unusual weight.
It has the same smooth action and high degree of accuracy, as well as the
improved adjustment features of all Luken micrometers.

For measuring by thousandths.
Range, 0 to 1 inch

1911 Plain, without locknut or ratchet stop 6 ozs. $6.25
1921 With locknut, without ratchet stop 6 ozs. 6.75
1931 With ratchet stop, without locknut 6 ozs. 6.75
1941 With locknut and ratchet stop 6 ozs. 7.25

For measuring by thousandths.
Range, 1 to 2 inches

1912 Plain, without locknut or ratchet stop 8 ozs. $7.00
1922 With locknut, without ratchet stop 8 ozs. 7.50
1932 With ratchet stop, without locknut 8 ozs. 7.50
1942 With locknut and ratchet stop 8 ozs. 8.00
Extra for 1 inch test gage 1.00

For measuring by thousandths.
Range, 2 to 3 inches

1913 Plain, without locknut or ratchet stop 12 ozs. $7.75
1923 With locknut, without ratchet stop 12 ozs. 8.25
1933 With ratchet stop, without locknut 12 ozs. 8.25
1943 With locknut and ratchet stop 12 ozs. 8.75
Extra for 2 inch test gage 1.25

All above Micrometers sent without test gage unless otherwise ordered.

NOTE—When Micrometers are wanted reading in ten-thousandths of an inch,
add suffix "V" as 1911V. Extra for ten-thousandths, $1.75 each.

For general description of Micrometer Calipers, see pages 60 and 61.

Packing: One in a box.

MICROMETER DEPTH GAGE

Rapid Reading (See page 60)

1" Movement

A gage designed for use in measuring the depth of holes, slots, etc., with
micrometer accuracy. Each gage is provided with three measuring rods
which permit measurements from zero to three inches by thousandths. The
rods are inserted through a hole in the screw and are securely fastened by
means of a knurled cap.

To compensate for wear our Micrometer Depth Gage is adjusted by the
same method as our standard Micrometer; by slipping the frictional wrench
over the graduated sleeve and rotating same in either direction in the thimble
until zero line coincides with reading line on the hub. Each rod is equipped
with an adjusting nut to maintain their individual lengths and the end of each
rod is hardened and lapped.

Each gage is equipped with a patent lock nut which permits the reading
to be maintained. This is a feature found in no other Micrometer Depth Gage.

<table>
<thead>
<tr>
<th>Number</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>513</td>
<td>12 ozs.</td>
<td>$10.50</td>
</tr>
<tr>
<td>515</td>
<td>18 ozs.</td>
<td>13.50</td>
</tr>
<tr>
<td>513M</td>
<td>12 ozs.</td>
<td>10.50</td>
</tr>
</tbody>
</table>

Regular Packing: One only in hinged wooden box with clasp.

NOTE—For general description of Micrometer Calipers, see pages 60 and 61.
INSIDE MICROMETER CALIPPERS

Our Inside Micrometer, consisting of the Micrometer Head and Tubular Extension rods, has many new features and improvements over any other micrometer made.

The Micrometer Head is so designed that it will measure from 1½ inches, a feature which, in Inside Micrometers, is found only in those of our manufacture. It permits measurements to be taken in the smaller diameters, slots, etc.

The extension tubes or rods are of steel tubing, making a most rigid and durable tool, yet of light weight. Each rod is marked with its length and is attached to the Micrometer Head by removing the hardened end or anvil with the frictional wrench. The rods can be added to either or both ends of the Micrometer Head as illustrated above, which allows one to keep the head in the center of the tool, preserving the balance. This is a very important feature.

A handle is furnished with the Inside Micrometer sets No. 680A and 680B. This handle is designed so that it can be attached to any part of the Micrometer Head or extension rods. Thus perfect balance and feel are maintained which are essential to accuracy.

To compensate for wear the Micrometer Head is adjusted by the same methods as our standard Micrometer; by slipping the frictional wrench over the graduated sleeve and rotating same in either direction in the thimble until zero line coincides with reading on the hub. The tension on the screw of the spindle is adjusted by the spinner end of the wrench. All extension rods are equipped with a hardened anvil and a means of adjustment for maintaining their individual lengths.

Micrometer sets No. 680A and 680B have a ½ inch movement of the screw while sets No. 681C, 681D and 681K have a one inch movement. Set No. 6801D has both the ½ inch movement and one inch movement heads being a combination of Micrometer Sets No. 680A and 681D.

Each Micrometer Set is packed in a nicely finished wooden box as illustrated above.

NOTE—Extra extension rods to increase the range of a set can be supplied at reasonable prices.

INSIDE MICROMETER CALIPPERS

For Measuring By Thousandths of An Inch

<table>
<thead>
<tr>
<th>Number</th>
<th>Inside Micrometer</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>680A</td>
<td></td>
<td>8 ½ ozs.</td>
<td>$12.00</td>
</tr>
<tr>
<td>680B</td>
<td></td>
<td>12 ozs.</td>
<td>$15.00</td>
</tr>
<tr>
<td>681C</td>
<td></td>
<td>27 ozs.</td>
<td>$18.00</td>
</tr>
<tr>
<td>681D</td>
<td></td>
<td>39 ozs.</td>
<td>$20.00</td>
</tr>
<tr>
<td>681K</td>
<td></td>
<td>48 ozs.</td>
<td>$24.00</td>
</tr>
<tr>
<td>6801D</td>
<td>Inside Micrometer Set</td>
<td>56 ozs.</td>
<td>$30.00</td>
</tr>
</tbody>
</table>

METRIC INSIDE MICROMETER CALIPPERS

For Measuring by Hundredths of a Millimetre

<table>
<thead>
<tr>
<th>Number</th>
<th>Inside Micrometer</th>
<th>Range</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>680M-A</td>
<td>Inside Micrometer</td>
<td>40 to 200 mm with 6 measuring rods</td>
<td>8 ½ ozs.</td>
<td>$12.00</td>
</tr>
<tr>
<td>680M-B</td>
<td>Inside Micrometer</td>
<td>40 to 300 mm with 8 measuring rods</td>
<td>12 ozs.</td>
<td>$15.00</td>
</tr>
<tr>
<td>681M-C</td>
<td>Inside Micrometer</td>
<td>100 to 600 mm with 7 measuring rods</td>
<td>27 ozs.</td>
<td>$18.00</td>
</tr>
<tr>
<td>681M-D</td>
<td>Inside Micrometer</td>
<td>100 to 800 mm with 8 measuring rods</td>
<td>39 ozs.</td>
<td>$20.00</td>
</tr>
<tr>
<td>681M-K</td>
<td>Inside Micrometer</td>
<td>100 to 1000 mm with 10 measuring rods</td>
<td>48 ozs.</td>
<td>$24.00</td>
</tr>
</tbody>
</table>

Regular Packing: One only in hinged wooden box with clasp.

NOTE—For general description of Inside Micrometer Calipers, see page 68.
UNIVERSAL SURFACE GAGE

Hardened Base

This SURFACE GAGE embodies all the latest improvements in construction and design.

The base is well proportioned, the bottom and end being grooved out for cylindrical work. Four gage pins, used as guides on linear work, are especially important.

The spindle is made of rigid hollow steel tubing and being light, will never cause any tipping of the base when used with attachments. It can be used upright, at any angle or such that the scriber can be used below the base. For small work the spindle may be removed and the scriber inserted thru the hole in the rotating head fitted for that purpose. The holes, thru which the spindle and scriber pass, are kept in alignment at all times by means of small set screws.

After the spindle is clamped in the approximate position desired, the fine adjustment nut at one end is used to get the exact setting. This adjustment nut works against a stiff spring at the other end and allows a larger range of adjustment than any other similar gage.

The length of the spindle as listed is the exact length and does not include the base.

The base of the gage is finished in mottled blue with all measuring faces ground and polished.

<table>
<thead>
<tr>
<th>No.</th>
<th>Weight Each</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>S20A</td>
<td>3 1/4&quot; base, 9&quot; spindle</td>
<td>2 3/4 lbs</td>
</tr>
<tr>
<td>S20B</td>
<td>3 1/4&quot; base, 9&quot; and 12&quot; spindles</td>
<td>3 lbs</td>
</tr>
<tr>
<td>S20C</td>
<td>3 1/4&quot; base, 12&quot; spindle</td>
<td>2 3/4 lbs</td>
</tr>
</tbody>
</table>

Packing: One in a box.

COMBINATION SQUARES — BEVEL PROTRACTORS

COMBINATION SETS

(Pages 72 to 83 inclusive)

General Description

These are tools with so many and such varied uses as to be almost indispensable to all mechanics in metal working, machinists, pattern makers, and others. They consist of a steel rule (or blade), on which slide the square head (or socket), the center head and the protractor head, singly or in sets.

"Junior" Squares are an entirely new line but meet a need that has long existed. Being small and light weight, they will appeal particularly to tool and die makers.

Our Squares have many improved features. Accuracy and provisions to insure continued accuracy in use are the first consideration in their design and manufacture.

The blades are machine divided, markings being most legible. Enamelled parts of the heads are in a handsome olive drab. All heads can be accurately, quickly and securely set at any point along the blade, or blade entirely removed for use as a separate rule. The square head has square and mitre faces, and on all sizes, except the 4-inch standard and the 6-inch "Junior" Square, is equipped with level glass and steel scriber. There is good clearance around all set nuts, and over the level glasses.

Lufkin Squares handle nicely, and present a well balanced, fine appearance. All parts are interchangeable.

Below are mentioned but a few of their many uses.

COMBINATION SQUARES

These consist of blade with square head, or with square and center heads. They serve as both try and mitre squares, and, the blade being adjustable in length by moving the head, they take the place of a whole set of common squares. They are very handy for accurately transferring measurements and for laying out work. Square face of head end flush with end of blade converts the tool into a height gage for ordinary uses, and setting it at desired distance from end of blade makes it a marking gage; so adjusted it will also serve as a depth gage for measuring and squaring in mortises, etc. The scriber is always conveniently at hand. The stock can be used as a simple level, and, with the blade, for squaring and leveling surfaces one with another.

With the center head, centers of all cylindrical work can be determined. The arms of Lufkin center heads are ground to equal length and have ends uniformly machined, greatly increasing the range of the tool by giving accurate results on work of large as of small diameter.

BEVEL PROTRACTORS

These are graduated blade fitted with protractor head, single or double type, otherwise known as plain and reversible, i.e., with shoulder extending from one side only or both sides of blade. Our protractor heads are so constructed that the double can be readily converted into the single type, the one tool then serving all purposes of both styles. The revolving turret is accurately marked with degrees from 0 to 90 right and left. Having two thumb screws, it can be securely set at any angle. All our protractor heads are equipped with level glass.

COMBINATION SETS

Graduated blade with square, center and protractor heads, a tool serving all the purposes of the Combination Square and Bevel Protractor. These Combination Sets have more applications in use than any other tool made for mechanics.
## COMBINATION SQUARES

### Tempered Blade

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Blade With Square Head.</td>
</tr>
<tr>
<td></td>
<td>Blade marked 8ths, 16ths, 32nds, 64ths inch.</td>
</tr>
<tr>
<td></td>
<td>Length .......... 4 inch 6 inch 9 inch 12 inch 18 inch 24 inch</td>
</tr>
<tr>
<td></td>
<td>Wt. each .......... 4 oz. 6 oz. 10 oz. 17 oz. 22 oz. 26 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each .......... $1.50 $1.80 $2.40 $3.00 $3.90 $4.80</td>
</tr>
</tbody>
</table>

(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)

### GRADUATED METRIC ONLY

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25M</td>
<td>Blade With Square Head.</td>
</tr>
<tr>
<td></td>
<td>Blade marked, three edges in millimetres, one edge in half-millimetres.</td>
</tr>
<tr>
<td></td>
<td>Length .......... 10 cm 15 cm 20 cm 30 cm 50 cm 60 cm</td>
</tr>
<tr>
<td></td>
<td>Wt. each .......... 4 oz. 6 oz. 10 oz. 17 oz. 22 oz. 26 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each .......... $1.50 $1.80 $2.40 $3.00 $3.90 $4.80</td>
</tr>
</tbody>
</table>

### GRADUATED METRIC AND ENGLISH

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25ME</td>
<td>Blade With Square Head.</td>
</tr>
<tr>
<td></td>
<td>Blade marked, one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.</td>
</tr>
<tr>
<td></td>
<td>Length .......... 10 cm 15 cm 20 cm 30 cm 50 cm 60 cm</td>
</tr>
<tr>
<td></td>
<td>Wt. each .......... 4 oz. 6 oz. 10 oz. 17 oz. 22 oz. 26 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each .......... $1.50 $1.80 $2.40 $3.00 $3.90 $4.80</td>
</tr>
</tbody>
</table>

### COMBINATION SQUARES WITH CENTER HEAD

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25C</td>
<td>Blade With Square and Center Heads.</td>
</tr>
<tr>
<td></td>
<td>Blade marked 8ths, 16ths, 32nds, 64ths inch.</td>
</tr>
<tr>
<td></td>
<td>Length .......... 4 inch 6 inch 9 inch 12 inch 18 inch 24 inch</td>
</tr>
<tr>
<td></td>
<td>Wt. each .......... 5 oz. 8 oz. 13 oz. 21 oz. 26 oz. 30 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each .......... $2.10 $2.40 $3.00 $4.50 $4.50 $5.40</td>
</tr>
</tbody>
</table>

(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)

### GRADUATED METRIC ONLY

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25C-M</td>
<td>Blade With Square and Center Heads.</td>
</tr>
<tr>
<td></td>
<td>Blade marked, three edges in millimetres, one edge in half-millimetres.</td>
</tr>
<tr>
<td></td>
<td>Length .......... 10 cm 15 cm 20 cm 30 cm 50 cm 60 cm</td>
</tr>
<tr>
<td></td>
<td>Wt. each .......... 5 oz. 8 oz. 13 oz. 21 oz. 26 oz. 30 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each .......... $2.10 $2.40 $3.00 $4.50 $4.50 $5.40</td>
</tr>
</tbody>
</table>

### GRADUATED METRIC AND ENGLISH

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>25C-ME</td>
<td>Blade With Square and Center Heads.</td>
</tr>
<tr>
<td></td>
<td>Blade marked, one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.</td>
</tr>
<tr>
<td></td>
<td>Length .......... 10 cm 15 cm 20 cm 30 cm 50 cm 60 cm</td>
</tr>
<tr>
<td></td>
<td>Wt. each .......... 5 oz. 8 oz. 13 oz. 21 oz. 26 oz. 30 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each .......... $2.10 $2.40 $3.00 $4.50 $4.50 $5.40</td>
</tr>
</tbody>
</table>

Packing: One in a box.

NOTE—For general description of Combination Squares, see page 71.
### BEVEL PROTRACTORS

**Tempered Blade**  
All heads, with level

#### WITH NO. 4 GRADUATION

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Protractor Head. Blade marked 8ths, 16ths, 32nds, 64ths inch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Length</strong></td>
</tr>
<tr>
<td></td>
<td>Wt. each</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
</tr>
<tr>
<td></td>
<td>(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)</td>
</tr>
</tbody>
</table>

#### GRADUATED METRIC ONLY

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Protractor Head. Blade marked, three edges in millimetres, one edge in half-millimetres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5M</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Length</strong></td>
</tr>
<tr>
<td></td>
<td>Wt. each</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
</tr>
</tbody>
</table>

#### GRADUATED METRIC AND ENGLISH

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Protractor Head. Blade marked, one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>5ME</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Length</strong></td>
</tr>
<tr>
<td></td>
<td>Wt. each</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
</tr>
</tbody>
</table>

Packing: One in a box.

**NOTE**—For general description of Bevel Protractors, see page 71.

### BEVEL PROTRACTORS

**With Reversible Head**  
Tempered Blade  
All heads, with level

#### WITH NO. 4 GRADUATION

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Reversible Protractor Head. Blade marked 8ths, 16ths, 32nds, 64ths inch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Length</strong></td>
</tr>
<tr>
<td></td>
<td>Wt. each</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
</tr>
<tr>
<td></td>
<td>(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)</td>
</tr>
</tbody>
</table>

#### GRADUATED METRIC ONLY

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Reversible Protractor Head. Blade marked, three edges in millimetres, one edge in half-millimetres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6M</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Length</strong></td>
</tr>
<tr>
<td></td>
<td>Wt. each</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
</tr>
</tbody>
</table>

#### GRADUATED METRIC AND ENGLISH

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Reversible Protractor Head. Blade marked, one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6ME</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Length</strong></td>
</tr>
<tr>
<td></td>
<td>Wt. each</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
</tr>
</tbody>
</table>

Packing: One in a box.

**NOTE**—For general description of Bevel Protractors, see page 71.
COMBINATION SETS
Tempered Blade
All square and protractor heads with level

Number

WITH No. 4 GRADUATION

525
Blade With Square, Center and Protractor Heads.
Blade marked 8ths, 16ths, 32nds, 64ths inch.
Length .............. 9 inch 12 inch 18 inch 24 inch
Wt. each .............. 24 oz. 30 oz. 35 oz. 39 oz.
Price, each ......... $6.00 $6.60 $7.50 $8.40
(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)

GRADUATED METRIC ONLY

525M
Blade With Square, Center and Protractor Heads.
Blade marked, three edges in millimetres, one edge in half-
millimetres.
Length .............. 20 cm 30 cm 50 cm 60 cm
Wt. each .............. 24 oz. 30 oz. 35 oz. 39 oz.
Price, each ......... $6.00 $6.60 $7.50 $8.40

GRADUATED METRIC AND ENGLISH

525ME
Blade With Square, Center and Protractor Heads.
Blade marked, one side half-millimetres and 32nds inch; other
side millimetres and 64ths inch.
Length .............. 20 cm 30 cm 50 cm 60 cm
Wt. each .............. 24 oz. 30 oz. 35 oz. 39 oz.
Price, each ......... $6.00 $6.60 $7.50 $8.40

Packing: One in a box.

NOTE—For general description of Combination Sets, see page 71.

COMBINATION SETS
With Reversible Protractor Head
Tempered Blade
All square and protractor heads with level

Number

WITH No. 4 GRADUATION

625
Blade With Square and Center Heads, and Reversible Pro-
tactor Head.
Blade marked 8ths, 16ths, 32nds, 64ths inch.
Length .............. 9 inch 12 inch 18 inch 24 inch
Wt. each .............. 27 oz. 34 oz. 39 oz. 43 oz.
Price, each ......... $7.20 $7.80 $8.70 $9.60
(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)

GRADUATED METRIC ONLY

625M
Blade With Square and Center Heads, and Reversible Pro-
tactor Head.
Blade marked, three edges in millimetres, one edge in half-
millimetres.
Length .............. 20 cm 30 cm 50 cm 60 cm
Wt. each .............. 27 oz. 34 oz. 39 oz. 43 oz.
Price, each ......... $7.20 $7.80 $8.70 $9.60

GRADUATED METRIC AND ENGLISH

625ME
Blade With Square and Center Heads, and Reversible Pro-
tactor Head.
Blade marked, one side half-millimetres and 32nds inch; other
side millimetres and 64ths inch.
Length .............. 20 cm 30 cm 50 cm 60 cm
Wt. each .............. 27 oz. 34 oz. 39 oz. 43 oz.
Price, each ......... $7.20 $7.80 $8.70 $9.60

Packing: One in a box.

NOTE—For general description of Combination Sets, see page 71.
### DROP FORGED COMBINATION SQUARES

**Tempered Blade**

The square heads are drop forged and hardened. These are our highest grade Combination Squares.

**Number**

<table>
<thead>
<tr>
<th>Blade With Square Head.</th>
<th>WITH No. 4 GRADUATION</th>
<th>BLADE MARKED 8THS, 16THS, 32NDs, 64THs INCH.</th>
<th>LENGTH</th>
<th>WT. EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td></td>
<td>Blade marked 8ths, 16ths, 32nds, 64ths inch.</td>
<td>6 in.</td>
<td>7 oz.</td>
<td>$3.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9 in.</td>
<td>11 oz.</td>
<td>$3.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12 in.</td>
<td>19 oz.</td>
<td>$3.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 in.</td>
<td>24 oz.</td>
<td>$5.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24 in.</td>
<td>28 oz.</td>
<td>$5.70</td>
</tr>
<tr>
<td>(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GRADUATED METRIC ONLY**

<table>
<thead>
<tr>
<th>Blade With Square Head.</th>
<th>WITH No. 4 GRADUATION</th>
<th>BLADE MARKED 3 EDGES IN MILLIMETRES, ONE EDGE IN HALF-MILLIMETRES.</th>
<th>LENGTH</th>
<th>WT. EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>35M</td>
<td></td>
<td>Blade marked three edges in millimetres, one edge in half-millimetres.</td>
<td>15 cm</td>
<td>7 oz.</td>
<td>$3.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 cm</td>
<td>11 oz.</td>
<td>$3.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 cm</td>
<td>19 oz.</td>
<td>$3.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 cm</td>
<td>24 oz.</td>
<td>$5.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>60 cm</td>
<td>28 oz.</td>
<td>$5.70</td>
</tr>
</tbody>
</table>

**GRADUATED METRIC AND ENGLISH**

<table>
<thead>
<tr>
<th>Blade With Square Head.</th>
<th>WITH No. 4 GRADUATION</th>
<th>BLADE MARKED ONE SIDE, MILLIMETRES AND 32NDs INCH; OTHER SIDE MILLIMETRES AND 64THS INCH.</th>
<th>LENGTH</th>
<th>WT. EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>35E</td>
<td></td>
<td>Blade marked one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.</td>
<td>15 cm</td>
<td>7 oz.</td>
<td>$3.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 cm</td>
<td>11 oz.</td>
<td>$3.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 cm</td>
<td>19 oz.</td>
<td>$3.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 cm</td>
<td>24 oz.</td>
<td>$5.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>60 cm</td>
<td>28 oz.</td>
<td>$5.70</td>
</tr>
</tbody>
</table>

**Packing:** One in a box.

### DROP FORGED COMBINATION SQUARES, WITH CENTER HEAD

**Tempered Blade**

The square and center heads are drop forged and hardened. These are our highest grade Combination Squares.

**Number**

<table>
<thead>
<tr>
<th>Blade With Square and Center Heads.</th>
<th>WITH No. 4 GRADUATION</th>
<th>BLADE MARKED 8THS, 16THS, 32NDs, 64THs INCH.</th>
<th>LENGTH</th>
<th>WT. EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>35C</td>
<td></td>
<td>Blade marked 8ths, 16ths, 32nds, 64ths inch.</td>
<td>6 in.</td>
<td>9 oz.</td>
<td>$3.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>9 in.</td>
<td>14 oz.</td>
<td>$4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12 in.</td>
<td>23 oz.</td>
<td>$4.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>18 in.</td>
<td>28 oz.</td>
<td>$6.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24 in.</td>
<td>32 oz.</td>
<td>$6.60</td>
</tr>
<tr>
<td>(Can be furnished in No. 7 graduation, 16ths, 32nds, 64ths, 100ths.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GRADUATED METRIC ONLY**

<table>
<thead>
<tr>
<th>Blade With Square and Center Heads.</th>
<th>WITH No. 4 GRADUATION</th>
<th>BLADE MARKED 3 EDGES IN MILLIMETRES, ONE EDGE IN HALF-MILLIMETRES.</th>
<th>LENGTH</th>
<th>WT. EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>35C-M</td>
<td></td>
<td>Blade marked three edges in millimetres, one edge in half-millimetres.</td>
<td>15 cm</td>
<td>9 oz.</td>
<td>$3.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 cm</td>
<td>14 oz.</td>
<td>$4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 cm</td>
<td>23 oz.</td>
<td>$4.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 cm</td>
<td>28 oz.</td>
<td>$6.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>60 cm</td>
<td>32 oz.</td>
<td>$6.60</td>
</tr>
</tbody>
</table>

**GRADUATED METRIC AND ENGLISH**

<table>
<thead>
<tr>
<th>Blade With Square and Center Heads.</th>
<th>WITH No. 4 GRADUATION</th>
<th>BLADE MARKED ONE SIDE, MILLIMETRES AND 32NDs INCH; OTHER SIDE MILLIMETRES AND 64THS INCH.</th>
<th>LENGTH</th>
<th>WT. EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>35C-ME</td>
<td></td>
<td>Blade marked one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.</td>
<td>15 cm</td>
<td>9 oz.</td>
<td>$3.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>20 cm</td>
<td>14 oz.</td>
<td>$4.50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 cm</td>
<td>23 oz.</td>
<td>$4.80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>50 cm</td>
<td>28 oz.</td>
<td>$6.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>60 cm</td>
<td>32 oz.</td>
<td>$6.60</td>
</tr>
</tbody>
</table>

**Packing:** One in a box.

NOTE—For general description of Combination Squares, see page 71.
DROP FORGED COMBINATION SETS

Tempered Blade

The square and center heads are drop forged and hardened. Both the square and protractor head are fitted with level. These are our highest grade Combination Sets.

Number

WITH No. 4 GRADUATION

535  
Blade With Square, Center and Protractor Heads.
Blade marked 8ths, 16ths, 32nds, 64ths inch.
Length ............ 9 inch 12 inch 18 inch 24 inch
Wt. each .......... 26 oz. 32 oz. 37 oz. 41 oz.
Price, each .......... $7.50 $7.80 $9.00 $9.60
(Not furnished in No. 7 graduation. 16ths, 32nds, 64ths, 100ths.)

GRADUATED METRIC ONLY

535M  
Blade With Square, Center and Protractor Heads.
Blade marked, three edges in millimetres, one edge in half-millimetres.
Length ............ 20 cm 30 cm 50 cm 60 cm
Wt. each .......... 26 oz. 32 oz. 37 oz. 41 oz.
Price, each .......... $7.50 $7.80 $9.00 $9.60

GRADUATED METRIC AND ENGLISH

535ME  
Blade With Square, Center and Protractor Heads.
Blade marked, one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.
Length ............ 20 cm 30 cm 50 cm 60 cm
Wt. each .......... 26 oz. 32 oz. 37 oz. 41 oz.
Price, each .......... $7.50 $7.80 $9.00 $9.60

Packing: One in a box.

NOTE—For general description of Combination Sets, see page 71.

DROP FORGED COMBINATION SETS

With Reversible Protractor Head

Tempered Blade

These are our highest grade Combination Sets. The square and center heads are drop forged and hardened. Both the square and protractor head are fitted with level.

Number

WITH No. 4 GRADUATION

635  
Blade With Square and Center Heads, and Reversible Protractor Head.
Blade marked 8ths, 16ths, 32nds, 64ths inch.
Length ............ 9 inch 12 inch 18 inch 24 inch
Wt. each .......... 29 oz. 36 oz. 41 oz. 45 oz.
Price, each .......... $8.70 $9.00 $10.20 $10.80
(Not furnished in No. 7 graduation. 16ths, 32nds, 64ths, 100ths.)

GRADUATED METRIC ONLY

635M  
Blade With Square and Center Heads, and Reversible Protractor Head.
Blade marked three edges in millimetres, one edge in half-millimetres.
Length ............ 20 cm 30 cm 50 cm 60 cm
Wt. each .......... 29 oz. 36 oz. 41 oz. 45 oz.
Price, each .......... $8.70 $9.00 $10.20 $10.80

GRADUATED METRIC AND ENGLISH

635ME  
Blade With Square and Center Heads, and Reversible Protractor Head.
Blade marked, one side half-millimetres and 32nds inch; other side millimetres and 64ths inch.
Length ............ 20 cm 30 cm 50 cm 60 cm
Wt. each .......... 29 oz. 36 oz. 41 oz. 45 oz.
Price, each .......... $8.70 $9.00 $10.20 $10.80

Packing: One in a box.

NOTE—For general description of Combination Sets, see page 71.
ROSE TOOLS, INC.

DROP FORGED COMBINATION SQUARES
Tempered Blade
With Readable Graduations

These Drop Forged Squares are same general pattern as our No. 35 line, but with smaller Square and Center Heads and narrower blades than the corresponding lengths in that line. Because of their size and weight they will appeal particularly to tool and die makers, pattern makers and others. Blades have No. 4 graduation, 8ths, 16ths, 32nds and 64ths inch. A distinctive feature is Readable Graduations, 64ths numbered every 8th division, which greatly facilitates reading. Made in 6-inch size only.

<table>
<thead>
<tr>
<th>Number</th>
<th>WITH No. 4 GRADUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>135</td>
<td>Blade With Square Head.</td>
</tr>
<tr>
<td></td>
<td>Blade marked 8ths, 16ths, 32nds, 64ths inch. With readable graduations.</td>
</tr>
<tr>
<td></td>
<td>Length .6 inch</td>
</tr>
<tr>
<td></td>
<td>Wt. each .4 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each $3.50</td>
</tr>
</tbody>
</table>

DROP FORGED COMBINATION SQUARES, WITH CENTER HEAD
Tempered Blade
With Readable Graduations.

<table>
<thead>
<tr>
<th>Number</th>
<th>Blade With Square and Center Heads.</th>
</tr>
</thead>
<tbody>
<tr>
<td>135C</td>
<td>Blade marked 8ths, 16ths, 32nds, 64ths inch. With readable graduations.</td>
</tr>
<tr>
<td></td>
<td>Length .6 inch</td>
</tr>
<tr>
<td></td>
<td>Wt. each .6 oz.</td>
</tr>
<tr>
<td></td>
<td>Price, each $4.40</td>
</tr>
</tbody>
</table>

Packing: One in a box.

NOTE—For general description of Combination Squares, see page 71.

SEPARATE PARTS OF COMBINATION SQUARES—BEVEL PROTRACTORS
COMBINATION SETS

In Ordering Any Head Always Specify Length Blade On Which It Is To Be Used.

For Nos. 25, 25C, 5, 6, 525, 625.

| Length | Blade | Stock | Center
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4 inch (10 cm)</td>
<td>Each</td>
<td>$0.80</td>
<td>$0.90</td>
</tr>
<tr>
<td>6 inch (15 cm)</td>
<td>&quot;</td>
<td>1.20</td>
<td>.90</td>
</tr>
<tr>
<td>9 inch (20 cm)</td>
<td>&quot;</td>
<td>1.50</td>
<td>1.20</td>
</tr>
<tr>
<td>12 inch (30 cm)</td>
<td>&quot;</td>
<td>1.90</td>
<td>1.50</td>
</tr>
<tr>
<td>18 inch (50 cm)</td>
<td>&quot;</td>
<td>3.00</td>
<td>1.50</td>
</tr>
<tr>
<td>24 inch (60 cm)</td>
<td>&quot;</td>
<td>3.90</td>
<td>1.50</td>
</tr>
<tr>
<td>Scribers</td>
<td>Each</td>
<td>$0.15</td>
<td></td>
</tr>
</tbody>
</table>

For Nos. 35, 35C, 535, 635, 135, 135C.

STOCK AND CENTER HEADS DROP FORGED AND HARDENED

| Length | Blade | Stock | Center
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4 inch (10 cm)</td>
<td>Each</td>
<td>$0.80</td>
<td>$1.90</td>
</tr>
<tr>
<td>6 inch (15 cm)</td>
<td>&quot;</td>
<td>1.20</td>
<td>2.00</td>
</tr>
<tr>
<td>9 inch (20 cm)</td>
<td>&quot;</td>
<td>1.50</td>
<td>2.20</td>
</tr>
<tr>
<td>12 inch (30 cm)</td>
<td>&quot;</td>
<td>1.90</td>
<td>2.40</td>
</tr>
<tr>
<td>18 inch (50 cm)</td>
<td>&quot;</td>
<td>3.00</td>
<td>2.40</td>
</tr>
<tr>
<td>24 inch (60 cm)</td>
<td>&quot;</td>
<td>3.90</td>
<td>2.40</td>
</tr>
<tr>
<td>Scribers</td>
<td>Each</td>
<td>$0.15</td>
<td></td>
</tr>
<tr>
<td>Bolt, Nut and Spring</td>
<td>Each</td>
<td>$0.40</td>
<td></td>
</tr>
</tbody>
</table>

PROTRACTOR HEADS ONLY

For Nos. 5, 6, 525, 625, 535, 635.

Number 05 Protractor Head (not reversible)
For 9-inch blade | Price, each | $3.00 |
For 12, 18 or 24-inch blades | Price, each | .50 |

Number 06 Reversible Protractor Head.
For 9-inch blade | Price, each | $4.20 |
For 12, 18 or 24-inch blades | Price, each | 4.20 |

NOTE—Prices on this page apply also to parts of M and ME Combination Squares, Bevel Protractors and Combination Sets.
"UNIVERSAL" TRY AND MITRE SQUARES
FOR CARPENTERS
(And All Woodworkers)

WITH LEVEL — WITHOUT LEVEL

These squares are designed especially for the use of carpenters and all other woodworkers. They combine in one tool the try and mitre squares with blade adjustable in length, the level and plumb, marking gauge, height and depth gauge, and separate rule. While popular priced, they are accurate, durable, and well designed.

They consist of a graduated steel blade, grooved on one side and fitted with metal head, which, by means of a convenient thumb nut, can be securely clamped at any point along the blade, and also is removable from it. Blade, or rule, is accurately and clearly marked on both edges of both sides. The head has square and mitre faces and is furnished with and without level glass.

Marked both sides, one edge 8ths, other edge 16ths inches.

<table>
<thead>
<tr>
<th>With Level</th>
<th>Without Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 66L 9 in.</td>
<td>Each $1.35</td>
</tr>
<tr>
<td>No. 66L 12 in.</td>
<td>Each $1.50</td>
</tr>
<tr>
<td>No. 66S 9 in.</td>
<td>Each $1.10</td>
</tr>
<tr>
<td>No. 66S 12 in.</td>
<td>Each $1.25</td>
</tr>
</tbody>
</table>

Marked Metric Only.
(Millimetres both edges of both sides)

<table>
<thead>
<tr>
<th>With Level</th>
<th>Without Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 66LM 20 cm</td>
<td>Each $1.35</td>
</tr>
<tr>
<td>No. 66LM 30 cm</td>
<td>Each $1.50</td>
</tr>
<tr>
<td>No. 66SM 20 cm</td>
<td>Each $1.10</td>
</tr>
<tr>
<td>No. 66SM 30 cm</td>
<td>Each $1.25</td>
</tr>
</tbody>
</table>

Marked Metric and English.
One side, one edge millimetres, other edge inches to 16ths.
Other side, one edge millimetres, other edge inches to 8ths.

<table>
<thead>
<tr>
<th>With Level</th>
<th>Without Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 66LM-E 20 cm</td>
<td>Each $1.35</td>
</tr>
<tr>
<td>No. 66LM-E 30 cm</td>
<td>Each $1.50</td>
</tr>
<tr>
<td>No. 66SM-E 20 cm</td>
<td>Each $1.10</td>
</tr>
<tr>
<td>No. 66SM-E 30 cm</td>
<td>Each $1.25</td>
</tr>
</tbody>
</table>

Weight each: 9 inch (20 cm), 12 oz.; 12 inch (30 cm), 18 oz.

Packing: One in a box.

DOUBLE SQUARES
Tempered Blades

These are very convenient for pattern makers, machinists and tool makers in certain classes of work. Unlike simple try squares, the blades are adjustable in length by moving the head. Both faces of the head are square. In the 6-inch and 9-inch (15 and 20 cm) Squares, the head is equipped with level.

The bevel blade, illustrated above, gives hexagon and octagon angles, and is so marked, an improved feature. The drill grinding blade converts the tool into a most practical Drill Grinding Gage.

WITH No. 4 GRADUATION
Blade marked 8ths, 16ths, 32nds, 64ths inch.

<table>
<thead>
<tr>
<th>With Graduated Blade Only</th>
<th>With Graduated and Bevel Blades</th>
<th>With Graduated, Bevel and Drill Grinding Blades</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>26A</td>
<td>26B</td>
</tr>
<tr>
<td>Length</td>
<td>Price, Each</td>
<td>Length</td>
</tr>
<tr>
<td>4-inch</td>
<td>$1.50</td>
<td>4-inch</td>
</tr>
<tr>
<td>6-inch</td>
<td>2.40</td>
<td>6-inch</td>
</tr>
<tr>
<td>9-inch</td>
<td>3.60</td>
<td>9-inch</td>
</tr>
</tbody>
</table>

GRADUATED METRIC ONLY
Blade marked three edges in millimetres, one edge in half-millimetres

<table>
<thead>
<tr>
<th>Number</th>
<th>26M-A</th>
<th>26M-B</th>
<th>26M-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Price, Each</td>
<td>Length</td>
<td>Price, Each</td>
</tr>
<tr>
<td>10 cm</td>
<td>$1.50</td>
<td>10 cm</td>
<td>$2.00</td>
</tr>
<tr>
<td>15 cm</td>
<td>2.40</td>
<td>15 cm</td>
<td>3.00</td>
</tr>
<tr>
<td>20 cm</td>
<td>3.60</td>
<td>20 cm</td>
<td>4.20</td>
</tr>
</tbody>
</table>

GRADUATED METRIC AND ENGLISH
Blade marked one side half-millimetres and 32nds inch, other side millimetres and 64ths inch.

<table>
<thead>
<tr>
<th>Number</th>
<th>26ME-A</th>
<th>26ME-B</th>
<th>26ME-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>Price, Each</td>
<td>Length</td>
<td>Price, Each</td>
</tr>
<tr>
<td>10 cm</td>
<td>$1.50</td>
<td>10 cm</td>
<td>$2.00</td>
</tr>
<tr>
<td>15 cm</td>
<td>2.40</td>
<td>15 cm</td>
<td>3.00</td>
</tr>
<tr>
<td>20 cm</td>
<td>3.60</td>
<td>20 cm</td>
<td>4.20</td>
</tr>
</tbody>
</table>

Weight, each, with 2 blades; 4-inch...2 ozs.; 6-inch...7 ozs.; 9-inch...8 ozs.
Packing: One in a box.
"BANNER" SPRING DIVIDERS

With Solid Nut.  With "Quick Nut"

This is the type of Spring Divider most widely used. In these Dividers each part is made of steel best suited to the purpose. The points are properly hardened and the heavy bow spring insures reliability. These tools are correct in shape and size and have a fine uniform finish.

Of the two kinds listed below the Divider with solid nut is most popular.

WITH SOLID NUT

<table>
<thead>
<tr>
<th>No. 40</th>
<th>Length</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wt. per dozen</td>
<td>5/8 lb.</td>
<td>1 lb.</td>
<td>1 1/2 lb.</td>
<td>2 1/4 lb.</td>
<td>4 lb.</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$0.85</td>
<td>$0.90</td>
<td>$1.00</td>
<td>$1.05</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

WITH "QUICK NUT"

The Quick Nut is designed for making quick adjustments. On release of pressure this nut slides freely over the threads of the screw, but on slightest pressure grips the screw firmly.

<table>
<thead>
<tr>
<th>No. 50</th>
<th>Length</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wt. per dozen</td>
<td>5/8 lb.</td>
<td>1 lb.</td>
<td>1 1/2 lb.</td>
<td>2 1/4 lb.</td>
<td>4 lb.</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$1.05</td>
<td>$1.10</td>
<td>$1.15</td>
<td>$1.20</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

Packing: Three in a box.

"BANNER" OUTSIDE AND INSIDE SPRING CALIPERS

With Solid Nut.  With "Quick Nut"

These Spring Calipers are the type most widely used. All parts are made of steel best suited to the purpose, and those subject to wear are properly hardened. Stiff flat bow spring insures reliability. These tools are correct in shape and size and have a fine, uniform finish.

The inside type can be used as a Transfer Caliper, as the legs can be sprung in and withdrawn after calipering, and when released will spring back and show the size calipered.

The Quick Nut is designed for making quick adjustments. On release of pressure this nut slides freely over the threads of the screw, but on slightest pressure it grips the screw firmly.

Of the two kinds listed below, solid nut and Quick nut, the former is the most popular.

OUTSIDE CALIPERS WITH SOLID NUT

<table>
<thead>
<tr>
<th>No. 41</th>
<th>Length</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wt. per dozen</td>
<td>5/8 lb.</td>
<td>1 lb.</td>
<td>1 1/2 lb.</td>
<td>2 1/4 lb.</td>
<td>4 lb.</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$0.85</td>
<td>$0.90</td>
<td>$1.00</td>
<td>$1.05</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

OUTSIDE CALIPERS WITH "QUICK NUT"

<table>
<thead>
<tr>
<th>No. 51</th>
<th>Length</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wt. per dozen</td>
<td>5/8 lb.</td>
<td>1 lb.</td>
<td>1 1/2 lb.</td>
<td>2 1/4 lb.</td>
<td>4 lb.</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$0.85</td>
<td>$0.90</td>
<td>$1.00</td>
<td>$1.05</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

INSIDE CALIPERS WITH SOLID NUT

<table>
<thead>
<tr>
<th>No. 42</th>
<th>Length</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wt. per dozen</td>
<td>5/8 lb.</td>
<td>1 lb.</td>
<td>1 1/2 lb.</td>
<td>2 1/4 lb.</td>
<td>4 lb.</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$0.85</td>
<td>$0.90</td>
<td>$1.00</td>
<td>$1.05</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

INSIDE CALIPERS WITH "QUICK NUT"

<table>
<thead>
<tr>
<th>No. 52</th>
<th>Length</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wt. per dozen</td>
<td>5/8 lb.</td>
<td>1 lb.</td>
<td>1 1/2 lb.</td>
<td>2 1/4 lb.</td>
<td>4 lb.</td>
</tr>
<tr>
<td></td>
<td>Price, each</td>
<td>$0.85</td>
<td>$0.90</td>
<td>$1.00</td>
<td>$1.05</td>
<td>$1.35</td>
</tr>
</tbody>
</table>

Packing: Three in a box.
FIRM JOINT OUTSIDE AND INSIDE CALIPERS

The distinctive feature of these Firm Joint Calipers is the adjustable joint. Lock screw construction enables one to set and hold the legs to any desired tension or friction.

These tools are of sturdy construction throughout, smooth working, nicely proportioned, and have a fine, uniform finish.

All sizes below refer to lengths of legs. Actual capacity of the Calipers is about one-quarter greater than this length.

<table>
<thead>
<tr>
<th>FIRM JOINT OUTSIDE CALIPERS</th>
<th>FIRM JOINT INSIDE CALIPERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 11</td>
<td>No. 12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sizes</th>
<th>FIRM JOINT OUTSIDE CALIPERS</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 inch</td>
<td>$0.50</td>
<td></td>
</tr>
<tr>
<td>4 &quot;</td>
<td>0.60</td>
<td></td>
</tr>
<tr>
<td>5 &quot;</td>
<td>0.70</td>
<td></td>
</tr>
<tr>
<td>6 &quot;</td>
<td>0.80</td>
<td></td>
</tr>
<tr>
<td>8 &quot;</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>10 &quot;</td>
<td>1.10</td>
<td></td>
</tr>
<tr>
<td>12 &quot;</td>
<td>1.20</td>
<td></td>
</tr>
<tr>
<td>14 &quot;</td>
<td>1.80</td>
<td></td>
</tr>
<tr>
<td>16 &quot;</td>
<td>2.10</td>
<td></td>
</tr>
<tr>
<td>18 &quot;</td>
<td>2.35</td>
<td></td>
</tr>
<tr>
<td>20 &quot;</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>24 &quot;</td>
<td>3.60</td>
<td></td>
</tr>
<tr>
<td>&quot;30 &quot;</td>
<td>6.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sizes</th>
<th>FIRM JOINT INSIDE CALIPERS</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.36 &quot;</td>
<td>7.20</td>
<td></td>
</tr>
</tbody>
</table>

*These two sizes made in the outside pattern only.

SCREW ADJUSTING FIRM JOINT CALIPERS

The Screw Adjusting Firm Joint Caliper is used for quickly taking fine measurements. The joint can be set to any desired tension; the legs are stiff and well proportioned, and the tool is finely finished throughout.

All sizes below refer to length of legs. Actual capacity is about one-quarter greater than this length.

<table>
<thead>
<tr>
<th>SCREW ADJUSTING FIRM JOINT CALIPERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sizes</th>
<th>SCREW ADJUSTING FIRM JOINT CALIPERS</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 inch</td>
<td>$1.10</td>
<td></td>
</tr>
<tr>
<td>6 inch</td>
<td>1.20</td>
<td></td>
</tr>
<tr>
<td>8 inch</td>
<td>1.50</td>
<td></td>
</tr>
<tr>
<td>10 inch</td>
<td>1.80</td>
<td></td>
</tr>
<tr>
<td>12 inch</td>
<td>2.10</td>
<td></td>
</tr>
<tr>
<td>14 inch</td>
<td>2.40</td>
<td></td>
</tr>
<tr>
<td>16 inch</td>
<td>2.70</td>
<td></td>
</tr>
<tr>
<td>18 inch</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>20 inch</td>
<td>3.30</td>
<td></td>
</tr>
<tr>
<td>24 inch</td>
<td>4.20</td>
<td></td>
</tr>
</tbody>
</table>

Packing: 4 to 12 inch—3 per box.
14 to 20 inch—2 per box.
24 inch—wrapped one in a package.
TOOLMAKERS SPRING CALIPPERS AND DIVIDERS
Round Leg Pattern.

This is the type of Caliper and Divider preferred by fine mechanics.
The legs are of round stock, nicely tapered by swaging. The adjustment
screw is mounted central with the legs, avoiding all torsion on legs and
spring. These features add to the stability of the tool. The legs are finely
formed. Stiff flat bow spring insures reliability. Parts most subject to wear
are hardened.

These tools are especially well proportioned and finished, so are most
attractive.
Round Leg Calipers and Dividers are furnished only with solid nut.

TOOLMAKERS DIVIDERS

<table>
<thead>
<tr>
<th>Length</th>
<th>2 inch</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price, each</td>
<td>$1.20</td>
<td>$1.50</td>
<td>$1.80</td>
<td>$1.90</td>
<td>$2.10</td>
</tr>
</tbody>
</table>

TOOLMAKERS OUTSIDE CALIPPERS

<table>
<thead>
<tr>
<th>Length</th>
<th>2 inch</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price, each</td>
<td>$1.20</td>
<td>$1.50</td>
<td>$1.80</td>
<td>$1.90</td>
<td>$2.10</td>
</tr>
</tbody>
</table>

TOOLMAKERS INSIDE CALIPPERS

<table>
<thead>
<tr>
<th>Length</th>
<th>2 inch</th>
<th>3 inch</th>
<th>4 inch</th>
<th>5 inch</th>
<th>6 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Price, each</td>
<td>$1.20</td>
<td>$1.50</td>
<td>$1.80</td>
<td>$1.90</td>
<td>$2.10</td>
</tr>
</tbody>
</table>

Packing: Three in a box.

FIRM JOINT HERMAPHRODITE CALIPPERS

The No. A17 is furnished with adjustable point.

FIRM JOINT HERMAPHRODITE CALIPPERS

<table>
<thead>
<tr>
<th>Length</th>
<th>4 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz.</td>
<td>1½ lb</td>
<td>2½ lb</td>
<td>3½ lb</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.80</td>
<td>$0.80</td>
<td>$1.00</td>
</tr>
</tbody>
</table>

FIRM JOINT HERMAPHRODITE CALIPPERS

With Adjustable Point

<table>
<thead>
<tr>
<th>Length</th>
<th>4 inch</th>
<th>6 inch</th>
<th>8 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz.</td>
<td>1½ lb</td>
<td>2½ lb</td>
<td>3½ lb</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.80</td>
<td>$1.00</td>
<td>$1.20</td>
</tr>
</tbody>
</table>

Packing: Three in a box.
POCKET SLIDE CALIPPERS

Suitable for outside and inside caliperng. Measurement, both outside and inside, being read to a line rather than to face of jaw, is an aid to accuracy. To simplify reading the outside and inside reading lines are marked "out" and "in".

These calipers are equipped with lock to securely set them at any point. This locking device is readily set or released by thumb of the same hand in which tool is held.

The slide has stop, so that it cannot be entirely withdrawn or lost out.

<table>
<thead>
<tr>
<th>Number</th>
<th>SLIDE MARKED 64THS; STOCK MARKED 32NDS INCH</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>453</td>
<td>3-inch Depth jaws 11/16 inch; width nibs, closed, 1/4 inch</td>
<td>$4.00</td>
</tr>
<tr>
<td>455</td>
<td>5-inch Depth jaws 1 7/16 inch; width nibs, closed, 1/4 inch</td>
<td>5.00</td>
</tr>
<tr>
<td>456</td>
<td>6-inch Depth jaws 1 7/16 inch; width nibs, closed 1/4 inch</td>
<td>6.50</td>
</tr>
<tr>
<td>453M</td>
<td>MARKED METRIC ONLY Slide graduated half-millimetres; stock graduated millimetres. Depth jaws 17 mm; width nibs, closed, 3 mm</td>
<td>$4.00</td>
</tr>
<tr>
<td>455M</td>
<td>13-centimetre Slide graduated millimetres one edge, half-millimetres other edge; stock graduated millimetres. Depth jaws 36 mm; width nibs, closed, 6 mm</td>
<td>5.00</td>
</tr>
<tr>
<td>456M</td>
<td>15-centimetre Slide graduated millimetres one edge, half-millimetres other edge; stock graduated millimetres. Depth jaws 36 mm; width nibs, closed, 6 mm</td>
<td>6.50</td>
</tr>
<tr>
<td>453EM</td>
<td>MARKED METRIC AND ENGLISH Slide marked half-millimetres one edge, 64ths inch other edge; stock marked 32nds inch. Depth jaws 17 mm (11/16 inch); width nibs, closed, 3 mm (1/4 inch)</td>
<td>$4.00</td>
</tr>
<tr>
<td>455EM</td>
<td>13-centimetre (5 inch) Depth jaws 36 mm (1 7/16 inch); width nibs, closed, 6 mm (1/4 inch)</td>
<td>5.00</td>
</tr>
<tr>
<td>456EM</td>
<td>15-centimetre (6 inch) Depth jaws 36 mm (1 7/16 inch); width nibs, closed, 6 mm (1/4 inch)</td>
<td>6.50</td>
</tr>
</tbody>
</table>

Packing: One in a box.

Weights, each: 3 inch...1 oz. 5 inch...3 ozs. 6 inch...5 ozs.

THICKNESS GAGES

With Patent Lock.

Pat. Jan. 27, 1925

The Thickness Gages listed on this page are designed to meet the demand of the automobile world for a low priced, yet accurate tool. Among other uses they are employed in determining the clearance of tappets, fitting pistons, and adjusting spark gap.

A distinctive feature of these, like all other Lufkin Thickness Gages, is the patent lock. By means of a lock nut operated by the same hand in which the tool is held, any one or more leaves can be locked in any position. This permits the use of the tool in its full length, 5 1/2 inches, and guards against error. Convenient in all gaging, it especially appeals to motor mechanics, whose work is often difficult of access or requires that the tool be held at an angle, as on V type motors. Two or more of the leaves being separated and locked makes the tool a handy limit gage.

While these Thickness Gages are without case, the leaves, when closed and locked with the name plate and the .015 leaf on the outside, are well protected. Removal of the screw stud makes the inserting of a new leaf very simple.

All leaves are tempered steel ground to exact thickness, individually tested, and each one clearly marked with its thickness. They also are of the most popular length.

<table>
<thead>
<tr>
<th>Number</th>
<th>6-Leaf Thickness Gage. Leaves 1/2 inch wide, 3 inches long. Thicknesses: .002, .003, .004, .008, .010, .015 inch</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>.002, .003, .004, .008, .010, .015 inch. ..........................</td>
<td>$0.90</td>
</tr>
<tr>
<td>07</td>
<td>7-Leaf Thickness Gage. Leaves 1/2 inch wide, 3 inches long. Thicknesses: .0015, .002, .003, .004, .008, .010, .015, .015 inch  ....</td>
<td>1.10</td>
</tr>
<tr>
<td>09</td>
<td>9-Leaf Thickness Gage. Leaves 1/2 inch wide, 3 inches long. Thicknesses: .0015, .002, .003, .004, .006, .008, .010, .012, .015 inch. This is a very good range of sizes.  ..................................</td>
<td>1.35</td>
</tr>
</tbody>
</table>

(For gage same as this but with case, see No. 109. page 93A)

Weight each, 1/2 oz. Packing: 6 in a box.
### THICKNESS GAGES

**With Patent Lock.**

Pat. Jan. 27, 1925

Widely used not only in the automobile field, but by all tool makers and machinists in jig and fixture work, in the making of gages, etc.

All gages on this page have regular case into which the leaves fold. All have patent lock feature, i.e., by means of a lock nut any one or more leaves can be locked in any position. This is handy in all work. It permits the use of the gage in its full length and reduces the chance of error. With it also the leaves can be securely held in the case when not in use.

The leaves are of tempered steel, ground to exact thickness, individually tested and each one clearly marked with its thickness. They are also of the length that is most popular.

<table>
<thead>
<tr>
<th>Number</th>
<th>9-Leaf Thickness Gage.</th>
<th>Leaves 1/2 inch wide, 3 inches long.</th>
</tr>
</thead>
<tbody>
<tr>
<td>109</td>
<td></td>
<td>Thicknesses: .0015, .002, .003, .004, .006, .008, .010, .012, .015 inch. Overall length of gage with leaf extended and locked, 6 inches. Weight each, 1 oz.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>10-Leaf Thickness Gage.</th>
<th>Leaves 1/2 inch wide, 3 inches long.</th>
</tr>
</thead>
<tbody>
<tr>
<td>110</td>
<td></td>
<td>Thicknesses: .0015, .002, .0025, .003, .004, .006, .008, .010, .012, .015 inch. Overall length of gage with leaf extended and locked, 6 inches. Weight each, 1 oz.</td>
</tr>
</tbody>
</table>

*Same as No. 109 but having in addition leaf .0025*

<table>
<thead>
<tr>
<th>Number</th>
<th>9-Leaf Metric Thickness Gage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>109M</td>
<td>Leaves approximately 12 mm wide, 7 1/2 cm long.</td>
</tr>
<tr>
<td></td>
<td>Thicknesses: .04, .05, .06, .07, .08, .10, .15, .20, .25 millimetres. Combined thickness 1 millimetre. Weight each, 1 oz.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>16-Leaf Metric Thickness Gage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>116M</td>
<td>Leaves approximately 12 mm wide, 7 1/2 cm long.</td>
</tr>
<tr>
<td></td>
<td>Thicknesses: .04, .05, .06, .07, .08, .10, .15, .20, .25, .30, .35, .40, .45, .50 millimetres and two leaves of 1 mm each. A very good range of metric sizes. Combined thickness of leaves 5 mm. Weight each, 2 ozs.</td>
</tr>
</tbody>
</table>

**Packing:** One in a box, three in a carton.

### THICKNESS GAGES WITH TAPERED LEAVES

**With Patent Lock.**

Pat. Jan. 27, 1925

The tapered leaf patterns are particularly popular with many users of Thickness Gages, because they give access to narrow openings. Aside from the leaves being tapered, the gages below are identically the same as those on preceding page. All have regular case into which the leaves fold. They also have the patent lock nut, making possible the locking of any leaf in any position, which is always convenient and especially valuable in some classes of work. All leaves are tempered steel, ground to exact thickness, individually tested, and each one clearly marked with its thickness. They are of the length most in demand.

<table>
<thead>
<tr>
<th>Number</th>
<th>9-Leaf Thickness Gage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>109T</td>
<td>Leaves 3 inches long, tapered to 1/4 inch.</td>
</tr>
<tr>
<td></td>
<td>Thicknesses: .0015, .002, .003, .004, .006, .008, .010, .012, .015 inch. Overall length of gage with leaf extended and locked, 6 inches. Weight each, 1 oz.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>10-Leaf Thickness Gage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>110T</td>
<td>Leaves 3 inches long, tapered to 1/4 inch.</td>
</tr>
<tr>
<td></td>
<td>Thicknesses: .0015, .002, .0025, .003, .004, .006, .008, .010, .012, .015 inch. Overall length of gage with leaf extended and locked, 6 inches. Weight each, 1 oz.</td>
</tr>
</tbody>
</table>

*Same as No. 109T, but having in addition leaf .0025*

<table>
<thead>
<tr>
<th>Number</th>
<th>9-Leaf Metric Thickness Gage.</th>
</tr>
</thead>
<tbody>
<tr>
<td>109TM</td>
<td>Leaves approximately 7 1/2 cm long, tapered to 6 1/2 mm.</td>
</tr>
<tr>
<td></td>
<td>Thicknesses: .04, .05, .06, .07, .08, .10, .15, .20, .25 millimetres. Combined thickness 1 mm. Weight each, 1 oz.</td>
</tr>
</tbody>
</table>

**Packing:** One in a box, three in a carton.
THICKNESS GAGES

With Patent Lock.
Pat. Jan. 27, 1925

One of the features of these gages is the wide range of thicknesses they offer. No. 126 has leaves increasing in thickness by one-thousandth inch from .002 to .025 inch inclusive, and carries also leaves .0015 and .0025 inch. No. 122 runs by thousandths from .004 to .025 inch. There is hardly a line of work in which these tools will not take care of every requirement.

Both have regular case into which the leaves fold, and also the patent lock feature. Any one or more leaves can be locked in any position for use or all locked into the case for protection.

All leaves are of tempered steel ground to exact thickness, individually tested, and each one clearly marked with its thickness. They have 3-inch leaves, the most popular length.

Number

<table>
<thead>
<tr>
<th>Number</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>126</td>
<td></td>
</tr>
<tr>
<td>26-Leaf Thickness Gage</td>
<td>Leaves 1/2 inch wide, 3 inches long.</td>
</tr>
<tr>
<td>Thicknesses: .0015, .002, .0025, .003, .004, .005, .006, .007, .008, .009, .010, .011, .012, .013, .014, .015, .016, .017, .018, .019, .020, .021, .022, .023, .024, .025 inch. Overall length of gage with leaf extended and locked, 6 inches. This gage gives the widest range of sizes, and, unlike others, it has .0025 inch. Weight each, 1/2 ozs.</td>
<td>$3.50</td>
</tr>
</tbody>
</table>

| 122    |             |
| 22-Leaf Thickness Gage | Leaves 1/2 inch wide, 3 inches long. |
| Thicknesses: Leaves increase by thousandths from .004 to .025 inch. A wide range of sizes. Weight each, 1/2 ozs. | 2.50 |

Packing: One in a box, three in a carton.

THICKNESS GAGE LEAVES ONLY

For use as separate pieces or for replacing leaves in gages. In ordering always specify thickness and whether leaves should be straight or tapered.
Price, each... 3-inches $0.25 41/2-inch $0.40 6-inch $0.50

THICKNESS GAGE STOCK

There is a demand for thickness gage stock only, in long pieces. These we supply in any of our standard thicknesses and in 6, 12 and 18 inch lengths, 1/2 inch wide. Each of these pieces is like the leaves of our gages, marked with its thickness.

<table>
<thead>
<tr>
<th>Length</th>
<th>Price, each</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-inch</td>
<td>$0.40</td>
</tr>
<tr>
<td>12-inch</td>
<td>$0.80</td>
</tr>
<tr>
<td>18-inch</td>
<td>$1.20</td>
</tr>
</tbody>
</table>

THICKNESS GAGES WITH TAPERED LEAVES

With Patent Lock.
Pat. Jan. 27, 1925

Particularly popular with the motor service mechanic for finding the clearance between pistons and cylinder walls.

They have regular case into which leaves fold. They also have the patent lock which makes possible locking of any leaf in any position.

All leaves are of tempered steel, ground to exact thickness, individually tested, and each clearly marked with its thickness.

Number

<table>
<thead>
<tr>
<th>Number</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>208T</td>
<td></td>
</tr>
<tr>
<td>8-Leaf Thickness Gage</td>
<td>Leaves 41/2 inches long, 1/2 inch wide at base, tapered to 1/4 inch.</td>
</tr>
<tr>
<td>Thicknesses: .002, .003, .004, .006, .008, .010, .012, .015 inch. Overall length of gage with leaf extended and locked, 9 inches. Weight each, 1/2 ozs.</td>
<td>$2.50</td>
</tr>
</tbody>
</table>

| 308T   |             |
| 8-Leaf Thickness Gage | Leaves 6 inches long, 1/2 inch wide at base, tapered to 1/4 inch. |
| Thicknesses: .002, .003, .004, .006, .008, .010, .012, .015 inch. Overall length of gage with leaf extended and locked, 12 inches. Weight each, 2 ozs. | $3.00 |

Packing: One in a box.
This tool is designed to measure the pitch, or number of threads per inch, of both the U. S. Form Thread, and the sharp "V" Thread. Each blade is marked with its pitch and, on the outside of the case, the Double Depth of the U. S. Form Thread is given, as it is the recognized standard thread used in this country. To obtain the Double Depth of Sharp "V" Threads, for the same pitch, add ½ to the double depth given for U. S. Form Thread.

The blades are shaped to measure quickly the inside threads of nuts, as well as bolts and screws.

These Screw Pitch gauges are furnished either with or without the Patent Lock Nut. The lock nut permits the locking of any one blade in any position, where that particular pitch is being used constantly.

### WITH LOCK NUT

<table>
<thead>
<tr>
<th>No.</th>
<th>22 Pitches</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>74A</td>
<td>8-9-10-11-11½-12-13-14-16-18-20</td>
<td>$1.50</td>
</tr>
<tr>
<td></td>
<td>4-4½-5-5½-6-7-8-9-10-11-11½-12-13</td>
<td>$1.75</td>
</tr>
<tr>
<td>74B</td>
<td>28 Pitches</td>
<td>$2.00</td>
</tr>
<tr>
<td>74C</td>
<td>8-9-10-11-11½-12-13-14-16-18-20-22-24-27</td>
<td></td>
</tr>
<tr>
<td>74D</td>
<td>28 Pitches</td>
<td>$2.00</td>
</tr>
<tr>
<td></td>
<td>3-3½-4-4½-5-5½-6-7-8-9-10-11-11½-12</td>
<td></td>
</tr>
</tbody>
</table>

### WITHOUT LOCK NUT

<table>
<thead>
<tr>
<th>No.</th>
<th>22 Pitches</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>73A</td>
<td>8-9-10-11-11½-12-13-14-16-18-20</td>
<td>$1.25</td>
</tr>
<tr>
<td></td>
<td>4-4½-5-5½-6-7-8-9-10-11-11½-12</td>
<td>$1.50</td>
</tr>
<tr>
<td>73B</td>
<td>28 Pitches</td>
<td>$1.75</td>
</tr>
<tr>
<td>73C</td>
<td>8-9-10-11-11½-12-13-14-16-18-20-22-24-27</td>
<td></td>
</tr>
<tr>
<td>73D</td>
<td>28 Pitches</td>
<td>$1.75</td>
</tr>
<tr>
<td></td>
<td>3-3½-4-4½-5-5½-6-7-8-9-10-11-11½-12</td>
<td></td>
</tr>
</tbody>
</table>

Packing: One in a box, six in a carton.

#### CENTER GAGES

Used in grinding and setting screw cutting tools. Made of steel and carrying markings such as are most commonly required in determining the number of threads per inch or per centimetre.

Nos. 36 and 036 are especially popular as they carry a table of double depth figures, a valuable feature in determining tap drill size for sharp 60 degree V threads. Allowance is to be made for the extent to which thread is flattened, as it is not practical to tap a perfectly sharp thread.

<table>
<thead>
<tr>
<th>Number</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Center Gage Spring tempered. Angles of 60 degrees</td>
</tr>
<tr>
<td>036</td>
<td>Center Gage Not tempered. Angles of 60 degrees</td>
</tr>
<tr>
<td>37</td>
<td>Whitworth Standard Center Gage Spring tempered. Angles of 55 degrees</td>
</tr>
<tr>
<td>037</td>
<td>Whitworth Standard Center Gage Not tempered. Angles of 55 degrees</td>
</tr>
</tbody>
</table>

Marked three edges in millimetres

one edge in half-millimetres

| 36M | Metric Center Gage Spring tempered. Angles of 60 degrees | .50 |
| 036M| Metric Center Gage Not tempered. Angles of 60 degrees | .40 |

Weight per dozen, 4 ozs. Packing: Six in a box.
CENTER PUNCHES

Made of fine quality tool steel. Neatly shaped, hardened, tempered and polished. The points are carefully ground. Knurled on the body to afford a good finger grip.

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>LENGTH</th>
<th>DIAM. TOP OF TAPE.</th>
<th>WEIGHT EACH</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>71AA</td>
<td>3 1/8</td>
<td>1/16</td>
<td>1/2 oz.</td>
<td>$0.25</td>
</tr>
<tr>
<td>71A</td>
<td>3 1/2</td>
<td>5/64</td>
<td>1/2 oz.</td>
<td>.25</td>
</tr>
<tr>
<td>71B</td>
<td>3 7/8</td>
<td>3/32</td>
<td>1 oz.</td>
<td>.25</td>
</tr>
<tr>
<td>71C</td>
<td>4 1/4</td>
<td>9/64</td>
<td>1 oz.</td>
<td>.25</td>
</tr>
<tr>
<td>71D</td>
<td>4 3/8</td>
<td>5/32</td>
<td>1 1/2 oz.</td>
<td>.25</td>
</tr>
<tr>
<td>71E</td>
<td>5</td>
<td>1/4</td>
<td>2 oz.</td>
<td>.30</td>
</tr>
</tbody>
</table>

Packing: Twelve in a box—No. 71E, Six in a box.

71S Center Punch Set 6 oz. 1.75

This set consists of one each of the above Center Punches packed in a compact canvas case.

DEPTH GAGES

These are very handy Depth Gages for tool and die makers, machinists, and others. All heads are of steel, case hardened and nicely finished. They are 2 1/2 inches wide across the base, giving good range: 1/8 inch thick, and properly designed to best fit the hand. All heads on our gages are deeply notched on one side, so graduations can be most accurately and easily read. All blades are tempered, machine divided, and fitted in slot of the head. They can be securely clamped at any point by means of the knurled lock nut. Blades are also removable for use simply as scales.

<table>
<thead>
<tr>
<th>Number</th>
<th>6-Inch Depth Gage. Fitted with narrow (3/16 inch) spring tempered blade, marked one side 32nds, other side 64ths inch</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>510</td>
<td>Fitted with narrow (3/16 inch) spring tempered blade, marked one side 32nds, other side 64ths inch</td>
<td>$1.50</td>
</tr>
<tr>
<td>511</td>
<td>6-Inch Depth Gage With Degree Lines on Head. One side of head is marked with 30, 45 and 60 degree lines, to which the blade can be swung and set, converting the tool into a simple protractor for certain classes of work. Fitted with narrow (3/16 inch) spring tempered blade marked one side 32nds, other side 64ths inch.</td>
<td>$2.00</td>
</tr>
<tr>
<td>512</td>
<td>6-Inch Depth Gage With Round, Graduated Blade. The distinctive feature of this gage is that the blade, while round, is graduated. It is tempered, and being but 1/10 inch in diameter, gives access to small holes. Graduated 4 inches to 32nds. Measurement is arrived at without the additional use of a rule, making this the ideal tool of its kind.</td>
<td>$1.50</td>
</tr>
</tbody>
</table>

Weight each, 2 oz. Packing: One in a box.

NOTE—All lengths of our narrow rules, Nos. 2310, 2311, and narrow hook rule No. 2310, are interchangeable with the blades of Nos. 510 and 511 Depth Gages.
GRADUATIONS OF STEEL RULES

ENGLISH MEASURE

Steel Rules or Scales as shown on the following pages are divided into parts of inches, as follows:

No. 1 Graduation
1st corner—10-20-50-100ths.
2nd corner—12-24-48ths.
3rd corner—16-32-64ths.
4th corner—8ths.

No. 2 Graduation
1st corner—10-20-50-100ths.
2nd corner—12-24-48ths.
3rd corner—16-32-64ths.
4th corner—8ths.

No. 4 Graduation
1st corner—64ths.
2nd corner—32nds.
3rd corner—16ths.
4th corner—100ths.

No. 7 Graduation
1st corner—64ths.
2nd corner—32nds.
3rd corner—16ths.
4th corner—100ths.

No. 10 Graduation
1st corner—32nds.
2nd corner—64ths.

No. 11 Graduation
1st corner—64ths.
2nd corner—100ths.

No. 12 Graduation
1st corner—50ths.
2nd corner—100ths.

NOTE—We also list on the following pages other combinations of English graduations, as well as rules in metric and metric and English.

SHOWING READABLE GRADUATIONS

SHOWING END GRADUATIONS

SPRING TEMPERED RULES

Machine Divided

Approximate Thickness 3/64 Inch.

All rules on this page are spring tempered. They are the weight most extensively used. Carefully ground and graduated, and having easily read lines and figures. For prices, etc., of all, see foot of page.

WITHOUT READABLE GRADUATIONS

Number

2204 No. 4 graduation, 8ths, 16ths, 32nds, 64ths. Lengths, 1 to 48 inches. Rules from 2 to 24 inches long have end graduations (one end of both sides graduated to 32nds).

2201 No. 1 graduation, 10ths, 20ths, 50ths, 100ths; 12ths, 24ths, 48ths; 16ths, 32nds, 64ths; 14ths, 28ths. Lengths, 6 and 12 inch only. For gear cutting work.

2202 No. 2 graduation, 10ths, 20ths, 50ths, 100ths; 12ths, 24ths, 48ths; 8ths, 16ths, 32nds, 64ths. Lengths, 6 and 12 inch only.

WITH READABLE GRADUATIONS

2204R No. 4 graduation, 8ths, 16ths, 32nds, 64ths. Lengths, 1 to 24 inches. Readable Graduations (64ths numbered every eighth division) on all rules 24 inches and under. Rules 2 to 24 inches long have end graduations (one end of both sides graduated to 32nds).

2207R No. 7 graduation, 10ths, 20ths, 50ths, 100ths. Lengths, 1 to 48 inches. Readable Graduations (64ths numbered every eighth division) on all rules 24 inches and under.

Length .......... 1 in. 2 in. 3 in. 4 in. 5 in. 6 in. 7 in. 8 in. 9 in. 10 in. 11 in. 12 in. 13 in. 14 in. 15 in. 16 in. 17 in. 18 in. 19 in. 20 in. 21 in. 22 in. 23 in. 24 in. 36 in. 48 in.

Notes: Rules 12 inches and under, six in a box; others one in a package.

NOTE—For rules such as No. 2204 but extra heavy, see page 106.
ROSE TOOLS, INC.

Showing Readable Graduations

Showing End Graduations

SEMIFLEXIBLE RULES
Machine Divided

Approximate Thickness 1/50 Inch.

All rules on this page are of tempered steel but lighter weight than those on previous page classified as spring tempered. These are, however, heavier than our flexible rules. For prices, etc., of all, see foot of page.

WITH READABLE GRADUATIONS

2604R No. 4 graduation, 8ths, 16ths, 32nds, 64ths. Lengths, 2 to 12 inches. All have Readable Graduations (64ths numbered every eighth division); and end graduations (one end of both sides graduated to 32nds).

2607R No. 7 graduation, 16ths, 32nds, 64ths, 100ths. Lengths, 2 to 12 inches. All have Readable Graduations (64ths numbered every eighth division).

Length 2 in. 3 in. 4 in. 6 in. 9 in. 12 in.
Approx. width, in. 1/2 1/2 1/4 1/4 1/4 1/4
Weight, ozs. 3 4 5 7 10 17
Price, each $0.45 $0.60 $0.75 $0.90 $1.35 $1.65

Packing: Six in a box.

FLEXIBLE RULES
Machine Divided

Made of the finest quality spring tempered steel, very thin and flexible. Rules 12 inches and under in length are 1/2 inch wide, and will conform to a 2-inch circle. Rules 18 inches and over are 3/4 inch wide and a trifle heavier. All are graduated one side only. Six-inch rules are regularly furnished with metal-bound leather cases.

No. 2110... No. 10 graduation, 32nds and 64ths.
No. 2111... No. 11 graduation, 64ths and 100ths.
No. 2112... No. 12 graduation, 50ths and 100ths.

Nos. 2110, 2111, 2112.
Length 1 in. 2 in. 3 in. 4 in. 6 in. 9 in. 12 in. 16 in. 24 in. 36 in. 48 in.
Weight per oz. 1/4 1/2 1/4 1/4 1/2 1/2 1/2 2/3 3 4/5
Price, each $0.30 $0.45 $0.60 $0.75 $0.90 $1.35 $1.65 $2.60 $3.25 $7.00 $10.00

Packing: Rules 12 in. and under in length, six in a box; others one in a package.

NARROW RULES
Machine Divided—Spring Tempered
Approximate Width 3/16 Inch. Thickness 3/64 Inch.

Of high grade, spring tempered steel. Being but 3/16 inch wide, these rules are easily inserted in small openings. They are interchangeable with the blades of our Depth Gages. They are graduated one edge of each side.

No. 2310... No. 10 graduation, 32nds and 64ths.
No. 2311... No. 11 graduation, 64ths and 100ths.

Nos. 2310, 2311
Length 4 in. 6 in. 9 in. 12 in.
Weight per oz. 3 4 6 10
Price, each $0.25 $0.30 $1.35 $1.65

Packing: Six in a box.
SPRING TEMPERED RULES
With One Beveled Edge
Machine Divided

Approximate Thickness 3/64 inch.

These rules are used by tool makers, draftsmen, engineers and architects, and are very handy for laying out work.

**No. 2224 Beveled.** No. 4 graduation, 8ths, 16ths, 32nds, 64ths. With the 64ths on the beveled edge. Lengths, 4 to 12 inches. With end graduations (one end of both sides graduated to 32nds).

**No. 2227 Beveled.** No. 7 graduation, 16ths, 32nds, 64ths, 100ths. With 100ths on the beveled edge. Made in 6 and 12 inch lengths only.

<table>
<thead>
<tr>
<th>Length</th>
<th>4 in</th>
<th>6 in</th>
<th>9 in</th>
<th>12 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. width, in.</td>
<td>3/8</td>
<td>3/4</td>
<td>3/8</td>
<td>1</td>
</tr>
<tr>
<td>Weight, oz.</td>
<td>7 oz</td>
<td>13 oz</td>
<td>15 1/2 oz</td>
<td>2 lbs</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.35</td>
<td>$1.65</td>
</tr>
</tbody>
</table>

Packing: Six in a box.

**SPRING TEMPERED RULE**
English and Metric
Machine Divided

Approximate Thickness 3/64 Inch.

This rule has a very wide range of graduations, both English and metric.

**No. 3227** Marked both sides. One side, upper edge 16ths, 32nds, 64ths, lower edge 10ths, 20ths, 50ths and 100ths inches; other side, upper edge millimetres, lower edge half-millimetres.

<table>
<thead>
<tr>
<th>Length</th>
<th>1 in</th>
<th>2 in</th>
<th>3 in</th>
<th>5 in</th>
<th>6 in</th>
<th>8 in</th>
<th>10 in</th>
<th>12 in</th>
<th>18 in</th>
<th>24 in</th>
<th>36 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. width, in.</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>1/2</td>
<td>3/4</td>
<td>3/4</td>
</tr>
<tr>
<td>Weight, oz.</td>
<td>5/8</td>
<td>5/8</td>
<td>5/8</td>
<td>5/8</td>
<td>3/4</td>
<td>3/4</td>
<td>1 1/4</td>
<td>1 1/4</td>
<td>1 1/4</td>
<td>1 1/4</td>
<td>1 1/4</td>
</tr>
<tr>
<td>Price, each</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
<td>$1.25</td>
</tr>
</tbody>
</table>

Packing: Rules 12 inches and under, six in a box; others one in a package.

**SPRING TEMPERED HOOK RULES**
Machine Divided

**STANDARD WEIGHT.**

**HEAVY PATTERN.**

**NARROW PATTERN.**

These are Steel Rules as listed on other pages but fitted with a removable hook. They are very convenient in taking measurements over round or square corners, through openings, such as the hubs of pulleys or wheels, and wherever the measuring edge is difficult to see or determine (also in setting and reading dividers and calipers).

Hooks are of hardened steel and are quickly removed by giving eccentric stud a half turn, making the article for use same as a rule without hook.

The narrow pattern Hook Rules are suitable for measuring through openings as small as 3/8 inch or 10 millimetres. These are interchangeable with the blades in our Depth Gages.

**STANDARD WEIGHT**
Approximate Thickness 3/64 Inch (1 MM)

<table>
<thead>
<tr>
<th>Length</th>
<th>6 in</th>
<th>9 in</th>
<th>12 in</th>
<th>18 in</th>
<th>24 in</th>
<th>36 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approx. width, rule</td>
<td>3/4 in</td>
<td>3/4 in</td>
<td>1 in</td>
<td>1 1/4 in</td>
<td>1 1/4 in</td>
<td>1 1/4 in</td>
</tr>
<tr>
<td>Wt. oz., lbs.</td>
<td>1</td>
<td>1 1/4</td>
<td>2 1/4</td>
<td>3 1/4</td>
<td>5</td>
<td>6 1/4</td>
</tr>
<tr>
<td>Price, each</td>
<td>$1.25</td>
<td>$1.75</td>
<td>$2.75</td>
<td>$3.75</td>
<td>$5</td>
<td>$6.50</td>
</tr>
</tbody>
</table>

**HEAVY PATTERN**
Approximate Thickness 1/10 Inch; Width 1 1/2 Inch.

<table>
<thead>
<tr>
<th>Length</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. oz., lbs.</td>
<td>1 1/4</td>
<td>2 1/4</td>
<td>3</td>
</tr>
<tr>
<td>Price, each</td>
<td>$1.25</td>
<td>$1.60</td>
<td>$2.15</td>
</tr>
</tbody>
</table>

**NARROW PATTERN**
Approximate Thickness 3/64 Inch (1 MM); Width 3/16 Inch (5 MM)

<table>
<thead>
<tr>
<th>Length</th>
<th>4 in</th>
<th>6 in</th>
<th>9 in</th>
<th>12 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per oz., lbs.</td>
<td>4</td>
<td>5</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>Price, each</td>
<td>$1.00</td>
<td>$1.20</td>
<td>$1.65</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

**HEAVY PATTERN**
Approximate Thickness 3/64 Inch (1 MM); Width 3/16 Inch (5 MM)

<table>
<thead>
<tr>
<th>Length</th>
<th>18 cm</th>
<th>20 cm</th>
<th>30 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per oz., lbs.</td>
<td>5</td>
<td>7</td>
<td>12</td>
</tr>
<tr>
<td>Price, each</td>
<td>$1.20</td>
<td>$1.50</td>
<td>$2.00</td>
</tr>
</tbody>
</table>

Packing: Rules 12 inches and under in length, three in a box; others one in a package.

NOTE—Hook Rules can be furnished marked metric and English, in the standard weight and the narrow pattern. Specify as "H2300ME" and "H2300ME."
METRIC STEEL RULES
Machine Divided

Of highest quality tempered rule steel, carefully ground. Finely gradu-
ated and having most legible lines and figures.

**SPRING TEMPERED**

*Approximate Thickness 1 MM*

<table>
<thead>
<tr>
<th>Length</th>
<th>5 cm</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
<th>50 cm</th>
<th>1 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width in mm</td>
<td>13</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>25</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Weight per doz, lbs</td>
<td>¼</td>
<td>½</td>
<td>¾</td>
<td>1½</td>
<td>2</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.45</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
<td>$2.60</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

**SEMI-FLEXIBLE**

*Approximate Thickness ½ MM*

Of tempered steel, heavier than the flexible, though about ½ the thick-
ness of No. 2200M rules above. Widths same as No. 2200M rules.

<table>
<thead>
<tr>
<th>Length</th>
<th>5 cm</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
<th>50 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per doz, ozs</td>
<td>3</td>
<td>5</td>
<td>7</td>
<td>9</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.45</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
<td></td>
</tr>
</tbody>
</table>

**FLEXIBLE**

*Approximate Thickness 3/10 mm (except 50 cm length)*

Of full flexible spring tempered steel, easily held to the work.

<table>
<thead>
<tr>
<th>Length</th>
<th>5 cm</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
<th>50 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width in mm</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>13</td>
<td>19</td>
</tr>
<tr>
<td>Wt. per doz, ozs</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.45</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
<td>$2.60</td>
</tr>
</tbody>
</table>

**NARROW PATTERN, TEMPERED**

*Approximate Width 5 MM, Thickness 1 MM*

Being but 5 millimetres wide, these rules can be inserted in small open-
ings. They are interchangeable with the blades of our Depth Gages.

<table>
<thead>
<tr>
<th>Length</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz, ozs</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
</tr>
</tbody>
</table>

Packing: Rules 30 cm and under in length, six in a box; others one in a package.

NOTE—For these rules marked metric and English, see page 105.

METRIC AND ENGLISH STEEL RULES
Machine Divided

Of highest quality tempered rule steel, carefully ground. Finely gradu-
ated and having most legible lines and figures.

**SPRING TEMPERED**

*Approximate Thickness 1 MM (3/64 Inch)*

<table>
<thead>
<tr>
<th>Length</th>
<th>5 cm</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
<th>50 cm</th>
<th>1 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width in mm</td>
<td>13</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>25</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Weight per doz, lbs</td>
<td>¼</td>
<td>½</td>
<td>¾</td>
<td>1½</td>
<td>2</td>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.45</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
<td>$2.60</td>
<td>$10.00</td>
</tr>
</tbody>
</table>

**FLEXIBLE**

*Approximate Thickness 3/10 MM (except 50 cm length)*

Of full flexible spring tempered steel, easily held to the work.

<table>
<thead>
<tr>
<th>Length</th>
<th>5 cm</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
<th>50 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. per doz, ozs</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>8</td>
<td>32</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.45</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
<td>$2.60</td>
</tr>
</tbody>
</table>

**NARROW PATTERN, TEMPERED**

*Approximate Thickness 1 MM (3/64 Inch), Width 5 MM (3/16 Inch)*

Being but 5 millimetres wide, these rules can be inserted in small open-
ings. They are interchangeable with the blades of our Depth Gages.

<table>
<thead>
<tr>
<th>Length</th>
<th>10 cm</th>
<th>15 cm</th>
<th>20 cm</th>
<th>30 cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wt. doz., ozs</td>
<td>3</td>
<td>4</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Price, each</td>
<td>$0.75</td>
<td>$0.90</td>
<td>$1.20</td>
<td>$1.65</td>
</tr>
</tbody>
</table>

Packing: Rules 30 centimetres and under in length, six in a box; others one in a package.

NOTE—For these rules marked metric only, see page 104.
HEAVY SPRING TEMPERED RULES

Machine Divided

Approximate Thickness 1/10 inch

Heavier, wider, and made in longer lengths than our regular spring tempered rules. Especially recommended for factory use and wherever a long scale is required.

No. 2404

<table>
<thead>
<tr>
<th>Heavy, No. 4 graduation, 8ths, 16ths, 32nds, 64ths.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Approx. width, in. . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Weight each, lbs. . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Price, each . . . . . . . . . . . . . . . . . . . .</td>
</tr>
</tbody>
</table>

Packing: One in a package.

STEEL SHRINK RULES

Machine Divided

For pattern makers, foundry workers, and others. Made of spring tempered steel, approximately 3/64 inch thick. These rules are the highest grade, finely graduated and guaranteed accurate. Lines and figures are cut into the steel and show up clear and distinct.

All In No. 4 Graduation, 8ths, 16ths, 32nds, 64ths.

Always Specify Length As Well As Stock Number.

No. 38C 38E 38F 38G 38H 38K 38R 38T

| Shrink per ft. . . . . . . . . . . . . . . . . . . . . . . . | 1/10 |
|-------------------------------------------------------|
| 1/10 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/8 |
| 3/16 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/4 |
| 5/16 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 3/8 |
| 5/32 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 9/32 |
| 1/2 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1 |
| 1/4 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/2 |
| 1/8 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 3/8 |
| 1/4 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/2 |
| 1/8 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 3/8 |
| 1/4 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/2 |
| 1/8 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 3/8 |
| 1/4 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/2 |

Packing: 6-inch and 12-inch rules, six in a box; 24-inch rules, one in a package.

STEEL SHRINK RULES

Etched Graduations

Of spring tempered steel 1/16 x 3/64 inch. Sunken graduation. While accurate rules, the graduation of these is neither as fine nor close as on No. 83 Rules, page 106. Recommended only for use where a fine degree of accuracy is not essential.

All Graduated 8ths and 16ths, Both Sides.

All Made in 24 Inch Length Only.

No. 60

| Shrink per ft. . . . . . . . . . . . . . . . . . . . . . . . | 1/16 |
|-------------------------------------------------------|
| 1/16 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/8 |
| 1/8 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/4 |
| 3/16 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/8 |
| 1/4 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/4 |
| 1/2 in. . . . . . . . . . . . . . . . . . . . . . . . . . | 1/2 |
| Price, each . . . . . . . . . . . . . . . . . . . . . . . | $2.25 |

Packing: One in a package.

STRAIGHT STEEL RULES

These rules also have bright surface, distinct black sunken figures and lines. They have hole in one end.

No. 62 is well adapted to such general work as requires a long, one-piece steel rule of medium weight, with common markings somewhat heavier than on machine divided scales.

No. 60 is a narrower, lighter weight rule of somewhat similar type. It has become especially popular in manual training work.

No. 62

<table>
<thead>
<tr>
<th>1/4 x 3/32 inch. Marked both sides, upper edge 8ths, lower 16ths.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Weight, lbs. . . . . . . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Price, each . . . . . . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
</tbody>
</table>

No. 60

<table>
<thead>
<tr>
<th>3/4 x 1/32 inch. Marked lower edge only, one side 8ths, other side 16ths.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Weight, per doz. . . . . . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
<tr>
<td>Price, each . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .</td>
</tr>
</tbody>
</table>
**MECHANICS REFERENCE TABLES**

These tables are especially handy for machinists, tool makers, and die makers, as they carry valuable information required in daily work. They are convenient also for anyone having occasion to refer to wire gages, decimal equivalents of common fractions, or tap and drill sizes.

Made of flexible spring steel 11/32 inches wide and 61/2 inches long, and carrying a 6-inch graduated scale. Machine divided, with figures and graduations showing black and distinct. Hole at upper end.

- **No. 97 1/2** Marked both sides as Figures 1 and 2. Price, each $0.90
- **No. 98** Marked both sides as Figures 2 and 3. Price, each $0.90

**Figure 1** A table of U. S. S. Machine Screw Tap Sizes in fractional and numbered sizes, and S. A. E. and Briggs pipe standard in fractional sizes. Also a 6-inch scale graduated to 32nds.

**Figure 2** A table of decimal equivalents of fractions in 64ths from 1/64 to 63/64, and a 6-inch scale graduated to 64ths with Readable Graduations.

**Figure 3** A table of decimal equivalents of wire gages, and a 6-inch scale graduated to 32nds.

Weight per doz., 12 ozs. Packing: Six in a box.

NOTE.—Cases can be furnished for these tables at small extra charge.

---

**THE DECIMETRE RULE**

**A KEY TO THE METRIC SYSTEM**

As this rule gives a most comprehensive visual demonstration of metric sizes, it has been termed a key to the metric system. For educational purposes it has been widely distributed by the United States Bureau of Standards, The American Metric Association, and The Decimal Association of London, England.

It is of tempered steel, machine divided. The rule is 1 decimetre long. 1 centimetre wide and 1 millimetre thick. As shown by above illustrations it is marked one edge, one side, in centimetres and millimetres, and carries on both sides interesting facts regarding the metric system. Furnished with metal bound leather case.

**No. 99** Length 10 cm (1 dm). Price, each $0.50

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**ENGLISH PATTERN STEEL RULES**

**Flexible — Machine Divided**

Of spring tempered steel, very thin and flexible, 1/2 inch wide, 30 gage. One end rounded and with hole.

All Marked One Side Only.

- **No. 2110D** Marked upper edge 32nds, lower edge 64ths inch.
- **No. 2110DM** Marked upper edge metric to half-millimetres, lower edge 64ths inch.
- **No. 2111D** Marked lower edge 64ths, upper edge 100ths inch.

**Nos. 2110D, 2110DM, 2111D**

<table>
<thead>
<tr>
<th>Length</th>
<th>4 inch</th>
<th>6 inch</th>
<th>9 inch</th>
<th>12 inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per doz.</td>
<td>3 oz.</td>
<td>3 1/4 oz.</td>
<td>7 oz.</td>
<td>9 oz.</td>
</tr>
<tr>
<td>Price, per doz.</td>
<td>$3.60</td>
<td>$4.40</td>
<td>$9.60</td>
<td>$14.40</td>
</tr>
</tbody>
</table>

Packing: ¼ doz. in a box.

---

**ENGLISH PATTERN STEEL RULES**

**Machine Divided — Tempered**

**Tapping and Spanner**

The 4 and 6 inch rules are 3/4 inch wide, 21 gage; 12 inch rules, 1 1/4 inch wide, 19 gage. All have one end rounded and with hole.

- **No. 2721** Marked one side only. Lower edge 16ths, 32nds, 64ths inches; upper edge tapping and spanner sizes.
  - **Length** | 4 inch | 6 inch | 12 inch |
  - **Price, per doz.** | $3.60 | $4.60 | $6.00 |
  - **Weight per doz.** | 3 oz. | 3 1/4 oz. | 7 oz. |
  - **Packing:** ¼ doz. in a box.

- **No. 2722** Marked both sides. One side, lower edge 16ths, 32nds, 64ths inches, upper edge tapping and spanner sizes; other side, lower edge 16ths, upper edge 10ths, 20ths, 50ths, 100ths inches.
  - **Length** | 4 inch | 6 inch | 12 inch |
  - **Price, per doz.** | $4.20 | $5.40 | $13.20 |

- **No. 2723** Marked both sides. One side, lower edge 16ths, 32nds, 64ths inches, upper edge tapping and spanner sizes; other side, upper edge 9ths, lower edge 16ths inches.
  - **Length** | 4 inch | 6 inch | 12 inch |
  - **Price, per doz.** | $4.20 | $5.40 | $13.20 |

Weight per doz. 4 inch, 6 ozs.; 6 inch, 10 ozs.; 12 inch, 2 1/4 lbs.

Packing: ¼ doz. in a box.
ENGLISH PATTERN STEEL RULES
Machine Divided — Tempered
One End Rounded And With Hole

Numbers without the suffix "N" are 3/4 inch wide, 21 gage, in 4 and 6 inch lengths; 1/4 inch wide, 19 gage, in 12 and 24 inch lengths.
Numbers with the suffix "N" are 3/4 inch wide, 25 gage.

<table>
<thead>
<tr>
<th>CUT</th>
<th>MARKINGS</th>
<th>RULE NUMBER</th>
<th>4 in</th>
<th>6 in</th>
<th>12 in</th>
<th>24 in</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fig. 1. One edge of one side only 8ths, 16ths, 32nds and 64ths.</td>
<td>2700</td>
<td>$3.60</td>
<td>$4.80</td>
<td>$12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2700N</td>
<td>3.00</td>
<td>3.60</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>Fig. 2. One side only 8ths and 16ths.</td>
<td>2701</td>
<td>$3.60</td>
<td>$4.80</td>
<td>$12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2701N</td>
<td>3.00</td>
<td>3.60</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>Fig. 3. One side only 8ths, 16ths, 32nds and 64ths.</td>
<td>2702</td>
<td>$3.60</td>
<td>$4.80</td>
<td>$12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2702N</td>
<td>3.00</td>
<td>3.60</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>Fig. 4. One side only 8ths inches and millimetres.</td>
<td>2704</td>
<td>$3.60</td>
<td>$4.80</td>
<td>$12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2704N</td>
<td>3.00</td>
<td>3.60</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>Fig. 5. One side only 16ths, 32nds and 64ths inches.</td>
<td>2704 1/2N</td>
<td>$3.60</td>
<td>$4.80</td>
<td>$12.00</td>
<td>$25.20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.00</td>
<td>3.60</td>
<td>6.00</td>
<td></td>
</tr>
<tr>
<td>Fig. 6. One side only 10ths, 20ths, 50ths and 100ths inches.</td>
<td>2706</td>
<td>$4.20</td>
<td>$5.40</td>
<td>$13.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2706N</td>
<td>3.60</td>
<td>4.20</td>
<td>8.40</td>
<td></td>
</tr>
<tr>
<td>Fig. 7. Other side millimetres and 1/2 millimetres.</td>
<td>2708</td>
<td>$4.20</td>
<td>$5.40</td>
<td>$13.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2708N</td>
<td>3.60</td>
<td>4.20</td>
<td>8.40</td>
<td></td>
</tr>
<tr>
<td>Fig. 8. Other side, 12ths, 24ths, 48ths, 96ths inches and 16ths.</td>
<td>2707</td>
<td>$4.20</td>
<td>$5.40</td>
<td>$13.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2707N</td>
<td>3.60</td>
<td>4.20</td>
<td>8.40</td>
<td></td>
</tr>
</tbody>
</table>

Wt. per dozen rules without suffix "N": 4 in. 7 oz; 6 in. 9 oz; 12 in. 2 lb; 24 in. 4 1/2 lbs.
Wt. per dozen rules with suffix "N": 4 in. 7 oz; 6 in. 9 oz; 12 in. 2 lb; 24 in. 4 1/2 lbs.

Packing: Rules 12 in. and under, 3/4 doz. in a box; others one in a package.

Denmark or Swedish Measurements—Above rules will be supplied with Danish measurements or Swedish measurements, such as Nys and Gams, if so ordered.
CONTRACTION RULES

English Pattern — Machine Divided

Of tempered steel 1/16 inch wide, 19 gage. One end rounded and with hole.
All 24 Inches Long and Graduated to 16ths.

NUMBER | PER DOZ.
--------|--------
2710 | Marked one side only, upper edge 1/16 inch contraction, lower edge 1/16 inch contraction per foot. Weight per doz. 6 lbs. .......................... $25.00
2711 | Marked both sides. Lower edge 1/16 inch contraction, lower edge one side 1/16 inch contraction per foot. Upper edge both sides regular inches and 16ths. Weight per doz. 6 lbs. .......................... $30.00
2712 | Marked both sides. 1/16, 3/20, 1/5 inch contraction per foot, and one line regular inches and 16ths. Weight per doz. 6 lbs. .......................... $30.00

ROSE TOOLS, INC.

FOLDING STEEL RULES

12 Inch Sections

The sunken dark figures and lines are most legible. All except No. 80 are of 5/32 inch thick. The rules with ends braced with blacksmiths and others working on hot metals. Those with circumference measurement and a direct reading circumference up to 75 inches opposite the respective diameter.

NO. LENGTH | MARKING | PATTERN | PRICE.
-----------|---------|---------|--------
80 2 ft. | One side 8ths, other 16ths inches. Plain joint. Plain ends | $1.00
85 2 ft. | One side 8ths, other 16ths inches. Stop joint. Plain ends | 1.25
85T 2 ft. | One side 8ths, other 16ths inches. Stop joint. Brass tipped ends | 1.35
86 2 ft. | One side 16ths, other side, upper edge 8ths. lower edge circumference inches to 8ths. Stop joint. Plain ends | 1.45
86T 2 ft. | One side 16ths, other side, lower edge 8ths. lower edge circumference inches to 8ths. Stop joint. Brass tipped ends | 1.55

STEEL RULE AND SQUARE COMBINED

Machine Divided — With Stop Joint

Of tempered steel 1/8 inch wide, 19 gage. Square ends. Stop joint holds rule true and rigid when opened also stops the sections at 90 degrees, converting the rule into a square. A convenient, useful and durable tool.

No. 2781 | 2 feet, 2 fold (12 inch sections). Marked one side only: upper edge 8ths, lower edge 16ths inches. Weight per doz. 4 1/2 lbs. Price, per doz. $36.00
No. 2783 | 2 feet, 2 fold (12 inch sections). Marked both sides. One side, upper edge 8ths, lower edge 16ths; other side, upper edge 8ths, lower edge 8ths, 1/32nds, 1/64ths. Weight per doz. 4 1/2 lbs. Price, per doz. $37.20

NO. | LENGTH | JOINTS | WT. PER DOZ.
---|-------|-------|-------
1131 | 1 ft. | 3-inch joints | 5 ozs. | $0.55 | $0.65
1132 | 2 ft. | 3-inch joints | 7 ozs. | 1.10 | 1.20
1141 | 1 ft. | 4-inch joints | 6 ozs. | $0.55 | $0.65
1142 | 2 ft. | 4-inch joints | 7 ozs. | 1.10 | 1.20
1143 | 3 ft. | 4-inch joints | 1 lb. | $1.65 | 1.75
1162 | 2 ft. | 6-inch joints | 10 ozs. | 1.05 | 1.20
1163 | 3 ft. | 6-inch joints | 14 ozs. | 1.60 | 1.75
1164 | 4 ft. | 6-inch joints | 1 1/2 lbs. | 2.10 | 2.25

FOLDING FLEXIBLE STEEL POCKET RULES

With Stop Joints — "Nubian" Finish

COMPACT AND CONVENIENT TO CARRY EVERYWHERE

High grade popular rules, of flexible spring steel 3/4 inch wide. Stop joints hold the sections true when open. Over the "Nubian" (black) finish background, the raised figures and markings, which are in the natural steel color, show up clearly. Rules furnished with or without metal-bound leather cases.

NO. | LENGTH | JOINTS | WT. PER DOZ.
---|-------|-------|-------
Marked Inches And 16ths, Both Sides:
1141D | 1 ft. | 4-inch joints | 6 ozs. | $0.55 | $0.65
1142D | 2 ft. | 4-inch joints | 11 ozs. | 1.10 | 1.20
1162D | 2 ft. | 6-inch joints | 10 ozs. | 1.05 | 1.20
1163D | 3 ft. | 6-inch joints | 14 ozs. | 1.60 | 1.75

Marked Inches And 16ths One Side; Feet, 10ths and 100ths of feet, other side.
1141EM | 1 ft. | 4-inch joints | 6 ozs. | $0.55 | $0.65
1142EM | 2 ft. | 4-inch joints | 11 ozs. | 1.10 | 1.20
1163EM | 3 ft. | 4-inch joints | 1 lb. | 1.65 | 1.75
1164EM | 4 ft. | 6-inch joints | 1 1/2 lbs. | 2.10 | 2.25
1143ME | 1 metre | 10 cm joints | 1 1/4 lbs. | 1.70 | 1.80
1163ME | 1 metre | 20 cm joints | 1 1/4 lbs. | 1.65 | 1.80

PACKING: All twelve in a box, except 4 ft., which are six in a box.

NOTE—Unless cases are specified, we ship rules without cases.
FOLDING STEEL RULES

¾ Inch Wide — With Stop Joints

HEAVIEST AND WIDEST OF OUR LONG FOLDING STEEL RULES.

These rules withstand hard use such as in steel mills, machine shops and other places where steel rules of lighter weight and wood rules are often broken. They are of tempered steel, ¾ inch wide, 1/32 inch thick. All have patent stop joints which hold rule true and rigid when open. The sunken black figures and lines give good contrast and legibility. These rules may be depended upon for a very fair degree of accuracy, though on the most precise work a piece-one piece steel scale should be used.

All Marked One Edge Of Both Sides.

<table>
<thead>
<tr>
<th>NO.</th>
<th>LENGTH</th>
<th>MARKINGS</th>
<th>JOINTS</th>
<th>WEIGHT PER DOZ.</th>
<th>PRICE EACH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1172</td>
<td>2 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>1 1/4 lbs.</td>
<td>$1.30</td>
</tr>
<tr>
<td>1173</td>
<td>3 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>1 3/4 lbs.</td>
<td>$1.95</td>
</tr>
<tr>
<td>1174</td>
<td>4 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>2 1/4 lbs.</td>
<td>$2.60</td>
</tr>
<tr>
<td>1175</td>
<td>5 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>2 3/4 lbs.</td>
<td>$3.25</td>
</tr>
<tr>
<td>1176</td>
<td>6 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>3 1/4 lbs.</td>
<td>$3.90</td>
</tr>
<tr>
<td>1177</td>
<td>7 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>3 3/4 lbs.</td>
<td>$4.55</td>
</tr>
<tr>
<td>1178</td>
<td>8 ft.</td>
<td>Inches to 16th.</td>
<td>6-inch</td>
<td>4 lbs.</td>
<td>$5.40</td>
</tr>
<tr>
<td>1174EM</td>
<td>4 ft.</td>
<td>16ths inches and millimetres</td>
<td>6-inch</td>
<td>3 3/4 lbs.</td>
<td>$2.65</td>
</tr>
<tr>
<td>1173EM</td>
<td>1 metre</td>
<td>10ths inches and millimetres</td>
<td>6-fold</td>
<td>2.25</td>
<td></td>
</tr>
<tr>
<td>1273M</td>
<td>1 metre</td>
<td>Millimetres both sides</td>
<td>6-fold</td>
<td>3 lbs.</td>
<td>$2.35</td>
</tr>
</tbody>
</table>

Packing: 2 ft., 3 ft. and 1 metre rules, twelve in a box; all others six in a box.

NOTE—For Aluminum Folding Rules, see Section Five of this Catalog.

FOLDING STEEL POCKET RULES

Machine Divided — With Plain Joints

MEDIUM WEIGHT — HIGHEST GRADE

Of tempered steel, width ½ inch, semi-flexible. With sunken figures and lines clear cut and showing up in good contrast. Stop joints hold the rules true and rigid when open. Furnished with or without metal-bound leather cases. These rules may be depended upon for a very fair degree of accuracy, though on the most precise work a piece-one piece steel scale should be used.

All marked one edge of both sides, one side 8ths, other side 16ths of inches.

<table>
<thead>
<tr>
<th>NO.</th>
<th>LENGTH</th>
<th>JOINTS</th>
<th>WT. PER DOZ.</th>
<th>PRICE WITHOUT CASES</th>
<th>PRICE WITH CASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>4141</td>
<td>1 ft.</td>
<td>4-inch joints</td>
<td>1/2 lb.</td>
<td>$0.95</td>
<td>$0.95</td>
</tr>
<tr>
<td>4142</td>
<td>2 ft.</td>
<td>4-inch joints</td>
<td>1 lb.</td>
<td>$1.45</td>
<td>$1.35</td>
</tr>
<tr>
<td>4143</td>
<td>3 ft.</td>
<td>4-inch joints</td>
<td>1 1/2 lbs.</td>
<td>$2.25</td>
<td>$2.35</td>
</tr>
<tr>
<td>4144</td>
<td>4 ft.</td>
<td>4-inch joints</td>
<td>2 lbs.</td>
<td>$3.00</td>
<td>$3.10</td>
</tr>
<tr>
<td>4641</td>
<td>2 ft.</td>
<td>6-inch joints</td>
<td>1 lb.</td>
<td>$1.40</td>
<td>$1.35</td>
</tr>
<tr>
<td>4643</td>
<td>3 ft.</td>
<td>6-inch joints</td>
<td>1 1/2 lbs.</td>
<td>$2.20</td>
<td>$2.35</td>
</tr>
<tr>
<td>4644</td>
<td>4 ft.</td>
<td>6-inch joints</td>
<td>2 lbs.</td>
<td>$2.95</td>
<td>$3.10</td>
</tr>
</tbody>
</table>

Packing: Nos. 4141 and 4642—twelve in a box; all others six in a box.

NOTE—Unless cases are specified, we ship rules without cases.

FOLDING STEEL POCKET RULES

Machine Divided — With Plain Joints

High grade rules of tempered steel, ½ inch wide and semi-flexible. With sunken figures and lines clear cut and showing up in good contrast. Furnished with or without metal-bound leather cases.

<table>
<thead>
<tr>
<th>Number</th>
<th>1 ft. 4-inch joints, marked both sides, upper edge 8ths, lower edge 16ths inches</th>
<th>Without Cases, Price, Ea.</th>
<th>With Cases, Price, Ea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2041</td>
<td>1 ft.</td>
<td>$0.75</td>
<td>$0.85</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>1 ft. 4-inch joints, marked both sides, one side upper edge 8ths, lower edge 16ths; other side upper edge 8ths, lower edge first 2 inches in 32nds, third inch 64ths, balance 16ths inches</th>
<th>Without Cases, Price, Ea.</th>
<th>With Cases, Price, Ea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2042</td>
<td>1 ft.</td>
<td>$0.85</td>
<td>$0.95</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>1 ft. 4-inch joints, marked both sides, one side upper edge 8ths, lower edge 16ths inches; other side upper edge first 3 centimetres in half-millimetres, balance millimetres, lower edge first 2 inches in 32nds, next ½ inch 64ths, balance 16ths inches</th>
<th>Without Cases, Price, Ea.</th>
<th>With Cases, Price, Ea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2043</td>
<td>1 ft.</td>
<td>$0.85</td>
<td>$0.95</td>
</tr>
</tbody>
</table>

Weight per doz., ½ lb. Packing: Twelve in a box.

NOTE—Unless cases are specified, we ship rules without cases.

ONE-FOOT FOLDING STEEL RULES WITH CASES IN UNIQUE DISPLAY

This is our lowest priced, yet a good pocket rule. Of flexible spring steel, folds to 4 inches and is ¾ inch wide. Light and convenient to carry in the pocket anywhere. Marked one side only inches to 16ths. It has “Nubian” (black) Finish background, making the raised bright figures and lines most easily read. Cases are metal-bound.

The display device is in colors, has easel back, and will stand securely and attract attention anywhere.

This rule and display are popular with hardware, department and general stores, shops, bazaars, and others. This is the most effective method of selling rules of this class, which appeal to the general public.

No. 041 1 Foot Steel Rule With Case

Weight per gross, 6 1/4 lbs. Price, per gross: $28.80

Packing: One doz. in display, 12 displays (1 gross rules) per carton.
FOLDING BRASS RULE

Popular with blacksmiths and other metal workers. Of hard brass, 9/16 inch wide, 15 gage (approximately 1/16 inch). Marked both sides on one edge, one side inches to 8ths, other side to 16ths.

No. 1085 2 ft. 12-inch sections. With spring joint.
Weight per doz., 3 1/4 lbs. Price, each...........................................$1.00
Packing: Twelve in a box.
NOTE—For 2 foot, 2 fold Aluminum Rule, see Section Five of this Catalog.

BLACKSMITHS BRASS HOOK AND HANDLE RULE

For blacksmiths and others working on hot metals, and also for measuring through holes, as hubs, etc. A one-piece rule and hook of hard brass 1 1/16 x 1/10 inch. Sunken and distinct lines and figures. Marked both sides 12 inches to 16ths; one side measures from inside of hook, other side from end of rule. Flat handle. Overall length 15 1/2 inches.

No. 1063 12 inch. Weight each, 1/2 lb. Price, each.............................$2.70

BRASS COUNTER RULES

Convenient whenever goods are sold by the yard. Extensively used in dry goods and department stores. Accurate and most satisfactory to the dealer and the public. All marked one side only, and drilled and countersunk for attaching to counter.

No. 1068 3 ft. 3/4 x 19 gage (1 1/25 inch), hard brass.
Marked in fractions of yards only as follows: 1/16, 1/8, 1/4, 1/3, 3/8, 1/2, 5/8, 2/3, 3/4 and 7/8.
Weight each, 5 ozs. Price, each.............................................$1.50

No. 1069 3 ft. 3/4 in. x 19 gage (1 1/25 inch), hard brass.
Marked upper edge inches and 8ths, lower edge fractions of yards as follows: 1/16, 1/8, 1/4, 1/3, 3/8, 1/2, 5/8, 2/3, 3/4 and 7/8.
Weight each, 14 ozs. Price, each.............................................$2.00

TINNERS STEEL CIRCUMFERENCE RULES

A STANDARD TOOL WITH TINNERS AND OTHER SHEET METAL WORKERS.

Of tempered steel, 1 1/4 x 1/16 inch (10 gage). Furnished in both plain and nickel plated finish.

On one side this rule is marked on upper edge in standard measurement inches to 16ths, lower edge circumference inches to 8ths. With it the circumference of any circle is arrived at by simply measuring the diameter. This circumference is obtained at a direct reading, for the circumference markings bear the relation of 3.1416 to standard inches.

Other side of this rule carries a number of the most commonly used mathematical formulas, and size tables for laying out cans and measures as follows:

- Liquid Measure, flaring, 1 quart to 5 gallons.
- Dry Measure, flaring, 1 bushel to 2 bushels.
- Dry Measure, straight, 1 quart to 3 bushels.
- Cans, pitched top, 1 to 10 gallons.
- Cans, flat top, 1 to 100 gallons.

No. 96 PLAIN.
Length ........................................ 3 ft
Price, each ...................................... $4.50
Weights, each ..................................... 1/4 lb

No. 96 NICKEL PLATED.
Price, each ...................................... $4.50
Weights, each ..................................... 1/4 lb

NOTE—These rules can be supplied with the tables on the basis of Imperial, rather than United States wine gallons. They are regularly so furnished to the Canadian trade.

STEEL CIRCUMFERENCE RULES

Of tempered steel, 1 1/4 x 1/16 inch. Furnished in both plain and nickel plated finish.

On one side this rule is marked standard measurement only, upper edge 8ths, lower edge 16ths of inches.

No. 96 PLAIN.
Length ........................................ 3 ft
Price, each ...................................... $4.50
Weights, each ..................................... 1/4 lb

No. 96 NICKEL PLATED.
Price, each ...................................... $4.50
Weights, each ..................................... 1/4 lb
THE "MAGIC" PATTERN RULE

With Chart

A great labor saving tool for every tin shop.

A most popular device for quickly and accurately laying out sheet metal elbow patterns up to 14 inches in diameter and of any angle. The "Magic" Rule can be used also as a common rule, a circumference rule, a trammel, and a straight edge for ordinary work.

Consists of a graduated 48-inch steel bar 7/16 inch square, fitted with two brass sliding trammel heads with set screws, gibs and steel points. There is also a set of three flexible steel ribbons of different lengths and gages. The bar and all its parts are nicely nickel plated. The set also includes an instruction chart. The whole outfit is put up in a good hinged wooden box.

The bar is marked diameter inches to 8ths one side, standard inches to 8ths other side. When laying out an elbow pattern, first select the proper one of the three ribbons to be used with the bar. Fasten the left-hand trammel point to the end of the bar, and set the right-hand trammel point according to the diameter elbow wanted. Then raise the steel ribbon to the height required according to the angle elbow wanted. One glance at the chart gives this height.

For example, should an elbow be wanted 6 inches in diameter and of an angle corresponding with the long line "C" on the chart:

Set right-hand trammel point at figure 6 on front of rule. Measure with an ordinary rule the length of the perpendicular line 6 from bottom of diagram to where it meets angle line "C". Raise steel ribbon to this height, fasten it with set screw, and it is set ready for a pattern.

The chart is 18x22 inches in size, mounted on linen and very durable. It carries in addition to the elbow diagram, rules for cutting all kinds of flaring, oval, cylindrical and cone shaped vessels with the aid of the "Magic" rule.

"Magic" Pattern Rule Complete With Chart And Box.
Weight each, 6 lbs. Price, each ........................................... $12.00
Chart only for "Magic" Rule. Price, each ................................. $1.00

Section Four
BOXWOOD RULES

BOXWOOD Rules are the oldest type of folding wood rule now in common use. Ours are of genuine boxwood, thoroughly seasoned. The metal parts are of brass. Our rules are marked by improved methods, are well finished and carefully inspected.

There are three types of main joints: the round, as on popular priced rule No. 651; the sturdy square joint, also widely used; and the arch joint, a favorite with some mechanics. Boxwood Rules are made with edges plain, known as unbound; with outer edge only brass bound full length, known as half-bound; and with both edges brass bound, known as full-bound. Rules with middle plates have legs of hinge inserted in the wood; those with edge plates have legs of hinge flush with edge of the wood.

All of our Boxwood Rules have ends brass capped. All have closing pins, which hold the sections in alignment when closed. Widths specified are widths of the rules closed.

We stock and supply without extra charge Boxwood Rules in English pattern, that is, with figures running from left to right. Specify by prefixing "E" to stock number, as "E-651". The demand for such rules is practically limited to Great Britain and her possessions.

The following Boxwood Rules in English lengths, marked English and metric, are regular stock and take regular price:

We make the following rules in the 1 metre length, 4 fold, marked metric and English:
3851ME, 3852ME.

NOTE—Various miscellaneous rules made of boxwood are listed in Section Six of this Catalog.
### Rose Tools, Inc.

**Two Foot Boxwood Rules**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Per Doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>651 (68)</td>
<td>Two Foot, 1 inch wide. Round Joint. Middle Plates. Marked: 8ths and 16ths inch. The Markings And Figures, Being Especially Distinct. Are Most Easily Read. This Is The Popular Priced And Most Widely Used Boxwood Rule. Packing: 1 doz. in a box. Weight per doz., 1 1/4 lbs.</td>
<td>$3.00</td>
</tr>
<tr>
<td>751 (61)</td>
<td>Two Foot, 1 inch wide. Square Joint. Middle Plates. Marked: 8ths and 16ths inch. This Rule Also Has The Extra Prominent Markings And Figures, Most Legible. It Is The Largest Seller Among Medium Priced Rules.</td>
<td>$4.20</td>
</tr>
<tr>
<td>752 (70)</td>
<td>Two Foot, 1 1/2 inch wide. Square Joint. Middle Plates. Marked: Drafting scales and 8ths and 16ths inch. The Extra Width Gives This Rule Greater Strength. Packing: 1/2 doz. in a box. Weight per doz., 1 1/2 and 2 lbs.</td>
<td>$6.00</td>
</tr>
<tr>
<td>760 (63 1/2)</td>
<td>Two Foot, 8 1/2 inch wide. Square Joint. Edge Plates. Marked: 8ths, 10ths and 16ths inch. A Well Designed Narrow Rule.</td>
<td>$6.00</td>
</tr>
<tr>
<td>761 (63)</td>
<td>Two Foot, 1 inch wide. Square Joint. Edge Plates. Marked: Drafting scales and 8ths, 10ths, 12ths and 16ths inch. Affords A Wide Range Of Markings And The Edge Plates Make This A Superior Rule.</td>
<td>$6.00</td>
</tr>
<tr>
<td>762 (72)</td>
<td>Two Foot, 1 1/2 inch wide. Square Joint. Edge Plates. Marked: Drafting scales and 8ths, 10ths, 16ths inch. Most Durable Of Our Unbound Two Foot Rules. Being Extra Width And Having Edge Plates. Packing: 1/2 doz. in a box. Weight per doz., 1 1/2 and 2 lbs.</td>
<td>$7.80</td>
</tr>
<tr>
<td>851 (51)</td>
<td>Two Foot, 1 inch wide. Arch Joint. Middle Plate. Marked: Drafting scales and 8ths, 10ths, 12ths and 16ths inch. A Wide Range Of Markings. The Strong Arch Joint Also Adds To The Appearance.</td>
<td>$5.40</td>
</tr>
<tr>
<td>852 (73)</td>
<td>Two Foot, 1 1/2 inch wide. Arch Joint. Middle Plate. The Neat Appearing Arch Joint In A Rule Of Extra Width.</td>
<td>$7.80</td>
</tr>
</tbody>
</table>

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**Architects Boxwood Rule**

**With Inside Edges Beveled, Two Foot. Four Fold.**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Per Doz.</th>
</tr>
</thead>
</table>

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**Blindman's Rules**

These Boxwood Rules have especially large and heavy face figures, and are therefore very easily read. They are well adapted to use in poorly lighted places, or by persons with poor eyesight. They are also sturdy, being 1 3/4 inch wide and having square joint.

**Two Foot, Four Fold.**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Per Doz.</th>
</tr>
</thead>
</table>

---

**Three Foot, Four Fold.**

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Per Doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3752B</td>
<td>One Inch Wide. Square Joint. Middle Plate. Marked: 6ths and 16ths inch. Combining Extra Length (3 ft.) And The Blindman's, Easy Reading Feature, This Rule Is Popular. Packing: 1/2 doz. in a box. Weight per doz., 3 lbs.</td>
<td>$13.80</td>
</tr>
</tbody>
</table>
ROSE TOOLS, INC.

TWO FOOT BOXWOOD RULES
FOUR FOLD. BRASS BOUND.

HALF BOUND. SQUARE JOINT. Per Doz.
771 (84) Two Foot. 1 inch wide. Square Joint. Outer Edge Brass Bound. Marked: Drafting scales and 8ths. 10ths. 12ths and 16ths inch.
Our Only Standard Pattern Half Bound Rule.
Packing: ½ doz. in a box. Weight per doz., 2 lbs.
$9.00

FULL BOUND. SQUARE JOINT.
780 (62½) Two Foot. ½ inch wide. Square Joint. Both Edges Brass Bound. Marked: 8ths. 10ths. 12ths and 16ths inch. Among Extra Narrow 2 Foot Rules, This Is The Most Durable.
$11.40
$11.40
782 (72½) Two Foot. 1½ inch wide. Square Joint. Both Edges Brass Bound. Marked: Drafting scales and 8ths. 10ths and 16ths inch. Being Wide Pattern And Full Brass Bound, This Rule Is Extra Durable.
Packing: ½ doz. in a box. Weights per doz., 2 ½ and 3 lbs.
$13.80

FULL BOUND. ARCH JOINT.
$12.60
882 (76) Two Foot. 1½ inch wide. Arch Joint. Both Edges Brass Bound. Marked: Drafting scales and 8ths. 10ths and 16ths inch. A Rule Of The Most Durable Type And With The Attractive Arch Joint.
Packing: ½ doz. in a box. Weights per doz., 2 ½ and 3 lbs.
$15.00

COMBINATION RULE, LEVEL AND PROTRACTOR

TWO FOOT. FOUR FOLD.
Sturdy Boxwood Rules with Spirit Level and Protractor. Very handy for carpenters and other mechanics, and for general use. Not only practical rules, but with them angles of any degree are readily measured or laid out, by the aid of the protractor plate. They also carry a convenient level, which, when rule is closed, is well protected.

Number
Marked: Drafting scales and 8ths and 16ths inch.
$24.00
873L Two Foot. 1½ inch wide. Arch Joint. Outer Edge Brass Bound.
Marked: Drafting scales and 8ths and 16ths inch.
Packing: 1 rule in a box. Weights each, 4 and 5 oz.
$30.00

THREE FOOT BOXWOOD RULES
FOUR FOLD. UNBOUND.

3851 (66½) Three Foot. 1 inch wide. Arch Joint. Middle Plates.
Marked: 8ths and 16ths inch. Rules Of This Length Are Steadily Becoming More Popular.
Packing: ½ doz. in a box. Weight per doz., 2 lbs.
$9.00

FOUR FOLD. UNBOUND.
3861 (66¾) Three Foot. 1 inch wide. Arch Joint. Edge Plates.
Marked: 8ths and 16ths inch. A Good Rule, Having Edge Plates And Arch Joint.
Packing: ½ doz. in a box. Weight per doz., 2 lbs.
$10.80

FOUR FOLD. FULL BOUND.
Packing: ½ doz. in a box. Weight per doz., 3½ lbs.
$22.20

FOUR FOOT BOXWOOD RULE
FOUR FOLD. FULL BOUND.
Packing: ½ doz. in a box. Weight per doz., 5½ lbs.
$40.20
BOXWOOD CALIPER RULES

Universally used in measuring pipe and fittings, rods and bars, bolts, nuts, and in other rough caliper work. Suitable as well for all measuring, the rule itself also being graduated. One leg of these rules carries a brass caliper slide, which is marked on outside face to 32nds, inside face to 16ths inch.

SIX INCH. TWO FOLD.

ONE FOOT. FOUR FOLD.

Number Per Doz.
171 (36) Six Inch. Two Fold. 1 inch wide. Square Joint. Unbound. $7.20
Marked: Rule . . . . 8ths, 10ths, 12ths and 16ths inch; Caliper . . . 16ths and 32nds inch.
A Compact, Light Weight Pocket Rule and Caliper.
172 (33½) Six Inch. Two Fold. 1½ inch wide. Square Joint. With brass bit plate, protecting wood from chiseling pin. $10.20
Marked: Rule . . . . 8ths and 16ths inch; Caliper . . . 16ths and 32nds inch.
A Short, Sturdy Rule and Caliper.
Packaging: ½ doz. in a box. Weight per doz., 1 lb.

386 (32) One Foot. Four Fold. 1 inch wide. Arch Joint. Edge Plates. $10.80
Marked: Rule . . . . 8ths, 10ths, 12ths and 16ths inch; Caliper . . . 16ths and 32nds inch.
A Convenient Small Pocket Size, Yet Opeos To One Foot.

388 (32½) One Foot. Four Fold. 1 inch wide. Arch Joint. Full Bound. $16.20
Marked: Rule . . . . 8ths, 10ths, 12ths and 16ths inch; Caliper . . . 16ths and 32nds inch.
A Durable Rule. One Foot Long. Yet Folds to 3 Inches.
Packaging: ½ doz. in a box. Weights per doz., ½ and ¾ lbs.

ONE FOOT. TWO FOLD.

Number Per Doz.
372 (30½) 1¼ inch wide. Square Joint. $10.20
With brass bit plate, protecting wood from chiseling pin.
Marked: Rule . . . . 8ths, 10ths, 12ths and 16ths inch;
Caliper . . . 16ths and 32nds inch.
Popular Because Of Length of Caliper, And Being a Sturdy Rule.
Packaging: ½ doz. in a box. Weight per doz., 1¾ lbs.

781C (62C) 1 inch wide. Square Joint. Both Edges Brass Bound. $21.00
Marked: Rule . . . . 8ths, 10ths, 12ths and 16ths inch;
Caliper . . . 16ths and 32nds inch.
A 6 Inch Caliper In Very Practical, Standard Size. 2 Foot Rule.
Packaging: ½ doz. in a box. Weight per doz., 2¾ lbs.

TWO FOOT. FOUR FOLD. FULL BOUND.

862C (81C) 1½ inch wide. Arch Joint. Edge Plates. $19.20
Marked: Rule . . . . 8ths, 10ths and 16ths inch;
Combines The 6 Inch Caliper Slide And A Substantial Rule, Having Edge Plates And Arch Joint.
Packaging: ½ doz. in a box. Weight per doz., 25 lbs.

BOXWOOD CALIPER GAGES

FOUR INCH. SIX INCH.

This line of one-piece (not folding) Caliper Gages was developed by The Lufkin Rule Co. and is proving very popular. While the wood part, as well as the caliper slide, is graduated, these are primarily for ordinary caliper work, about nills, shops, stores, etc. They will quickly measure diameter of pipe and fittings, bolts and nuts, bars, rods, etc., and, being compact, are conveniently carried in the pocket everywhere.

Markings: On all these gages the caliper slide is marked 32nds on outside, 16ths inch on inside face; the rule, or wood part, is in 8ths and 16ths.

Number Per Doz.
014 Four Inch. 1 inch wide. Unbound. Weight per doz., ¾ lb. $6.00
016 Six Inch. 1 inch wide. Unbound. Weight per doz., 1 lb. 7.20
024 Four Inch. 1½ inch wide. Unbound. Weight per doz., 1 lb. 6.60
026 Six Inch. 1½ inch wide. Unbound. Weight per doz., 1¼ lb. 7.80
Packaging: ½ doz. in a box.

NOTE—Button Gages ... .024 cm, at small extra charge, be supplied with caliper marked 40ths of an inch, as used in measuring buttons. Known as rule No. 024B.

ONE FOOT BOXWOOD RULES

FOUR FOLD. UNBOUND.

465 (69) One Foot. ¾ inch wide. Round Joint. Middle Plates. Discontinued
Marked: 8ths and 16ths inch.
A Very Small, Low Priced Rule, Designed For Light Work.
Packing: 1 doz. in a box. Weight per doz., ½ lb.

475 (65) One Foot. ¾ inch wide. Square Joint. Middle Plates. Discontinued
Marked: 8ths and 16ths inch.
Our Very Small Pocket Rule With Square Joint.
Packing: 1 doz. in a box. Weight per doz., ½ lb.

FOUR FOLD. FULL BOUND.

478 (65½) One Foot. ¾ inch wide. Square Joint. Both Edges Brass Bound. Discontinued
Marked: 8ths and 16ths inch.
Most Substantial Of Our Very Small One Foot Rules.
A Convenient Vest Pocket Size.
Packing: ½ doz. in a box. Weight per doz., 1 lb.
Section Five

SPRING JOINT RULES

SPRING Joint Wood Rules are the type of rule most widely used in common measuring. Ours are made of flexible, tough hardwood sections, nicely engraved and securely assembled, with firm, yet smooth-working spring joints.

We offer not only a complete line, but also exclusive features and items. Among these are the following:

The Folding End Hook Attachment, just the thing for taking measurements out of arm's reach, and handy in all places.

Boxwood Extension Rules, ideal for taking inside as well as outside measurements. The sections are somewhat heavier than those of common folding rules and are of genuine boxwood, making an article of the highest grade.

In Concealed Joint Rules the rivet is not visible: in the Rivet Joint Rules it passes entirely through the wood. The price of both is the same, and they sell in about equal quantities. All our Spring Joint Wood Rules have end metal capped.

ALUMINUM Folding Rules are also listed in this section of catalog. For these rust-proof metal rules there is large demand. Like all aluminum rules, ours are light weight, but the material we use is a composition made especially for our purpose, producing a durable rule that holds its shape well.

Aluminum Rules With Folding Hook. This is an entirely new thing in rules of this kind. It is the feature that has proven so popular in connection with our Spring Joint Wood Rules. It is an exclusive Luken improvement and will stimulate the sale of Aluminum Rules as it has that of the others.

NOTE—Spring Joint Board and Log Rules, No. 523 and No. 524, are listed in Section Seven of this Catalog.
SPRING JOINT RULES
Flexible. Six-Inch Folds. 5/8 Inch Wide.
Brass Plated Trimnings.

CONCEALED JOINTS

Marked Consecutive Inches to 16ths, Both Sides.

Yellow Enamel

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. Doz.</th>
<th>Per Dz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8512</td>
<td>2 ft.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>8513</td>
<td>3 ft.</td>
<td>1 1/2 lbs.</td>
</tr>
<tr>
<td>8514</td>
<td>4 ft.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>8515</td>
<td>5 ft.</td>
<td>2 1/2 lbs.</td>
</tr>
<tr>
<td>8516</td>
<td>6 ft.</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>8518</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

White Enamel

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<td>3 lbs.</td>
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<td>8618</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

NOTE—For Above Rules With Folding End Hook, See Page 131.

With Inside Marking (numbering comences on inside face of rule)
Marked Consecutive Inches to 16ths, Both Sides.

Yellow Enamel

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. Doz.</th>
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<td>8515F</td>
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<td>8615F</td>
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<td>3 lbs.</td>
</tr>
<tr>
<td>8618F</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

Marked Feet, Inches and 16ths, Both Sides.

With Instantaneous Readings (foot numbers in red and repeated at each inch).

Yellow Enamel

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. Doz.</th>
<th>Per Dz.</th>
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<td>8 ft.</td>
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<td>3 lbs.</td>
</tr>
<tr>
<td>9618</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

Packing: 2 and 3 ft. rules . . . 1 doz. in a box;
all other lengths . . . 1/2 doz. in a box.

SPRING JOINT RULES
Flexible. Six-Inch Folds. 5/8 Inch Wide.
Brass Plated Trimnings.

RIVET JOINTS

Marked Consecutive Inches to 16ths, Both Sides

Yellow Enamel

<table>
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<tr>
<th>No.</th>
<th>Wt. Doz.</th>
<th>Per Dz.</th>
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</thead>
<tbody>
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<td>2 ft.</td>
<td>1 lb.</td>
</tr>
<tr>
<td>8523</td>
<td>3 ft.</td>
<td>1 1/2 lbs.</td>
</tr>
<tr>
<td>8524</td>
<td>4 ft.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>8525</td>
<td>5 ft.</td>
<td>2 1/2 lbs.</td>
</tr>
<tr>
<td>8526</td>
<td>6 ft.</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>8528</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
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White Enamel

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<td>8628</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

NOTE—For Above Rules With Folding End Hook, See Page 131.

With Inside Marking (numbering comences on inside face of rule)
Marked Consecutive Inches to 16ths, Both Sides

Yellow Enamel

<table>
<thead>
<tr>
<th>No.</th>
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<tr>
<td>8523F</td>
<td>3 ft.</td>
<td>1 1/2 lbs.</td>
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<tr>
<td>8524F</td>
<td>4 ft.</td>
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</tr>
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<td>3 lbs.</td>
</tr>
<tr>
<td>8628F</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

Marked Feet, Inches and 16ths, Both Sides.

With Instantaneous Readings (foot numbers in red and repeated at each inch).

Yellow Enamel

<table>
<thead>
<tr>
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<tr>
<td>9523</td>
<td>3 ft.</td>
<td>1 1/2 lbs.</td>
</tr>
<tr>
<td>9524</td>
<td>4 ft.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>9525</td>
<td>5 ft.</td>
<td>2 1/2 lbs.</td>
</tr>
<tr>
<td>9526</td>
<td>6 ft.</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>9528</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

White Enamel

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. Doz.</th>
<th>Per Dz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9623</td>
<td>3 ft.</td>
<td>1 1/2 lbs.</td>
</tr>
<tr>
<td>9624</td>
<td>4 ft.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>9625</td>
<td>5 ft.</td>
<td>2 1/2 lbs.</td>
</tr>
<tr>
<td>9626</td>
<td>6 ft.</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>9628</td>
<td>8 ft.</td>
<td>4 lbs.</td>
</tr>
</tbody>
</table>

Packing: 2 and 3 ft. rules . . . 1 doz. in a box;
all other lengths . . . 1/2 doz. in a box.
"RED END" SPRING JOINT RULES
With Strike Plates
Flexible Six-inch Folds 5/8 inch wide
Trimmings of Solid Brass
Concealed Joints

"RED END" Spring Joint Rules are the finest wood rules on the market. Joints and Strike Plates are of solid brass. Strike Plates are small brass plates fastened to the flat surfaces of each rule section which prevent the wearing away of the lines and figures when opening and closing the rule.

The Cream Enamel is a finish found on no other rule and is a marked improvement over the common yellow finish. The White Enamel has a beautiful gloss finish which will not crack, chip or blister. All ends are gloss red which give the rules a "dressed up" appearance and quickly distinguish them from the common grades of folding wood rules.

Marked Consecutive Inches to 16ths, Both Sides
Cream Enamelled

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>053</td>
<td>3 ft. 3/8 lbs. 4.80</td>
<td>063</td>
<td>3 ft. 1/2 lbs. 5.40</td>
</tr>
<tr>
<td>054</td>
<td>4 ft. 2 lbs. 6.00</td>
<td>064</td>
<td>4 ft. 2 lbs. 6.00</td>
</tr>
<tr>
<td>055</td>
<td>5 ft. 2 1/2 lbs. 7.20</td>
<td>065</td>
<td>5 ft. 2 1/2 lbs. 7.80</td>
</tr>
<tr>
<td>056</td>
<td>6 ft. 3 lbs. 8.40</td>
<td>066</td>
<td>6 ft. 3 lbs. 9.00</td>
</tr>
<tr>
<td>058</td>
<td>8 ft. 4 lbs. 10.80</td>
<td>068</td>
<td>8 ft. 4 lbs. 11.40</td>
</tr>
</tbody>
</table>

NOTE:—For Above Rules With Folding End Hook. See Page 131.

WITH INSIDE MARKING
(Numbering commences on inside face of rule)
Marked Consecutive Inches to 16ths, Both Sides
White Enamelled Only

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>064F</td>
<td>4 ft. 2 lbs. 6.60</td>
</tr>
<tr>
<td>065F</td>
<td>5 ft. 2 1/2 lbs. 7.80</td>
</tr>
<tr>
<td>066F</td>
<td>6 ft. 3 lbs. 9.00</td>
</tr>
<tr>
<td>068F</td>
<td>8 ft. 4 lbs. 11.40</td>
</tr>
</tbody>
</table>

Packing:—3 ft. rules, 1 doz. in box; All other lengths 1/2 doz. in box.


AN EXCLUSIVE LUFKIN FEATURE MEETING AN EVERYDAY NEED.

Just the thing for taking measurements out of arm's reach, and handy in all measuring. A small, substantial steel hook fitted to one end of Spring Joint Rules, so attached that with a twist of the finger it will fold up and remain flush with the edge of the rule, making it for use same as ordinary rules without hook. Zero point falls at inside of hook when open, at extreme end of rule, same as regular rules, when hook is closed.

Concealed Joints. Solid Brass Trimings.

Marked Consecutive Inches to 16ths, Both Sides.

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H6514</td>
<td>4 ft. 2 lbs. 5.40</td>
</tr>
<tr>
<td>H6515</td>
<td>5 ft. 2 1/2 lbs. 7.20</td>
</tr>
<tr>
<td>H6516</td>
<td>6 ft. 3 lbs. 9.00</td>
</tr>
<tr>
<td>H6518</td>
<td>8 ft. 4 lbs. 10.80</td>
</tr>
</tbody>
</table>


Marked Consecutive Inches to 16ths, Both Sides.

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H5524</td>
<td>4 ft. 2 lbs. 5.40</td>
</tr>
<tr>
<td>H5525</td>
<td>5 ft. 2 1/2 lbs. 7.20</td>
</tr>
<tr>
<td>H5526</td>
<td>6 ft. 3 lbs. 9.00</td>
</tr>
<tr>
<td>H5528</td>
<td>8 ft. 4 lbs. 10.80</td>
</tr>
</tbody>
</table>

"RED END" RULES
With Strike Plates Solid Brass Trimings Concealed Joints

Marked Consecutive Inches to 16ths, Both Sides

<table>
<thead>
<tr>
<th>Cream Enamelled</th>
<th>White Enamelled</th>
</tr>
</thead>
<tbody>
<tr>
<td>H654</td>
<td>4 ft. 2 lbs. 6.60</td>
</tr>
<tr>
<td>H655</td>
<td>5 ft. 2 1/2 lbs. 7.80</td>
</tr>
<tr>
<td>H656</td>
<td>6 ft. 3 lbs. 9.00</td>
</tr>
<tr>
<td>H658</td>
<td>8 ft. 4 lbs. 11.40</td>
</tr>
</tbody>
</table>

130
SPRING JOINT RULES
Flexible.
Six-Inch Folds.  5/8 inch Wide.
Brass Plated Trimmings.

Marked Feet, 10ths and 100ths of feet, one side;
Feet, Inches and 16ths other side.

Instantaneous Readings (foot numbers in red and repeated at each 10th and each inch).

CONCEALED JOINTS

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. D.</th>
<th>Per D.</th>
<th>No.</th>
<th>Wt. D.</th>
<th>Per D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9314D</td>
<td>4 ft.</td>
<td>2 1/2</td>
<td>9614D</td>
<td>4 ft.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>9316D</td>
<td>8 ft.</td>
<td>2 1/2</td>
<td>9616D</td>
<td>5 ft.</td>
<td>2 1/2</td>
</tr>
<tr>
<td>9516D</td>
<td>6 ft.</td>
<td>3 lbs.</td>
<td>9616D</td>
<td>6 ft.</td>
<td>3 lbs.</td>
</tr>
</tbody>
</table>

Marked Feet, 10ths and 100ths of feet, one side;
Feet, Inches and 16ths other side.

Instantaneous Readings (foot numbers in red and repeated at each 10th and each inch).

CONCEALED JOINTS

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. D.</th>
<th>Per D.</th>
<th>No.</th>
<th>Wt. D.</th>
<th>Per D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9324D</td>
<td>4 ft.</td>
<td>2 lbs.</td>
<td>9624D</td>
<td>4 ft.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>9326D</td>
<td>8 ft.</td>
<td>2 1/2</td>
<td>9626D</td>
<td>5 ft.</td>
<td>2 1/2</td>
</tr>
<tr>
<td>9526D</td>
<td>6 ft.</td>
<td>3 lbs.</td>
<td>9626D</td>
<td>6 ft.</td>
<td>3 lbs.</td>
</tr>
</tbody>
</table>

A MOST CONVENIENT RULE FOR BOTH PURPOSES

Particularly designed for taking inside measurements of openings such as door and window frames, for boilers, and other such measurements as are difficult to take with the ordinary folding rule. This rule, however, also perfectly serves every purpose of a common rule in ordinary measuring, and is extra durable. It will appeal especially to carpenters, architects, contractors, inspectors, automobile workers and others.

A six-inch graduated brass slide is fitted into the first section of the rule. This slide runs in a T slot, and, having stop at each end, cannot fall out.

The rule is made of genuine boxwood, with secure, smooth-working spring joints of the rivet type. The sections being of extra weight, the rule is somewhat more rigid than ordinary folding rules. The markings are especially distinct and the article is well finished in the natural boxwood.

To take an inside measurement, open rule to within 6 inches or less of the distance. Extend the brass slide by push button to point of measurement. Then add measurement on brass slide to that shown at extreme end of rule. This extension slide is well adapted also to measuring depth of mortises and other holes.

Rule Marked Consecutive Inches to 16ths, Both Sides.
Brass Slide Marked Inches to 16ths.

<table>
<thead>
<tr>
<th>No.</th>
<th>Wt. Per D.</th>
<th>Per D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X8536</td>
<td>6 ft. (12 fold)</td>
<td>4 1/4 lbs.</td>
</tr>
</tbody>
</table>

Packing: 1/8 doz. in a box.

WITH FOLDING HOOK

No.   | Wt. Per D. | Per D. |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HX8536</td>
<td>6 ft. (12 fold)</td>
<td>4 1/4 lbs.</td>
</tr>
</tbody>
</table>

Packing: 1/2 doz. in a box.
## METRIC SPRING JOINT RULES

**Flexible.  5/8 Inch (16 mm) Wide.  Brass Plated Trimmings.**

**CONCEALED JOINTS**

In ordering metric rules always specify number of folds, in addition to stock number, as "7511ME—5 fold," etc.

### YELLOW ENAMELED

**WHITE ENAMELED**

Marked Metric And English.  
Inches to 16ths one side; millimetres other side.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6512EM</td>
<td>2 ft. (4 Fold)</td>
<td>1</td>
<td>$7.49</td>
<td>1</td>
</tr>
<tr>
<td>6513EM</td>
<td>2 ft. (6 Fold)</td>
<td>1 1/2</td>
<td>3.80</td>
<td>1 1/2</td>
</tr>
<tr>
<td>6514EM</td>
<td>3 ft. (6 Fold)</td>
<td>2</td>
<td>4.20</td>
<td>2</td>
</tr>
<tr>
<td>6515EM</td>
<td>5 ft. (10 Fold)</td>
<td>3 1/2</td>
<td>6.00</td>
<td>3 1/2</td>
</tr>
<tr>
<td>6516EM</td>
<td>6 ft. (12 Fold)</td>
<td>5</td>
<td>7.20</td>
<td>5</td>
</tr>
<tr>
<td>7511ME</td>
<td>5 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>3.60</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7512ME</td>
<td>6 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>4.20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7513ME</td>
<td>8 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>4.80</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7514ME</td>
<td>10 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>6.00</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7515ME</td>
<td>12 FOLD, 2 metres</td>
<td>3/4</td>
<td>7.20</td>
<td>3/4</td>
</tr>
<tr>
<td>7516ME</td>
<td>12 FOLD, 2 metres</td>
<td>3/4</td>
<td>7.80</td>
<td>3/4</td>
</tr>
</tbody>
</table>

**Marked Metric Only.  
Millimetres Both Sides.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7511MM</td>
<td>5 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>$3.60</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7512MM</td>
<td>6 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>4.20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7513MM</td>
<td>8 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>4.80</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7514MM</td>
<td>10 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>6.00</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7515MM</td>
<td>12 FOLD, 2 metres</td>
<td>3/4</td>
<td>7.20</td>
<td>3/4</td>
</tr>
</tbody>
</table>

**Marked Metric, English And Burgos (Spanish).  
Metric and Burgos one side; inches to 16ths other side.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7511MEB</td>
<td>6 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>$4.60</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7512MEB</td>
<td>10 FOLD, 1 metre</td>
<td>1 1/8</td>
<td>6.00</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7513MEB</td>
<td>10 FOLD, 2 metres</td>
<td>3/4</td>
<td>7.20</td>
<td>3/4</td>
</tr>
<tr>
<td>8514EMB</td>
<td>8 FOLD, 4 feet</td>
<td>2</td>
<td>5.40</td>
<td>2</td>
</tr>
</tbody>
</table>

**Packing:** 2 ft., 3 ft., and 1 metre rules, 1 doz. in a box; all other lengths, 1/2 doz. in a box.

**NOTE:** Metric rules can be furnished with the folding end hook, as described on page 131. Specify as "H 7511ME 10 Fold," etc. We regularly stock rules marked English upper edge, metric lower edge of both sides. Specify as "7511ME : ME," etc. Price same as MET rules. We can supply rules marked Metric and Norsk (Norwegian) measurements; also Metric, English and Norsk. We can supply rules marked Vershok and Sagene (Russian) measurements, such rules also carrying English and metric marking.

---

## METRIC SPRING JOINT RULES

**Flexible.  5/8 Inch (16 mm) Wide.  Brass Plated Trimmings.**

**RIVET JOINTS**

In ordering metric rules always specify number of folds, in addition to stock number, as "7521ME—5 fold," etc.

### YELLOW ENAMELED

**WHITE ENAMELED**

Marked Metric And English.  
Inches to 16ths one side; millimetres other side.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6522EM</td>
<td>2 ft. (4 Fold)</td>
<td>1</td>
<td>$2.40</td>
<td>1</td>
</tr>
<tr>
<td>6523EM</td>
<td>3 ft. (6 Fold)</td>
<td>1 1/2</td>
<td>4.20</td>
<td>1 1/2</td>
</tr>
<tr>
<td>6524EM</td>
<td>4 ft. (6 Fold)</td>
<td>2</td>
<td>4.80</td>
<td>2</td>
</tr>
<tr>
<td>6525EM</td>
<td>5 ft. (10 Fold)</td>
<td>3 1/2</td>
<td>6.00</td>
<td>3 1/2</td>
</tr>
<tr>
<td>6526EM</td>
<td>6 ft. (12 Fold)</td>
<td>5</td>
<td>7.20</td>
<td>5</td>
</tr>
<tr>
<td>7521ME</td>
<td>5 FOE, 1 metre</td>
<td>1 1/8</td>
<td>$3.60</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7522ME</td>
<td>6 FOE, 1 metre</td>
<td>1 1/8</td>
<td>4.20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7523ME</td>
<td>8 FOE, 1 metre</td>
<td>1 1/8</td>
<td>4.80</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7524ME</td>
<td>10 FOE, 1 metre</td>
<td>1 1/8</td>
<td>6.00</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7525ME</td>
<td>10 FOE, 2 metres</td>
<td>3/4</td>
<td>7.20</td>
<td>3/4</td>
</tr>
<tr>
<td>7526ME</td>
<td>12 FOE, 2 metres</td>
<td>3/4</td>
<td>7.80</td>
<td>3/4</td>
</tr>
</tbody>
</table>

**Marked Metric Only.  
Millimetres both sides.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7521MM</td>
<td>5 FOE, 1 metre</td>
<td>1 1/8</td>
<td>$3.60</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7522MM</td>
<td>6 FOE, 1 metre</td>
<td>1 1/8</td>
<td>4.20</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7523MM</td>
<td>8 FOE, 1 metre</td>
<td>1 1/8</td>
<td>4.80</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7524MM</td>
<td>10 FOE, 1 metre</td>
<td>1 1/8</td>
<td>6.00</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7525MM</td>
<td>10 FOE, 2 metres</td>
<td>3/4</td>
<td>7.20</td>
<td>3/4</td>
</tr>
<tr>
<td>7526MM</td>
<td>12 FOE, 2 metres</td>
<td>3/4</td>
<td>7.80</td>
<td>3/4</td>
</tr>
</tbody>
</table>

**Marked Metric, English And Burgos (Spanish).  
Metric and Burgos one side; inches to 16ths other side.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7521MEB</td>
<td>6 FOE, 1 metre</td>
<td>1 1/8</td>
<td>$4.60</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7522MEB</td>
<td>10 FOE, 1 metre</td>
<td>1 1/8</td>
<td>6.00</td>
<td>1 1/8</td>
</tr>
<tr>
<td>7523MEB</td>
<td>10 FOE, 2 metres</td>
<td>3/4</td>
<td>7.20</td>
<td>3/4</td>
</tr>
<tr>
<td>8524EMB</td>
<td>8 FOE, 4 feet</td>
<td>2</td>
<td>5.40</td>
<td>2</td>
</tr>
</tbody>
</table>

**Packing:** 2 ft., 3 ft., and 1 metre rules, 1 doz. in a box; all other lengths, 1/2 doz. in a box.

**NOTE:**—See foot notes on page 134.
Section Six

MISCELLANEOUS WOOD RULES
ET CETERA

This Section embraces the following varied assortment of Wood Rules, Measuring Sticks, and other unclassified items, practically all in common use:

- FLAT WOOD RULES.
- YARD STICKS.
- METRE STICKS.
- MANUAL TRAINING RULES.
- BOXWOOD SHRINKAGE RULES.
- EXTENSION RULES.
- FREIGHT RULES.
- GAUGING AND WANTAGE RODS.
- SHOEMAKERS SIZE STICKS.
- "PERFECTION" GLASS BOARDS.
- GLASS CUTTERS AND GLAZIERS RULES.
- GLASS CUTTERS L AND T SQUARES.
- TAILORS AND DRESSMAKERS SQUARES.
- TAILORS MEASURING STICKS.
- YARD AND 1/4 YARD STICKS.
- CURVE STICKS.

Most of these items are regularly stocked by hardware houses; all are obtainable through them. Some few, such for instance as Shoemakers Size Sticks, are distributed principally through supply houses reaching individual lines of trade.

"Perfection" Glass Boards, Glass Cutters Rules, etc., are handled as well by manufacturers and distributors of glass and supplies for that trade.

Our Tailors Squares and Measuring Sticks are stocked by tailor trimming houses in all centers. Ours is the most complete and high grade line of this kind, and on it, as on our other goods, we are equipped to give prompt, efficient service.
FLAT WOOD RULES
Bench Rules For General Shop And Factory Use,
And For Saddlers, Mechanics, Etc.

These are one-piece polished hard maple bench or table rules. On such work, or where many long measurements are taken, the 4, 5 and 6 foot lengths save much time as compared with yard sticks. Being marked both edges of both sides, with zero falling at opposite ends, these rules can instantly be brought to the work in any position.

The bound rules have brass binding entire length of both edges and are valuable in cutting or wherever the rule is subject to much wear.

Marked Both Sides, Both Edges, One Side 8ths, Other Side 16ths Inch.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7131</td>
<td>24 inch</td>
<td>1/2 x 3/16 inch</td>
<td>2 lb</td>
<td>$ 6.60</td>
</tr>
<tr>
<td>7132</td>
<td>36 inch</td>
<td>1/2 x 3/16 inch</td>
<td>3 lb</td>
<td>$ 9.60</td>
</tr>
<tr>
<td>7133</td>
<td>48 inch</td>
<td>1/2 x 3/16 inch</td>
<td>5 lb</td>
<td>$11.20</td>
</tr>
<tr>
<td>7134</td>
<td>60 inch</td>
<td>1/2 x 3/16 inch</td>
<td>6 lb</td>
<td>$16.80</td>
</tr>
<tr>
<td>7135</td>
<td>72 inch</td>
<td>1/2 x 3/16 inch</td>
<td>8 lb</td>
<td>$21.90</td>
</tr>
</tbody>
</table>

**MANUAL TRAINING RULES**

Handy one-foot, one-piece rules that are especially popular in the manual training and vocational school fields.

Marked Both Sides, Both Edges, One Edge 8ths, Other Edge 16ths Inch.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>34 1/4</td>
<td>1 ft. Maple</td>
<td>1/2 x 3/16 inch</td>
<td>1 lb</td>
<td>$ 4.80</td>
</tr>
<tr>
<td>34 1/4</td>
<td>1 ft. Boxwood</td>
<td>1/2 x 3/16 inch</td>
<td>1 lb</td>
<td>$ 5.40</td>
</tr>
</tbody>
</table>

NOTE—For Steel Rule No. 60, 1 ft. and 2 ft. for school use, see page 107.

For 2 ft. Folding Wood Rule for manual training use, see page 126.

BOXWOOD SHRINKAGE RULES
For Pattern Makers

**TWO FOOT. BRASS CAPPED.**

Boxwood Shrinkage Rules are suitable for rough work. Ours are high grade rules of their kind, of genuine boxwood, nicely finished.

On all close work machine divided steel shrinkage rules, such as our No. 65 line, page 106, should be used, as they carry fine graduations and can be depended upon for a high degree of accuracy.

(On the rules below shrinkage allowance is included in all measurements throughout. They are full 2 foot long in shrinkage measurement, i. e., extreme length of No. 8201 is 24-1/4 inches, No. 8202, 24-2/12 inches, etc.)

Marked Both Sides, Both Edges; One Side 8ths, Other Side 16ths. Dimensions: 1 1/4 x 1/4 inch.

<table>
<thead>
<tr>
<th>No.</th>
<th>Shrinkage</th>
<th>Per Dоз.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8201</td>
<td>1/16 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8202</td>
<td>1/12 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8203</td>
<td>1/10 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8204</td>
<td>3/32 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8205</td>
<td>1/8 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8206</td>
<td>3/16 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8207</td>
<td>1/4 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8208</td>
<td>5/16 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8209</td>
<td>3/8 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8210</td>
<td>1/2 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8251</td>
<td>3/4 inch per foot</td>
<td>$21.00</td>
</tr>
<tr>
<td>8252</td>
<td>3/4 inch per foot</td>
<td>$21.00</td>
</tr>
<tr>
<td>8253</td>
<td>1 inch per foot</td>
<td>$22.20</td>
</tr>
<tr>
<td>8254</td>
<td>1 1/16 inch per foot</td>
<td>$22.20</td>
</tr>
<tr>
<td>8255</td>
<td>1 inch per foot</td>
<td>$22.20</td>
</tr>
</tbody>
</table>

Weight Per Dоз., 2 1/4 lb.

Marked Both Sides, Both Edges: 8ths, 10ths, 12ths, 16ths. Dimensions: 1 1/4 x 1/4 inch.

<table>
<thead>
<tr>
<th>No.</th>
<th>Shrinkage</th>
<th>Per Dоз.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8211</td>
<td>1/16 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8212</td>
<td>1/12 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8213</td>
<td>1/10 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8214</td>
<td>3/32 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8215</td>
<td>1/8 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8216</td>
<td>3/16 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8217</td>
<td>1/4 inch per foot</td>
<td>$19.80</td>
</tr>
<tr>
<td>8218</td>
<td>5/16 inch per foot</td>
<td>$19.80</td>
</tr>
</tbody>
</table>

Weight Per Dоз., 2 lb.

Packaging: All packed 3/4 doz. in a box.

NOTE—For Steel Shrinkage Rules, see pages 106 and 107.
EXTENSION RULES

Used in measuring between fixed points such as floor and ceiling, across large openings, etc. Made of maple, with sections 1 inch wide, 3/8 inch thick. Clamp and end plates are brass plated. The rules are fitted with tension spring and set screw, securely holding the sections when closed or extended to any distance. They have stop at both ends so sections cannot fall apart.

In Two Sections. With Set Screw.
Marked Feet, Inches and 8ths Both Sides.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7162</td>
<td>4 ft.</td>
<td>2 ft.</td>
<td>63 1/2 lbs.</td>
<td>$18.00</td>
</tr>
<tr>
<td>7163</td>
<td>6 ft.</td>
<td>3 ft.</td>
<td>85 lbs.</td>
<td>$21.00</td>
</tr>
<tr>
<td>7164</td>
<td>8 ft.</td>
<td>4 ft.</td>
<td>11 lbs.</td>
<td>$24.00</td>
</tr>
<tr>
<td>7165</td>
<td>10 ft.</td>
<td>5 ft.</td>
<td>14 lbs.</td>
<td>$30.00</td>
</tr>
<tr>
<td>7166</td>
<td>12 ft.</td>
<td>6 ft.</td>
<td>16 1/2 lbs.</td>
<td>$36.00</td>
</tr>
</tbody>
</table>

(While regularly marked as above, these can be furnished in consecutive inches, without additional charge.)

NOTE—For Folding Boxwood Rules with Extension Slide, see page 133

FREIGHT RULES

These are extra durable, long hard maple rules with heavy end hook. They are well suited for quickly measuring boxes, crates, etc., around warehouses and docks, and for other heavy and rough work in shipping departments, at factories, and elsewhere. Both the rule and hook are sturdy, the former being of polished maple 1 3/4 inch, the latter of heavy cast brass extending 2 inches from edge of rule and most securely attached. Handle end of rule is rounded and with hole for hanging up.

Marked Feet, Inches and Quarters On Two Sides And Top Edge.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7155</td>
<td>5 ft.</td>
<td>14 lbs.</td>
<td>$24.00</td>
</tr>
<tr>
<td>7156</td>
<td>6 ft.</td>
<td>16 lbs.</td>
<td>45.00</td>
</tr>
</tbody>
</table>

GAUGING RODS

For determining capacity of standard type barrels (not drums). All of these rods are 7 1/2 inch square, of hardwood, nicely finished, and with zero end pointed and metal covered. In addition to gallon measurement, all are marked in 10ths of inches.

Directions For Determining Barrel Capacity.
Insert Rod through the bung hole in the side of the barrel diagonally over to the head or end. Do this in both directions, right and left. Read the Rod at the center of the bung for both insertions, and take the average of the two readings. Example: If one reading is 50, and the other 48 gallons, the average, 49 gallons, is in the capacity, i.e., contents when full.

Maple. With Brass Point.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7161</td>
<td>120 gals.</td>
<td>3 ft.</td>
<td>23/4 lbs.</td>
<td>$15.00</td>
</tr>
<tr>
<td>7162</td>
<td>200 gals.</td>
<td>3 ft.</td>
<td>24 lbs.</td>
<td>$18.00</td>
</tr>
<tr>
<td>7163</td>
<td>300 gals.</td>
<td>4 ft.</td>
<td>3 lbs.</td>
<td>$23.00</td>
</tr>
<tr>
<td>7164*</td>
<td>300 gals.</td>
<td>4 ft.</td>
<td>3 lbs.</td>
<td>36.00</td>
</tr>
</tbody>
</table>

*With wantage table for 42 gallon barrel of 22 inch bung diameter.

Boxwood.

With Steel Tipped Brass Point, Ivory Face, Brass Back.
A Rod of extra high grade and fine finish.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7264</td>
<td>120 gals.</td>
<td>3 ft.</td>
<td>2 1/4 lbs.</td>
<td>$115.20</td>
</tr>
</tbody>
</table>

With wantage table for 42 gallon barrel of 22 inch bung diameter.

WANTAGE RODS

For determining wantage or outage of standard type barrels. Overall length 18 inches. The 8-line rod is suitable for measuring wantage of barrels of 8 standard sizes, the 12-line will take care of 12 standard sizes.

Directions For Determining Wantage.
Barrel should lie level on its side. Insert the Rod slowly and straight into the bung hole at its side until brass angle of the rod rests under and against the staves. Using the column of figures that represents the capacity and bung diameter of the barrel, read the line of the liquid. If, for example, Rod is wet as far as 19, it shows shortage of 10 gallons.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7167</td>
<td>8 lines. Maple. 5/8 inch square.</td>
<td>2 1/4 lbs.</td>
<td>$24.00</td>
</tr>
<tr>
<td>7168</td>
<td>12 lines. Maple. 5/8 inch square. 2 1/4 lbs.</td>
<td>36.00</td>
<td></td>
</tr>
</tbody>
</table>

NOTE—Gauging and Wantage Rods can be furnished in Imperial gallon measurements.

SHOE MAKERS SIZE STICKS

Used in shoe stores, etc., for determining shoe sizes. These sticks carry on the inside face the standard scale of shoe sizes and half sizes; on the back 12 inches in 8ths. They have one stationary and one sliding jaw. The maple sticks are 3/4 x 15/16 x 15 1/2 inches. No. 8221 is 15/16 x 16 x 16 inches.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8120</td>
<td>Maple, with steel trimmings.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>8121</td>
<td>Maple, with brass trimmings.</td>
<td>2 lbs.</td>
</tr>
<tr>
<td>8221</td>
<td>Boxwood, with brass trimmings.</td>
<td>3/4 lbs.</td>
</tr>
<tr>
<td>8222</td>
<td>Boxwood, folding, for pocket use. Brass trimmings.</td>
<td>2 1/4 lbs.</td>
</tr>
</tbody>
</table>
"PERFECTION" GLASS BOARDS
With Adjustable Straight Edge

(Upper side of straight edge)
(Lower side of straight edge)

AN INDISPENSABLE ARTICLE TO ALL DEALERS IN WINDOW GLASS.
WILL SAVE ITS COST IN A SHORT TIME.

The "Perfection" Glass Board is the modern device for cutting glass accurately and uniformly to size, in inches or fractions of inches. The Board is made of narrow strips of well seasoned lumber, dovetail cleated. It is ruled in inches both ways, and well finished. By means of guide at the left edge and the upper edge the glass is quickly brought into position. The front edge has an embedded steel rule distinctly marked in inches and 6ths, by which the straight edge is set. The other three edges of the board are numbered in inches.

The Straight Edge is a unique and improved device, very simple and positive in operation. By turning knob at front end it is moved backward or forward to any inch or part of an inch on the steel rule; and turning the set screw on top locks it firmly at any location. When more than one light of glass of the same size is to be cut, the screw once set, every light will be exactly same size.

"PERFECTION" GLASS BOARDS

Size of Board | Wt. Each, Packed | Price, Each
---|---|---
24 x 36 inches | 36 lbs. | $16.75
30 x 48 inches | 58 lbs. | 24.25
36 x 64 inches | 72 lbs. | 29.25
42 x 60 inches | 100 lbs. | 33.25
48 x 72 inches | 136 lbs. | 44.25

Straight Edges Only.
For "Perfection" Glass Boards.

The Straight Edge, being the part of a Glass Board that receives most wear, we list below extra Straight Edges Only, which fit our standard size boards. These are Straight Edges complete with fittings.

For Board size 24 x 36 inches | Price, Each $5.40
For Board size 30 x 48 inches | Price, Each 5.55
For Board size 36 x 54 inches | Price, Each 5.70
For Board size 42 x 60 inches | Price, Each 5.85
For Board size 48 x 72 inches | Price, Each 6.00

GLASS CUTTERS RULES
With Brass Flange Or Lip

Glass Cutters Rules are put to severe use. Ours are of hard maple, of ample dimensions. They are fitted at one end with heavy cast brass lip securely attached by riveting through brass side plates, other end brass tipped. Lip extends 9/16 inch from flat face of rule. On upper face of rule zero point is at inside of lip and figures are placed perpendicularly. These rules are very well finished.

Marked Both Sides, Both Edges, Consecutive Inches To 8ths.

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>Dimensions</th>
<th>Wt. Each</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>7141</td>
<td>36 inch</td>
<td>2&quot; x ½ inch</td>
<td>½ lbs.</td>
<td>$3.40</td>
</tr>
<tr>
<td>7142</td>
<td>48 inch</td>
<td>2&quot; x ⅜ inch</td>
<td>¾ lbs.</td>
<td>4.00</td>
</tr>
<tr>
<td>7143</td>
<td>60 inch</td>
<td>2&quot; x ⅜ inch</td>
<td>1 lbs.</td>
<td>4.60</td>
</tr>
<tr>
<td>7144</td>
<td>72 inch</td>
<td>2&quot; x ⅜ inch</td>
<td>1⅜ lbs.</td>
<td>5.80</td>
</tr>
<tr>
<td>7145</td>
<td>84 inch</td>
<td>2&quot; x ½ inch</td>
<td>2 lbs.</td>
<td>7.00</td>
</tr>
<tr>
<td>7146</td>
<td>96 inch</td>
<td>2&quot; x ½ inch</td>
<td>2⅛ lbs.</td>
<td>8.00</td>
</tr>
<tr>
<td>7147</td>
<td>108 inch</td>
<td>2&quot; x ⅜ inch</td>
<td>3 lbs.</td>
<td>10.30</td>
</tr>
<tr>
<td>7148</td>
<td>120 inch</td>
<td>2&quot; x ⅜ inch</td>
<td>3⅛ lbs.</td>
<td>12.40</td>
</tr>
<tr>
<td>7149</td>
<td>144 inch</td>
<td>2&quot; x ⅜ inch</td>
<td>5⅛ lbs.</td>
<td>17.00</td>
</tr>
</tbody>
</table>

GLAZIERS RULES
Flat, Without Lip

Well finished, hard maple rules, with both ends brass tipped.

Marked Both Sides.
One Side, Both Edges, Consecutive Inches To 8ths.

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>Dimensions</th>
<th>Wt. Each</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>7136</td>
<td>36 inch</td>
<td>1½ x ⅓ inch</td>
<td>½ lbs.</td>
<td>$1.00</td>
</tr>
<tr>
<td>7137</td>
<td>48 inch</td>
<td>1½ x ⅓ inch</td>
<td>¾ lbs.</td>
<td>1.40</td>
</tr>
<tr>
<td>7138</td>
<td>60 inch</td>
<td>1½ x ⅓ inch</td>
<td>1 lbs.</td>
<td>2.00</td>
</tr>
<tr>
<td>7139</td>
<td>72 inch</td>
<td>1½ x ½ inch</td>
<td>1⅛ lbs.</td>
<td>2.80</td>
</tr>
<tr>
<td>7140</td>
<td>84 inch</td>
<td>2 x ⅜ inch</td>
<td>1 lbs.</td>
<td>4.00</td>
</tr>
</tbody>
</table>
GLASS CUTTERS L AND T SQUARES

These are well made polished hardwood squares designed for glass cutting and similar work.

In Addition To Length Always Specify Whether L Or T Square Is Wanted.

L SQUARES

Blade of hard maple, 3 inches wide, ¾ inch thick and marked outer edge of both sides inches to 8ths. Blade is mortised through and securely riveted into the stock.

The stock is of hard maple, 2½ inches wide, 9/16 inch thick, brass bound on inner face, and has shoulder on both sides of blade so square can be used on either side. Square has substantial corner brace with brass side plates.

Lengths given below are graduated length of the blade. Stock of the 24-inch square is 21 inches long, of the 36 and 48-inch, 24 inches, of the 60-inch, 27 inches long, inside the blade.

<table>
<thead>
<tr>
<th>Length</th>
<th>Wt. Each</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 inch L Square</td>
<td>2 lbs.</td>
<td>$14.40</td>
</tr>
<tr>
<td>36 inch L Square</td>
<td>2½ lbs.</td>
<td>18.00</td>
</tr>
<tr>
<td>48 inch L Square</td>
<td>2½ lbs.</td>
<td>21.60</td>
</tr>
<tr>
<td>60 inch L Square</td>
<td>3 lbs.</td>
<td>27.00</td>
</tr>
</tbody>
</table>

T SQUARES

Blade of hard maple 1¾ inch wide, 3/16 inch thick, and marked both edges of both sides inches to 8ths. Blade is mortised through and securely riveted into the stock. Other end of blade brass capped.

Stock of genuine boxwood 10 inches long, 1¾ inch wide, ½ inch thick. It has shoulder on each side of blade so square is suitable for use on either side. Stock also is notched, giving clearance for glass cutting wheel.

Lengths given below are length of blade under the stock.

<table>
<thead>
<tr>
<th>Length</th>
<th>Wt.</th>
<th>Price, Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>36 inch T Square</td>
<td>¾ lbs.</td>
<td>$9.00</td>
</tr>
<tr>
<td>48 inch T Square</td>
<td>¾ lbs.</td>
<td>12.00</td>
</tr>
</tbody>
</table>

NOTE—Above lengths of L and T Squares are the popular ones, and the only ones we regularly stock. The demand for other lengths is very limited, and as they are made to order, their cost is considerably higher.

For Glass Cutting Boards, see page 142.

YARD STICKS

Polished Hardwood

Our Yard Sticks are of the better grades, of hardwood, in the natural finish. The lines and figures, in black, show up distinctly. The sticks are well surfaced, finished and polished. We do not manufacture the very common soft wood and stained sticks.

Marked Both Sides.

One side lower edge inches to 8ths; other side fractions of yards.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7121</td>
<td>Maple</td>
<td>1 x ¾ inch</td>
<td>Plain</td>
<td>2¼ lbs.</td>
</tr>
<tr>
<td>7122</td>
<td>Maple</td>
<td>1 x ¾ inch</td>
<td>Brass capped</td>
<td>2½ lbs.</td>
</tr>
<tr>
<td>7424</td>
<td>Hickory</td>
<td>1 x ¼ inch</td>
<td>Brass capped</td>
<td>3½ lbs.</td>
</tr>
<tr>
<td>7422</td>
<td>Hickory</td>
<td>¾ x 3/16 inch</td>
<td>Brass capped</td>
<td>2½ lbs.</td>
</tr>
</tbody>
</table>

Marked Both Sides.

Lower edge inches to 8ths, upper edge fractions of yards.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7115</td>
<td>Maple</td>
<td>1 x 3/16 inch</td>
<td>Plain</td>
<td>2½ lbs.</td>
</tr>
<tr>
<td>7116</td>
<td>Maple</td>
<td>1 x 3/16 inch</td>
<td>Brass capped</td>
<td>2½ lbs.</td>
</tr>
<tr>
<td>7129</td>
<td>Maple</td>
<td>1 x 3/16 inch</td>
<td>Brass capped</td>
<td>4½ lbs.</td>
</tr>
<tr>
<td>7429</td>
<td>Hickory</td>
<td>1 x 3/16 inch</td>
<td>Brass capped</td>
<td>3½ lbs.</td>
</tr>
</tbody>
</table>

NOTE—For Flat Wood or Bench Rules 24 to 72 inches long, see page 138. See also Tailors Measuring Sticks, page 146.

METRE STICKS

Marked Metric And English

We make only the better grade of Metre Sticks, of polished hard maple. 1 metre (39.37 inch) long, 25 millimetres (1 inch) wide, 8 millimetres (5/16 inch) thick.

Marked One Edge Of Both Sides.

One Side, Lower Edge Only, In Centimetres And Millimetres; Other Side, Upper Edge Only, Inches To 8ths.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7111ME</td>
<td>1 metre</td>
<td>Plain Ends</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>7112ME</td>
<td>1 metre</td>
<td>Brass tipped ends</td>
<td>3 lbs.</td>
</tr>
</tbody>
</table>
ROSE TOOLS, INC.

BEVELED YARD STICKS. BEVELED YARD AND QUARTER STICKS.
Polished Hardwood

These are popular in the tailoring and dressmaking trades, and other places in laying out and cutting work. They are double beveled on one side so as to lie close to the work. They are of hard wood in the natural finish. The stamped lines and figures filled in black are permanent and easily read. The sticks are smooth and well finished.

All Sticks Below Are Marked One Side, on both bevels in inches to 8ths, down the center in fractions of yards.

Beveled Yard Sticks

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>7124</td>
<td>36 inch. Maple. 1/2 x 5/16 inch. Plain.</td>
<td>4 lbs.</td>
<td>$7.20</td>
<td></td>
</tr>
<tr>
<td>7125</td>
<td>36 inch. Maple. 1/2 x 5/16 inch. Brass tipped.</td>
<td>4 lbs.</td>
<td>$10.80</td>
<td></td>
</tr>
</tbody>
</table>

Beveled Yard and Quarter Sticks

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>7126</td>
<td>48 inch. Maple. 1/2 x 5/16 inch. Plain.</td>
<td>5 lbs.</td>
<td>$7.80</td>
<td></td>
</tr>
<tr>
<td>7127</td>
<td>48 inch. Maple. 1/2 x 5/16 inch. Brass tipped.</td>
<td>5 lbs.</td>
<td>$12.00</td>
<td></td>
</tr>
</tbody>
</table>

TAILORS MEASURING STICKS

While low in price, these are polished hard maple rules, plainly marked. They are especially popular in the tailoring and dressmaking trades, schools, etc. All are 1/4 inch wide, 3/16 inch thick.

Marked Inches and 8ths Upper Edge Of Both Sides.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>7031</td>
<td>12 inch. Plain Ends.</td>
<td>1 lbs.</td>
<td>$3.00</td>
</tr>
<tr>
<td>7032</td>
<td>18 inch. Plain Ends.</td>
<td>2 lbs.</td>
<td>$4.00</td>
</tr>
<tr>
<td>7033</td>
<td>24 inch. Plain Ends.</td>
<td>3 lbs.</td>
<td>$5.40</td>
</tr>
<tr>
<td>7034</td>
<td>12 inch. Brass Capped Ends.</td>
<td>1 lbs.</td>
<td>$4.20</td>
</tr>
<tr>
<td>7035</td>
<td>18 inch. Brass Capped Ends.</td>
<td>2 lbs.</td>
<td>$4.80</td>
</tr>
<tr>
<td>7036</td>
<td>24 inch. Brass Capped Ends.</td>
<td>2 lbs.</td>
<td>$4.80</td>
</tr>
</tbody>
</table>

NOTE—See also Yard Sticks, page 145.

CURVE STICKS

Used in tailoring work. Of well finished hard maple. Length. 24 inches. Thickness, 1/8 inch.

Marked Both Sides Inches To 8ths.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>8151</td>
<td>Plain Ends. 1/4 lbs.</td>
<td>$4.80</td>
</tr>
<tr>
<td>8152</td>
<td>Brass Capped Ends. 1/4 lbs.</td>
<td>$7.20</td>
</tr>
</tbody>
</table>

TAILORS AND DRESSMAKERS SQUARES

Made of genuine boxwood and of selected hard maple. These squares are of the weight preferred by the tailoring trade, yet constructed so as to be serviceable. All have brass corner plate and corner brace. All carry on one side tailors measurements (regular or reverse as described below); other side inches and 8ths. They are marked by the best methods to insure permanence and legibility. They are well surfaced and finely finished.

Regular Graduation:
Short arm in 32nds, 16ths, 8ths, quarters and halves. Long arm in 24ths, 12ths, 6ths, thirds and two-thirds.

Reverse Graduation:
Short arm in 24ths, 12ths, 6ths, thirds and two-thirds. Long arm in 32nds, 16ths, 8ths, quarters and halves.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>8130</td>
<td>1 x 1/4 inch. Maple. Regular</td>
<td>Plain.</td>
<td>2 lbs.</td>
<td>$7.40</td>
<td></td>
</tr>
<tr>
<td>8131</td>
<td>1 x 1/4 inch. Maple. Regular</td>
<td>Brass capped.</td>
<td>2 lbs.</td>
<td>$12.00</td>
<td></td>
</tr>
<tr>
<td>8132</td>
<td>1 x 1/4 inch. Maple. Reverse</td>
<td>Plain.</td>
<td>2 lbs.</td>
<td>$7.40</td>
<td></td>
</tr>
<tr>
<td>8133</td>
<td>1 x 1/4 inch. Maple. Reverse</td>
<td>Brass capped.</td>
<td>2 lbs.</td>
<td>$12.00</td>
<td></td>
</tr>
<tr>
<td>8134</td>
<td>1 x 1/4 inch. Boxwood. Regular</td>
<td>Brass capped.</td>
<td>2 1/2 lbs.</td>
<td>$26.20</td>
<td></td>
</tr>
<tr>
<td>8135</td>
<td>1 x 1/4 inch. Boxwood. Regular</td>
<td>Brass capped.</td>
<td>2 1/2 lbs.</td>
<td>$29.60</td>
<td></td>
</tr>
<tr>
<td>8136</td>
<td>1 x 1/4 inch. Boxwood. Reverse</td>
<td>Brass capped.</td>
<td>2 1/2 lbs.</td>
<td>$29.60</td>
<td></td>
</tr>
<tr>
<td>8137</td>
<td>1 x 1/4 inch. Boxwood. Reverse</td>
<td>Brass capped.</td>
<td>2 1/2 lbs.</td>
<td>$29.60</td>
<td></td>
</tr>
</tbody>
</table>

Half Size Square.
6 x 1/2 inch. Boxwood. Regular. Brass capped. 1 lb. $16.20
All graduations reduced to half size. making capacity of square 12 x 24 inches.

Quarter Size Square.
4 x 1/4 inch. Boxwood. Regular. Brass capped. 1/2 lb. $24.00
All graduations reduced to quarter size. making capacity of square 16 x 24 inches.

Jointed Square.
14 x 1/4 inch. Boxwood. Regular. Brass capped. 1 lb. $54.00
Corner full brass both sides and has substantial, well fitted snap joint. Must easily set up and taken down. This square is of extra weight throughout.

NOTE—For Tailors Tapes, see page 57.
TAILORS MEASURING SQUARES

Measuring Squares With 9-Inch Stationary And Sliding Brass Arms, With 24-Inch Bar Marked Inches And 8ths Both Sides. Sliding arm has tension spring. Squares have tape attachment.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>8140</td>
<td>9 x 24 inch</td>
<td>Maple</td>
<td>3 lbs.</td>
<td>$66.00</td>
</tr>
<tr>
<td>8240</td>
<td>9 x 24 inch</td>
<td>Boxwood</td>
<td>5 lbs.</td>
<td>68.40</td>
</tr>
</tbody>
</table>

Measuring Square With 7-Inch Stationary And Sliding Boxwood Arms, 14-Inch Boxwood Bar With 14-Inch Flexible Brass Strip On Reverse Side. Bar and arms marked one side inches and 8ths, brass strip in inches and quarters. Sliding arm has tension spring; square has tape attachment.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>8241</td>
<td>7 x 14 inch</td>
<td>Boxwood</td>
<td></td>
<td>$54.00</td>
</tr>
</tbody>
</table>

Regularly made in right shoulder pattern. Sometimes known as the Mountzil square. Weight per doz. 37 lbs.

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>8142</td>
<td>14 x 24 inch</td>
<td>Maple</td>
<td></td>
<td>$19.20</td>
</tr>
</tbody>
</table>

A standard type Tailors Square same as No. 8130, but marked both sides inches and 8ths only. This item is popular in instruction work, as at schools, etc., and wherever a simple measuring square is needed in the tailoring and dressmaking trades. Weight per doz. 2 lbs.

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>8246</td>
<td>Arm Square</td>
<td>6 x 10 inch</td>
<td>Boxwood</td>
<td></td>
</tr>
</tbody>
</table>

Marked inches and 16ths both sides. With tape attachment. Weight Per Doz. 3/4 lbs.

METRIC TAILORS SQUARES

All With One Edge Beveled

These are standard Metric Measuring Squares. They are substantially built of genuine boxwood and selected hard maple. All have brass corner plate and corner brace. All are marked on the bevel and on one edge of the opposite side. These squares are marked by the best methods to insure permanence and legibility, are smooth and well finished.

**Marked One Edge Of Both Sides in Millimetres.**

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8147MM</td>
<td>35 x 60 cm</td>
<td>Maple</td>
<td>3 lbs.</td>
<td>$25.20</td>
</tr>
<tr>
<td>8148MM</td>
<td>35 x 60 cm</td>
<td>Maple</td>
<td>Brass capped</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>8248MM</td>
<td>35 x 60 cm</td>
<td>Boxwood</td>
<td>Brass capped</td>
<td>3 1/2 lbs</td>
</tr>
</tbody>
</table>

**Marked One Edge Of Both Sides.**

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8147ME</td>
<td>35 x 60 cm</td>
<td>Maple</td>
<td></td>
<td>$25.20</td>
</tr>
<tr>
<td>8148ME</td>
<td>35 x 60 cm</td>
<td>Maple</td>
<td>Brass capped</td>
<td>3 lbs.</td>
</tr>
<tr>
<td>8248ME</td>
<td>35 x 60 cm</td>
<td>Boxwood</td>
<td>Brass capped</td>
<td>3 1/2 lbs</td>
</tr>
</tbody>
</table>

NOTE—For Tailors Tapes, see page 57.

Section Seven

LUMBER RULES

ET CETERA

LUMBER RULES, classified as Board and Log Rules, were our original line of manufacture and we are the largest makers of rules of this kind. Lufkin Lumber Rules are familiarly and favorably known wherever logs or lumber are handled.

The highest grade of hickory, though scarce as compared with the earlier days, is obtained for our rules by inspectors in the field, who have been with us for years and have made a study of our peculiar requirements.

As Narrow Pattern Board Rules became more popular we added to our line the N and FN Rules, 1 inch and 3/4 inch wide respectively. However, from the standpoint of durability, we recommend the use of Board Rules not less than 1 inch wide and preferably the old standard width, 1 1/8 inch. As lumber became more valuable there developed a demand for Board Rules with Half-Foot Marks, which accordingly were added to our line. Still more recently we brought out the Folding Spring Joint Board Rule and the Folding Spring Joint Log Rule, which are conveniently carried in the pocket and are suitable for certain classes of work. We have endeavored always to meet the new demands brought about by changing conditions in the lumber industry.

Details as to the different markings on both Board and Log Rules, the various log scales, etc., are given on the following pages.

This Section of Catalog covers also Combination Board and Log Rules, Steel Board Rules, Log Calipers, Biltmore Sticks, Dip Rods, Marking Sticks, Lumber Gages, Boot Calks and Calk Sets.
HICKORY BOARD RULES

All of selected second growth white hickory, tough and flexible. The heads are most substantially made and securely attached. They consist of tempered steel cap riveted and brazed to brass shoulders (except No. 4). All have nicely formed 6-inch wedge handle and are well finished. The markings are burnt, making them prominent and permanent.

Burnt Figures. Oval Head.

MARKINGS

8/18 rules measure one side 12, 14, 16; other side 8, 10, 18 foot lengths.
12/22 rules measure one side 12, 14, 16; other side 18, 20, 22 foot lengths.

All Rules On This Page Are Marked 8/18 or 12/22.
8/18 Rules Are Supplied Unless 12/22 Is Specified.

STANDARD WIDTH RULES

<table>
<thead>
<tr>
<th>No.</th>
<th>3-tier. Width, 1½ inch. Full length, 3½ ft. Figured 36 inches.</th>
<th>Per Doz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs. Known as the sorting rule.</td>
<td>$33.60</td>
</tr>
<tr>
<td>2</td>
<td>Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs.</td>
<td>$51.20</td>
</tr>
<tr>
<td>2½</td>
<td>Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs.</td>
<td>$50.00</td>
</tr>
<tr>
<td>3</td>
<td>Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 1½-inch brass shoulders). Weight per doz., 6 lbs.</td>
<td>$28.50</td>
</tr>
</tbody>
</table>

NARROW RULES

| No. | 3-tier. Width, 1 inch. Full length, 3½ ft. Figured 36 inches. Per Doz. |
|-----|-------------------------------------------------------------|---------|
| 1IN | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6½ lbs. | $33.60  |
| 1XN | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs. | $33.60  |
| 2N  | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 5½ lbs. | $31.20  |
| 2XN | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 5 lbs. | $31.20  |

NOTE—For these rules with markings other than as listed above an extra charge is made.

HICKORY BOARD RULES

With Half-Foot Marks.
Burnt Figures. Oval Head.

Hardwood Manufacturers Association Rules.
National Hardwood Lumber Association Rules.

These Rules are the same as our others, except having half-foot marks, the half feet indicated by vertical dashes, the feet by dots. They are coming more and more into use, particularly in measuring hardwoods, and have been adopted as standard by the Associations mentioned above. All have 6-inch wedge handle.

All Rules Below Except No. 08 Are Marked 8/18, i.e., One Side To Measure 8, 10, 15, Other Side 12, 14, 16 Feet.

STANDARD WIDTH RULES WITH HALF-FOOT MARKS

| No. | 3-tier. Width, 1½ inch. Full length, 3½ ft. Figured 36 inches. Per Doz. |
|-----|-------------------------------------------------------------|---------|
| 01  | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 7½ lbs. | $34.60  |
| 02  | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs. | $33.60  |
| 03  | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs. | $31.20  |
| 04  | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 1½-inch brass shoulders). Weight per doz., 6 lbs. | $33.60  |

NARROW RULES WITH HALF-FOOT MARKS

| No. | 3-tier. Width, 1 inch. Full length, 3½ ft. Figured 36 inches. Per Doz. |
|-----|-------------------------------------------------------------|---------|
| 01N | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6½ lbs. | $36.00  |
| 02N | Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 5½ lbs. | $35.60  |
| 02XN| Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 5 lbs. | $33.60  |

NOTE—For general description of Board Rules, see top of page 150. For these Rules with markings other than as listed above an extra charge is made.
ROSE TOOLS, INC.

HICKORY BOARD RULES
Burnt Figures. Oval Head.

EXPLANATION OF MARKINGS

8/18 Rules are marked one side to measure 12, 14, 16; other side 8, 10, 12, 14, 16 ft.
8/22 Rules are marked one side to measure 12, 14, 16, 18; other side 8, 10, 12, 14, 16 ft.
9/16 Rules are marked one side to measure 9, 11, 13, 15; other side 9, 11, 13, 15, 16 ft.
7/16 Rules are marked one side to measure 7, 8, 9, 10, 11; other side 12, 13, 14, 15, 16 ft.

On Nos. 6 and 4, 8/18 marking is supplied unless 12/22 is specified.
On No. 8, 9/16 marking is supplied unless 8/22 is specified.

No. 6
3-tier. Width, 1 1/8 inch. Full length, 3 ft. Figured 30 inches. Marked 8/18 or 12/22; see explanation at top of page. With 6 inch brass plate in 8ths, as illustrated. Heavy brazed head (steel cap and 1/2 inch brass shoulders). Weight per doz. 6 1/2 lbs. $33.00

No. 4
Board Rule, With Socket Steel Square Head Only. 3-tier. Width, 1 1/8 inch. Full length, 3 ft. Figured 30 inches. Marked 8/18 or 12/22, see explanation at top of page. Weight per doz. 6 lbs. A low-priced, yet serviceable Rule. $26.40

SPRING STEEL BOARD RULES
Dull Nickel Plated Finish.

Extra durable yet of medium weight. Being made of best quality spring tempered steel, these rules readily bend to the board, yet return straight and hold their shape well. All regularly have oval head, exactly same as our Hickory Board Rules. Lines and figures are sunken and black and are easily read against the dull nickel plated finish of the rule, which finish also resists rust. All have 6 inch round wood handle and leather slide for handling the blade.

No. 3-tier. Width, 1 inch. Full length, 3 1/2 ft. Figured 30 inches. Made in 8/18 and 12/22 marking; regularly furnished in 8/18. $50.00
No. 4-tier. Width, 1 1/4 inch. Full length, 3 ft. Figured 30 inches. Made in 8/18 and 12/22 marking; regularly furnished in 8/18. $59.00
No. 5-tier. Width, 1 1/8 inch. Full length, 3 ft. Figured 30 inches. Made in 8/18 and 8/22 marking; regularly furnished in 8/18. $59.00
Weights per doz.: Nos. 51 and 52, 15 lbs. No. 58, 18 lbs.
NOTE—Steel Board Rules are furnished only in the above markings.

COMBINATION BOARD AND LOG RULES
Burnt Figures. Oval Head.

These, while flexible hickory rules identical in pattern with Board Rules, carry both board and log measurements. All are marked for 12, 10, 14 and 16 foot lengths on both sides; one side board measure, other side log scale. They are made with Doyle, Scribner, Doyle-Scribner or Decimal C Log Scale Markings, though regularly carried in stock in Doyle Scale and so supplied unless otherwise specified.

No. 13
4-tier. Width, 1 1/4 inch. Full length, 3 1/2 ft. Figured 30 inches. Made in 8/18 and 12/22 marking; regularly furnished in 8/18. $35.00
Heavy brazed head (steel cap and 1/2 inch brass shoulders).

No. 13 1/4
4-tier. Width, 1 1/4 inch. Full length, 3 3/4 ft. Figured 30 inches. Made in 8/18 and 12/22 marking; regularly furnished in 8/18. $37.00
Heavy brazed head (steel cap and 1/2 inch brass shoulders).
Weights per doz.: Nos. 13, 61/4 lbs.; No. 13 1/4, 7 1/4 lbs.
NOTE—Combination Board and Log Rules can be supplied in special markings.

SQUARE HEAD BOARD RULES
Must Be Specified If Wanted.

We stock and supply without extra charge any of our Board Rules, hickory or steel, and Combination Board and Log Rules, with square head. The square heads are of same construction as the oval, differing only in that the steel cap is of oblong shape (commonly known as square). The oval head is by far more popular of the two and is therefore, always furnished unless the square is specified. (The socket steel square head of No. 4 Board Rule is of different, cheaper, construction than those referred to above.)
HICKORY LOG RULES

Burnt Figures.

Used in determining the contents of logs in board measure. These rules are of selected second growth hickory, clear, tough stock. The heads are of good proportions, strong and securely attached. The handles are of the wedge type, nicely formed. The figures are large and markings and figures are burnt, making them permanent and most legible. The rules are well finished.

Log Rules are here catalogued in all the various patterns, in the scales and combination of lengths that have become standard through long use. (For further details on Log Rules see page 159.)

Scales And Markings Of Rules On This And Opposite Page (except No. 14X.)

Regular Scales (carried in stock):

- Doyle
- Scribner
- Doyle-Scribner

(Rules made also in Scribner-Doyle, Decimal A and B scales, no extra charge.)

Regular Markings:

- 8/20...for scaling 8, 10, 12, 14, 16, 18 and 20 feet logs.
- 12/24...for scaling 12, 14, 16, 18, 20, 22 and 24 feet logs.

Always Specify Log Scale and Marking, as

- Doyle 8/20
- Doyle 12/24
- Scribner 8/20
- Scribner 12/24, Etc.

No. 14

Square Head Log Rule. Per doz. $33.60
Figure 48 inches, 6-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz. 10 1/2 lbs.

No. 15

Square Head Log Rule. Per doz. $28.80
Figure 48 inches, 6-inch handle. Full length 3 1/2 ft.
Specify scale and marking, see top of page. Weight doz. 8 lbs.

No. 22

T-Head Log Rule. (Wisconsin Pattern.) Per doz. $33.60
Figure 48 inches, 6-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz. 10 1/2 lbs.

No. 22½

T-Head Log Rule. (Wisconsin Pattern.) Per doz. $28.80
Figure 36 inches, 6-inch handle. Full length 3 1/2 ft.
Specify scale and marking, see top of page. Weight doz. 8 lbs.

No. 19

Plain Head Log Rule (end brass capped). Per doz. $31.20
Figure 48 inches, 6-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz. 8 lbs.

No. 20

Plain Log Rule, No Head. Per doz. $26.40
Figure 48 inches, 6-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz. 7 1/2 lbs.

NOTE—For these rules in other log scales than mentioned above, or carrying other lengths than 8/20 or 12/24, an extra charge is made.

For Tree Tapes, see page 19.

HICKORY LOG RULES

For General Description Of These Rules, Their Scales And Markings, See Top Page 154.

No. 10½

Flat Steel Hook Log Rule. Hook extends 3 1/2 inches. Per doz. $35.40
Figure 48 inches, 6-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top page 154. Weight doz. 10 1/2 lbs.

No. 16

Hook Log Rule. Per doz. $33.60
Figure 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top page 154. Weight doz. 10 lbs.

No. 21

Pick And Hook Head Log Rule. Per doz. $36.00
Figure 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top page 154. Weight doz. 10 1/2 lbs.

No. 14X

Minnesota Standard Log Rule. Per doz. $33.60
Figure 48 inches; no handle. Square steel head. Handle and brass capped.
Specify scale and marking, see top page 154. Weight doz. 9 lbs.

NOTE—For rules No. 16½, 16 and 21 in other than our regular log scales, or carrying other lengths than 8/20 or 12/24, extra charge is made.

United States Forest Service pattern head can also be supplied on our Log Rules. This is a flat steel, double or T hook, extending about 3/4 inch from each edge of rule. Price, same as No. 21 rule.
ROSE TOOLS, INC.

HICKORY LOG RULES
Burnt Figures.

FLAT LONG HOOK LOG RULES
Always Specify
Log Scale and Marking

These are same pattern as No. 16 1/2, page 155, but
with steel hook 12 inches long and
rules having capacity for large diameters (48, 60 and 72
inches, respectively).

Regularly Carried In Stock In The Standard Scales And
Markings, i.e., Doyle, Scriber, Doyle-Scriber and Deci-
mal C Scales, and Marked For 8/20 or 12/24 Foot Lengths.

Inches One Edge.

| No.  | Log Rule         | Figured 48 inches, 8-inch handle | 12 lbs.  | $40.00
|------|------------------|----------------------------------|---------|-------
| 1604 | Full length 4 ft. 8 in. |                        |         |       |
|      | Specifying scale and marking, see above. |        |         |       |

| No.  | Log Rule         | Figured 60 inches, 8-inch handle | 15 lbs.  | $45.00
|------|------------------|----------------------------------|---------|-------
| 1605 | Full length 5 ft. 8 in. |                          |         |       |
|      | Specifying scale and marking, see above. |        |         |       |

| No.  | Log Rule         | Figured 72 inches, 8-inch handle | 18 lbs.  | $51.00
|------|------------------|----------------------------------|---------|-------
| 1606 | Full length 6 ft. 8 in. |                        |         |       |
|      | Specifying scale and marking, see above. |        |         |       |

NOTE—For above rules in other than our standard log scales, or carrying
other lengths than 8/20 or 12/24, an extra charge is made.

PACIFIC COAST SQUARE LOG RULES
For Large Timber

These rules were especially designed for scaling long
timber of large diameter. They are one of the types widely
used on the Pacific Coast of North America. The size
and construction make them extra sturdy. Rules are 3/4 inch
square, figured full length. Forged steel hook 12 inches
long (known as Seattle Pattern).

Scale And Marking

These rules are regularly marked only in Scriber Scale,
and marked to scale even length logs from 20 to 48 feet
inclusive.

(One row of inches. Four tiers on each side.)

| No. | 5-ft. Log Rule With Seattle Hook | 23 lbs.  | $81.00
|-----|----------------------------------|---------|-------
| 1705 |                                      |         |       |

| No. | 6-ft. Log Rule With Seattle Hook | 26 lbs.  | $87.60
|-----|----------------------------------|---------|-------
| 1706 |                                      |         |       |

| No. | 7-ft. Log Rule Without Hook (plain end) | 26 lbs.  | $94.40
|-----|------------------------------------------|---------|-------
| 1715 |                                          |         |       |

| No. | 8-ft. Log Rule Without Hook (plain end) | 33 lbs.  | $104.00
|-----|------------------------------------------|---------|-------
| 1716 |                                          |         |       |

NOTE—For Pacific Coast Log Rules marked other than Scriber 20/48,
extra charge is made.

FLEXIBLE HICKORY LOG RULES

These are thin and flexible, like Board Rules, but carry regular log scale
markings. Burnt figures. All are 1 1/2 inch wide and have board rule style
6-inch wedge handle.

Nos. 27 and 28 are without head, simply having brass cap over end,
extending one inch on each side of rule.

Nos. 29 and 30 regularly have oval head, of same type as Board Rules
(steel cap and 1 1/2 inch brass shoulders). These can be furnished
with square head at same price.

SCALES AND MARKINGS

Flexible Log Rules are carried in stock in the following scales:

- Doyle
- Scriber
- Doyle-Scriber
- Decimal C

Flexible Log Rules are regularly marked one side inches and log scale for 12, 14,
16 ft; other side 18, 20, 22 and 24 ft lengths.

Always Specify Log Scale

| No. | Rule Without Head (capped) | Length 42 in., figured 36 in. | 5/4 lbs. | $46.80
|-----|-----------------------------|-------------------------------|---------|-------
| 27  |                             |                               |         |       |

| No. | Rule Without Head (capped) | Length 48 in., figured 42 in. | 6/8 lbs. | $59.00
|-----|-----------------------------|-------------------------------|---------|-------
| 28  |                             |                               |         |       |

| No. | Rule With Oval Head        | Length 42 in., figured 36 in. | 5/4 lbs. | $46.00
|-----|-----------------------------|-------------------------------|---------|-------
| 29  |                             |                               |         |       |

| No. | Rule With Oval Head        | Length 48 in., figured 42 in. | 6/8 lbs. | $59.00
|-----|-----------------------------|-------------------------------|---------|-------
| 30  |                             |                               |         |       |

NOTE—Flexible Log Rules in other scales and log lengths than mentioned
above, but having not more than 6 tiers, no extra charge.

LOG CALIPERS

These are a log rule in caliper form. They will measure diameter and scale
the board feet in standing trees, also
logs where a measurement across the
cannot readily be taken. Made of
hard maple. Beam has burnt figures.
Jaws are brass capped. Sliding jaw
has set screw and is brass lined. Log
Calipers are made to order only.

Always Specify Log Scale And Log Lengths.

| No. | Log Caliper (standard type) | Weight each, 3 1/2 lbs. | Price, each | $30.00
|-----|-----------------------------|------------------------|------------|-------
| 25  |                             |                        |            |       |

NOTE—Calipers marked inches only, price same as above.

Calipers with more than 8 tiers or with beam over 48
inches long, prices on application.

BILTMORE OR FOREST CRUISER STICK
(Merritt Hypsometer)

Gives Height And Diameter Of Standing Trees.

This stick is used by the United States Forest Service, by forestry schools and others
in reconnaissance estimates of timber tracts. In addition to diameter and height scales it
has Decimal C Log Scale values for 16-ft. logs and a tier of regular inch markings.
Made of hard maple. 37 13/16 inches long, 5/8 inch thick. 1 inch wide, with one sloping
face. Heavy cast brass ferrule at each end. Instructions for use accompany each stick.

| No. | Biltmore Stick | Weight each, 1/2 lbs. | Price, each | $6.00
|-----|----------------|---------------------|------------|-------
| 55  |                |                     |            |       |

The price below covers the following, which we know as the standard type:

Beam: Figured 48 inches.
Jaws: 26 inches long.
Log Scale: Any scale for which we have figures.
Markings: Most commonly 12/24 feet and one row
inches, though regular price applies for any 8
log lengths (fibers)

| No. | Log Caliper (standard type) | Weight each, 3 1/2 lbs. | Price, each | $30.00
|-----|-----------------------------|------------------------|------------|-------
| 25  |                             |                        |            |       |

NOTE—Calipers marked inches only, price same as above.

Calipers with more than 8 tiers or with beam over 48
inches long, prices on application.

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Made of hard maple. 37 13/16 inches long, 5/8 inch thick. 1 inch wide, with one sloping
face. Heavy cast brass ferrule at each end. Instructions for use accompany each stick.

| No. | Biltmore Stick | Weight each, 1/2 lbs. | Price, each | $6.00
|-----|----------------|---------------------|------------|-------
| 55  |                |                     |            |       |
SPRING JOINT BOARD RULE
With Folding Hook.

Just the thing for the man who occasionally scales lumber; takes the place also as a pocket board scale card, and at the same time is as handy as any rule for common linear measuring. The folding end hook serves the purpose of board rule head and is handy for all measuring work. The rule is of hardwood, 5/8 inch wide, folds to 6 inch length, is light weight and convenient to carry in the pocket. Brass plated trimmings.

MARKINGS.
Regular board measure; one side for 8, 10 and 18 foot, other side for 12, 14 and 16 foot lengths. The 12 ft. tier, being regular inch measurement, is subdivided to 8ths of inches for general measuring purposes.

Three-Foot Yellow Enamelled. Concealed Joints.

No. 523 Spring Joint Board Rule......................... Per Dz. $5.40

Packing: 1/4 doz. in a box.
Weight per doz. 1/8 lbs.

SPRING JOINT LOG RULE
With Doyle Log Scale And Folding Hook.

This rule is particularly adapted for use by traveling scalers or loggers having a limited amount of scaling to do, as it is light and compact, and when folded fits nicely in the pocket. While serving a purpose similar to that of the common hickory log rule, giving the same results in board feet, this is not a substitute for that article or of a style as well adapted to the usual run of log scaling. The folding end hook serves as log rule head and is handy in all measuring. The rule is of hardwood, 5/8 inch wide, folding to 6 inch length. Trimmmings are brass plated.

MARKINGS.
Furnished In Doyle Log Scale Only. Will measure diameters up to 45 inches. Marked one side for 12, 14, 16 foot logs, other side for 10 and 18 foot logs and, on lower edge, one row inches to 16ths for general measuring.

Four-Foot Yellow Enamelled. Concealed Joints.

No. 524 Spring Joint Doyle Log Rule....................... Per Dz. $6.00

Packing: 1/4 doz. in a box.
Weight per doz. 2 lbs.

MISCELLANEOUS INFORMATION ON LOG RULES,
LOG SCALES AND MARKINGS

8/20 Log Rules:
Carry on one side scale for 8, 10, 18 ft.; other side 12, 14, 16 ft.; one edge 20 ft.; other edge inch marking.

12/24 Log Rules:
Carry on one side scale for 12, 14, 16 ft.; other side 18, 20, 22 ft.; one edge 24 ft.; other edge inch marking. (Except Decimal C Rules, which have 18 ft. tier on edge.)

Dimensions:
Standard type flat log rules are approximately 1/4 inch thick, 1 1/2 inch wide.

Inches only on Log Rules:
We supply any of our log rules in inch marking only, at regular price of stock rules. Such rules are used to determine log diameters.

Odd and Unusual Log Lengths:
We are equipped to supply, at an extra charge, rules marked for certain log lengths other than the regular combinations catalogued.

Special Log Scales:
At an extra charge we supply Log Rules in special scales for which we are equipped. For such scales, of which there are many, there is but a limited demand. Among the more familiar are Favorites, Devant-Herring, British Columbia, Columbia River and Vermont Scales.

Decimal Log Scales:
The Decimal Scale is based on Scribbler. It drops the units and takes the tens, thus: Scribbler gives a 12-inch log 16 feet long 79 feet; Decimal Scale makes it 80 feet and is expressed on the rule with the figure 8 only. There are in use three different computations of the Decimal Scale below 12 inches, i.e., Decimal A, B and C. The Decimal C Scale is the only one of the three widely used. It is the official standard of the United States Service and the legal standard in the State of Wisconsin.

Comparison Of Log Scales:
A printed table giving values of a 16-foot log in twelve different log scales will be sent on application.

Tree Tapes:
For these, see page 19.

MARKING STICK FOR LUMBER CRAYONS

A convenient holder adapted to all regular lumber crayons, and made to hold them firmly. Crayon Holder is of brass, nickel plated; handle of wood, well finished.

Marking Stick (crayon holder with handle, 36 in. long).............. Weight Dz. Per Dz.
Crayon Holder Only (without handle).................. 7 1/2 lbs. $16.00

BRASS DIP ROD

For measuring diameter of logs, especially when logs are lying in water. Made of hard brass, 6 x 3/16 inch, well finished. Has 1 1/2 inch hook and wood handle. Plaine marked on the two sides 32 inches to half-inches. Overall length, 38 inches.

Weight per doz. 12 lbs. Price per doz............... $54.00
ROSE TOOLS, INC.

LUMBER GAGES

For measuring thickness of lumber, Made of brass, nickel plated; a substantial article.

<table>
<thead>
<tr>
<th>No.</th>
<th>For Measuring Thicknesses</th>
<th>Weight</th>
<th>Price Per Doz.</th>
</tr>
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<tbody>
<tr>
<td>00</td>
<td>1/8, 1/16, 1/32, 1/32, 1/32, 1/16, 1/32, 1/32, 1/16, 1/32 and 2 inch.</td>
<td>18 oz.</td>
<td>$7.20</td>
</tr>
<tr>
<td>000</td>
<td>1/16, 1/32, 1/4, 1/8, 1/16, 1/2, 2 and 2/3 inch</td>
<td>24 oz.</td>
<td>8.40</td>
</tr>
</tbody>
</table>

Packing: One in a box.

BEADED BOOT CALKS

For log drivers. Forged from best crucible steel.

<table>
<thead>
<tr>
<th>No.</th>
<th>Approximate Length</th>
<th>Weight per 1000</th>
<th>Price per 1000</th>
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</thead>
<tbody>
<tr>
<td>000</td>
<td>5/8 inch</td>
<td>21/4 lbs.</td>
<td>$5.85</td>
</tr>
<tr>
<td>0</td>
<td>3/8 inch</td>
<td>23/4 lbs.</td>
<td>5.85</td>
</tr>
<tr>
<td>1</td>
<td>6/8 inch</td>
<td>21/2 lbs.</td>
<td>5.85</td>
</tr>
<tr>
<td>2</td>
<td>1 inch</td>
<td>2 lbs.</td>
<td>5.85</td>
</tr>
<tr>
<td>3</td>
<td>1 1/8 inch</td>
<td>2 1/2 lbs.</td>
<td>5.85</td>
</tr>
</tbody>
</table>

Packing: All sizes except No. 1, 100 in a box; 2000 in a carton; No. 3 calks, 50 in a box, 500 in a carton.

BOOT CALK SETS

Hexagon in shape and of high grade hardened steel. Length overall, 4 1/2 inches; diameter, 1/2 inch.

<table>
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<th>No.</th>
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<th>Weight per doz.</th>
<th>Price</th>
</tr>
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<td>1</td>
<td>1, 2 &amp; 3 calks</td>
<td>$8.00</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0 calks</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>000</td>
<td>000 calks</td>
<td>8.00</td>
<td></td>
</tr>
<tr>
<td>000</td>
<td>000 &amp; 000L calks</td>
<td>9.00</td>
<td></td>
</tr>
</tbody>
</table>

Packing: 1 1/2 doz. in a box.

CALC SET AND PUNCH COMBINED

The combined calk set and punch is round and of tempered steel.

<table>
<thead>
<tr>
<th>No.</th>
<th>Length</th>
<th>Weight</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>4 inch</td>
<td>2 1/2 lbs.</td>
<td>$8.40</td>
</tr>
</tbody>
</table>

Packing: 1 doz. in a box.

ADVERTISING SPECIALTIES

Aids To An Increased Business.

If Interested, Send For Advertising Specialty Catalog No. 7.

Quite apart from our regular stock goods, but of the same general patterns and same high quality, we offer a variety of Pocket Tapes, Steel and Wood Rules for advertising purposes, i. e., bearing advertising matter upon them and intended for use as direct publicity mediums.

Pocket Tapes and Rules are most effective articles for this purpose. Their greatest appeal lies in their general usefulness. Further than this, they are a neat, compact article that everyone is pleased to carry, are moderate in price, durable, and bear the advertising attracively. They keep the advertiser's name prominently before the recipient for years. On some of our items trade marks and designs can be reproduced.

In both Tapes and Rules we confine ourselves to the better grades, articles that are really serviceable. We do not turn out tapes with celluloid or similar cases, nor do we manufacture common advertising yard sticks and school rulers.

Above are shown but a few of the items in our line. If you are thinking of distributing a novelty to your trade, or could interest any of your customers in something of this kind, write for particulars.

Catalog No. 7 is a 32-page booklet devoted entirely to this branch of our business.
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ROSE TOOLS, INC.

All letter suffixes applying to stock numbers below, such as D, M, EM, and others, are not here listed, but items carrying such numbers will be found on page here shown opposite the number: i.e., tape No. 260D is on page indicated for stock No. 260, etc.
ELECTROTYPES

Electrotypes of our goods, suitable for printing on any grade of paper, are promptly and gladly supplied without charge to jobbers and dealers. We urge upon our trade their liberal use in catalogs, circulars, newspapers and all other forms of advertising.

Our standard large size electrotypes are 3 inches overall, longest way; our reduced size, 1 1/2 inches long; both as shown above. Of most items we have also intermediate sizes.

Ours are faithful reproductions. To insure clear-cut, attractive illustrations we furnish only new electrotypes, and therefore, it is unnecessary to return them.

COPY SERVICE

For the benefit of those who catalog Lufkin goods, we maintain a catalog copy service. In that department, dummies are arranged or complete copy prepared, ready for the printer, supplied with electrotypes numbered so that they can be most readily identified. This expert service insures the most intelligent and attractive showing of the goods.

TRADE MARKS

Our trade marks and trade names are duly registered in domestic and foreign patent offices.

PACKING

We use nothing but strong, new shipping boxes, well strapped, so the goods reach the customer in best condition. Most of our items are put up in individual boxes. All of our boxes have been standardized, and, together with their colored labels, also uniform, they make most attractive packages.

CATALOGS, ETC., ISSUED

In addition to this GENERAL CATALOG No. 11, we issue the following:

Small Tool Division Catalog.
(Confined to Mechanical Tools, as Section Three of this Catalog.)

Circulars on Display Cases with Assortments.
(Showing attractive Display Cases we offer carrying assortments of various lines of our goods.)

Catalog of Tailors Squares, Measuring Sticks, etc.
(Confined to Tailors Squares, Measuring Sticks and Tapes such as are used by the tailoring and clothing trades.)

General Catalog in Spanish.

Advertising Specialty Catalog.
(Covering such Pocket Tapes, Steel and Wood Rules as we make bearing customer's advertising imprint. Further details, page 161.)