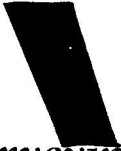


DRAWING MATERIALS

*Surveyors' and
Engineers'
Instruments
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J. H. WEIL & CO.
PHILADELPHIA

WEILCO



Surveying Instruments
Drawing Materials
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School Supplies
and Stationery

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J. H. WEIL & COMPANY



The Home of J. H. Weil & Co.
DRAWING MATERIALS, BLUE AND BROWN PRINT PAPERS, REPRODUCTIONS
SURVEYING INSTRUMENTS

MANNHEIM SLIDE RULES

- | | |
|--|------|
| No. 1148—Mannheim Rule, 5" in sewed leather case \$ | Each |
| No. 1149— " " 8" in sewed leather case | |
| No. 1150— " " 10" in stiff black covered case..... | |
| No. 1150S—In sewed leather case..... | |
| No. 1151—Mannheim Rule, 16" in stiff black covered case..... | |
| No. 1151S—In sewed leather case..... | |
| No. 1152—Mannheim Rule, 20" in stiff black covered case..... | |
| No. 1152S—In sewed leather case..... | |

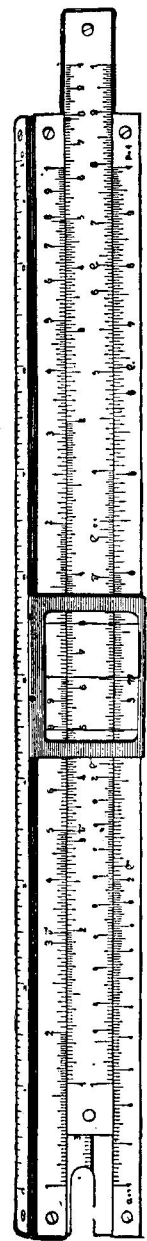
**"WEILCO"
MULTIPHASE
ADJUSTABLE SLIDE RULE**

The "Weilco" Multiphase Slide Rule has in addition to the regular scales of the Mannheim, a scale of cubes and an inverted scale CI, which may readily be used in connection with the other scales by means of the indicator. The inverted scale enables the operator to take three factors at the same setting of the slide, and to read reciprocals by means of the indicator.

Almost any combination of three factors involving squares, square root, cubes and cube root may be solved at one setting of the slide.

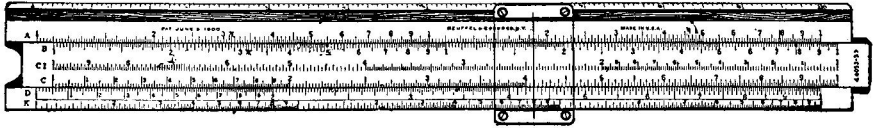
- | | |
|--|------|
| No. 1153—"Weilco" Multiphase Slide Rule, 5" with glass indicator, in case with directions \$ | Each |
| No. 1154—"Weilco" Multiphase Slide Rule, 10" with glass indicator, in case with directions. | |

Similar to illustration No. 1155, next page.



No. 1150

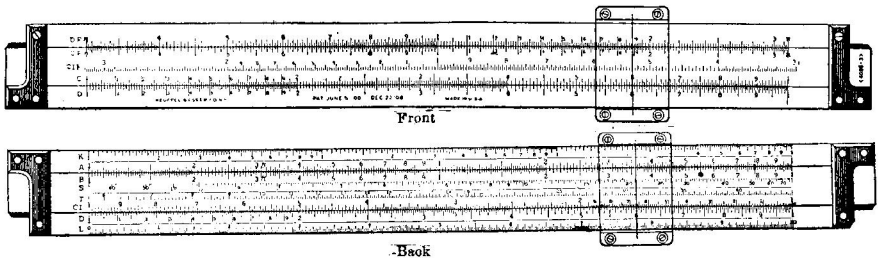
POLYPHASE RULES



No. 1155

- No. 1155-2S—Polyphase Rule, 8" in sewed leather case..... Each \$
- No. 1155-3— " " " 10" in black covered case..... Each
- No. 1155-3S—In sewed leather case..... Each
- No. 1155-5—Polyphase Rule, 20" in black covered case..... Each
- No. 1155-5S—In sewed leather case..... Each

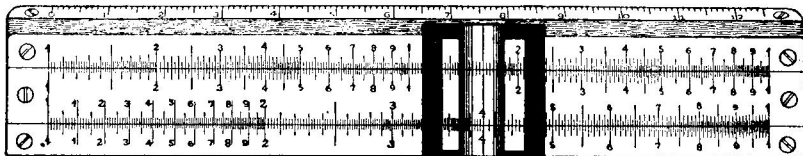
POLYPHASE DUPLEX SLIDE RULES



No. 1156

- No. 1156-1S—Polyphase Duplex Rule, 5" in sewed leather case..... Each \$
- No. 1156-2S— " " " 8" in sewed leather case..... Each
- No. 1156-3— " " " 10" in stiff black covered case, Ea.
- No. 1156-3S—In sewed leather case..... Each
- No. 1156-5—Polyphase Duplex Rule, 20" in stiff black covered case, Each
- No. 1156-5S—In sewed leather case..... Each

SLIDE RULES



No. 1158

The "Junior" Slide Rule combines the accuracy of a regular 10-inch rule with the convenience afforded by its compactness and portability. The "Junior" is 5½ inches long, 5-16 inch thick, 1 inch wide and weighs only 1½ oz., but ranks in accuracy and reliability with the larger rules. The construction of this rule embodies all the improvements and advantages of our Junior Rules, the ultimate subdivisions are as fine as those in the regular 10-inch rules and by means of a powerful, yet compact and convenient magnifying indicator, their value is easily ascertained with the same percentage of accuracy as can be obtained by the 10-inch rules.

No. 1158—Junior Slide Rule, 5-inch, engine divided, divisions on white facings, magnifier indicator, in sewed leather case, with directions.....Each \$

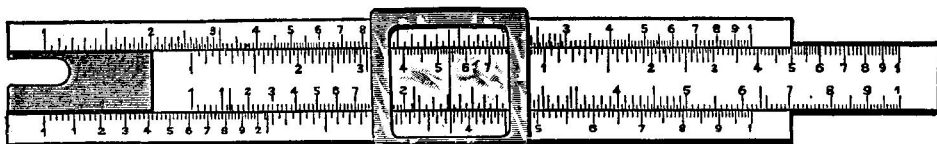


Illustration Shows Actual Size

No. 1160

No. 1160—"Weilco" Midget Slide Rule, 4" long, Mannheim graduations, vest pocket size in case. "The Engineer's Pocket Companion." Each \$

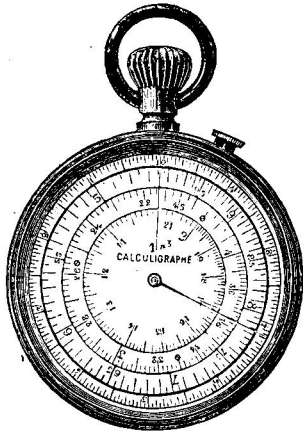
No. 1161—Same as No. 1160, but in leather case.....Each

STUDENT'S SLIDE RULE

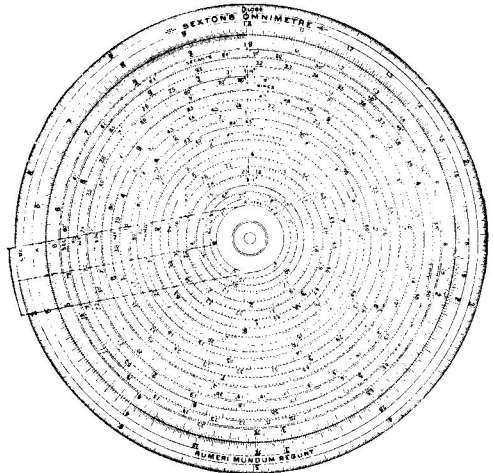
No. 1162—Student's Slide Rule, 10" (Mannheim), transparent celluloid cursor in case with directions.....Each \$

See Price List in back of Catalog.

BOUCHER CALCULATOR



No. 1167



No. 1168

The Boucher Calculator is made in form of a stem winding watch. Compound calculations can be performed easily by means of the two pointers, operated by the "Stemwinder" and acting simultaneously on both dials.

No. 1167—Boucher's Calculator, silvered dial, with directions..... Each \$

SEXTON'S OMNIMETRE

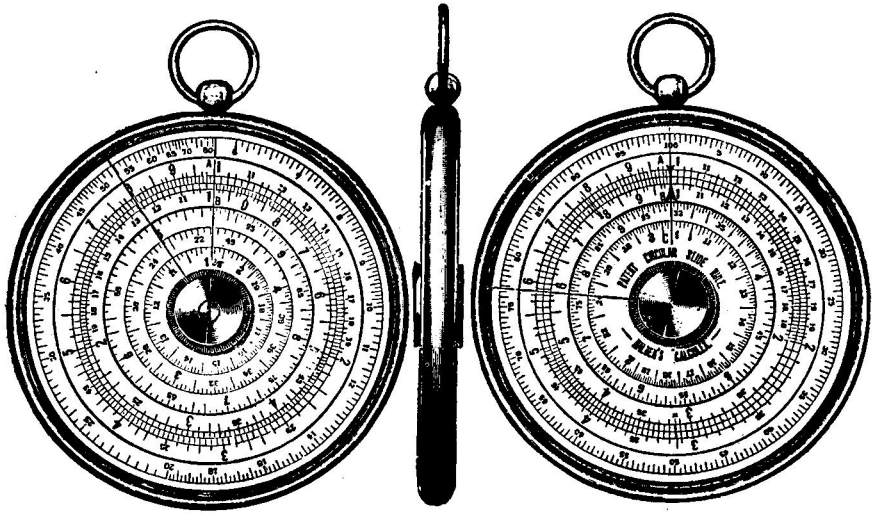
No. 1168—Sexton's Omnimetre No. 3, diam., 7 inches, non-absorbent Bristol board discs, readings from hair-lined runner. Lower disc perforated to facilitate manipulation. Milled nut to clamp disc in position when required. Character of graduations gives increased ease of reading. Additional functions, fifth powers and fifth roots..... Each \$

FULLER'S SPIRAL SLIDE RULE

No. 1170—Fuller's Spiral Slide Rule, in mahogany box, with directions \$ Each

This calculating instrument is the simplest made, and facilitates very greatly the numerous arithmetical calculations required in the office of the engineer, architect and actuary.

THE IMPROVED HALDEN CALCULEX



Back Face

No. 1172

Front Face

No. 1172—Improved Halden Calculex, watch pattern, diameter $2\frac{3}{8}$ inches, in leather case, with book of rules..... \$

The Improved Halden Calculex is the most practical and durable circular slide rule manufactured. It consists of a metal disc, graduated and glass-covered on both sides. The central section of the disc and the glass covers (marked with hairlines) are revolvable.

There are eleven scales on the two faces of the instrument. The front face (see cut) has five circles of scales: The outer one, or No. 1, is a scale of logarithms; Nos. 2 and 3 are the calculating scales A and B; Nos. 4 and 5 are the square roots of scale B. The back face (see cut) shows six circles of scales: The outer one, or No. 6, is a scale of angles; Nos. 7 and 8 are calculating scales for inverse proportions; Nos. 9, 10 and 11 are cube roots of scale B.

The log. of a number, squares, square roots, cubes, cube roots, angles, etc., can be found by reading direct from the hairlines without moving the dial. By means of the reciprocal scale, such calculations as $3.15 \times 5.85 \times 4.25$ may be solved in one setting.

As the graduated disc of the Calculex is made of metal, it cannot warp or shrink; consequently, the scales retain their accuracy. The simple construction makes the instrument easy to operate, and, as there are no knobs, keys or gears used, it cannot get out of order.

Cat. Page 87—Continued

EXTENSION RULES

	Each
No. 1135—4'.....	\$1.75
" 1136—6'.....	2.00
" 1137—8'.....	2.25
" 1138—10'.....	3.00
" 1139—12'.....	3.50

FOLDING STEEL POCKET RULES

Including Leather Case

	Each
No. 1145A—1'.....	\$0.65
" 1145B—2'.....	1.20
" 1145C—3'.....	1.75

Cat. Page 88.

THE FARRAND RAPID RULE

	Each
No. 1146A.....	\$5.00
" 1146B.....	5.00
" 1146C.....	5.00
" 1146D.....	5.00
" 1146E.....	3.75
" 1146F.....	3.75
" 1146G.....	4.00

Cat. Page 89.

MANNHEIM SLIDE RULES

	Each
No. 1148—5".....	\$ 5.50
" 1149—8".....	6.20
" 1150—10".....	5.50
" 1150S.....	6.35
" 1151—16".....	13.00
" 1151S.....	14.50
" 1152—20".....	14.00
" 1152S.....	15.50

**WEILCO MULTIPHASE
ADJUSTABLE SLIDE RULE**

	Each
No. 1153.....	\$5.00
" 1154.....	6.25

Cat. Page 90.

POLYPHASE RULES

	Each
No. 1155-2S.....	\$ 6.95
" 1155-3.....	6.25
" 1155-3S.....	7.10
" 1155-5.....	16.00
" 1155-5S.....	17.50

POLYPHASE DUPLEX SLIDE RULES

	Each
No. 1156-1S.....	\$ 8.50
" 1156-2S.....	9.20
" 1156-3.....	8.50
" 1156-3S.....	9.35
" 1156-5.....	20.00
" 1156-5S.....	21.50

Cat. Page 91.

SLIDE RULES

	Each
No. 1158—Junior Slide Rule.....	\$5.00
" 1160—Weilco Midget Slide Rule.....	3.50
" 1161.....	4.50
" 1162—Student's Slide Rule.....	1.00

Cat. Page 92.

BOUCHER CALCULATOR

	Each
No. 1167.....	\$10.00
" 1168—Sexton's Omnimetre No. 3.....	4.00

FULLER'S SPIRAL SLIDE RULE

	Each
No. 1170.....	\$38.00

Cat. Page 93.

**THE IMPROVED HALDEN
CALCULEX**

	Each
No. 1172.....	\$7.50

Cat. Page 94.

THICKNESS GAUGE

	Each
No. 1186.....	\$10.75
" 1187.....	11.25

PAPER TESTER

	Each
No. 1188—Paper Tester.....	\$35.00
" 1189—Calfskin Case (extra).....	2.00

Cat. Page 95.

PARALLEL RULES

	Each
No. 1190—6".....	\$12.25
" 1192—12".....	1.75
" 1193—15".....	1.90
" 1194—18".....	2.75
" 1195—24".....	4.00

ROLLING PARALLEL RULES**Ebony Rolling Parallel Rules**

	Each
No. 1211—12".....	\$5.00
" 1212—15".....	6.00
" 1213—18".....	7.50

Rolling Parallel Rule, Solid Brass

	Each
No. 1221—12".....	\$15.00
" 1222—15".....	17.50
" 1223—18".....	20.00
" 1224—24".....	26.50

Cat. Page 87—Continued

EXTENSION RULES

	Each
No. 1135—4'.....	\$1.75
" 1136—6'.....	2.00
" 1137—8'.....	2.25
" 1138—10'.....	3.00
" 1139—12'.....	3.50

FOLDING STEEL POCKET RULES

Including Leather Case

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Cat. Page 88.

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" 1152—20".....	14.00
" 1152S.....	15.50

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" 1156-5S.....	21.50

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Cat. Page 92.

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" 1189—Calfskin Case (extra).....	2.00

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" 1224—24".....	26.50