Catalog
No. 38A
EUGENE DIETZGEN CO.
ESSENTIAL DRAWING INSTRUMENTS and MATIONALS

BRANCHES
CHICAGO
2413 Sheffield Ave.
NEW YORK
218 E. 23rd St.
NEW ORLEANS
316 Camp St.
PITTSBURGH
808 Liberty Ave.
WASHINGTON
407 Tenth St., N. W.
MILWAUKEE
611 N. Broadway
LOS ANGELES
945 S. Broadway
FACTORY AT CHICAGO
Cable Address: Analytis, New York

SAN FRANCISCO
523 Market St.
PHILADELPHIA
1627 Sansom St.
contains a listing of the essential drawing instruments and materials in popular use.

The Drawing Instruments listed show only the larger and more complete sets of our various grades, arranged in a convenient manner for your easy selection of the grade best suited to your respective needs.

Further information regarding our line or literature on specific items will be supplied promptly upon request at our nearest branch.

Quality is a heritage at Dietzgen. Since our inception over a half century ago, we have adhered faithfully to the policy of the founders, "Enduring Worth at Reasonable Cost." This policy has earned a wealth of friends in every part of the world. It has made the name Dietzgen synonymous with quality and honest value everywhere.

Our prices are and will continue to be the lowest, consistent with the selected stock and the unsurpassed workmanship that enters into all of our products.

The strategic locations of Dietzgen branches also offer very definite advantages to the buyer. Your orders will be promptly filled from offices in Chicago, New York, San Francisco, New Orleans, Pittsburgh, Los Angeles, Philadelphia, Washington and Milwaukee—also from progressive dealers in all principal cities in the United States, Canada, Mexico, and elsewhere.

**EUGENE DIETZGEN CO.**

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Section 1

**DRAWING PAPERS**

**NAPOLEON PAPERS**

- **No. 5.** Napoleon Cold Pressed Drawing Paper. Thick. A hard, smooth, pure white paper. High rag content and uniform surface, specially adapted for fine line drawings. Of great strength and durability. Perfect erasing qualities. Highest grade for school use. Sold in reams or quires.
  - 19 × 24 in, Ream, $1.00  22 × 30 in, Ream, $1.25  27 × 40 in, Ream, $1.18

  - 19 × 12 in, Ream, $1.90  22 × 18 in, Ream, $2.50  22 × 30 in, Ream, $1.80

- **No. 6B.** Stratton Detail Drawing Paper. Thick. Otherwise like 6A. In reams and quires.
  - 19 × 12 in, Ream, $2.50  22 × 18 in, Ream, $2.50  22 × 30 in, Ream, $1.74

- **No. 8.** Rexton Drawing Paper. White. A strong, pure white paper with hard smooth surface. Excellent for fine line pen and pencil drawings. Very good erasing resistance. A reasonably priced paper especially suitable for school use. Sold in quires or reams.
  - 19 × 12 in, Ream, $1.80  22 × 18 in, Ream, $2.00  27 × 40 in, Ream, $1.50

- **No. 10.** Ultram Drawing Paper. White. Slightly grained surface. Excellent for school use. Sold in reams or quires.
  - 19 × 12 in, Ream, $4.40  22 × 18 in, Ream, $5.00  27 × 40 in, Ream, $2.50

  - 19 × 12 in, Ream, $2.90  22 × 18 in, Ream, $3.30  27 × 40 in, Ream, $1.30

  - 19 × 12 in, Ream, $3.40  22 × 18 in, Ream, $4.00  27 × 40 in, Ream, $1.60

- **No. 11.** Saxon Drawing Paper. Cream. Medium thick. A tough cream paper. Strong and durable and will withstand repeated erasing without mudging or tearing. Finely grained surface takes ink, pencil, and water color equally well.
  - 19 × 12 in, Ream, $4.60  22 × 18 in, Ream, $5.40  27 × 40 in, Ream, $2.80

- **No. 11A.** Burton Drawing Paper. Thick. Light cream color. High grade, slightly grained surface, strong, durable, and will stand erasing exceptionally well. Takes pencil, ink and water color. Sold in reams or quires.
  - 19 × 12 in, Ream, $6.30  22 × 18 in, Ream, $7.00  27 × 40 in, Ream, $3.80

  - 19 × 12 in, Ream, $5.40  22 × 18 in, Ream, $6.00  27 × 40 in, Ream, $3.00

  - 19 × 12 in, Ream, $4.20  22 × 18 in, Ream, $5.00  27 × 40 in, Ream, $2.50

**PRIOR'S SUBJECT TO CHANGE WITHOUT NOTICE**
EDCO ARTIST BOARDS

Each Sheet Embossed

Manufactured of high grade raw materials with a uniform tough surface free from blemishes, and of clear color. Usable on either side. In two surfaces.

Medium Surface
A finely grained surface adaptable to all media. Excellent results may be secured with pen, pencil, water color, tempera and washes.

- No. 16M-2. Edeo Artist Board. White. Two ply. Sheet size 22 x 30 in. 100 sheets, $10.40
- No. 16M-3. Edeo ** Three ** 22 x 30 ** 100 ** 16.20
- No. 16M-4. Edeo ** Four ** 22 x 30 ** 100 ** 23.00

Smooth Surface
A highly finished surface providing an excellent medium for pen and ink work.

- No. 165-2. Edeo Artist Board. White. Two ply. Sheet size 22 x 30 in. 100 sheets, $10.80
- No. 165-3. Edeo ** Three ** 22 x 30 ** 100 ** 16.20
- No. 165-4. Edeo ** Four ** 22 x 30 ** 100 ** 23.00

CHARCOAL PAPERS

Royal, 19 x 25 inches, Ream, $20.00 Quire, $1.00

SCHOOL DRAWING TABLETS AND SKETCH BLOCKS

Most convenient for sketching and water color work, put up in handy tablets, size 9 x 12 inches, with heavy cardboard backing, bound on one side only.

- No. 31. Union School Drawing Tablet. Made of No. 10 Union Drawing Paper, 9 x 12 inches, 16 sheets, heavy manila envelope with each tablet. Dozen, $6.00 Each, $.40
- No. 32. Toulon School Drawing Tablet. Made of No. 58 Toulon Drawing Paper, 9 x 12 inches, 16 sheets, heavy manila envelope with each tablet. Dozen, $7.50 Each, $.45

ENVELOPES FOR DRAWING PAPERS
Made of extra heavy, red rope paper, opening on long side.

- No. 40G. Envelopes for drawing paper, 12 x 16 in. Per 100, $8.00
- No. 40K. ** 12½ x 20 ** $10.00

DRAWING PAPERS IN ROLLS

No. 52B. Stratton Detail Drawing Paper. Buff. Thick. A buff detail drawing paper made of highest grade manila stock free of ground wood pulp. Especially made for drafting purposes. The high quality of material used gives excellent strength and folding properties. Has a fine grained surface, very good erasing resistance, and is suitable for ink and pencil drawings. Does not soil easily.

- Roll of 50 pounds — per pound, $0.17
- 10 yards — roll, $1.20
- 50 — — — — 4.20
- 100 — — — — 7.15

No. 55W. Mason Drawing Paper. Cream. Medium thick. Slightly grained surface. A cream paper with good erasing qualities. Of good strength with a slightly grained surface. Used extensively by schools, for though reasonably priced, it combines many qualities usually found only in better papers.

- Roll of 49-50 pounds — per pound, $0.27
- 49 yards — roll, $9.95
- 50 — — — — 11.30

Also in sheets, see No. 11T.

Section 2

TRACING CLOTH


- Roll of 24 yards
- 36 in. 36 in. 42 in. $17.50 $19.25 $23.75

Also available in 4 yd. rolls 36" wide.

15 x 20 in. 1 sheet on tube. Doz. Rolls, $3.00 Carton 50 Rolls, $12.50

18 x 24 1 4 20 50 17.50

Imperial Tracing Cloth. Blue. Imperial tracing cloth is a quality product of world renown, unsurpassed for its perfect merging of the factors vital to producing tracing cloth supremacy, viz: a heavy cloth superbly woven, clear transparency, excellent drawing surface, resistance to effects of age and use.

- Width 24 in. 30 in. 36 in. 38 in. 42 in. 48 in. 54 in.
- Roll of 24 Yds. $21.25 $22.25 $25.50 $27.75 $30.50 $38.75 $48.00

Prices Subject to Change Without Notice
TRACING PAPERS AND VELLUMS

All tracing papers are obtainable in 5 and 10 yard rolls. Minimum order sufficient to convert a complete standard roll into desired rolls. No minimum on Nos. 161 and 163 in 36-in. widths.

No. 161. Winson Trace Paper. Thin, White, fairly smooth surface. It has good strength for this type of paper and weight of paper, unusually good erasing qualities, and takes pencil well, as the type of surface does not necessitate constant sharpening of a soft pencil. It is extremely transparent. Reproductions are well preserved, and the careful use of kneaded erasers will prevent smudging. This paper is a great favorite in the drafting room as well as in the Artschools. Roll 50 yards, 36 in. $1.05. 60 in. $1.15.

No. 161M. Winson Tracing Paper, Medium, otherwise like No. 161. Roll 50 yards, 36 in. $1.30. 60 in. $1.50.

No. 163. Lepage's Tracing Paper. Thin, White, smooth but unglazed surface. It has an exceptionally strong, good erasing qualities and excellent tracing and blue lining transparency. It is suitable for both pencil and ink, and is especially adapted to pencil drawings and sketches of permanent. Rolls 50 yards, "Dietzgen Lepage." Width, 60 in. $2.00. 36 in. $1.50. 24 in. $1.00. 18 in. $0.60. 12 in. $0.35. 9 in. $0.20. 6 in. $0.10. 4 in. $0.05.

No. 167. Brison Bond Tracing Paper. Medium thick. A natural white, bond tracing paper. It has a moderately smooth, unglazed surface with the right amount of tooth to take pencil well. Because it is made of 100% clean rag stock, it is exceptionally strong and clear. This paper has extreme coating and folding strength, and will withstand any amount of rough handling. The erasing qualities are perfect. Brison Bond Tracing Paper is ideally adapted for fine detailed drawing of permanent nature in pencil or ink, and is equally adapted for color. It has good transparency, and will give "contrast" reproductions.

Roll 50 yards, 36 in. $2.10. 24 in. $1.25.

No. 173L. Milton Transparent Tracing Paper. Thin, a clear, white, transparent tracing paper, with a grain of fine tooth surface. It contains a high percentage of white wood, which gives it extreme transparency. The erasing qualities of this paper are exceptionally high. It takes pencil, ink, and color equally well. This paper has a high uniform transparency from which fine and exact reproductions may be produced. Milton Transparent Tracing Paper is ideal for detailed drawing and sketching. It is therefore, popular among architects and engineers.

Roll 50 yards, 36 in. $2.00. 24 in. $1.25.

No. 176M. Dependox Tracing Paper. Medium thin. A white, transparent tracing paper. This paper is ideal for general business and school work, and will stand more long wearing than No. 167. It maintains its transparency and reproduction qualities. Its heavier weight of loss of transparency, makes it an ideally suited paper for detailed drawing and sketching.

Roll 50 yards, 36 in. $2.50. 24 in. $1.50.

No. 183. Bolton Tracing Paper. Medium thin, Black tint. Uncoated surface. A strong tracing paper, thickness of black tint, with an uncoated surface. This paper has just the right amount of "tooth" to cause it to take pencil well, and is also adapted to india ink. It is very transparent and has perfect erasing qualities, permitting erasures without leaving a trace. It can be folded without leaving a crack that will appear in reproduction. This paper makes excellent reproductions from pencil and ink drawings. It is also most suitable for the blue printing of typed text and data to be reproduced in blue printing or other reproduction processes.

Roll 50 yards, 36 in. $2.75. 24 in. $1.50.

No. 185. Crafton Transparent Sketching Paper. Heavy, White. Fine tooth surface. A heavy, very transparent, white tracing paper with an excellent fine tooth surface. This paper is strong, and will not disintegrate with age. The erasing qualities of this paper are excellent. It makes perfect reproductions for accurately tracing fine line drawings, blue prints, or old originals. Crafton Tracing Paper is coated with oil or other transparentizing substances, being highly transparent and having unusual erasing qualities, fills a need long felt in the drafting room. This paper is highly recommended for all types of ink or oil color as well as pencil drawings.

Roll 50 yards, 36 in. $2.40. 24 in. $1.50.

TRACING PAPER SHEETS IN TUBES

All tracing vellums are obtainable in 5 and 10 yard rolls. Minimum order sufficient to convert a complete standard roll into desired rolls. No minimum on No. 190 in 36-in. widths.


Roll 50 yards, 36 in. $2.00. 24 in. $1.25.


Roll 50 yards, 36 in. $2.00. 24 in. $1.25.

TRACING VELLUMS

Miscellaneous Sheet Rolls

All tracing vellums are obtainable in 5 and 10 yard rolls. Minimum order sufficient to convert a complete standard roll into desired rolls. No minimum on No. 192 in 36-in. widths.

No. 192. Eton Tracing Vellum. Medium weight. Pure white, smooth surface. A perfect tracing vellum, made from 100% pure shade, white and starched. It is excellent for use on all types of reproductions. The white, high quality of this paper makes it highly suitable for making any type of reproductions.

Roll 50 yards, 36 in. $2.00. 24 in. $1.25.

No. 193L. Excelle Tracing Vellum. Thin. Pure white, Fairly smooth surface. A pure white, tracing vellum, made from 100% pure shade, white and starched. It is excellent for use on all types of reproductions. The black stock of this vellum made from 100% clean rag stock and is prepared for our perfect process. The erasing qualities are such that it is capable of being erased without leaving a "ghost" mark in the finished reproduction. The light weight affords excellent transparencies, and permits the smooth finish permits easy tracing and great strength in making all types of reproductions.

Roll 50 yards, 36 in. $2.50. 24 in. $1.50.

No. 191M and 193L are processed in a manner so that WE GUARANTEE THEM TO be colorless and to remain so. To absolutely retain their white color. Not to lose their transparency with age.

No. 194M. Lepage's Tracing Vellum. White. Medium weight. Fine-grained surface. It is made of 100% pure, clean white stock, and is exceptionally strong and transparent. Eton Tracing Vellum is processed in a manner that will not disintegrate with age. The erasing qualities are excellent. It makes perfect reproductions for accurately tracing fine line drawings, blue prints, or old originals. Crafton Tracing Paper is coated with oil or other transparentizing substances, being highly transparent and having unusual erasing qualities, fills a need long felt in the drafting room. This paper is highly recommended for all types of ink or oil color as well as pencil drawings.

Roll 50 yards, 36 in. $2.00. 24 in. $1.25.

All vellums also obtainable in cut sheets of any size.
Section 4

REPRODUCTION PAPERS

BLUE PRINT PAPERS

216. Excallo Satin Blue Print Paper. Thick, 50% rag content. Produced to meet a demand for a moderately priced dependable paper. Will stand up well under rough usage, having substantial folding endurance and tearing strength. Produces excellent blue prints of sharp contrast in line and background. Most popular for school use.

- Width: 24 in. 27 in. 30 in. 36 in. 42 in. 48 in. 54 in.
- Roll of 50 yards:
  - 10: $3.05 $3.15 $3.30 $3.90 $4.90 $5.75 $6.60
  - 25: $1.70 $1.75 $1.85 $2.15 $2.59 $2.90 $3.45
  - 50: $1.00 $1.05 $1.10 $1.30 $1.50 $1.95 $2.20

215. Union Satin Blue Print Paper. Thick. 100% selected rag stock. Finest printing and keeping qualities. Ideal for school use.

- Width: 24 in. 36 in. 42 in. 54 in.
- Roll of 50 yards:
  - 10: $2.50 $2.90 $3.45 $4.00
  - 25: $2.50 $3.00 $3.65 $4.00
  - 50: $2.50 $3.00 $3.65 $4.00

When ordering always specify Printing Speeds in accordance with the following:

SPREAD—about 4 minutes exposure in bright sunlight.

- C: 1 to 2 seconds exposure in bright sunlight.
- H: 30 to 40 seconds exposure in bright sunlight.
- M: 20 to 30 seconds exposure in bright sunlight.
- S: 10 to 20 seconds exposure in bright sunlight.

VANDYKE SOLAR PAPERS


- Width: 24 in. 36 in. 42 in. 54 in.
- Roll of 50 yards:
  - 10: $9.90 $11.50 $13.30 $21.15
  - 50: $9.90 $11.50 $13.30 $21.15


- Width: 24 in. 36 in. 42 in. 54 in.
- Roll of 50 yards:
  - 10: $9.09 $10.00 $12.35 $18.70
  - 50: $9.09 $10.00 $12.35 $18.70

Also obtainable in cut sheets of any size.

We have extensive sensitizing departments at various branches assuring delivery at all times of freshly prepared Reproduction Papers in any part of the country.

DIRECTO PAPER

Produces Positive (black lines on white background) Prints from original tracings without the use of a negative. DIRECTO Print Paper produces a print having jet black lines on white background direct from the original tracing without the use of an intermediate negative. The prints are simply produced by exposing in the regular manner the same as blue print paper, but instead of washing in water and potassium it can either be developed by a solution of cotton moisture and the developing solution or by means of a developing machine. This moist developing on only one side of the print makes it possible to use these prints immediately, for there is no long period of drying necessary. This form of obtaining prints from tracings is ideal for use where adequate washing and drying facilities are not available.

Directo paper can be obtained in rolls or in cut sheets, cut as ordered.


- Width: 24 in. 36 in. 42 in. 54 in.
- Roll of 50 yards:
  - 10: $5.40 $5.40 $7.40 $10.60

Also obtainable in cut sheets of any size.

Section 5

CROSS SECTION PAPERS

GRAPH SHEETS

Printed in Olive Green

No. 340-10

Letter head size, 8½ × 11 in.

Dietzgen Graph Sheets are finished, accurate papers for statisticians, technical schools, laboratories, etc. Printed from accurate engravings in a neutral olive green which can be photographed or photo-printed. The paper used in a high grade, medium thick, bond tracing paper of suitable strength and sufficient transparency to permit the making of blue prints and other reproductions.

No. 340-8

- Engraving 7 × 10 in., 8 × 8 to the inch.
- Inch line accented:
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25

No. 340-10

- Engraving 7 × 10 in., 10 × 10 to the inch.
- Inch line progressively accented:
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25

No. 340-M

- Engraving 18 × 25 cm., Half cm. cm. and 5th cm. lines progressively accented:
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25

No. 340-11

- Engraving 7½ × 9½ for Isometric perspectives and orthogonal projections:
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25

No. 340-L10

- Engraving 7 × 10 in., Semi-logarithmic. One 10 in. cycle by 10 division to inch. 5th lines accented:
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25

No. 340-L30

- Engraving 7 × 10 in. Semi-logarithmic. Three 5½ in. cycles by 10 divisions to inch. 5th lines accented:
  - 1000 sheets: $3.00 100 sheets: $0.50 10 sheets: $0.25

No. 340-P

- Engraving 7½ × 10 in., Polar coordinate. Concentric circles 1/10 in. apart: divided to degrees and numbered every 10 degrees in both directions:
  - 1000 sheets: $13.00 100 sheets: $1.50 10 sheets: $0.25

BINDERS

No. 341

Binder for loose leaf sheets, 8½ × 11 in., substantially made of stiff black cloth; two ½ in. snap-rings. Each, $1.80
CROSS SECTION PAPERS

PLATE PRINTED SHEETS

No. 368. Plate Printed Cross Section Paper in blue, on light weight ledger paper, 5 x 5 to 1 inch, inch line heavy. Sheet size 17 x 22 inches. Resm $1.25 Quire $1.00 10 Shts. $5.50

No. 368-8. Plate Printed Cross Section Paper in blue, on light weight ledger paper, 8 x 8 to 1 inch, inch line heavy. Sheet size 17 x 22 inches. Resm $1.50 Quire $1.00 10 Shts. $6.50

No. 368-10. Plate Printed Cross Section Paper in blue, on light weight ledger paper, 10 x 10 to 1 inch, inch line heavy. Sheet size 17 x 22 inches. Resm $1.75 Quire $1.50 10 Shts. $8.50

QUADRILLE RULED SHEETS

No. 370. Ruled Cross Section Paper. Quadrille ruled in blue on one side only, on bond paper, 10 x 10 to the inch with heavy inch lines. The ruling runs out to the edge of the sheet. A low priced cross section paper. Sheet size 8½ x 11 in. Package of 500 sheets Pkg. $2.00

No. 370B. Ruled Cross Section Paper. Quadrille ruled in blue on one side only, on bond paper, 10 x 10 to the inch with heavy inch lines. Sheet size 17 x 22 in. Package of 500 sheets Pkg. $3.00

No. 372. Like 370 but ruled 8 x 8 to the inch, sheet size 8½ x 11 in. Package of 500 sheets Pkg. $1.00

No. 372B. Like 370B but ruled 8 x 8 to the inch, sheet size 17 x 22 in. Package of 500 sheets Pkg. $1.00

SKETCHING PAD OF TRACING PAPER

Sketching Pad. Provides a convenient medium for quick and accurate sketching in designing, drafting, engineering and architectural work. Consists of 50 sheets of good quality unimprinted tracing paper and one sheet of Bristol Board imprinted with divisions 8 x 8 to the inch on one side and 10 x 10 to the inch on the other, which when placed under the top sheet of tracing paper furnishes a guide line for sketching.

These pads may enable one to attain facility in free-hand drawing and lettering. Sketches can be reproduced by blueprinting and all other reproduction processes, thus converting them into permanent records.

No. 374. Sketching Pad Each $0.50

CROSS SECTION PADS

PLATE PRINTED

No. 375. Cross Section Pads on Ledger paper, plate printed insuring accuracy of divisions and uniformity of color, printed in blue 10 x 10 to the inch with heavy inch lines. Most suitable for technical sketching. Reasonable in cost. Sheet size 8½ x 11 in. 50 sheets to a pad. Package of 12 pads. $5.40 Pad $0.45

No. 376. Like No. 375 but divisions 8 x 8 to the inch. Package of 12 pads. $5.40 Pad $0.45

No. 378. Cross Section Pad, Quadrille ruled in blue, on writing paper for full area of the sheet on both sides, 5 x 5 to the inch. All lines uniform ruling. Sheet size 8½ x 11 in. Pad of 50 sheets. $0.25

LITHOGRAPHED

No. 375½. Cross Section Pad, lithographed in blue, 10 x 10 to the inch. 25 Sheets of good quality ledger paper. 12 pads in folding carton. Pad $0.25

No. 376½. Similar to 375½ but 8 x 8 to the inch. Pad $0.25

No. 377½. Similar to 375½ but 4 x 4 to the inch. Pad $0.25

“PRETTY NEAT” DRAWING BOARD

The “Pretty Neat” Drawing Board is a light weight, compact, extremely sturdy drawing board, simple to operate and complete in every detail, requiring no thumb tacks or “T” Square. It is accurately, sturdily and handsomely built of strong material for every day hard usage. The speed of the user may be extremely fast as he is not slowed down by “T” Squares or any cumbersome or bulky machinery. The end of the triangle guide strips which form the border of the board and the spring paper clamps, are so formed that they elevate the corners of the triangle above the adjacent side, giving absolute freedom of movement of the triangle beyond the limits of the drawing board. Made of hard composition board. Extremely precise, accurate drawings can be made, when accurate triangles are used. An 8 in., 45° triangle is suggested for use with these boards.

No. 379B. “Pretty Neat” Drawing Board, 8½ x 11 in. Each $1.50

No. 379C. 8½ x 13 in. $1.25

No. 379D. 9 x 12 in. $1.25

No. 379E. 10 x 15 in. $2.25

No. 379F. 12 x 18 in. $3.50

(For triangles for use with the “Pretty Neat” Drawing Boards, see catalog No. 10923B, 1937.)
**DRAWING INSTRUMENTS**

**RULING PENS**

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<td>5 in</td>
<td>$1.40</td>
</tr>
<tr>
<td>658A</td>
<td>&quot;</td>
<td></td>
<td></td>
<td>662C</td>
<td>Designo and Constructo Ruling Pen</td>
<td>5 3/4</td>
<td>$1.40</td>
</tr>
<tr>
<td>658B</td>
<td>&quot;</td>
<td></td>
<td></td>
<td>681K</td>
<td>Reliance Detail Ruling Pen</td>
<td>6 in</td>
<td>$1.75</td>
</tr>
<tr>
<td>658C</td>
<td>&quot;</td>
<td></td>
<td></td>
<td>681X</td>
<td>Reliance Detail Ruling Pen</td>
<td>6 in</td>
<td>$1.75</td>
</tr>
</tbody>
</table>

**BOW INSTRUMENTS**

**Fork Spring Type**

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>722A</td>
<td>Federal Bow Divider</td>
<td>3 1/2 in</td>
<td>$1.80</td>
</tr>
<tr>
<td>722B</td>
<td>Pencil</td>
<td>3 1/2 in</td>
<td>$1.40</td>
</tr>
<tr>
<td>722C</td>
<td>Pen</td>
<td>3 1/2 in</td>
<td>$1.65</td>
</tr>
<tr>
<td>736A</td>
<td>Federal Bow Divider</td>
<td>3 1/2 in</td>
<td>$1.65</td>
</tr>
<tr>
<td>736B</td>
<td>Pencil</td>
<td>3 1/2 in</td>
<td>$1.80</td>
</tr>
<tr>
<td>736C</td>
<td>Pen</td>
<td>3 1/2 in</td>
<td>$2.25</td>
</tr>
</tbody>
</table>

**Reliance Bows are made of Spring-steel**

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>723A</td>
<td>Reliance Bow Divider</td>
<td>3 1/2 in</td>
<td>$1.10</td>
</tr>
<tr>
<td>723B</td>
<td>Pencil</td>
<td>3 1/2 in</td>
<td>$1.40</td>
</tr>
<tr>
<td>723C</td>
<td>Pen</td>
<td>3 1/2 in</td>
<td>$1.65</td>
</tr>
<tr>
<td>737A</td>
<td>Reliance Bow Divider</td>
<td>3 1/2 in</td>
<td>$1.65</td>
</tr>
<tr>
<td>737B</td>
<td>Pencil</td>
<td>3 1/2 in</td>
<td>$1.80</td>
</tr>
<tr>
<td>737C</td>
<td>Pen</td>
<td>3 1/2 in</td>
<td>$2.25</td>
</tr>
</tbody>
</table>
BOW INSTRUMENTS
Hoop Spring Type

748A
748B
748C

Prep Bows are made of nickel silver and steel

748A
748B
748C

Each, $0.70
$0.90
1.00

748A
748B
748C

Each, 1.10
1.20
1.30

Master Bow instruments that every draftsman and designer will want. Sturdy in construction, yet so delicately balanced that they feel and handle like the regular size, small standard instruments. Their operation is fast and smooth, and they will hold their adjustment throughout their entire use range.

Experience has shown that 80% of all circles drawn in everyday commercial drafting practice are less than 8 in. in diameter—which is the range of these Master Bow instruments.

750B. Gem Union Master Bow Pencil, 5½-inch, nickel silver, center wheel adjustment, circular head. Capable of drawing circles of any size up to 8-inch diameter.

Each, $5.50

750C. Gem Union Master Bow Pen, 5½-inch, similar to 750B.

Each, $6.00

750K. Gem Union Master Combination Bow Divider, Pencil and Pen, 5½-inch, similar to 750B. Has one fixed needle point leg; the other leg has an interchangeable divider, pencil, and pen part.

Each, $7.25

FEDERAL DROP SPRING
BOW INSTRUMENTS

These Drop Spring Bow Instruments are unsurpassed for drawing small circles. Even circles of extremely small diameter can be drawn easily and quietly.

768C. Federal Self-Adjusting, Drop Spring Bow Pen, 4-in.

Each, $4.00

768K. Federal Self-Adjusting, Drop Spring Bow Pen, with Pencil Part, 4-in.

Each, $4.75
DIVIDERS

792. Federal Hairspring Dividers, 6 in., new concealed type straightening device; made of rolled nickel silver; with fine steel points. Each, $3.80

801R. Reliance Plain 6 * plate type straightening device; made of rolled nickel silver; reversible and replaceable steel points. Each, $1.85

803R. Reliance Hairspring 6 * same as 801R, but with new spring needle type hair-spring device. Each, $2.65

809. Prep Plain 6 * with new concealed type straightening device; made of nickel silver; with reversible and replaceable steel needle points. Each, $1.10

811. Designo Plain 6 * plate type straightening device; made of hard processed metal, heavily nickel-plated; with steel points. Each, $0.90

COMPASSES

835. Federal Compasses, 6 in., (square type) made of rolled nickel silver and steel; with new concealed type straightening device; fixed needle point leg with screw-thread needle point; interchangeable pencil part, and spring-blade pen part; 4 in. lengthening bar; combination screwdriver and lead box with extra leads; key; metal needle box with extra needles; complete. Each, $6.59

844R. Reliance Compasses, 6 in., (square type) made of rolled nickel silver and steel; with plate type straightening device; fixed needle point leg; screw-thread needle point; interchangeable pencil part, and spring-blade pen part; 4 in. lengthening bar; combination screwdrivers and lead box with extra leads; complete. Each, $4.39

854. Prep Compasses, 6 in., (fat type) made of nickel silver and steel; with new concealed type straightening device; both legs with opposite knee joint; interchangeable divider, pencil, and spring-blade pen parts, the latter with cleaning device; adjustable, reversible and replaceable needle points; 4 in. lengthening bar; knurled metal handle for use with divider, pencil or pen parts as separate instruments; screwdriver; lead box with extra leads; complete. Each, $2.75

856. Designo Compasses, 6 in., (fat type) made of hard processed metal, heavily nickel-plated, and steel; with plate type straightening device; with one straight solid needle point leg with pivotal needle point holder; the other leg having a knee joint with interchangeable divider pencil and spring-blade pen part, the latter with cleaning device; 4 in. lengthening bar; metal handle for use with divider, pencil or pen part as separate instruments; screwdriver; lead box with extra leads; complete. Each, $2.40

ROSE TOOLS, INC.
PRICES SUBJECT TO CHANGE WITHOUT NOTICE
ROSE TOOLS, INC.

CHAMPION BEAM COMPASSES

No. 967A

Constructed of heavy chromium finish brass and steel, these instruments are durable and strong with a non-staining finish which is greatly resistant to scratches and dirt as well as to a thorough protection against corrosion. Micrometer adjustment permits very fine setting. The set is simple in operation and design, for drawing any size circle up to 38 inches in diameter. The center part, pencil pen part and coupling are constructed to assure perfect rigidity at all times.

No. 967A. Champion Beam Compases, with one semi-cylindrical beam 3½-inch diameter, one 13-inch beam and one 6-inch beam, thus making the instrument 19 inches overall. Micrometer adjustable center point, one pen, one coupling (with center stop), and one needle point with shoulder, lead box, complete in blue velvet-lined case. Each, $8.50

No. 967B. Champion Beam Compases, with one 6-inch beam, one micrometer adjustable center part, one pencil part, complete without case. Each, $4.00

PROFESSIONAL DRAWING SETS

No. 968AK

Professional Drawing Sets, containing, in blue velvet lined case, the following: 1 only No. 967A Champion Beam Compases

1. No. 647 Champion Ruling Pen—3½-inch.
2. No. 750B Gem Union Master Bow Pencil.
3. No. 2457 Center back, 3½-inch nickel silver.

Set, $16.50

No. 968AC. Professional Drawing Set, like No. 968AB, except containing: 1 only No. 750C Gem Union Master Bow Pen in place of the 750B Bow Pencil.

Set, $17.00

No. 968AK. Professional Drawing Set, like No. 968AB, except containing: 1 only No. 750K Gem Union Master Combination Bow Instrument with one fixed needle point pen and one interchangeable divider, pen and pen part, in place of the 750B Bow Pencil.

Set, $18.50

Full description of instruments comprising above sets can be found under their respective numbers.

Section 7

DRAWING INSTRUMENT SETS

GEM UNION DRAWING INSTRUMENTS

7 Instrument Sets

1007C. Gem Union Drawing Instruments, complete in pocket book leather case, containing:

3. Stainless Steel Bow Dividers, 3½ in., center screw adjustment.
4. Stainless Steel Bow Dividers, 3½ in., center screw adjustment, "Eye-Set"—needle point.
5. Stainless Steel Bow Dividers, 3½ in., center screw adjustment, "Eye-Set"—needle point with spring blade pen part of High-speed steel.
6. Hairpin Dividers, 6 in., Union Pivot joint with differential straightening device made of cold rolled nickel silver with stainless steel points.
7. Plain Compasses, 6 in., Union Pivot joint with differential straightening device: fixed needle point pen and with screw threaded needle point; interchangeable pencil pen part, pen part; two lengthening bars, one 4½-in. and one 6-in. Made of cold rolled nickel silver with steel parts made of stainless steel.
8. Combination Screwdriver and lead box.
9. Combination key and needle box, with extra needle points.
10. Metal box with spare parts.
11. Cleaning and polishing cloth.

Set, $41.50

1007. Gem Union Drawing Instruments, same as 1007C except with 716A-B-C Side Screw Adjustment Box in place of 730-B-A-C.

Set, $38.50

1007Z. Gem Union Drawing Instruments, same as 1007 except in zipper case,.

Set, $41.50

1007ZC. Gem Union Drawing Instruments, same as 1007Z except in zipper case,.

Set, $43.50

NOTES: In stating the number of instruments in a set, accessories and parts are not counted.

ROSE TOOLS, INC.

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PRICES SUBJECT TO CHANGE WITHOUT NOTICE

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PRICES SUBJECT TO CHANGE WITHOUT NOTICE
CHAMPION DRAWING INSTRUMENTS

Designed for those who prefer a flat, round type instrument to that of the triangular type and whose work requires the highest grade equipment. Champion Instruments are built under the most rigid standards of workmanship and accuracy and are regarded by professional and non-professional users who prefer this type of instrument as being the finest flat, round type instrument made. They are highly regarded for accuracy, precision of manufacture, balance, finish and excellence of structural detail.

Champion instruments are made of selected quality rolled nickel silver and the highest grade tool steel. Many points of advanced design and special features of great practical value to draftsmen are embodied in Champion instruments. They stand superior to all other flat, round instruments in quality, workmanship and mechanical excellence, and can be relied upon to give a lifetime of service and satisfaction.

Zipper style fastener case, lined with blue velvet.

7 Instruments

1037CZ. Champion Drawing Instruments in zipper style fastener case containing:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>646</td>
<td>“In-Balance” Palsander Handle Ruling Pen, 5½ in., with spring blade.</td>
<td>11 ½</td>
</tr>
<tr>
<td>754A</td>
<td>Center Screw Adjustment Bow Dividers, 4½” “Eye-Set” needle points.</td>
<td>1½</td>
</tr>
<tr>
<td>754B</td>
<td>Pencil</td>
<td>1½</td>
</tr>
<tr>
<td>754C</td>
<td>Pencil</td>
<td>1½</td>
</tr>
<tr>
<td>766</td>
<td>Hairspring Dividers, 6 in., with slide type straightening device; adjustable, reversible, and replaceable needle points.</td>
<td>1½</td>
</tr>
<tr>
<td>833</td>
<td>Compasses, 6 in., with slide type straightening device; fixed needle point leg; interchangeable divider, pen and pencil parts; adjustable, reversible, and replaceable needle points; two lengthening bars, one 4-in. and one 6-in.; clamp type pencil part.</td>
<td>1½</td>
</tr>
<tr>
<td>2466</td>
<td>Center Tack</td>
<td>1½</td>
</tr>
<tr>
<td></td>
<td>Combination Screwdriver and Lead Box</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Combination Handle and Needle Box, with extra needle points.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal box with spare parts.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cleaning and Polishing Cloth.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cleaning and Polishing Cloth.</td>
<td></td>
</tr>
</tbody>
</table>

1027C. Champion Drawing Instruments, same as 1037CZ but in Pocketbook leather case. 

Set, $25.50

1037CD. Champion Drawing Instruments, similar to 1037C, except with 672 Detail Pen, 6 in., replacing 647 Ruling Pen. 

Set, $23.50

1037CDZ. Champion Drawing Instruments, same as 1037CD except in zipper case. 

Set, $25.00

9 Instrument Sets

1039C. Champion Drawing Instruments, in pocketbook leather case. Similar to 1037C with the addition of the following instruments:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>764K</td>
<td>Drop Spring Bow Pen and Pencil, 4½ in., spring blade.</td>
<td>1½</td>
</tr>
</tbody>
</table>

Set, $31.75

1039CZ. Champion Drawing Instruments, same as 1039C except in zipper case. 

Set, $33.75

NOTE: In stating the number of instruments in a set, accessories and parts are not counted.

FEDERAL DRAWING INSTRUMENTS

These high quality (square type) instruments meet the specifications of those in the professional and non-professional field who require a high grade instrument at moderate cost. They have earned an enviable reputation among a wide class of users, which reputation is rooted in the reality of performance.

Federal Instruments are made of rolled nickel silver and high grade steel. Their nicety of balance, excellent workmanship and finished appearance fully satisfy the requirements of the professional draftsman and discriminating student. Such structural details as precision cut screw threads, smooth working joints and well fitting parts are some of the features commented upon by their many users.

Pocket book button case, lined with green velvet.

7 Instrument Sets

1047. Federal Drawing Instruments, in pocket book case, containing:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>648</td>
<td>Ruling Pen, 5 in., spring blade, unbreakable black handle.</td>
<td>1½</td>
</tr>
<tr>
<td>722A</td>
<td>Bow Dividers, 5½ in., side screw adjustment.</td>
<td>1½</td>
</tr>
<tr>
<td>722B</td>
<td>Pencil, 3½ in., “Eye-Set” needle points.</td>
<td>1½</td>
</tr>
<tr>
<td>722C</td>
<td>Pen, 3½ in., “Eye-Set” needle points.</td>
<td>1½</td>
</tr>
<tr>
<td>792</td>
<td>Hairspring Dividers, 6 in., with new concealed type straightening device; replaceable and replaceable steel needle points.</td>
<td>1½</td>
</tr>
<tr>
<td>835</td>
<td>Compasses, 6 in., with new concealed type straightening device; fixed needle point with screw thread needle points, interchangeable pencil part, and spring blade pen part, 4 in., lengthening bar</td>
<td>1½</td>
</tr>
<tr>
<td>2667</td>
<td>Center Tack</td>
<td>1½</td>
</tr>
<tr>
<td></td>
<td>Key</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Combination Screwdriver and Lead Box</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal box with extra needle points.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal box with spare parts.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cleaning and Polishing Cloth.</td>
<td></td>
</tr>
</tbody>
</table>

Set, $21.50

1047Z. Federal Drawing Instruments, similar to No. 1047 except with zipper case. 

Set, $23.50

1047C. Federal Drawing Instruments, similar to No. 1047, but with Nos. 721A-B-C center screw adjustment bows—replacing No. 720A-B-C. 

Set, $23.80

1047CZ. Federal Drawing Instruments, same as No. 1047C, except in zipper case. 

Set, $25.00

6 Instrument Sets

1046. Federal Drawing Instruments, in pocket book case, similar to No. 1047, with No. 648 Ruling Pen omitted. 

Set, $19.60

NOTE: In stating the number of instruments in a set, accessories and parts are not counted.
Similar in design and construction to the Federal Drawing Instruments these square (American) type instruments have a definite appeal, as they offer durability and maximum quality at minimum cost. Used extensively by a large number of non-professional users, as well as colleges and universties. Monarch Instruments are made of rolled nickel silver and steel. Fitted and assembled with accuracy and care, these substantially constructed instruments will give years of satisfactory service. Many points of advanced design and great practical value to draftsman are embodied in Monarch sets. Pocket book button case, lined with blue velvet.

7 Instrument Sets

1047M. Monarch Drawing Instruments, in pocket book case, containing:

- 640M Ruling Pen, 5 in., unbreakable black handle.
- 672½A Bow Dividers, 3½ in., side screw adjustment.
- 722½B Pen, 3½ in., adjustable, reversible and replaceable needle points.
- 794 Hairspring Dividers, 6 in., with new concealed type straightening device; adjustable, reversible and replaceable needle points.
- 837 Compasses, 6 in., with new concealed type straightening device; fixed needle point leg, with adjustable, reversible and replaceable needle points; interchangeable pencil part, and spring blade pen part; 4 in. lengthening bar.
- 2457 Center Tack.

Combination screwdriver and lead box with extra leads.
Metal box with spare parts.
Fast Key.
Cleaning and Polishing Cloth.

Set, $15.10

1047MZ. Monarch Drawing Instruments, same as No. 1047, except in zipper case.
Set, 16.60

6 Instrument Sets

1046M. Monarch Drawing Instruments, in pocket book case similar to No. 1047M.
Set, 12.10

NOTE: In stating the number of instruments in a set, accessories and parts are not counted.

1046KC. Kromet Drawing Instruments, in pocket book case, containing:

- 652 Ruling Pen, 5 in., with spring blade, ebony handle.
- 563 Detail Pen, 5 in., ebony handle.
- 785½A Bow Dividers, 3½ in., center screw adjustment.
- 785½B Pen, adjustable, reversible and replaceable needle points.
- 771K Drop Spring Bow Pen and Pencil, 4½ in., spring blade pen part.
- 798 Hairspring Divider, 6 in., with straightening device; adjustable, reversible and replaceable needle points.
- 840 Compasses, 6 in., with straightening device; fixed needle point leg; adjustable reversible and replaceable needle points; interchangeable divider, pencil, and spring blade pen part.
- 874 Compasses, 4½ in., with straightening device; fixed needle point leg; adjustable, reversible and replaceable needle points; interchangeable divider, pencil, and spring blade pen parts.
- 2457 Center Tack.

Combination screwdriver and lead box with extra leads.
Combination metal handle and needle box, with extra needle points.
Metal box with spare parts.
Cleaning and Polishing Cloth.

Set, $21.75

1060KCZ. Kromet Drawing Instruments, same as No. 1060K, except in zipper case.
Set, 23.75

3 Instrument Sets

Set, $14.90

1057KZ. Kromet Drawing Instruments, same as No. 1057K except in zipper case.
Set, 16.00

1053KC. Kromet Drawing Instruments containing one No. 653 Ruling Pen, 5½ in., one Special Combination Bow Instrument, 3½ in., with pen, pencil, and divider parts; one No. 840 Compasses 6 in., combination screwdriver and lead box; combination metal handle and needle box; metal box with spare parts.
Set, $8.00

ROSE TOOLS, INC.
RELIANCE DRAWING INSTRUMENT SETS

Designed for the many non-professional users of drawing instruments who require good serviceable instruments at moderate cost. These Trigonial (American) type instruments possess many refinements both as to construction and finish that are usually found only in higher priced instruments. A popular favorite in both high schools and small colleges.

Reliance Instruments are made of rolled nickel silver and steel. All dividers and compasses have straightening devices that are of a remarkably satisfactory quality. This grade should not be confused with other makes which are cast and somewhat similar in appearance but inferior in quality.

Pocket book case, lined with velvet.

<table>
<thead>
<tr>
<th>Catalog Number of Set</th>
<th>1067RCD</th>
<th>1067R</th>
<th>1067R</th>
<th>1066RC</th>
<th>1066R</th>
<th>1065R</th>
<th>1065R</th>
<th>1064R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Major Instr. in Set</td>
<td>7</td>
<td>7</td>
<td>6</td>
<td>6</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Individual 656 Ruling Pens</td>
<td>656</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>657</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>681C Detail</td>
<td>6</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>721A Bow Dividers, 3½ in., side adj.</td>
<td>721A</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>723B</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>723C</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>731A Bow Dividers, 3½ in., center</td>
<td>731A</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>733B</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>739C</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Large Dividers 801R Large Dividers, 6 in., plain</td>
<td>801R</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>833R</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Large Compases 844R Large Compases, 6 in.</td>
<td>844R</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Accessories</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Metal Box with spare parts</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Combination screwdriver and lead box</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>List Price</td>
<td>$12.50</td>
<td>$11.25</td>
<td>$10.25</td>
<td>$10.25</td>
<td>$9.25</td>
<td>$8.25</td>
<td>$7.75</td>
<td>$7.10</td>
</tr>
</tbody>
</table>

NOTE: In stating the number of instruments in a set, accessories and parts are not counted.

PREP DRAWING INSTRUMENTS

Production efficiency realized by modern machine manufacture enables us to offer these flat, round type instruments of good serviceable grade at a reasonable price. Instruments are especially adapted for high school and elementary school users, whose work does not need the exacting requirements afforded by our higher grade instruments.

Prep drawing instruments are manufactured of nickel silver and steel. They are of good material and workmanship and include many of the latest improvements ordinarily expected only in the better grades.

Pocket book case, lined with velvet.

<table>
<thead>
<tr>
<th>Catalog Number of Set</th>
<th>1087S</th>
<th>1087SC</th>
<th>1088SC</th>
<th>1088S</th>
<th>1085S</th>
<th>1084S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Major Instruments in Set</td>
<td>7</td>
<td>7</td>
<td>8</td>
<td>6</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>Individual 656R Ruling Pens</td>
<td>656R</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>6594</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>682D Detail Pen, 6 in.</td>
<td>682D</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Bow Instruments</td>
<td>748A Bow Dividers, 3½ in., side adj.</td>
<td>748A</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>748B</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>748C</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>756A Bow Dividers, 3½ in., center adj.</td>
<td>756A</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>756B</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>756C</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Large Dividers 809 Large Dividers, 6 in., plain</td>
<td>809</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>810</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Large Compases 854 Large Compases, 6 in.</td>
<td>854</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Accessories</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Metal Handle for use with compass parts as separate instrument</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Metal box with extra needles and leads</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Screwdriver</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Metal box with spare parts</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>List Price</td>
<td>$8.20</td>
<td>$9.00</td>
<td>$10.20</td>
<td>$10.20</td>
<td>$7.25</td>
<td>$6.70</td>
</tr>
</tbody>
</table>

*Set Illustrated.

NOTE: In stating the number of instruments in a set, we count only the major instruments and not the number of pieces.

**Prices Subject to Change Without Notice**
**ROSE TOOLS, INC.**

**DESIGNO DRAWING INSTRUMENTS**

Offering a complete assortment of drawing instruments for school use. Splendid values at low prices.

Designo Drawing Instruments are made of special processed hard brass, heavily nickel-plated and steel. These instruments are of the flat, round type, with compasses and dividers with adjustable straightening devices, as well as other modern improvements. Pocket book button case, lined with velvet.

![Image of Designo Drawing Instruments]

<table>
<thead>
<tr>
<th>Catalog Number of Set</th>
<th>1098LCD</th>
<th>1097LC</th>
<th>*1097L</th>
<th>1096LC</th>
<th>1096L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Major Instruments in Set</td>
<td>8</td>
<td>7</td>
<td>7</td>
<td>6</td>
<td>5</td>
</tr>
<tr>
<td>Individual Designo Instruments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ruling Pens</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>662AC Ruling Pen, 3 in., Aluminum hdle.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>663AC Ruling Pen, 5 1/2 in., Aluminum hdle.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>661D Detail Pen, 6 in.</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bow Instruments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>746A Bow Dividers, 3 1/2 in., side adj.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>746B Bow Dividers, 3 in., center adj.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>765C Bow Dividers, 3 1/2 in., center adj.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>756B Pencil, 3 1/2 in.</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>757B Pen, 3 1/2 in.</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Dividers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>811 Plain Dividers, 6 in.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Compasses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>856 Compasses, 6 in.</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal handle for use as separate instrument</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Screwdriver,</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal box of spare parts</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>List Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$7.00</td>
<td>$7.60</td>
<td>$7.30</td>
<td>$7.25</td>
<td>$6.95</td>
<td></td>
</tr>
</tbody>
</table>

*Set Illustrated.

**NOTE:** In stating the number of instruments in a set, accessories and parts are not counted.

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**EUGENE DIETZGEN CO.**

**CONSTRUCTO DRAWING INSTRUMENTS**

For the student or one having only occasional need for drawing instruments, these are admirably adapted, being fully guaranteed as to quality and workmanship.

Constructo drawing instruments are made of specially processed hard brass, heavily nickel plated and steel. These instruments are of the flat, round type, the compasses and dividers having straightening devices and various other improvements. Pocket book button case, lined with velvet.

![Image of Constructo Drawing Instruments]

<table>
<thead>
<tr>
<th>Catalog Number of Set</th>
<th>*1097</th>
<th>1096</th>
<th>1095</th>
<th>1094</th>
<th>1093</th>
<th>1092</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Major Instruments in Set</td>
<td>7</td>
<td>6</td>
<td>5</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Individual Constructo Instruments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ruling Pens</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>662AC Ruling Pen, 3 in., Aluminum hdle.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>663AC Ruling Pen, 5 1/2 in., Aluminum hdle.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Bow Instruments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>746A Bow Dividers, 3 1/2 in., side adj.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>749B Pencil, 3 1/2 in.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>749C Pen, 3 1/2 in.</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large Dividers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>813 Dividers, 5 1/2 in., plain.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Large Compasses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>858 Compasses, 5 1/2 in., plain.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal handle for use as separate instrument</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Metal Box of spare parts</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Key and lead box with extra leads,</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>List Price</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>$6.25</td>
<td>$5.85</td>
<td>$5.10</td>
<td>$4.35</td>
<td>$3.60</td>
<td>$2.70</td>
<td></td>
</tr>
</tbody>
</table>

*Set Illustrated.

**NOTE:** In stating the number of instruments in a set, accessories and parts are not counted.

---

**PRICES SUBJECT TO CHANGE WITHOUT NOTICE**
PRACTICAL DRAWING OUTFITS

1100A. Practical Drawing Outfit—in neat heavy pasteboard box, containing the following:

1. Drawing Instrument Set No. 1096L.
2. Drawing Board 18 x 24 in.
3. T-Square, Maple, Celluloid lined 24 in.
4. Triangle 30 x 60°, celluloid, 10 in.
5. 45°, celluloid, 8 in.
7. Protractor, celluloid, semi-circular.
8. Curve, Celluloid.
11. Eraser, 1/4 x 3/4 x 1/8 in.
12. Art gum, 2 x 1 x 1 in.
15. Drawing Paper sheets, 15 x 22 in. No. 11L.
16. Instruction Book on "Use and Care of Drawing Instruments."
17. Lettering Chart. Set, $15.00

1100A.W. Practical Drawing Outfit—in neat heavy pasteboard box, like No. 1100A except with Drawing Instrument Set No. 1096L omitted. Set, $6.50

1100B. Practical Drawing Outfit—in neat heavy pasteboard box, containing the following:

2. Drawing Board 18 x 24 in.
3. T-Square, Ash, Maple Lined Blade, 24 in.
4. Triangle 30 x 60°, celluloid 8 in.
5. 45°, celluloid 6 in.
7. Protractor, celluloid, semi-circular.
8. Curve, Celluloid.
11. Eraser, 1/4 x 3/4 x 1/8 in.
12. Art gum, 2 x 1 x 1 in.
15. Drawing Paper sheets 15 x 22 in. No. 11L.
16. Instruction Book on "Use and Care of Drawing Instruments."
17. Lettering Chart. Set, $10.50

1100C. Practical Drawing Outfit—in neat heavy pasteboard box containing the following:

1. Drawing Instrument Set No. 1095J.
2. Drawing Board 16 x 21 in.
3. T-Square, Maple, 21 in.
4. Triangle 30 x 60°, celluloid 8 in.
5. 45°, celluloid 6 in.
8. Curve, Celluloid.
11. Eraser, 1/4 x 3/4 x 1/8 in.
12. Art gum, 2 x 1 x 1 in.
15. Drawing Paper sheets 15 x 22 in. No. 11L.
16. Instruction Book on "Use and Care of Drawing Instruments."
17. Lettering Chart. Set, $7.50

1100C.W. Practical Drawing Outfit—in neat heavy pasteboard box like No. 1100C except with Drawing Instrument Set No. 1095J omitted. Set, $4.75

1100D. Practical Drawing Outfit—in neat heavy pasteboard box like No. 1100D, but with Drawing Instrument Set No. 1095N omitted. Set, $3.00

These serviceable outfits meet all the requirements of students taking Engineering and Mechanical Drawing Courses. They are also well adapted for the use of contractors and builders, in making and altering plans. All materials are of dependable quality and will be found very serviceable.
### SCHOOL COMPASS SETS

- **No. 1102E.** School Compass Set consisting of 4½ inch compass with chuck type pencil and pen part, lead box, key and metal handle to be used with pencil and pen parts of compass as separate instruments. Complete in velvet lined rod style pocket case. Each, $0.70

- **No. 1102H.** School Compass Set consisting of 4½-inch metal handle ruling pen and 4½-inch compass with chuck type pencil and pen part, lead box and key. Complete in velvet lined rod style pocket case. Each, $0.90

- **No. 1102N.** School Compass Set. Each, $1.60

This School Compass Set consists of a 5-inch aluminum handle ruling pen; 5-inch nickel-plated compass with adjustable needle point leg, with steel divider part, pen part, and pencil part, lead box with extra leads and key, contained in a velvet-lined pocket, rod style case. A compact compass set for making drawings and sketches. Ideal for preparatory schools for use in drawing or science classes.

### STUDENT "SOLID" COMPASSES

- **No. 1292.** Compasses, loose, without lead box. Doo. Each $4.60 $0.45

The Student "Solid" Compasses are durable and well constructed, and specially adapted for preliminary drawing work in schools, etc. They are made of brass, nickel-plated, and are approximately 5 inches long. A unique feature is a sleeve on the needle point leg, which, when shifted, exposes a recess in which an extra lead is contained.

These compasses have met with considerable favor for school use due to their utility and practical construction.

---

### DRAFTING SCALES

#### FLAT BOXWOOD SCALES

- **U.S. Standard**
- **Machine Divided**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1356</td>
<td>Open Divided: 1/4, 1/3, 1/2, 3 inches to the foot.</td>
<td>Each, $1.20</td>
</tr>
<tr>
<td>No. 1376</td>
<td>Flat Boxwood Scale, 12 in.</td>
<td>Each, $1.20</td>
</tr>
</tbody>
</table>

- **No. 1439.** Full divided to 1/4 in. Each, $0.55

#### FLAT WHITE EDGE SCALES

- **U.S. Standard**
- **Machine Divided**

<table>
<thead>
<tr>
<th>Scale</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1509</td>
<td>Flat White Edge Scale, 12 in., open divided 3, 1, 3/4, 1 in. to the foot.</td>
<td>Each, $2.00</td>
</tr>
<tr>
<td>No. 1517</td>
<td>Flat White Edge Scale, 12 in., open divided 3, 1, 3/4, 1 in. to the foot.</td>
<td>Each, $2.00</td>
</tr>
</tbody>
</table>

- **No. 1526.** Open Divided: 1/4, 1/3, 1 1/8, 1 1/3, 1 1/2, 3 inches to the foot. Each, $2.20

#### FLEXIBLE CELLULOID SCALE

This scale because of its inexpensiveness, compactness, feather weight, and flexibility, has found considerable favor in the school field. It contains the following scales: metric, inch, tenths, eighths and fourths. These dimensions are printed on the celluloid, and while the rule is not as accurate as our engine divided boxwood and white edge scales, it is sufficiently accurate for elementary drawing work.

The rule has also found popularity among the profession as a pocket rule for obtaining approximate dimensions of drawings. Because of its size and weight, it recommends itself as being ideally suited for carrying in the vest pocket.

<table>
<thead>
<tr>
<th>Scale</th>
<th>Description</th>
<th>Unit Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. 1577</td>
<td>Flexible Celluloid Scale, divided front: metric and inches; divided back: 10ths, 8ths, 4ths, sold in dozen lots only.</td>
<td>Each, $1.20</td>
</tr>
</tbody>
</table>

**Prices Subject to Change Without Notice**
TRIANGULAR SCALES
HARDWOOD
Engine Divided
For Architects and Mechanical Engineers

No. 1626
Open Divided: 1/8, 1/16, 1/32. 3 in. to the foot, 1/8 in.
No. 1626 Triangular Hardwood Scale, 12 in., Regular Shape
Each, $1.30
No. 31626. Hardwood * 12 in. * * * * * * * Doz., 6.60

No. 41626A
Open Divided: 1/8, 1/16, 1/32 in. to the inch, 1/8 inch.
41626A. Triangular Type Hardwood Scale, 12 in., with one rounded edge
Doz., $6.60

FOR CIVIL ENGINEERS AND SURVEYORS

No. 1636
Divided: 10, 20, 30, 40, 50, 60 parts to the inch.
No. 1636. Triangular Hardwood Chain Scale, 12 in., Regular Shape
Each, $1.30
No. 31636. " Hardwood " 12 in. " " Doz., 6.60

WHITE EDGE
Engine Divided
For Architects and Mechanical Engineers

No. 1656
Open Divided: 1/8, 1/16, 1/32, 1/64, 1/6, 1/32, 1/6, 3 in. to the foot, 1/8 in.
1656. Triangular White Edge Scale, 12 in., regular shape
Each, $3.60

For CIVIL ENGINEERS AND SURVEYORS

No. 1657
Divided: 10, 20, 30, 40, 50, 60, parts to the inch.
1657. Triangular White Edge Chain Scale, 12 in., regular shape
Each, $3.60

Section 9

SLIDE RULES AND PANTOGRAPHHS
MANIPHASE SLIDE RULE

No. 1750P
The Maniphase Slide Rule, of the Mannheim type, has in addition to the regular scales A, B, C and D of the Mannheim, a rule scale "K", on the face of the rule above the "A" scale, and an inverted single reciprocal scale "CI" on the face of the slide.
The back of the slide has a scale of sines, tangents, and of equal parts which are indexed to be used with the other scales.
Each, $6.95
No. 1750L. Like No. 1750P but in sewed leather case.
Each, $7.75

MANNHEIM SLIDE RULE

No. 1766P
The Mannheim Slide Rule is sturdily designed, having a range of use sufficient for all ordinary commercial and engineering work.
These rules are made of thoroughly seasoned materials, and accurately divided. The face of the rule and slide has four scales, referred to as A, B, C, and D. The A and B scales are double logarithmic scales. The C and D scales are single logarithmic.
The back of the slide has a sine, a logarithmic and a tangent scale, which are indexed to be used with the scales on the face of the rule.
No. 1766P. Mannheim Slide Rule, 10 inch, engine divided on white celluloid. Glass "frameless" indicator. In case, with booklet of instructions.
Each, $6.20
No. 1766P. Scholar Slide Rule (Mannheim) 10 inch. Frameless glass indicator, graduations on white enameled wood. In case, with directions.
Each, $1.40

No. 1763P. Monarch Slide Rule (Mannheim) 10 inch. Frameless glass indicator graduations on white enameled wood. In case, with directions.
Each, $2.50

No. 1765P
No. 1785F. Pocket Slide Rule (Mannheim), made of thoroughly seasoned white celluloid, accurately divided, measures 1 1/2 inches wide, 1 1/2 inch thick and 5 1/2 inches long, overall, with a 5 inch scale on the face. Furnished in soft leather sheath.
Each, $2.80
No. 1765P. Pocket Slide Rule (Mannheim), white celluloid, mounted on tin boxwood, with frameless indicator. Measures 1 1/2 inches wide, 1 1/2 inch thick and 6 inches long with a 5 inch scale on the face. Complete in high grade leather sheath with flap.
Each, $3.75

ROSE TOOLS, INC.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE
LETTERING ANGLES AND DEVICES

DRAFT SQUARE

2029. Draftsquad, Transparent Celluloid, .045 in thick
4¼ x 4½ in., Each, $1.00

The Draftsquad was created to simplify the work of the draftsman
and student. The Draftsquad permits the outlining of all standard
bolt heads ½ to 1 in. diameter, circles from ½ to 1 in. diameter; and
American Standard "V" thread of 60°, and the Acme thread 29.
Holes for drawing lettering guide lines for various sized letters at
60° or 75½° inclination are also provided.

CELLULOID CHEMISTRY STENCIL

2159. Chemistry Stencil, transparent celluloid.
6 in. x 3 in. x .030 in. thick. Handy,
convenient size to carry in note book or vest
pocket, Each, $0.25

A handy template for the Chemistry student. Speeds up
illustrating laboratory problem notes, at the same
time increasing legibility. Contains templates cut-outs
of flasks, beakers, Bunsen burners, etc. Made of
flexible, transparent celluloid, 6 x 3 x .030 in. of
convenient size to carry in note-book or vest pocket.
Millimeter scale on edge.

No. 2030B
Lettering Angle, transparent Celluloid, 30° x 60°, size 5
Each, $0.70 6 0.70 0.80 0.80 1.00

No. 2031B
Lettering Angle, transparent Celluloid, 45°, size 4
Each, $0.70 75 0.75 0.90 1.00

No. 2031C
Lettering Angle, transparent Celluloid, 45°, 8 in. This angle has a triangular
center opening useful in drawing the slope of the flange of standard I-beams
and channels.
Each, $0.90

No. 2031R
Lettering Angle, transparent Celluloid, 45°, 6 in. This angle has in addition,
a special group of holes designed primarily to aid in teaching as well as drawing
systematic dimension lines, also guidelines for dimension figures both whole
numbers and fractions.
Each, $0.85

No. 2032
Ames Lettering Device

2032. Ames Lettering Device, with instruc-
tion sheet. The only instrument of
its kind that allows the user to vary the heights of lettering by ad-
justment of the dial or disc. Slope lines can be drawn without any ad-
justment of parts. Each, $1.10

Section 12

T SQUARES

Realizing the importance of trueness and durability in T Squares, we use in their manufacture
only the most carefully selected and thoroughly seasoned steels, the stock being seasoned by a special
process. This fact, combined with perfect workmanship and finish, results in these articles being of
acknowledged accuracy and of unsurpassed quality.

2050
Maple Blade and Head: Fixed Head.
Each, $1.60 $0.65 $0.70 $0.80 $0.95 $1.15 $1.40 $1.90

2068. Size, 15 in. 18 in. 21 in. 24 in. 30 in. 36 in. 42 in. 48 in.
Each, $4.60 $0.60 $0.70 $0.80 $0.90 $1.15 $1.40 $1.90

2069. Size (School Quality), 18 in. 21 in. 24 in. 30 in. 36 in.
Dot, $5.90 $5.50 $6.00 $7.00 $8.00

2066
Ash, Maple Lined Blade, Ebonized Head: Fixed Head.
Each, $1.65 $1.70 $2.00 $2.45 $3.20 $5.20 $6.90

2066. Size, 24 in. 30 in. 36 in. 42 in. 48 in. 60 in. 72 in.
Each, $3.65 $3.90 $4.25 $4.30 $4.80 $5.20 $6.90

2066. Size (School Quality), 24 in. 30 in.
Dot, $11.40 $13.00

2077
Maple, Transparent Celluloid Lined Blade and Ebonized Head: Fixed Head.
Each, $1.80 $2.00 $2.50 $3.20 $3.50 $4.20 $5.00 $6.50 $8.00

2097. Size, 18 in. 24 in. 30 in. 36 in. 42 in. 48 in. 54 in. 60 in.
Each, $2.20 $2.50 $2.90 $3.20 $3.50 $4.00 $5.00 $6.50 $8.00

12077. Size (School Quality), 18 in. 24 in. 30 in. 36 in. 42 in.
Dot, $22.00 $25.00 $30.00 $36.00 $44.00

Prices Subject to Change Without Notice
Section 13
TRANSPARENT CELLULOID CURVES

2152. Transparent Celluloid Curves, highly polished.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Each</td>
<td>$0.55</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>$0.50</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>$0.45</td>
</tr>
<tr>
<td>12</td>
<td></td>
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<tr>
<td>14</td>
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<td>$0.35</td>
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<tr>
<td>16</td>
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<tr>
<td>18</td>
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<td>$0.25</td>
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<tr>
<td>20</td>
<td></td>
<td>$0.20</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>$0.18</td>
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<tr>
<td>24</td>
<td></td>
<td>$0.16</td>
</tr>
<tr>
<td>25</td>
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<td>$0.15</td>
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12152. Transparent Celluloid Curves, (School Quality).

<table>
<thead>
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<th>No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>6</td>
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<td>8</td>
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<td>14</td>
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<tr>
<td>16</td>
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<td>$1.25</td>
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<td>18</td>
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<tr>
<td>20</td>
<td></td>
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<tr>
<td>22</td>
<td></td>
<td>$0.70</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>$0.55</td>
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Section 14
THUMB TACKS

SIMPLEX BRASS

No. 2434

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<thead>
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No. 2434-1

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No. 2434-2

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No. 2434-3

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ROUNDE HEADS

No. 2435

<table>
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<tbody>
<tr>
<td>No. 2435A</td>
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No. 2435B

<table>
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<tr>
<th>Description</th>
<th>Price</th>
</tr>
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<tbody>
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<td></td>
<td>$3.60</td>
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</table>

No. 2435C

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$4.50</td>
</tr>
</tbody>
</table>

STAMPED STEEL THUMB TACKS

Stamped steel thumb tacks are made of one piece of nickel plated hard steel, and are of the best quality. They have needle finished points, and are unequalled as a low-priced substitute for the regular thumb tacks.

No. 2441A

<table>
<thead>
<tr>
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<tbody>
<tr>
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No. 2441B

<table>
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</thead>
<tbody>
<tr>
<td></td>
<td>$3.30</td>
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COMMERCIAL STEEL THUMB TACKS

The Commercial Steel Thumb Tacks are made very strong and heavy. They are very serviceable for a low-priced article.

No. 2451

<table>
<thead>
<tr>
<th>Description</th>
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No. 2452

<table>
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<tbody>
<tr>
<td></td>
<td>$0.40</td>
</tr>
</tbody>
</table>

Section 15
DIETZGEN LIQUID DRAWING INKS

The absolute uniformity of Dietzgen ink and its dense, smooth flowing, quick and evenly drying qualities are steadily increasing in its popularity. Put up in new style bottle with bell shaped neck insuring close fitting of stopper. Stopper has angular stapes to prevent rolling.

2681. Dietzgen Waterproof, Black

Each, $0.25

2682. Yellow

$.25

2683. Orange

$.25

2684. Scarlet

$.25

2685. Carmine

$.25

2686. Blue

$.25

2687. Green

$.25

2688. Brown

$.25

2689. Brick Red

$.25

2690. Vermilion

$.25

2691. Violet

$.25

Can also be furnished in 4 oz., 8 oz., 16 oz., and 32 oz. bottles. Write for price.

HIGGINS LIQUID DRAWING INKS

2731. Higgins Waterproof Black Ink, 3/4 oz. bottle

Each, .25

2731B. Wrink Waterproof Black Ink, dropper, 3/4 oz. bottle

Each, .25

2732. Waterproof Colored Inks in the following colors: Blue, Brick Red, Barn, Carmine Red, Green, Sea Green, Indigo, Leaf, Orange, Red, Orange, Red, Violet, Russet, Turquoise, Violet, Yellow, Orange, Yellow, White, Neutral Tint

Each, .30

Can also be furnished in 8 oz., 16 oz. and 32 oz. bottles.

EMPTY INK BOTTLES


Doz., $0.50

2693. Stopper with Quills

Doz., $0.60

2693B. Wrink Dropper Stoppers

Each, .10

INK BOTTLE HOLDERS

2740

2741

2740. Iron Ink Bottle Holder and Paper Weight, threaded top, black enameled finish, weight about 12 oz.

Each, $0.85

2741. Edger-NonSlip Ink Bottle Holder, made of molded rubber having considerable gripping qualities which enable it to be used on an inclined drawing board without danger of slipping. It is also designed as a rest for pens, pencils, etc.

Each, $.45

Section 16
BEST TEST RUBBER CEMENT

2799. Best-Test White Rubber Paper Cement

In cans, Gal., Qt., Pt.

<table>
<thead>
<tr>
<th></th>
<th>1/2 pt.</th>
<th>2-oz. Tubes</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3.50</td>
<td>$1.25</td>
<td>$0.65</td>
</tr>
</tbody>
</table>

CARBORUNDUM SHARPENING STONE

Excellent for sharpening ruling pen nibs, compass and divider points, and steel erasers.

2894. Carborundum Stone, wedge shaped slip

5/8 x 2 1/2 in.

Each, $0.50
COLORED PENCILS

The Unique Colored Pencils have a thin diameter lead, the same as writing pencils, which makes them especially adapted for use in writing, checking, figuring, proof reading, marking blue prints, drawing fine and accurate colored lines, etc. Ideal for auditors, bookkeepers, draftsmen, executives, editors, teachers and students. The pencils are of high quality lead, handy hexagon shaped, light in weight, easy to sharpen, and can be erased readily.

No. 3264C, Blue. Each, 9.50. Doz., 0.90
No. 3264D, Yellow. Each, 9.50. Doz., 0.90
No. 3264E, Green. Each, 9.50. Doz., 0.90
No. 3264F, White. Each, 9.50. Doz., 0.90
No. 3264M, Maroon. Each, 9.50. Doz., 0.90
No. 3264-7, Unique Assortment, containing one each: Blue, Red, Green, Yellow, Brown, White and Violet Colored Pencils. Gross, $4.50. Doz., $0.50
No. 3264-12, Unique Assortment, containing one each: Blue, Red, Green, Yellow, Brown, White, Purple, Black, Orange, Light Blue, Pink, and Light Green Colored Pencils. Gross, $2.50. Doz., $0.25
No. 3264-24, Unique Assortment, containing one each: Blue, Red, Green, Yellow, Brown, White, Purple, Black, Orange, Light Blue, Pink, Light Green, Vermilion, Ultramarine Blue, Chrome-Yellow, Field Green, Sepia, Maroon, Ochre, Olive Green, Mauve, Violet, Grey and Dark Red Colored Pencils, including one Pencil Holder. Gross, $5.50. Doz., $0.50

Section 18
ERASERS

Each
Doz.

No. 3324A. Art Gum 1 1/4 x 1 1/4 x 1 1/4
$0.65

No. 3324B. * 2 x 3 x 1
0.67

No. 3324C. * 2 1/4 x 1 1/4 x 3/4
0.19

Dependo is exceptionally soft and smooth, will not scratch the surface and does not crumble. Especially adapted for cleaning drawings of all kinds. Can be used on freshly inked lines without affecting their blackness and intensity.

No. 3324B. Dependo. Size 2 x 3 x 1
$0.19

No. 3347D. * 3 x 1 1/4 x 1 1/4
$0.29

No. 3332-24. Viridian Eraser, Green.
$0.10

No. 3332-24D. Viridian And Pencil Eraser, 3 1/4 x 3 1/4 x 1 1/4. One doz. to box.
$0.75

No. 3332-24D. Maroon Eraser, Red.
$0.10

No. 3332-24D. Maroon Eraser, Red.
$0.75

No. 3332-24D. Maroon Eraser, Red.
$0.50

ERASING SHIELDS

No. 3339. Ink and Pencil Eraser, 2 1/4 x 3 1/4 x 1/4.
$0.50

No. 3339. Ink and Pencil Eraser, 2 1/4 x 3 1/4 x 1/4.
$0.50
### Section 19

**PENS AND PEN HOLDERS**

#### DIETZGEN STEEL PENS

Dietzgen Drawing and Lettering Pens No. 3440 and Crow Quill Pens No. 3442 are designed specially for drawing and lettering on drafting paper. Each in its work, they will be found superior to other makes, as they possess great elasticity, have very few points, and are not too sharp points, permitting rapid work without scratching or catching on the grain of the paper.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Box of 12</th>
<th>$0.50</th>
</tr>
</thead>
<tbody>
<tr>
<td>3440</td>
<td>Dietzgen Drawing and Lettering Pen</td>
<td>Card of 12 with holder</td>
<td>.70</td>
</tr>
<tr>
<td>3441</td>
<td>Dietzgen Crow Quill Pen</td>
<td>Card of 12 with holder</td>
<td>.50</td>
</tr>
<tr>
<td>3442</td>
<td>Dietzgen Crow Quill Pen No. 3442, with improved holder having cork finger piece</td>
<td>Card of 10, $1.20</td>
<td>.60</td>
</tr>
</tbody>
</table>

#### GILLOTT STEEL PENS

- **For Drawing and Lettering**
  - No. 3451S, Gillott Lithographic Pens (No. 290) loose, Dooz. $0.75
  - No. 3454S, Gillott Mapping Pens (No. 291) loose, Dooz. $0.75
  - No. 3452S | 170 | .25
  - No. 3456S | 303 | .25
  - No. 3457S | 457 | .15

#### WOODEN PEN-HOLDERS

- No. 3468, Thin, 5 in., brown enamel finish, for No. 3440, Each $0.06
- No. 3470, Thick, 5½ in., brown enamel finish, for No. 3442, Each $0.07
- No. 3473, Medium, 7 in., finish, for Nos. 3451-3457, Each $0.05
- No. 3475, Thick, 7 in., finish, cork top for Nos. 3451-3457, Each $0.06

#### HENRY TANK PENS

An exceptionally useful lettering pen. By means of a patented device a reservoir is created which holds the surplus quantity of ink thus allowing continuous lettering without a constant hostler of replenishing the supply. This patented feature can be easily released, as shown by the dotted line in the illustration, for cleaning pen.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Dooz.</th>
<th>$7.20</th>
</tr>
</thead>
<tbody>
<tr>
<td>3523-4</td>
<td>Henry Tank Pen (Mfg. No. 4) fine point drawing and lettering pen</td>
<td>$0.75 Per Doz., $7.50 Per Gross</td>
<td></td>
</tr>
<tr>
<td>3523-5</td>
<td>Henry Tank Pen (Mfg. No. 5) fine point drawing and lettering pen</td>
<td>$0.75 Per Doz., $7.50 Per Gross</td>
<td></td>
</tr>
<tr>
<td>3523-12</td>
<td>Henry Tank Pen (Mfg. No. 12) fine point lettering and writing pen</td>
<td>$0.75 Per Doz., $7.50 Per Gross</td>
<td></td>
</tr>
<tr>
<td>3523-15</td>
<td>Henry Tank Pen (Mfg. No. 15) medium point lettering and writing pen</td>
<td>$0.75 Per Doz., $7.50 Per Gross</td>
<td></td>
</tr>
</tbody>
</table>

#### SPEEDBALL PENS

Illustrated Assort. ½ Blue

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Dooz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3525A</td>
<td>Speedball Lettering and Drawing</td>
<td>$0.90</td>
</tr>
<tr>
<td>3525B</td>
<td>Packed one dozen and one number to a box</td>
<td></td>
</tr>
</tbody>
</table>

### Section 20

**MISCELLANEOUS DRAFTING MATERIALS**

#### DRAFTING TAPE

- Scotch Holdfast Drafting Tape
  - Especially made for drafting use, consisting of a one-inch strip of prepared paper tape with a special adhesive. Descriptive circular with directions for use in each carton.
  - No. 3542C, 1 in. wide, 10 yards in carton, Each $0.25
  - No. 3542H, ½ in. wide, 25 yards in carton, Each $0.50

- Scotch Cellulose Tape
  - Scotch Cellulose Tape in Utility Dispenser, ½ x 200 in. Carton, Each $1.00
  - Scotch Cellulose Tape in Utility Dispenser, ½ x 300 in. Carton, 2.50

#### TRIPLE DUTY STAPLER

- Triple Duty Fastener and Stapler for stapling, pinning, and tacking. Equipped with special anti-clog feature.
  - No. 4208, Triple Duty Stapler, Packed 1000, $0.35
  - Carton 10,000 $2.90

#### DUSTING BRUSHES

For removing crumbs of Rubber, etc., from Drawings and Boards.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Carton 1000</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>4209</td>
<td>Dusting Brush, staple set in hardwood, 4½ in. brush, bristles 2 in., handle 6 in.</td>
<td>$0.50</td>
<td></td>
</tr>
<tr>
<td>4211A</td>
<td>Dusting Brush, finest quality, ½ in. inch bristles, straight in hardwood, with 5 inch handle, 13 in. inches over-all in length. It is a flat beveled brush which allows the brush to rest on the constant layer flat or to be placed in a drawer or in a pigeon hole.</td>
<td>$0.50</td>
<td></td>
</tr>
</tbody>
</table>

#### TRIMMING SHEARS

Specially adapted for trimming drawings, tracings, blue prints, etc. Of perfect design, improves with use. Blades are perfect temper, sharp and true cutting edge. Japanned handles, nickel blades. Fully warranted to remain sharp longer, cut easier and outwear any other make.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Carton 1000</th>
<th>Each</th>
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<tbody>
<tr>
<td>4212</td>
<td>Trimming Shears, 14 in. long; cutting edge ½ in. long</td>
<td>$1.75</td>
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#### INGENTO CUTTERS

For card and paper cutting.

<table>
<thead>
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<th>Description</th>
<th>Carton 1000</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>4214-1</td>
<td>Ingento Paper Cutter, ½ in. blade</td>
<td>$2.50</td>
<td></td>
</tr>
<tr>
<td>4214-2</td>
<td></td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>4214-3</td>
<td></td>
<td>3.75</td>
<td></td>
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<tr>
<td>4214-4</td>
<td></td>
<td>4.00</td>
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<tr>
<td>4214-5</td>
<td></td>
<td>11.00</td>
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<td>4214-6</td>
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<tr>
<td>4214-7</td>
<td></td>
<td>27.50</td>
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#### AIR-TIGHT METAL TUBES

These tubes are made of tin with air tight covers. Excellent for keeping rolls of prepared paper and pre-cut paper. Besides being valuable as storage tubes, they can be used for any purpose, thence for easy set up or changed to any convenient place, has made this system very popular in the drafting room.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Carton 1000</th>
<th>Each</th>
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<tbody>
<tr>
<td>4223B</td>
<td>Metal Tube, 37 in. long, 4 in. diameter for 50 yard roll</td>
<td>$1.50</td>
<td></td>
</tr>
<tr>
<td>4224B</td>
<td></td>
<td>2.75</td>
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<tr>
<td>4225B</td>
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<td>10</td>
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**Prices Subject to Change Without Notice**
Section 21
BLUE PRINTING EQUIPMENT

ROSE TOOLS, INC.

BLUE PRINTING EQUIPMENT for the classroom is essential to both the student and instructors. Dietzgen Junior Vertical Electric Printing Machine prints clear, sharp, distinct prints with great economy. The Junior has the same sturdy construction and other outstanding features which have made Dietzgen Senior equipment so satisfactory. The machine has a half cylinder of glass with an open printing surface of 24 x 36 inches; glass is held in a felt-lined metal frame.

ROLLER CURTAIN—The tracing and sensitized paper are held in place by Roller Curtain. Rollers bold curtain at uniform tautness over the entire surface of the glass.

HI-POWER ARC LAMP—The specially designed Hi-Power Arc Lamp gives off an intense heat, rich in printing qualities. Its 12 amp. on 110 or 220 volts, 60 cycle, A.C. and 25 amp. on 110 or 220 volts, D.C. An aluminum reflector insures the best possible distribution of light.

SPEED REGULATOR—An improved pneumatic Speed Regulator insures uniform speed in the descent of the lamp. It is noiseless in operation, absolute in its regulation, and provides for a wide range of speed.

AUTOMATIC CUT-OFF—Automatically extinguishes the light at any desired point. This permits machine to be heated, set in operation, and left unattended, without possibility of prints becoming over-exposed.

DIETZGEN JUNIOR SHEET WASHER
This washer, especially designed for use with the Dietzgen Junior blue printing machine, thoroughly washes and dries blue prints and negative prints in sheets.

GLOBES AND CARBONS

DIETZGEN JUNIOR SHEET WASHER

PINewood DRAWING BOARDS

These drawing boards are made of narrow strips of selected, well seasoned pinewood, joined together by tongue and groove. Two end cleats of the same material allow reasonable contraction and expansion under normal temperature conditions. These drawing boards have two drawing surfaces, and either edge can be used as a working edge.

DRAwING BOARDS, TABLES AND EQUIPMENT

DRAwING BOARD OUTFIT

Dra wing Outfits consisting of a well made Board, T-Square, and two Triangles. Compact, inexpensive and durable, and are excellent for school use.

4400

<table>
<thead>
<tr>
<th>Board Size</th>
<th>Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>4406-1</td>
<td>12 x 17 in.</td>
</tr>
<tr>
<td>4406-2</td>
<td>16 x 21</td>
</tr>
<tr>
<td>4406-3</td>
<td>20 x 25</td>
</tr>
<tr>
<td>4406-4</td>
<td>24 x 30</td>
</tr>
<tr>
<td>4406-5</td>
<td>28 x 33</td>
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<tr>
<td>4406-6</td>
<td>32 x 42</td>
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</table>

4410

<table>
<thead>
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<tr>
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<td>16 x 21</td>
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<tr>
<td>24410-3</td>
<td>20 x 25/6</td>
</tr>
<tr>
<td>24410-4</td>
<td>24 x 30</td>
</tr>
<tr>
<td>24410-5</td>
<td>28 x 33</td>
</tr>
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BICHROMATE OF POTASH

Bichromate of Potash, for intensifying and fixing Blue Prints. In Cans $1.45 $2.45

4414-3

<table>
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<tr>
<th>Board Size</th>
<th>Each</th>
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<td>4414-5</td>
<td>23 x 31 in.</td>
</tr>
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<td>4414-7</td>
<td>39 x 48</td>
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<td>63 x 82</td>
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<td>4414-11</td>
<td>71 x 92</td>
</tr>
<tr>
<td>4414-12</td>
<td>79 x 102</td>
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</tbody>
</table>
EUGENE DIETZGEN CO.

DRAWING TABLES AND STANDS

4430. Utility Folding Stand. Made of hardwood. Especially adapted for student use. It has a height adjustment of 28½ to 33½ in. with an incline of 1¼ to 3 in. at the rear. Each. $5.00

4430-3. Utility Folding Stand with board No. 4430-3, size 20 x 24½ in. Each. 6.85

4430-5. Utility Folding Stand with board No. 4430-5, size 22 x 31 in. Each. 7.70

4432. Simplicity Folding Stand. Made of nicely finished hardwood. Has a height adjustment of 31, 34 and 37½ in. with an incline of 2½ in. at the rear. Each. 8.00

4432-3. Simplicity Folding Stand with board No. 4432-3, size 20 x 24½ in. Each. 10.10

4432-5. Simplicity Folding Stand, with board No. 4432-5, size 22 x 31 in. Each. 10.90

HANDY FOLDING TABLE

The HANDY Drawing Table is a portable, folding drawing table, at low cost. It is a unit complete in itself. The top, a 20 x 26 in. pine drawing board securely attached to a folding support. It folds up like a camp stool, is light in weight, yet strong, sturdy, solid and absolutely firm in any drawing position.

It is easy to handle, and "finger touch" control locks the board at any angle. There is plenty of knee room for comfort. A pencil and instrument rack affords ample room for all instruments. The table, folding to only 3 in. thick when stored, can easily be placed behind a door or in a closet out of the way.

4433. Handy Drawing Table complete with pine wood board 20 x 26 in. and oak stand. Board has pencil and instrument rack. Height of table when opened to horizontal position, approximately 28 in. Each. $6.90

IDEAL DRAWING TABLES

4440-5. Ideal Drawing Table with board No. 4440-5, size 33 x 31 in. Strong, durable and rigid. Made of hardwood, with well seasoned pine wood drawing board tops, provided with hardwood ledges, attached so as to allow for contraction and expansion. Especially adapted for use in schools. Height adjustment is from 32 to 40 in. Each. $15.50

4440-6. Ideal Drawing Table, with board No. 4440-6, size 31 x 43 in. Each. 19.50

WOODEN DRAFTSMEN'S STOOLS

4500. Draftmen's Stool, golden elm, wood seat, height 30 in. Adjustable Seat

4500A. Draftmen's Stool, golden elm, wood seat, height adjustable from 26 to 30 inches

INDESTRUCTO STEEL STOOL

These Indestructo Steel Stools made of angle steel and finished in olive green baked enamel, are light, rigid, durable, comfortable and attractive. They are securely braced and specially reinforced with extra cross-supports and are furnished with a turned out foot rest. The seat is 14½ inches in diameter, made of hardwood, neatly finished.

4508A. Indestructo Stools, with foot rest, 28 in. high

4508B. * * * * * high

MULTUM DRAWING TABLES

The Multum Drawing Tables are substantially constructed of iron, with a neat japanned finish. These tables are very rigid and are adjustable in height from 30 to 46 inches.

The top, which is selected white pine drawing board, can be readily tilted to any angle and revolved to any position and securely held therein. These tables are well adapted for use of Architects, Artists and Draftsmen who desire a drawing table which can be readily adjusted, at their desire, to any convenient position.

These tables can also be furnished with an attaching ring as shown in the illustration, which permits several boards to be used interchangeably on the same stand.

4510. Multum Drawing Stand (without ring or board). Approx. Shp'g Wgt., 26 lbs.

4510-3. Multum Drawing Stand (without ring) with board No. 4410-3, size 20 x 24½ in. Approx. Shp'g Wgt., 31 lbs. Each. $14.00

4510-4. Like No. 4510-3, but with board No. 4410-4, size 20 x 26 in. Approx. Shp'g Wgt., 32 lbs. Each. 16.10

4510-5. Like No. 4510-3, but with board No. 4410-5, size 33 x 31 in. Approx. Shp'g Wgt., 33 lbs. Each. 16.90

4511-5. Like No. 4510-3, but with board No. 4411-5, size 33 x 31 in. Approx. Shp'g Wgt., 34 lbs. Each. 19.00

4510R. Attaching Ring for board. Each. 3.00

PRICES SUBJECT TO CHANGE WITHOUT NOTICE
AUTODRAFT
PORTABLE DRAFTING MACHINE

No. 4610

Every man who uses a drawing pencil will appreciate the convenience of a Dietzgen Autodraft which combines, in one handy, easy to carry unit, every tool needed for drawing: Board, Triangle, T-Square, Protractor, Scale and Thumb Tacks. The protractor graduated L-Square swings over the entire board, follows as fast as you can draw a line—there when you need it, out of the way when you don't. Your knee, a desk, a chair—is now your drawing table.

- Drawing board for drawings up to 14 x 19.
- T-Square. Semi-universal arm holds it always in true.
- Triangles. Protractor mounted L-Square does work of a score of triangles.

The entire mechanism is engineered of sheet metal; control knfabric is of durable Bakelite, highly polished. Board is of high finish, strong yet extremely light-weight Presswood. Available in 2 sizes.

No. 4610, Autodraft, 9 x 12 in., with L-Square and Protractor…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………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