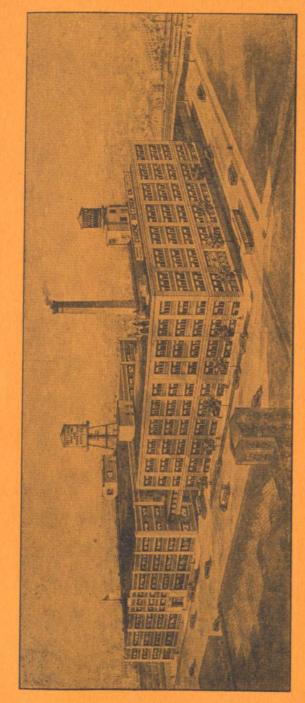
Catalog No. 38A

# DIETZGEN



ESSENTIAL
DRAWING
INSTRUMENTS
and
MATERIALS

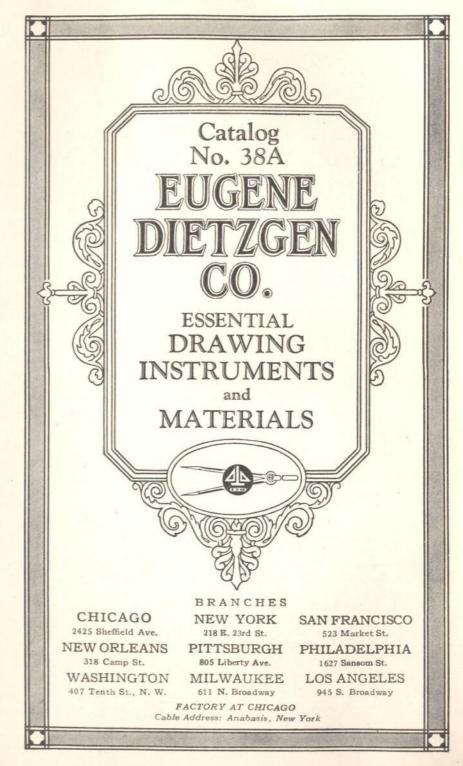


EUGENE DIETZGEN CO.

Factory

and

General Office of Chicago Branch



HIS Catalog No. 38A 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.



## EUGENE DIETZGEN CO.

# Section 1 DRAWING PAPERS DRAWING PAPERS IN SHEETS



	Milot DIEIZGEN AUMON
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, \$51.00 22 × 30 in., Ream, \$72.00 27 × 40 in., Ream, \$118.00
No. 6A.	Stratton Detail Drawing Paper. Medium thick. Buff color. Manila stock, slightly grained surface. An inexpensive paper. In reams and quires.
	9 × 12 in., Ream, \$1.80 12 × 18 in., Ream \$3.60 22 × 30 in., Ream, \$13.50 11 × 15 " 3.45 18 × 24 " 7.20 24 × 36 " " 14.40
No. 6B.	Stratton Detail Drawing Paper. Thick. Otherwise like 6A. In reams and quires.
	9 × 12 in., Ream, \$2.40 12 × 18 in., Ream, \$4.80 22 × 30 in., Ream, \$17.40 11 × 15 " 4.35 18 × 24 " 9.45 24 × 36 " 18.90
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. In quires or reams.
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
No. 10.	Union Drawing Paper. White. Slightly grained surface. Excellent for school use. Sold in reams or quires.
	9 × 12 in., Ream, \$4.40
No. 10G	Vernon Drawing Paper. Green. Medium thick. Slightly grained sur ace. A moderately priced paper, excellent for school use. Sold in reams or quires.
	9 × 12 in., Ream, \$4.20 15 × 22 in., Ream, \$12.50 22 × 30 in., Ream, \$ 25.00 11 × 15 " " 6.30 18 × 24 " " 16.75 24 × 36 " " 33.00 12 × 18 " 8.40 19 × 24 " " 17.70 27 × 40 " " 41.00
No. 10L.	Kempton Drawing Paper. White. Medium thick. Slightly grained surface. A dependable white paper offered at a low price. Suitable for school use. Sold in reams and quires.
	9 × 12 in., Ream, \$3.40
No. 11.	Saxon Drawing Paper. Cream. Medium thick. A tough cream paper. Strong and durable and will withstand repeated erasing without smudging or tearing. Finely grained surface takes ink, pencil, and water color equally well.
	9 × 12 in., Ream, \$4.60 11 × 15 " " 7.00 12 × 18 " " 9.15 13 × 22 in., Ream, \$14.00 18 × 24 " " 18.25 19 × 24 " " 19.25 22 × 30 in., Ream, \$28.00 24 × 36 " " 36.50 24 × 36 " " 36.50 27 × 40 " " 45.00
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.
	9 × 12 in., Ream, \$6.20
No. 11L.	Rockton Drawing Paper. Medium thick. Light cream color with a slightly grained surface. Good erasing qualities. Moderately priced. Popular for High School drawing paper. Sold in reams or quires.
	9 × 12 in., Ream, \$3.40
No. 11T.	Macon Drawing Paper. Medium thick. Light cream color with a finely grained surface. Good erasing qualities. Most popular for High School use. Sold in reams or quires.



#### **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.	Edco	Artist	Board.	White.	Two p	ly.	Sheet	size	22	×	30	in.	100	sheets	\$10.80
No. 16M-3.	Edco		44	-	Three								100		16.20
No. 16M-4.	Edco	-	4	44	Four	4					200		100		23.00

#### Smooth Surface

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

No. 16S-2.	Edeo	Artist	Board.	White.	Two	ply.	Sheet	size	22	×	30	in.	100 4	heets	\$10.80
No. 16S-3.	Edco	ш	4	a	Three								100		16.20
No. 16S-4.	Edco	u	*	44	Four	4	46	4	22	X	30	4	100	4	23.00

#### CHARCOAL PAPERS

No. 19. Strathmore Charcoal Paper. White.

## SCHOOL DRAWING TABLETS AND SKETCH BLOCKS



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

- No. 31. Union School Drawing Tablet. Made of No. 10 Union Drawing Paper, 9 × 12 inches, 16 sheets, heavy manila envelope with each tablet . . . Dozen, \$6.00 Each, \$0.60
- No. 32. Toulon School Drawing Tablet. Made of No. 58 Toulon
  Drawing Paper, 9 × 12 inches, 16 sheets, heavy manila envelope with each tablet . Dozen, \$7.50

  Each, \$0.75

No. 31

No. 33. Edeo Sketch Block. Made of good quality special white drawing paper, 9 × 12 inches, 20 sheets, with cardboard backing, bound on one side only; convenient for sketching.

Dozen, \$2.75 Each, \$0.25

No. 33F. Kempton School Drawing Tablet. Made of No. 10L Kempton Drawing Paper, 9 × 12 inches, 24 sheets, with cardboard backing, bound at top. Excellent for all types of sketching and drawing . . . . . . . . . . . . . . . Dozen, \$3.30 Each, \$0.35

### **ENVELOPES FOR DRAWING PAPERS**

Made of extra heavy, red rope paper, opening on long side.

No. 40G.	Envelopes fo	r drawing	paper,	12	× 16 in.			Per	100,	\$ 8.00
No. 40K.			4	131/2	× 20 "			ш	4	10.00

### EUGENE DIETZGEN CO.

### 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.



										10	7.07.07.07.07.07.	[0]:(0):(0):(0)
							W	idth,	36 in.	42 in.	48 in.	54 in.
of	50	pound	s-1	per	pound	1, \$0.	17					
AL.	10	yards	_	#	roll			100	\$1.20	\$1.30	\$1.55	\$1.75
#	50	AE.	_	46	44				4.20	4.95	5.80	6.60
áú	100	ш	-	ai.	is				7.15	8.40	9.85	11.20
		" 10 " 50	" 10 yards " 50 "	" 10 yards — " 50 " —	" 10 yards — " " 50 " — "	" 10 yards — " roll " 50 " — " "	" 10 yards — " roll . " 50 " — " " .	of 50 pounds—per pound, \$0.17  " 10 yards — " roll  " 50 " — " "	" 10 yards — " roll	of 50 pounds—per pound, \$0.17  " 10 yards — " roll \$1.20 " 50 " — " " 4.20	Width, 36 in. 42 in. of 50 pounds—per pound, \$0.17  " 10 yards — " roll \$1.20 \$1.30  " 50 " — " " 4.20 4.95	of 50 pounds—per pound, \$0.17  " 10 yards — " roll \$1.20 \$1.30 \$1.55  " 50 " — " " 4.20 4.95 5.80

No. 59W. Macon 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	40-50	pound	s-p	er pou	nd,	\$0.27		W	idth,	30 in.	36 in.	42 in.
			yards								\$0.95	\$1.10	\$1.30
		50		_							3.80	4.40	5.20
Alec	in		s see T										

#### Section 2

#### TRACING CLOTH

No. 128. Madison Tracing Cloth. Blue. A popular tracing cloth that has met with favor in many drafting rooms. Medium weight, yet exceptionally transparent. Durable, will withstand repeated erasures. Uniform finish takes ink readily. Reproduces clear contrastive prints. Excellent quality at low cost.

						W	idth,	30 in.	36 in.	42 in.
Roll of 24 yards								\$17.50	\$19.25	\$23.75
Also obtainable in	14	vd. r	olls 3	36" W	ride.					

No. 135. 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 Per Yard 1.10 1.20 1.30 1.45 1.55 2.15 2.70



No. 142. Tracing Cloth Powder. For preparing tracing cloth so it will take ink readily. No cloth or tuft of cotton needed, as the powder is rubbed evenly over the surface with, and thoroughly removed by, the felt disc which is securely fastened to the top of the cover. In 3 oz. canister shakers.

Doz.						\$2.80
Each	1.					.25



ROSE TOPESTING SUBJECT TO CHANGE WITHOUT NOTICE



#### Section 3

TRACING PAPERS 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. width. Winston Tracing Paper. Thin. White, fairly smooth surface. This is an exceptionally transparent paper, well adapted for architectural detailing and rough pencil sketching. Its low cost permits liberal use in preliminary work and for full size details. An unusual value in tracing paper. \$1,40 \$1.90 No. 161M. Winston Tracing Paper. Medium, otherwise like No. 161. 2.75 3.75 Winston Tracing Paper. Median, Silicitive Width, 36 in.

Roll of 20 yards, . . . . . \$1.25
2.55 42 in. 3.00 Lupton Tracing Paper. Thin. White, smooth but unglazed surface. A natural white 100% rag stock, thin tracing paper, somewhat smooth but unglazed surface, giving it a good pencil surface. This paper has exceptional strength, good erasing qualities and excellent tracing and blue printing transparency. It is suitable for both pencil and ink, and is especially adapted to pencil drawings and sketches of permanent record. Rolls watermarked "Dietzgen Lupton". Width, Briston Bond Tracing Paper. Medium thin. A natural white, bond tracing paper. It has a No. 167 moderately smooth, unglazed surface with just 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 great tearing and folding strength, and will therefore, withstand any amount of rough handling. The erasing qualities are perfect, Briston Tracing Paper is ideally adapted for fine detail drawing of a permanent nature in pencil or ink, and is equally adapted for color. It has good transparency, and will give "contrasty" reproductions. Width, 30 in. 36 in. Roll of 20 yards, . . . . . . \$2.10 " 50 " . . . . . . . . 4.45 \$2.50 \$2.85 5.50 6.35 No. 173L. Milton Transparent Tracing Paper. Thin. A clear white, transparent tracing paper, with a Wilton transparent tracing Paper. Inn. A clear white, transparent tracing paper, with a grained or fine tooth surface. It contains a high percentage of clean white rags, which gives it excellent strength. The erasing qualities of this paper are exceptionally good, and it will take pencil, ink and color equally well. This paper has a high uniform transparency from which blue prints of great contrast can be produced. These features make Milton Tracing Paper ideal for detailing, drawing and sketching. It is, therefore, popular among architects and engineers. Width. 5.10 No. 176M. Dependon Tracing Paper. Medium thin. A white transparent tracing paper. This paper is like No. 176L but heavier, and will stand more handling than No. 176L and still maintain its transparency and reproduction qualities. Its heavier weight without loss of transparency, makes it an ideal moderately priced paper for detail drawing and sketching. Width, 30 in. 36 in. \$2.65 \$2.85 5.20 5.70 Bolton Tracing Paper. Medium thin. Bluish tint. Unglazed surface. A strong tracing paper, bluish in tint, with unglazed surface. This paper has just the right amount of "tooth" to cause it to take pencil well, and is also adapted to ink or color work. 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 No. 183. paper makes excellent reproductions from pencil and ink drawings. It is also most suitable for typewritten specifications, and data to be reproduced by the blue printing or other reproduction processes. Bolton Tracing Paper is one of our most popular tracing 42 in \$3.50 In sheets. \$ 4.40 4 500 4 4 4 4 500 4 4 4 4 5.50 12.45 Crafton Transparent Sketching Paper. Heavy. White. Fine tooth surface. A heavy, No. 185. yet very transparent, white tracing paper with an excellent, fine tooth drawing surface. This paper is strong, and will not discolor with age. The erasing qualities are exceptionally good, as lines can be erased repeatedly without smudging or leaving "ghost" marks. Because of its high transparency, it makes perfect reproductions, and is well adapted for accurately tracing fine line drawings, blue prints, or old originals. Crafton Tracing Paper, not being treated with oil or other transparentizing substances, being highly transparent and having unusual erasing qualities, fills a need long felt in the drafting



### EUGENE DIETZGEN CO.

#### TRACING PAPERS AND VELLUMS

No. 186A. Anston Tracing Paper. Extra thin. White. Fairly smooth but unglazed surface.

An extra thin tracing paper with fairly smooth but unglazed surface. It has good strength for this type and weight of paper, has unusually good erasing qualities, and takes pencil well, as the type of surface does not necessitate constant resharpening of a soft pencil. This paper is exceptionally transparent, permitting good "contrasty" reproductions. Anston Tracing Paper serves the low price field in sketching paper, for it is very suitable for preliminary sketches or drawings, especially with soft pencil, where repeated crasures can be made without smudging. This paper is a great favorite in the drafting room as well as in the class room. Roll of 20 yards

No. 196W. Winston Detail Tracing Paper. White. Thin. Unglazed surface. An ideal low priced paper for full size pencil drawings and preliminary sketches. It is strong and will withstand considerable erasing. It has a fine tooth which takes pencil readily, and can be used for making either direct positive prints or blue prints. In rolls 18 inches wide-24 feet long

All tracing papers also obtainable in cut sheets of any size.

#### TRACING PAPER SHEETS IN TUBES



#### No. 196

Bolton Tracing Paper. Bluish tint. Medium thick. Unglazed surface. Erases well Very transparent. Takes pencil and ink. Bluish tint permits of making excellent repro-18 × 24 inches, 100 sheets packed in pasteboard tube . . . .

#### TRACING VELLUMS

Miscellaneous Size 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. 192M in 36-in, widths.

No. 192M. Edvell Tracing Vellum. Medium weight. Pure white. Fine tooth surface. Adapted for pencil tracing. This vellum is made of 100% clean rag stock, and is therefore strong, durable, and exceptionally transparent. The erasing qualities are excellent, as it will not "ghost" under repeated erasures. The high uniform texture of the stock permits of a clear, even background and makes excellent blue prints and other reproductions.

Width, 30 in. 3

42 in Roll of 20 yards, in tubes . . . . \$3.75 . . . . . . 8.60 \$4.25 \$ 4.75 9.85

No. 193L. Excello Tracing Vellum. Thin. Pure white. Fairly smooth surface. A pure white, tracing vellum with a fairly smooth but unglazed surface, which gives it an excellent pencil surface. The basic stock of this vellum is made of 100% clean rags and is prepared by our perfected process. The erasing qualities are such that it is possible to erase pencil lines without leaving a "ghost" mark in the finished reproduction. The light weight affords unusual transparency; which combined with the smooth finish permits easy tracing and great speed in making all types of reproductions.

Width, 30 in. Roll of 20 yards, in tubes . . . . \$3.75 " " 50 " " wrappers . . . . 8.60 \$ 4.75 9,85 11.10

Nos. 192M and 193L are processed in a manner so that WE GUARANTEE THEM To be odorless and to remain so.

To absolutely retain their white color. Not to lose their transparency with age.

No. 194M. Eton Tracing Vellum. White. Medium weight. Finely grained surface. It is made of 100% pure, clean white rag stock, and is exceptionally strong and transparent. Eton Vellum is processed in a manner and surfaced so that it will take ink or color equally as well as pencil, for which it is ideally adapted. It will not buckle under treatment with water color or ink. One of its special features is its fine erasing qualities. Blue prints or other reproductions made from drawings on Eton Vellum are clear, sharp, and "contrasty" because of the uniform texture and high transparency of this stock. Rolls watermarked "Dietzgen Eton."

- "							W	idth,	\$3.7		\$4.		\$ 4.75
Roll of	20 yards 50		wrappe		:	:	:		8.6			85	11.10
In She													
12 × 1	8 inches,	500	sheets	packed	in	carton							\$15.75
18 X 2	4 "	250		-	~	4							16.00
24 X 3	6 "	100		rolled o	on	pastebo	ard	tubes				-0	12.50

No. 194H. Eton Tracing Vellum. White. Heavy. Finely grained surface. Same as No. 194M, but slightly heavier, giving greater strength for extra hald 20. 42 in. \$ 5.25 \$ 4.75

All vellums also obtainable in cut sheets of any size

drawings.

Roll of 20 yards .

room. This paper is highly recommended for all types of ink or color work as well as pencil

\$4.25

12.35

11.10



### Section 4 REPRODUCTION PAPERS







#### **BLUE PRINT PAPERS**

210. Excello Satin Blue Print Paper. Thick. 50% rag content. Produced to meet a demand for a moderate 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.

-						W	idth,	, 24 in.	271	n. 30	in.	36 in.	42 ir	1. 48 in.	54 in.
Roll	of	50	yard	ds, .		100		\$3.05	\$3.	15 \$3	3.30	\$3.90	\$4.5	0 \$5.75	\$6.60
	4	25	44					1.70	1.	75 1	1.85	2.15	2.5	0 3.20	3.65
	44	10	- 4					1.00	1.0	05 1	.10	1.30	1.5	0 1.95	2.20
Uni	on	Sa	tin	Blue	Print	Par	oer.	Thick.	100%	selected	1 rag	stock.	Finest	printing and	

ing qualities. Ideal for school use. Width, 24 in. Roll of 50 yards, . \$5.25 \$6.25 \$9.25

2.50 2.90 3.45 4.00 5.10 " " 10 1.50 1.75 2.10 2.40 3.10

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

A SPEED-about 4 minutes exposure in bright sunlight. CH

30 to 40 seconds exposure in bright sunlight.
20 " 30 " " " " " " "

#### VANDYKE SOLAR PAPERS

227. Van dyke Solar Paper. Medium Thick, For Positive Prints-brown lines on white background 30 in 36 in. 42 in. Roll of 50 yards, . \$ 9.90 \$11.50 \$13.30 " 10 3.30 3.85 4.45 Vandyke Solar Paper. Thin. For Negative Prints-white line on dark brown background. Excellent for large or quantity mailing. 36 in.

Roll of 50 yards, . \$ 9.00 \$10.60 \$12.35 3.00 3.55 Also obtainable in cut sheets of any size.

We have extensive sensitizing departments at our 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

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 potash they can either be developed by a swab of cotton moistened with 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.

250. Directo Positive Print Paper, Thick,

		W	idth,				30 in.	36 in.	42 in.	54 in.
Roll of 50 yards,			*				\$5.40	\$6.40	\$7.40	\$10.80
" " 10 "							1.80	2.15	2.45	3.60
	AT		La 2.	1-1	- 1-	 -1				The state of the s

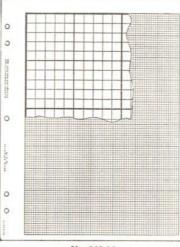
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

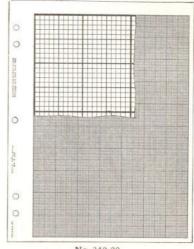
### EUGENE DIETZGEN CO.

#### Section 5

### CROSS SECTION PAPERS GRAPH SHEETS

Printed in Olive Green





No. 340-10

No. 340-20

#### Letter head size, $8\frac{1}{2} \times 11$ in.

Dietzgen Graph Sheets are finished, accurate papers for statisticians, technical schools, labora-tories, etc. Printed from accurate engravings in a neutral olive green which can be photographed or photo-printed. The paper used is 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, \$13.00 100 sheets, \$1.50 10 sheets, \$0.25
No. 340-10.	Engraving 7 × 10 in., 10 × 10 to the inch. 5th and inch lines progressively accented. 1000 sheets, \$13.00 100 sheets, \$1.50 10 sheets, \$0.25
No. 340-20.	Engraving $7 \times 10$ in., $20 \times 20$ to the inch. 5th, 10th, and inch line progressively accented.
	1000 sheets, \$13.00 100 sheets, \$1.50 10 sheets, \$0.25
No. 340-M.	Engraving 18 × 25 cm. Half cm., cm. and 5th cm. lines progressively accented.  1000 sheets, \$13.00 100 sheets, \$1.50 10 sheets, \$0.25
No. 340-I.	Engraving 71/16 × 934 for Isometric perspectives and orthographic projections. 1000 sheets, \$13.00 100 sheets, \$1.50 10 sheets, \$0.25
No. 340-L110.	
	1000 sheets, \$13.00 100 sheets, \$1.50 10 sheets, \$0.25

No. 340-L310. Engraving 7 × 10 in., Semi-logarithmic. Three 3 1/3 in. cycles by 10 divisions to inch. 5th lines accented. 1000 sheets, \$13.00 100 sheets, \$1.50

No. 340-P.

10 sheets, \$0.25 Engraving 71/2 × 10 in., Polar coordinate. Concentric circles 1/10 in. apart; divided to degrees and numbered every 10 degrees in both 1000 sheets, \$13.00 100 sheets, \$1.50

10 sheets, \$0.25

#### BINDERS

No. 341.

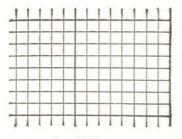
Binder for loose leaf sheets, 81/2 X 11 in., substantially made of stiff binder board, covered with durable black cloth; two 34-in. snap-rings, Each, \$0.80

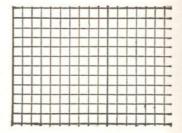
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PRICES SUBJECT TO CHANGE WITHOUT NOTICE



#### CROSS SECTION PAPERS





No. 368-8

No. 368-10

10 Shts., \$0.50

Quire, \$1.00

Each, \$0.60

#### PLATE PRINTED SHEETS

No. 368-5.	Plate Printed Cross Section Paper in blue, on light weight ledger paper, 5 × 5 to 1 inch, inch line heavy Sheet size 17 × 22 inches.
	Ream, \$18.00 Quire, \$1.00 10 Shts., \$0.50
No. 368-8.	Plate Printed Cross Section Paper in blue, on light weight ledger paper, 8 × 8 to 1 inch, inch line heavy. Sheet size 17 × 22 inches.
	Ream, \$18.00 Quire, \$1.00 10 Shts., \$0.50
No. 368-10.	Plate Printed Cross Section Paper in blue, on light weight ledger paper, $10 \times 10$ to 1 inch, inch line heavy. Sheet size $17 \times 22$ inches.

Ream, \$18.00

	QUADRILLE RULED SHEETS
No. 370.	Ruled Cross Section Paper. Quadrille ruled in blue on one side only, on bond paper, $10 \times 10$ 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 $8\frac{1}{2} \times 11$ in. Package of 500 sheets
No. 370B.	Ruled Cross Section Paper. Quadrille ruled in blue on one side only, on bond paper, 10 × 10 to the inch with heavy inch lines. Sheet size 17 × 22 in. Package of 500 sheets
No. 372.	Like 370 but ruled 8 $\times$ 8 to the inch, sheet size $8\frac{1}{2}$ $\times$ 11 in. Package of 500 sheets
No. 372B.	Like 370B but ruled 8 × 8 to the inch, sheet size 17 × 22 in.  Package of 500 sheets

#### SKETCHING PAD OF TRACING PAPER

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

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 × 10 to the inch on the other, which when placed under the top sheet of tracing paper furnishes a guide line for sketching.

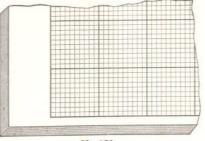
These pads may enable one to attain facility in free-hand drawing and lettering. Sketches can be reproduced by blueprinting and all other reproduction processes, thus converting them into permanent records.

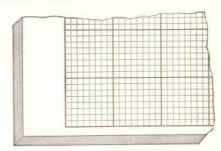


No. 374

### EUGENE DIETZGEN CO.

#### CROSS SECTION PADS





No. 375

No. 376

#### PLATE PRINTED

No. 375.	Cross Section Pads on Ledger paper, plate printed insuring accuracy of divisions and uniformity of color, printed in blue 10 × 10 to the inch with heavy inch lines. Most suitable for technical sketching. Reasonable in cost.
	Sheet size, 8½ × 11 in. 50 sheets to a pad.  Package of 12 pads,
No. 376.	Like No. 375 but divisions 8 × 8 to the inch.  Package of 12 pads,
No. 378.	Cross Section Pad, Quadrille ruled in blue, on writing paper the full area of the sheet on both sides, $5\times 5$ to the inch. All lines uniform ruling. Sheet size $8\frac{1}{2}\times 11$ in. Pad of 50 sheets,
	LITHOGRAPHED
No. 375½.	Cross Section Pad, lithographed in blue; 10 × 10 to the inch. 25 Sheets of good quality ledger paper. 12 pads in folding carton. Pad,
No. 376½.	Similar to 3751/2 but 8 × 8 to the inch. Pad,
No. 37716	Similar to 3751/6 but 4 × 4 to the inch. Pad 0.25

### "PRETTY NEAT" DRAWING BOARD



No. 379B

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.	816	×	11	in.		12	¥8	1.0	Each,	\$1.50
No. 379C.	4		4	4	816							2	#	1.75
No. 379D.	44				9	×	12	4	40				*	1.75
No. 379F.	44		4	×	10	×	15	#					-	2.25
No. 379K.	ш			4	12	X	18	a	*-				-	3.50

(For triangles for use with the "Pretty Neat" Drawing Boards, see catalog Nos. 1932B, 2017.)



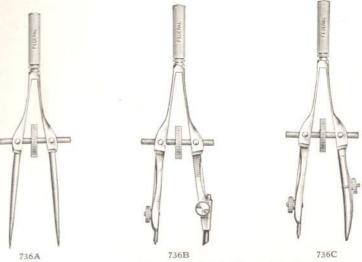
# DRAWING INSTRUMENTS RULING PENS



610.	Gem Un	ion Ma	aster	Rulin	g P	en. 5	in. H	ligh spe	ed stee	el.	Club	hand	ile,		Each,	\$3.00
611.	"		ii.			5 1/2	# 1	и	ш		ш	a			ш	3.25
646.	Champio	n Ruli	ng Pe	n. 5	i	n. Clu	b hand	ile .			20	1000		321	Each	\$2.00
647.	4	4		. 5	1/2	a a	-			٠					4	2.25
648.	Federal I	Ruling	Pen.	5	in.	Spring	blade.	black	handle				3		Fach	\$1.30
649.			н	51/2				ü							Bach,	1.40
656A.	Reliance	Ruling	Pen.	5	in.	Plain	spring	blade.	Alum	inu	ım ha	ndle			Each,	\$0.70
656C.	ш	a		5	#			cleaning							ar.	.80
656.	-	**	#	5	н			, black							u	.60
657A.	Reliance	Ruling	Pen,	51/2	in.	Plain	spring	blade.	Alum	ini	ım ha	ndle			Each,	\$0.70
657C.	4	u	#	51/2				leaning							#	.80
657.	4	. 46	#	51/2				, black							4	.60
658C.	Prep Ruli	ng Per	1, 5	in.	Spr	ing bla	de clea	aning d	evice.	bla	ick he	ndle	8		Doz.,	\$5.40
659C.	ш	*	51/2	#					ш	44		=			"	5.40
662AC.	Designo a device. F	and Co	nstru	icto	Rul	ing Per	n, 5 i	n., Spi	ring b	lad	e wit	th cl	eani	ng	Doz.,	\$5.40
663AC.	Designo a device. F	and Co	nstru alum	cto	Ruli	ing Per	1, 51/2	in., Sp	oring b	olac	le wit	th cl	eanir	ng	Doz.,	
681K.	Reliance	Detail	Rulin	g Per	1, бі	n., Spri	ing bla								Each,	
691.	Champio	n Cont	our o	r Cu	rve I	Pen. 4	% in. 1	Metal t	ubular	kn	urled	hano	ile,		Each,	2.00

## EUGENE DIETZGEN CO.

### BOW INSTRUMENTS Fork Spring Type



Federal Bows are made of Spring-steel with "Ezy-Set" needle points

	Federal				in.,	side sc	rew a	djustment,					Each, \$	1.80
22B.			Pencil, Pen.		4		4						**	2.70
	Federal				in.,	center	screw	adjustmen	t.				Each,	
36B.		44	Pencil,	334	14		de .				-		**	3.10



Reliance Bows are made of Spring-steel

723C.												1.65
737A. Relian 737B. "	e Bov	Pen, Divider, Pencil,	334	in.	, cente	r screv	v adjustment,	:			Each,	1.65

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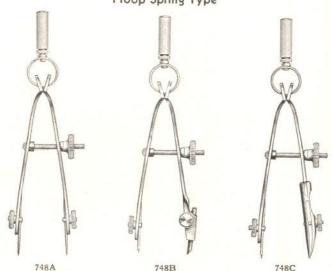


Each, \$0.70

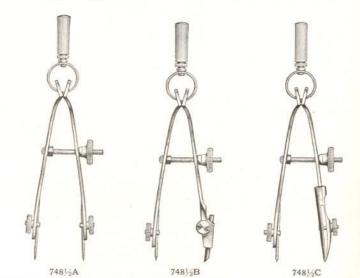
1.00

1.10

### BOW INSTRUMENTS Hoop Spring Type

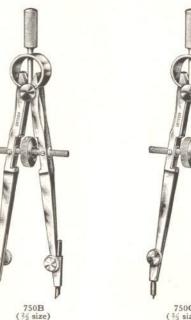


			Pi	ep l	Bow	s are	made	of nickel sil	ver	and	stee					
748A. 748B. 748C.	Prep	Bow "	Dividers, Pencil, Pen,	3¾ 3¾ 3¾	in.,	side so	rew a	djustment,	:	:	:	:	:	:	Each,	\$0.70 .90 1.00
756A. 756B. 756C.	Prep	Bow "	Dividers, Pencil, Pen,	3¾ 3¾ 3¾	in.,	center "	screw "	adjustment,	:	:	:	:	:	:	Each,	1.10 1.20 1.30

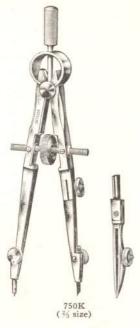


### EUGENE DIETZGEN CO.

### GEM UNION MASTER BOW INSTRUMENTS







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 wide 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.

	Gem Union I											
	diameter											Each, \$5.
750C.	Gem Union M	laster E	Bow Per	1, 51/2	inch, sim	ilar to 7	50B. ,					Each, \$6.
750K.	Gem Union M to 750B. Has	one fix	ked nee	dle po	oint leg; t	the othe	r leg h	as an	inter	char	ngeable	
	divider, pencil,	and pe	n part.									Each, \$7.



## 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 quickly.

768C.	Federal	Self	-Ad	justi	ng,	Drop	Spring	Bow	Pen,	
	4-in.							E	ach,	\$4.0

768K. Federal Self-Adjusting, Drop Spring Bow Pen, with Pencil Part, 4-in. . . . Each, \$4.75

7481/2C.

Designo Bow Dividers, 33/4 in., side screw adjustment,

Designo Bow Dividers, 33/4 in., center screw adjustment,

Pencil,



### 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	40	plate type straightening device; made of rolled	nickel	
				silver; reversible and replaceable steel points.	Each,	\$1.85

803R. Reliance Hairspring	*	6	44	same as 801R,	, but	with	new	spring	needle	type hair		
				spring device.		*/	4				Each,	\$2.65

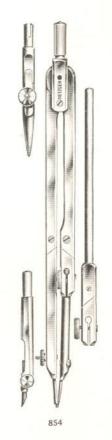
809.	Prep Plain	*	6	" with new concealed type straightening device; made of nickel silver; with reversible and replaceable steel
				needle points Each, \$1.10

811.	Designo Plain	#.	6	4		type straightening								
					essed	metal,	h	eavily	1	nickel	-plat	ted;	with	steel
					points.					46				Each, \$0.90

## EUGENE DIETZGEN CO.



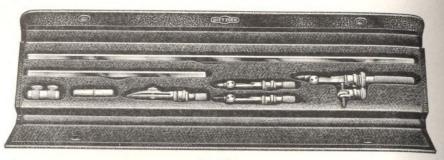




835. Federal Compasses, 6 in., (square type) made of rolled nickel silver and steel, with new concealed type straightening device; fixed needle point leg with screw-thread needle point; interchangeable pencil part, and spring-blade pen part; 4 in. lengthening bar; combination screwdriver and lead box with extra leads; key; metal needle box with extra needles, complete. All knee insert plates and screws in the joints are made of stainless steel, assuring continual perfect operation.



#### CHAMPION BEAM COMPASSES



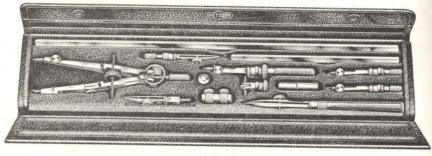
#### No. 967A

Constructed of heavy chromium finish brass and steel, these instruments are durable and strong with a nontarnishing finish which is greatly resistant to scratches and dirt as well as 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 Compasses, with two semi-cylindrical beams 3/16-inch diameter, one 13-inch beam and one 6-inch beam, thus making the instrument 19 inches overall. Micrometer adjustable center part, one pen, one coupling (with center stop), and one needle point with shoulder, lead box, complete in blue velvet-lined case. . .

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

### PROFESSIONAL DRAWING SETS



No. 968AK

A useful set of instruments in a beautiful compact case. Regardless of your present instruments these sets have an immediate appeal. Consist of the following instruments: large bow instrument with approximately an 8-inch range, a micrometer adjustable beam compass which draws circles over 3 ft. in diameter, and a new style ruling pen with Club Handle.

No. 968AB. Professional Drawing Set, containing, in blue velvet lined case, the following: 1 only No. 967A Champion Beam Compass

1 " No. 647 Champion Ruling Pen—5½-inch.
1 " No. 750B Gem Union Master Bow Pencil.

No. 2467 Center tack, 3/8-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.

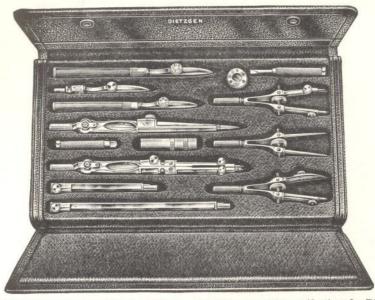
No. 968AK. Professional Drawing Set, like No. 968AB, except containing: 1 only No. 750K Gem Union Master Combination Bow Instrument with one fixed needle point leg and one interchangeable divider, pencil and pen part, in place of the 750B Bow Pencil. . . Set, \$18.50

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



### EUGENE DIETZGEN CO.

### Section 7 DRAWING INSTRUMENT SETS GEM UNION DRAWING INSTRUMENTS



Professional Engineers, Draftsmen, Designers, Architects, wrote the specifications for Dietzgen Gem Union Drawing Instruments. Not just another grade of drawing instruments, but the highest quality instruments for professional men to do extremely accurate, precise work. These Trigonal (American) type instruments are very graceful in form and of the correct weight and balance,

Gem Union instruments are made of cold rolled nickel silver and the highest grade tool steel; the instruments are cut (not cast or coined in die) and are fitted and finished by hand. Thus, strength, rigidity, lightness and balance are combined affording the greatest efficiency. Finish is remarkably fine and their perfection in every minute detail of construction, form, proportion and material is immediately evident. Each Gem Union instrument is guaranteed to be absolutely perfect in every respect.

Pocket-book button case lined with green velvet.

#### 7 Instrument Sets

1007C. Gem Union Drawing Instruments in pocket book leather case, containing: 610 High-speed Steel Ruling Pen, 5 in., "Iso-Balance" Palisander handle, graduated High-speed Steel Ruling Pen, 51/2 in., "Iso-Balance" Palisander handle, graduated 730A Stainless Steel Bow Dividers, 3% in., center screw adjustment. " Pencil, 334 " " "Ezy-Set"-needle point. " " Pen, 33/4 in., center screw adjustment, "Ezy-Set"—needle point with spring blade pen part of High-speed steel.

774 Hairspring Dividers, 6 in., Union Pivot joint with differential straightening device made of cold rolled nickel silver with stainless steel points. 819 Plain Compasses, 6 in., Union Pivot joint with differential straightening device;

fixed needle point leg with screw thread needle point; interchangeable pencil part, pen part; two lengthening bars, one 4-in. and one 6-in. Made of cold rolled nickel silver with steel parts made of stainless steel.

2466 Center Tack. Combination Screwdriver and lead box. Combination key and needle box, with extra needle points. Metal box with spare parts. Cleaning and polishing cloth, . . . . . . . . . . Set, \$41.50 Gem Union Drawing Instruments, same as 1007C except with 716A-B-C Side Screw

Adjustment Bows in place of 730-A-B-C, . . . . . . . . Set. 41.50 1007Z. Gem Union Drawing Instruments, same as 1007 except in zipper case, . .

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

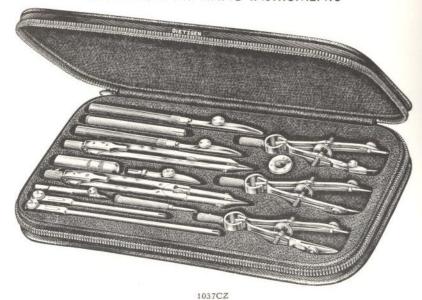
NOTE: In stating the number of instruments in a set, accessories and parts are not counted.

ROSE TOOLS, INC.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE



#### CHAMPION DRAWING INSTRUMENTS



Designed for those who prefer a flat, round type instrument to that of the trigonal 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

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.

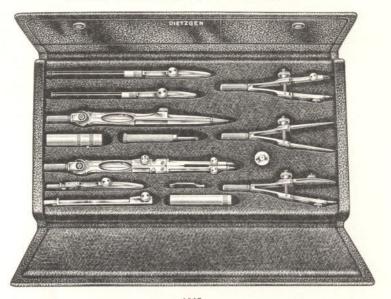
Zipper style fastener case, lined with blue velvet.

	7 Instruments
1037CZ.	Champion Drawing Instruments in zipper style fastener case containing: 646 "Iso-Balance" Palisander Handle Ruling Pen, 5 in., with spring blade. 647 " 51% " " " " " " " " " " " " " " " " " " "
	754A Center Screw Adjustment Bow Dividers, 754B "Ezy-Set" needle points.
	754C " " Pen, 414 " " " "
	786 Hairspring Dividers, 6 in., fork slide type straightening device; adjustable, reversible, and replaceable needle points.
	832 Compasses, 6 in., fork 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.
	Combination Screwdriver and Lead Box.
	Combination Belewaliver and Lead Box.  Combination Handle and Needle Box, with extra needle points.
	Metal box with spare parts.
	Cleaning and Polishing Cloth, Set, \$25.50
1037C.	Champion Drawing Instruments, same as 1037CZ but in Pocketbook leather case Set. 24.00
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:
	672 Ebony Handle Detail Pen, 6 in., spring blade. 764K Drop Spring Bow Pen and Pencil, 4½ in., spring blade, Set, 31.75
10000	Champion Drawing Instruments; same as 1039C except in zipper case, . Set, 33.75
1039CZ.	



### EUGENE DIETZGEN CO.

#### FEDERAL DRAWING INSTRUMENTS



1047

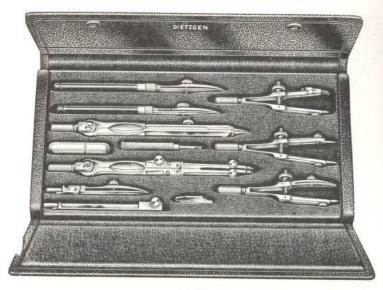
These high quality (square type) instruments meet the specifications of those in the professional and non-professional field who require a high grade instrument at moderate cost. They have earned an enviable reputation among a wide class of users, which reputation is rooted in the reality of performance.

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:
	648 Ruling Pen, 5 in., spring blade, unbreakable black handle.  649 a 55/2 in., spring blade, unbreakable black handle.  722A Bow Dividers, 3 ¼ in., side screw adjustment.  722B a Pencil, 3 ¼ a a a "Ezy-Set" needle point.  722C Pen, 3 ¼ a a a "Ezy-Set" needle point.  722C a Pen, 3 ¼ a a a a a a a a a a a a a a a a a a
1047Z.	Federal Drawing Instruments, same as 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, 25.80
	6 Instrument Sets



#### MONARCH DRAWING INSTRUMENTS



1047M

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 universities.

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 draftsmen are embodied in Monarch sets. Pocket book button case, lined with blue velvet.

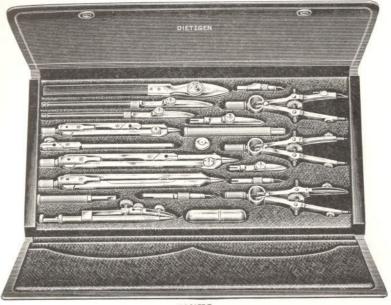
1047M.	Monare	7 Instrument Sets Monarch Drawing Instruments, in pocket book case, containing:													
	648M	Ruling Pen, 5 in., unbreakable black handle.													
	649M	4 4 51/4 4 4 4													
	722½A	Bow Dividers, 3% in., side screw adjustment.													
		" Pencil, 334 " " "													
	722½C	" Pen, 3¾ " " "													
	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.													
	2467	Center Tack.													
		Combination screwdriver and lead box with extra leads.													
		Metal box with spare parts.													
		Flat Key.													
		Cleaning and Polishing Cloth, Set, \$15.10													
1047MZ.	Monard	h Drawing Instruments, same as No. 1047, except in zipper case, . Set, 16.60													
		6 Instrument Sets													
1046M.	Monarc with No	h Drawing Instruments, in pocket book case similar to No. 1047M, 648 Ruling Pen omitted, Set, 13.10													
NOTE: I		the number of instruments in a set, accessories and parts are not counted,													

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### UGENE DIETZGEN CO.

#### KROMET DRAWING INSTRUMENTS



1060KC

Though a comparative new-comer to the Dietzgen Drawing Instrument line, Krommet sets are used extensively in the drafting room as well as the class room. Everyone instantly appreciates their many outstanding advantages, features never before obtainable in instruments at such moderate price. Through economies effected by the combination of modern metallurgical science and production methods, we are able to provide in Kromet Drawing Instruments quality at moderate cost.

Kromet flat, round type instruments are substantially construents quarty at moderate cost.

Kromet flat, round type instruments are substantially constructed, carefully finished and attractive in appearance; with proper care they will give excellent service. They are finished in enduring chromium, imparting a pleasing blue-white surface; non-tarnishable, thus preserving the original flawless appearance.

Pocket book button case, lined with blue velvet.

#### 10 Instrument Sets

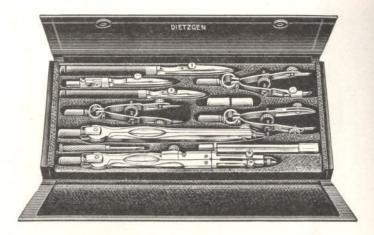
		TO THE WHITE DOES
1060KC.	Kromet 652 653	Drawing Instruments, in pocket book case, containing: Ruling Pen, 5 in., with spring blade, ebony handle.
	681K 7551/2A 7551/2B	Detail Pen, 6 ebony handle.  Bow Dividers, 3¾ in., center screw adjustment.  "Pencil, 3¾ ""
	755 1/2 C	Pen, 3¾ " " " " " " " " " " " " " " " " " "
	771K 798	Drop Spring Bow Pen and Pencil, 4½ in., spring blade Pen Part. 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
	074	spring blade pen part; 4 in. lengthening bar. Compasses, 41/4 in., with straightening device; fixed needle point leg; adjust-
	874	able, reversible and replaceable needle points; interchangeable divider, pencil
	2467	and spring blade pen parts. Center Tack.
	2407	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
		7 Instrument Sets
1057KC.	Kromet omitting Detail P	Drawing Instruments in pocket book case, similar to No. 1060KC, except No. 874, 4½ in., Compasses, No. 771K Drop Spring Bow Pen, and No. 681K en. Set, \$14.50
1057KCZ.	Kromet	Drawing Instruments, same as No. 1057KC except in zipper case Set 16.00
		3 Instrument Set
1053KC.	Kromet Special (	Drawing Instruments containing: One No. 653 Ruling Pen 5½ in., One Combination Bow Instrument 3¾ in., with pen, pencil, and divider parts;

ROSE TOOLS INC.

One No. 840 Compasses 6 in.; combination screwdriver and lead box; combination metal handle and needle box; metal box with spare parts, . . . . Set,



#### RELIANCE DRAWING INSTRUMENT SETS



1066R

Designed for the many non-professional users of drawing instruments who require good serviceable instruments at moderate cost. These Trigonal (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 button case, lined with velvet.

Catalog Number of Set	1067RCD	1067RC	1067R	1066RC	*1066R	1065R	1065 1/2R	1064R
Number of Major Instr. in Set	7	7	7	6	6	5	5	4
Individual Reliance Instruments Ruling Pens 656 Ruling Pen, 5 in., black hdle. 657 " " 5 1/2 " " " " " 681C Detail " 6 " "	x	x x	x x	x	x	x	x	x
Bow Instruments 723A Bow Dividers, 3 ½ in., side adj. 723B = Pencil, 3 ½ in., side adj. 723C = Pen, 3 ½ in. in. 737A Bow Dividers, 3 ½ in. in. 737B = Pencil, 3 ½ in. in. 737C = Pen, 3 ½ in. in. 737C = Pen, 3 ½ in. in.	x	x	x x x				x x x	x x
Large Dividers  801R Large Divider, 6 in., plain  803R " 6 " hair spring.  Large Compasses	x	x	x	х	х	х		
844R Large Compasses, 6 in	x	x	х	х	x	x	x	x
Accessories Metal Box with spare parts Combination screwdriver and lead box	x x	x	x	x x	x	x x	x x	x
List Price,	\$12.50	\$11.25	\$10.25	\$10.25	\$9.25	\$8.25	\$7.75	\$7.10

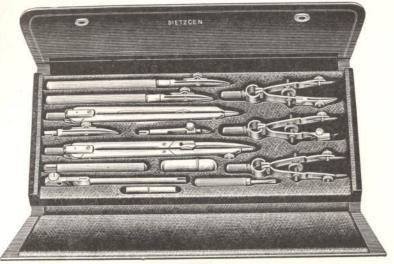
\*Set illustrated.

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



## EUGENE DIETZGEN CO.

#### PREP DRAWING INSTRUMENTS



1087SC

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 button case, lined with velvet.

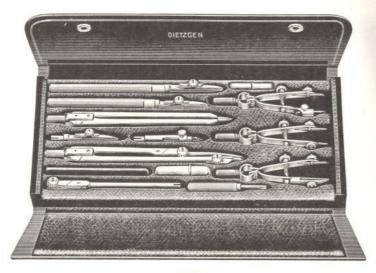
	Catalog Number of Set	1087S	*1087SC	1088SC	10865	1085S	1084S
N	umber of Major Instruments in Set	7	7	8	6	5	4
659C	Individual Prep Instruments Ruling Pens Ruling Pen, 5 in., black handle Detail Pen, 6 in	x x	x x	x x x	x	x	x
748B 738C	Pen, 3 " "  Bow Dividers, 3¾ in., center adj  Pencil. 3¾ " " "	x x x	х х	x x	x x x	х х	x x
756C 809	Large Dividers Large Dividers, 6 in., plain		х	x	х	х	
810	Large Compasses Large Compasses, 6 in	x	x	x	x	x	х
	Accessories Metal Handle for use with compass parts as separate instrument. Metal box with extra needles and leads Screwdriver, Metal box with spare parts,	X	x x x	x x x	x x x x	x x x x	x x x x
T 2-4 1	Price,	\$8.20	\$9.00	\$10.20	\$7.25	\$6.70	\$5.45

\*Set Illustrated.

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



#### DESIGNO DRAWING INSTRUMENTS



1097L

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.

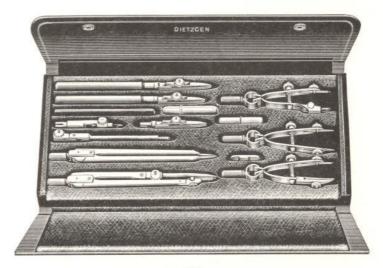
	Catalog Number of Set	1098LCD	1097LC	*1097L	1096LC	1096L
N	umber of Major Instruments in Set	8	7	7	6	6
662AC 663AC 682D	ndividual Designo Instruments Ruling Pens Ruling Pen, 5 in., Aluminum Hdle.,  25 in.,	x x x	x x	x x	x	x
748½B 748½C	Pen, 3¾ " " ".  Bow Dividers, 3¾ in., center adj.,  Pencil, 3¾ " "	x x x	x x x x	x x x	x x x	x x x
811	Large Dividers Plain Dividers, 6 in.,	x	х	x		
856	Large Compasses Compasses, 6 in.,	x	x	x		
	Accessories Metal handle for use as separate instrument, Screwdriver, Metal box of spare parts,	x x x	x x x	x x x	x x	x x

\*Set Illustrated.

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

### EUGENE DIETZGEN CO.

#### CONSTRUCTO DRAWING INSTRUMENTS



1097

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.

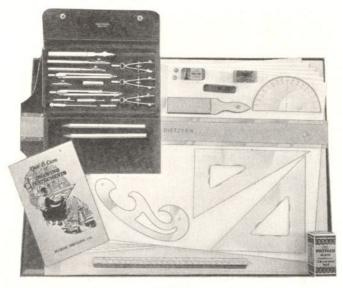
Catalog Number of Set	*1097	1096	1095	1094	1093	1092
Number of Major Instruments in Set	7	7 6 5		4	3	2
Individual Constructo Instruments Ruling Pens 662AC Ruling Pen, 5 in., Aluminum hdle. 663AC 4 5½ 4 4 4	x x	x	x	x	x	x
Bow Instruments	x x x	x x x	x x	x x	x	
Large Dividers 813 Dividers, 5¼ in., plain,	x	x	x			
Large Compasses 858 Compasses, 51/4 in., plain,	х	x	x	x	x	x
Accessories Metal handle for use as separate instrument, Metal Box of spare parts, Key and lead box with extra leads,	x x x	x x x	x x x	x	xx	x
List Price	\$6.25	\$5.85	\$5.10	\$4.35	\$3.60	\$2.70

\*Set Illustrated

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



#### PRACTICAL DRAWING OUTFITS



1100 A

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.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

pasteboard box, containing the following:

1-Drawing Instrument Set No. 1098LC.

1-Drawing Board 18 X 24 in.

1-T-Square, Maple, Celluloid lined 24 in.

1-Triangle 30 × 60°, celluloid, 10 in.

1- " 45°, celluloid, 8 in.

1-Scale, Triangular, Engine Divided.

1-Protractor, celluloid, semi-circular.

1-Curve, Celluloid. Thumb Tacks, Box of 24.

2-Pencils, 1-2H, 1-4H.

1-Eraser, 234 X 1/2 X 1/8 in.

1-Artgum, 2 × 1 × 1 in.

1-Pencil Pointer, 12 sheets Sand Paper.

1-Ink, Dietzgen Black, 3/4 oz.

6-Drawing Paper sheets, 15 × 22 in.

1-Instruction Book on "Use and Care of Drawing Instruments."

1-Lettering Chart . . Set, \$15.00

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

1-Drawing Instrument Set No. 1096.

1-Drawing Board 18 × 24 in.

1-T-Square, Ash, Maple Lined Blade, 24 in.

1-Triangle 30 × 60°, celluloid 8 in.

1- " 45°, celluloid 6 in.

1-Scale, Triangular, Engine Divided.

1-Protractor, celluloid, semi-circular.

1-Curve, Celluloid. Thumb Tacks, Box of 24.

2-Pencils, 1-2H, 1-4H.

1-Eraser, 23/4 × 1/2 × 3/8 in.

1—Artgum,  $2 \times 1 \times 1$ .

1-Pencil Pointer, 12 sheets Sand Paper,

1-Ink, Dietzgen Black ¾ oz.

6-Drawing Paper sheets 15 X 22 in. No. 11L.

1-Instruction Book on "Use and Care of Drawing Instruments."

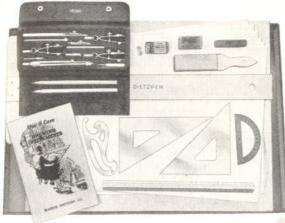
1-Lettering Chart . . Set, \$10.50

1100AW. Practical Drawing Outfit-in neat heavy pasteboard box, like No. 1100A except with Drawing Instrument Set No. 1098LC omitted . . . Set, \$6.50 1100BW. Practical Drawing Outfit - in neat heavy pasteboard box, like No. 1100B except with Drawing Instrument Set No. 1096 omitted . . . . Set, \$5.00



### EUGENE DIETZGEN CO.

#### PRACTICAL DRAWING OUTFITS



1100 C



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

1-Drawing Instrument Set No. 1095J.

1-Drawing Board 16 X 21 in.

1-T-Square, Maple, 21 in.

1-Triangle 30 × 60°, celluloid 8 in.

1- " 45°, celluloid, 6 in.

1-Scale, Triangular, Engine Divided.

1-Protractor, Brass Etched Semi-circular.

1-Curve, Celluloid. Thumb Tacks, Box of 24.

2-Pencils, 1-2H, 1-4H.

1-Eraser, 234 X 1/2 X 1/2 in.

1-Artgum, 2 × 1 × 1 in.

1-Pencil Pointer, 12 sheets Sand Paper.

6-Drawing Paper Sheets, 12 × 18 in.

1-Instruction Book on "Use and Care of Drawing Instruments."

1-Lettering Chart . . Set, \$7.50

1100D. Practical Drawing Outfit-in neat heavy pasteboard box containing the following:

1-Drawing Instrument Set No. 1092N.

1-Drawing Board 12 × 17 in.

1-T-Square, Maple, 18 in.

1-Triangle, 30 × 60°, celluloid, 8 in.

1- " 45°, celluloid, 6 in.

1-Scale, Triangular, Engine Divided.

1-Protractor, Semi-circular, metal. Thumb Tacks, box of 24.

2-Pencils, 1-2H, 1-4H.

1-Eraser, 234 X 1/2 X 3/8 in.

1-Artgum, 11/8 × 11/8 × 11/8 in.

1-Pencil Pointer, 12 sheets Sand Paper. 6-Drawing Paper Sheets, 11 × 15 in.

No. 10L. 1-Instruction Book on "Use and Care of

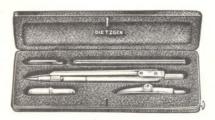
Drawing Instruments."

1-Lettering Chart . . Set, \$5.00

1100CW. Practical Drawing Outfit, in neat heavy pasteboard box like No. 1100C except with Drawing Instrument Set No. 1095 J omitted. Set. \$3.75 1100DW. Practical Drawing Outfit - in neat heavy pasteboard box, like No. 1100D, but with Drawing Instrument Set, No. 1092N omitted . . . Set, \$3.00



#### SCHOOL COMPASS SETS



No. 1102E

No. 1102H. School Compass Set consisting of 4 3/4-inch metal handle ruling pen and 4 1/4-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. 1102E. School Compass Set consisting of 4½ inch compass with chuck type pencil leg 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



No. 1102N

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

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.

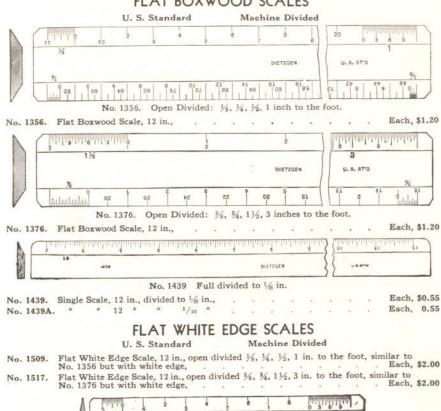
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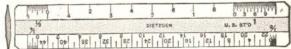
No. 1292. Compasses, loose, without lead box, . . . . . . . \$4.80 \$0.45

### EUGENE DIETZGEN CO.

Section 8

## DRAFTING SCALES FLAT BOXWOOD SCALES





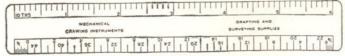
No. 1526. Open Divided: 1/8, 1/4, 1/2, 1 × 3/4, 1/4, 3 in. to the foot.

No. 1526. Flat White Edge Scale, 6 in., both sides beveled and divided, in leather sheath, less than 1 in. wide; very convenient for the pocket, . . . . . . . . . . . . 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.



No. 1577



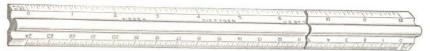
#### TRIANGULAR SCALES HARDWOOD

Engine Divided

For Architects and Mechanical Engineers



		Open Di	vided: *12,	16. 78	. 24. 38.	32, 34, 1	1 1 12. 3	in.	to	the	foot	t. 1.	is in		
No.	1626.	Triangular	Hardwood	Scale	e, 12 in.,	Regular	Shape							Each,	\$1.30
No.	31626.		Hardwood				#							Doz.	



#### No. 41626A

Open Divided: 1/2, 1/4, 1/8, inch to the inch; 1/16 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 . . No. 31636. Hardwood " " 12 in.,

#### WHITE EDGE

Engine Divided

For Architects and Mechanical Engineers



#### No. 1656

Open Divided: \$\frac{1}{20}, \$\frac{1}{16}, \$\frac{1}{8}, \$\frac{1}{8}, \$\frac{1}{8}, \$\frac{1}{8}, \$\frac{1}{8}, \$\frac{1}{1}, 1 \frac{1}{12}, 3 in. to the foot; \$\frac{1}{16}\$ in. 1656. Triangular White Edge Scale, 12 in., regular shape . . . . . . . . . . . . . . . Each, \$3.60

#### For Civil Engineers and Surveyors



#### No. 1667

Divided: 10, 20, 30, 40, 50, 60, parts to the inch. 1667. Triangular White Edge Chain Scale, 12 in., regular shape . . . . . . . Each. \$3.60

### EUGENE DIETZGEN CO.

#### Section 9

### SLIDE RULES AND PANTOGRAPHS MANIPHASE SLIDE RULE

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Marin Company		manufacture and the second	p-Accountachabilitation	etelet said Lines in	secolidadesen	phanisconfuntina	Ottobs med continued	_

The Maniphase Slide Rule, of the Mannheim type, has in addition to the regular scales A, B, C and D of the Mannheim, a cube 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.

No. 1750P. Maniphase Slide Rule, 10 in., screw adjustment, engine divided on white celluloid, with cube and reciprocal scale. Glass "frameless" indicator. In case, with book of instructions, . . . No. 1750L. Like No. 1750P but in sewed leather case, Each, \$7.75

#### MANNHEIM SLIDE RULE

1	A		9 1	P 7 3	- taring	A Transfer of the Late of the
minimization and	The boundary		4 1	P. P.	utunid	de la constant de la
1 . 1 . 1 . 1 . 1	3.1.1.1.	1.5	-	1.7	12.	and translated distinct and the feet of the second

#### No. 1766P

The Mannheim Slide Rule is sturdily designed, having a range of use sufficient for all ordinary ommercial 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.

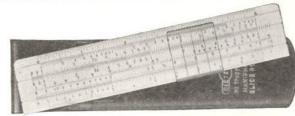
The back of the slide has a sine, a logarithm and a tangent scale, which are indexed to be used with the scales on the face of the rule.

No. 1760P. Mannheim Slide Rule, 10 inch, engine divided on white celluloid. Glass "frameless" indicator. In case, with book of instructions, . . . Each, \$6.20

Scholar Slide Rule (Mannheim) 10 inch. Frameless glass indicator, graduations on white enameled wood. In case, with directions, . .



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



#### No. 1765P

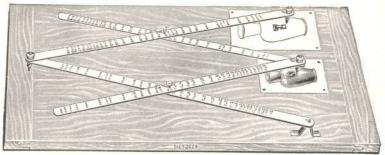
No. 1765F. Pocket Slide Rule, (Mannheim), made of thoroughly seasoned white celluloid, accurately divided, measures 1½ inches wide, ½ inch thick and 5½ inches long, overall, with a 5 inch scale on the face. Furnished in soft leather

No. 1765P. Pocket Slide Rule, (Maniphase), white celluloid, mounted on thin boxwood, with frameless indicator. Measures 1½ inches wide, 5½ inch thick and 6 inches long with a 5 inch scale on the face. Complete in high grade leather sheath with flap.



#### **PANTOGRAPHS**

For Enlarging and Reducing Drawings All Metal Parts Are Nickel-Plated



No. 1879. Pantograph of Polished Hardwood bars, 21 inches long with metal fulcrum; tracer and lead points interchangeable in adjustable tubular holders. For reducing and enlarging in 34 ratios, from 8:1 to 11/8:1 or vice versa. In box Each, \$2,50

No. 1880. Pantograph of Hardwood bars, 21 in. long with metal fulcrum; lead points carried in adjustable tubular holder is interchangeable with the tracer point.

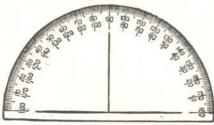
Each,

No. 1881. Pantograph of Hardwood bars, 17 inches long with metal fulcrum; lead points carried in adjustable tubular holder. For quick and easy enlarging in 12 ratios. This instrument may be used for commercial purposes as well as an excellent means of familiarizing children with forms and proportions, and will greatly assist them in learning to draw from objects. With directions, Each, \$1.00

#### Section 10 **PROTRACTORS** COMBINATION PROTRACTOR SCALE AND PARALLEL RULE



No. 1925-12



No. 1928A

No. 1925-12. Combination Protractor. 8ths, 16ths, 32nds, and centimeters. 6 inches long. Flexible transparent celluloid, Combines Scale, Parallel Rule, Compass and Protractor advantages . . . Each, \$0.25

#### TRANSPARENT CELLULOID PROTRACTOR ENGINE DIVIDED

Semicircular Celluloid Protractor No. 1928. 4 in., div. to 1° . Doz., \$3.60

No. 1928A. 5 " " 1/2° . Each, 0.35 No. 1928B. 6 " " 1/2" . Each, 0.40 No. 11928B. 6 " " 1/20 (school quality) . . Doz., 3.75

#### **ENAMELED METAL PROTRACTORS**

No. 1935G. Semi-Circular enameled metal protractor, 4 inches, divided to Scale on lower edge. Lithographed graduations in black. . . Doz., \$0.65 No. 1935H. Same as above, but 41/4 inches. Doz., 1.00



#### **BRASS PROTRACTORS**

No. 1936F. Semi-Circular brass protractor, 3 % inches divided to degrees, numbered every 10° from 0 to 180° in both directions. Scale on lower edge. Graduations every 10° from 0 to 180° in both directions. Stamped graduations filled in black. Scale on lower edge for convenient classroom use, . No. 1938E. Semi-Circular brass protractor, 31/2 inches divided to degrees, numbered 



### EUGENE DIETZGEN CO.

#### TRIANGLES TRANSPARENT CELLULOID



2014

12014. School "

20

2014. First quality .060 in. Each

.060 " Doz.

Our transparent triangles are made of a carefully seasoned material that is especially adapted for drawing equipment of this nature. They stand up better, retain their transparency and trueness, and will give greater satisfaction than those made from other materials generally employed for this

The size of a triangle is determined by the length of its cathetus. To obtain a 30  $\times$  60° triangle and a 45° triangle of even size of hypothenuse, order the 45° triangle about two inches shorter than the 30  $\times$  60° triangle.



2017A

\$0.95

30 /	OU LLAI	14		
3 in.	4 in.	6 in.	8 in.	10 in.
	\$0.25	\$0.35	\$0.45	\$0.70
	2.30	3.20	4.10	5.80

				45°	PLAIN					
015.	First quality	.060 in	n. Each	\$0.25	\$0.30	\$0.40	\$0.65	\$1.00	\$1.45	
	School "				2.65	3.60	5.90	9.20	13.90	

20 V COS DI AIN

1 2015.	School	*	.060	#	Doz.		2.65	3.60	5.90	9.20	13.90	
					30 X	60° WITH	H FINGE	R LIFT	S			
						3 in.	4 in.	6 in.	8 in.	10 in.	12 in.	14 in.
2016A.	First	quality	.060	in.	Each		\$0.30	\$0.40	\$0.50	\$0.75	\$1.05	
2016B.	a		.080				0.35	0.50	0.60	0.85	1.15	\$1.85
2016C.	ш	#	.090	4	44		0.50	0.65	0.75	1.05	1.35	2.05
12016A.		1 "	.060		Doz.		3.10	4.20	5.30	7.70	10.60	
						45°	PLAIN					
2017A.	First	quality	.060	in.	Each	\$0.30	\$0.35	\$0.45	\$0.70	\$1.10	\$1.55	
2017B.			.080		4	0.40	0.45	0.60	1.00	1.20	1.70	\$2.55
2017C.		44.	.090			0.45	0.55	0.75	1.25	1.50	2.00	2.90
12017A.		1 "	.060		Doz.		3.40	5.20	7.50	11.50	16.50	

#### LETTERING DEVICES

2027-5. "Edco" Lettering Angle, transparent celluloid, 5 in. high with a 3 in. base, having a 671/2° slope; specially made for lettering in schools. Doz., \$3.75

This is a convenient, inexpensive angle for use in constructing guide lines for lettering. It has gained considerable popularity in elementary and high schools and has been found to be very practical.

2028. Lettering Triangle. Celluloid. A 6 in. 45° triangle, one 45° angle has been cut away to form an angle of 671/2°. A number of oblong beveled slots permit the insertion of a sharply pointed pencil for the purpose of drawing horizontal lettering guide lines. Capital letters of any size from 1/2 to 1/6 inch are provided for, as well as lower case letters two-thirds the size of capitals. Provision is made for standard and close spacing between letters, . . . . . . . Each, \$1.10

All lettering angles except the 4 inch, 45° and 5 inch, 60° have a 671/2° slot which is useful in obtaining a uniform slope in lettering.



2027-5



PRICES SUBJECT TO CHANGE WITHOUT NOTICE



### LETTERING ANGLES AND DEVICES DRAFTSQUARE



2029. Draftsquare, Transparent Celluloid, .045 in. thick 4 5/8 × 4 5/8 in., . . . . . . . . . Each, \$1.00

The Draftsquare was created to simplify the work of the draftsman and student. The Draftsquare permits the outlining of all standard bolt heads 1/4 to 1 in. diameter, circles from 1/5 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 751/2° inclination are also provided.

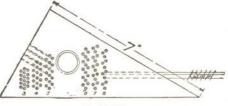
### CELLULOID CHEMISTRY STENCIL

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



No. 2159



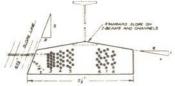


No. 2030B

No. 2031R

No. 2030B. Lettering Angle, transparent Celluloid, 30° × 60°, size 5 \$0.70 0.75 0.80 0.80 1.00 No. 2031B. Lettering Angle, transparent Celluloid, 45°, size 4 8 in. \$0.70 .75 .75 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

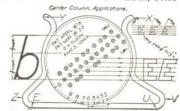
No. 2031R. Lettering Angle, transparent Celluloid, 45°, 6 in. This angle has in addition, a special group of holes designed primarily to aid in teaching as well as drawing systematic dimension lines, also guidelines for dimension figures both whole numbers and fractions. Each, \$0.85





No. 2031D Lettering Device

2031D. Lettering Device. Transparent celluloid. 5 % in. base, with one vertical side 1 % in. long, with slope of 67 ½° for drawing the slope of letters. The top slopes up from both sides to the center, with a degree of slope equal to that of the standard slope of Ibeams and Channels and has holes designed to give a quick and easy means of making accurately spaced guide lines for lettering, .



No. 2032 Ames Lettering Device

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



### EUGENE DIETZGEN CO.

#### 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 stock, 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.



				IV	Taple Bl	lade and	Head:	Fixed I	lead.		
2060.	Size, . Each,		:	15 in. \$0.60	18 in. \$0.65	21 in. \$0.70	24 in. \$0.80	30 in. \$0.95	36 in. \$1.15	42 in. \$1.40	48 in. \$1.90
12060.	Size (Sch	ool (	Qual	ity),	18 in. \$5.00	21 in. \$5.60	24 in. \$6.00	30 in. \$7.60	36 in. \$9.60		



Ash, Maple Lined Blade, Ebonized Head: Fixed Head.
24 in. 30 in. 36 in. 42 in. 48 in. 60 in. 72 in.
1. \$1.45 \$1.70 \$2.00 \$2.45 \$3.20 \$5.20 \$6.90 Each.

30 in 24 in. Size (School Quality), . \$11.60 \$13.00 Doz, .



Maple, Transparent Celluloid Lined Blade and Ebonized Head: Fixed Head. 18 in. 24 in. 30 in. 36 in. 42 in. 48 in. \$2.10 \$2.50 \$2.90 \$3.20 \$3.80 \$4.80

18 in. 24 in. Size (School Quality), \$22.00 \$25.00 \$30.00 \$36.00 \$44.00



## TRANSPARENT CELLULOID CURVES

2152.	Transpare highly po	ent lishe	Ce	llulo	id	Curves,	@ @ P A 2 @ 19
	Nos. 6					\$0.55	
	8					.55	143 BAG AN 1// 199/ 1/
	10					.50	6 108 10 10 10B 11/2 10B
	10B					.55	0 1111
	13					.70	13
	14					.65	
	15					.75	
	16		114			.70	WIN FIGOR III WAR IN WAR
	17					.70	MI WELL M SER M I IN
	17B					.70	
	18					.70	Mada Hall Hall Hall
	18B					.70	M
	19		2.0			.85	15 0 16 0 17 0 17B
	20 21					1.10	15 0 10 0 11 0 118
	21					.70	and the second s
	23					1.20	60 M M
	24					1.20	
	25					1.85	
12152	Transpar		C	lluloi		Cuerca	
12132.	(School Q	uali	ty).	nuio	id	Curves, Doz.	
	Nos. 6					\$4.40	
	8					15.30	1307) 11 10 11 11 11 11 11 11 11 11 11
	13					7.70	
	15					7.70	HILL DIE BY HER HELD DE
	16					7.70	20 21 23 24 25 25
	18		9			6.80	Ala Man Co Aci Ala Co Aci Aci
							No. 2152

### Section 14 THUMB TACKS

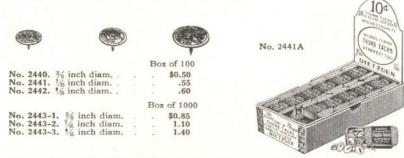
#### SIMPLEX BRASS

#### ROUND HEADS

				Packed 10	0 in	Lock	Top	Box of 100	Carton 10 Boxe
	1	1	2434.	3% in. diam.,				\$0.30	\$2.70
	5000	100 100-0	2435.	1/2 " "				.40	3.60
No. 2434	No. 2435	No. 2436	2436.	9/8 " "				.50	4.50

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.



2441A. Stamped Steel Thumb Tacks, % in., nickel-plated, 36 tacks in tin, packed 36 tins to carton,
 2444D. Stamped Steel Thumb Tacks, % in., nickel-plated, 24 tacks in tin, packed 36 tins to carton,
 2444D. Stamped Steel Thumb Tacks, % in., nickel-plated, 24 tacks in tin, packed 36 tins to carton.

COMMERCIAL STEEL THUMB TACKS

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

PRICES SUBJECT TO CHANGE WITHOUT NOTICE







### EUGENE DIETZGEN CO.



# DRAWING INKS DIETZGEN LIQUID DRAWING INKS

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

		3/4-oz.	bottles.			
2681.	Dietzgen	Waterproof,	Black		Each,	\$0.25
2682.	46	#	Yellow		#	.25
2683.	-		Orange		4	.25
2684.		44	Scarlet		**	.25
2685.	+	**	Carmine		-	.25
2686.	44	14	Blue		W-	.25
2687.	4	**	Green		-	.25
2688.	44	4	Brown			.25
2689.	46		Brick Re	d	- 44	.25
2690.	44	- 4	Vermilion	n	4	.25
2691.		ad.	Violet		- 4	.25

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

#### HIGGINS LIQUID DRAWING INKS

2681	Each Doz	
<ul> <li>Higgins Waterproof Black Ink, ¾ oz. bottle,</li> <li>2731B. Wrico Waterproof Black Ink, dropper stopper, ¾</li> <li>2732. Waterproof Colored Inks in the following colors:</li> </ul>	Blue, Brick Red,	
Brown, Carmine Red, Green, Sea Green, Indigo, Leaf, Oran Red, Red Violet, Russet, Turquoise, Violet, Yellow, Orang Neutral Tint, Can also be furnished in 8 oz., 16 oz. and	e Yellow, White,	0

	EMPTY INK BOTTLE	S	INK BOTTLE STO	<b>OPPERS</b>	
2692. 2694.	Empty Ink Bottles, ¾ oz.,	Doz., \$0.50	Stoppers with quills, Wrico Dropper Stopper,	. Doz., Each,	

## with Stoppers and Quills, INK BOTTLE HOLDERS





274

2740.	Iron Ink Bottle Holder and Paper Weight, threaded top, black enameled finish, weight
	about 12 oz.,
2741.	Edco-Noslip 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;
	is also designed as a rest for pens, pencils, etc.,

### Section 16 BEST TEST RUBBER CEMENT

2799.	Best-Ter	st	White	e Ru	bber	Paper C	ement.				
	In cans, Each,		:	:	:	Gal. \$3.50	Qt. \$1.25	Pt. \$0.65	\$0.35	4-oz. w/brush \$0.25	2-oz. Tubes \$0.15



#### CARBORUNDUM SHARPENING STONE

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

2894.	Carborundum	Stone,	wedge	shape	slip,		
	$\frac{7}{8} \times 2\frac{1}{4}$ in.,					Each,	\$0.50

2894



#### Section 17 **PENCILS**

### DIETZGEN DESIGNO DRAWING

Dietzgen Pencils are exceptionally uniform, only the purest graphite being used and the pencils being manufactured by a special process insuring perfection and remarkable lasting quality.

No. 3091. Dietzgen's Excello Pencils, Hexagon, Yellow Polish, Gold stamped. In following degrees: 2B, B, HB, F, H, 2H, 3H, 4H, 6H.

Doz., \$0.90

No. 3138. Dietzgen's Hyperion Pencils, Hexagon, Yellow Polish, Silver stamped. In following degrees: 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H.

Doz., \$0.60

No. 3139. Dietzgen's Designo Drawing Pencils. This pencil is very popular because of its low price and good quality. Hexagon, Yellow polish. In the following degrees: HB, H, 2H, 3H, 4H, 6H.

Doz., \$0.60

No. 3093. Eldorado Pencils, Hexagon, Yellow Polish, Gold Stamped. In degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, H, 2H, 3H, 4H, 5H, 6H, 7H, 8H, 9H. Venus Pencils, Hexagon, Dark Green Polish, Gold Stamped. In degrees as follows: 6B, 5B, 4B, 3B, 2B, B, HB, F, FH, H, 2H, 3H, 4H, 5H, 6H, 7H, Doz., \$1.00 We also carry a complete line of Castell and Kohinoor Pencils.

#### COMPASS LEADS

No. 3165.	Compass Leads for Drawing In	istr	umen	its,	11/4 ir	. 10	ng v	with chis	sel point.	
	for compasses, bow pencils, etc. of one degree in tube.	, in	H, 2	2H	or 4H	degi	ees.	Packe	d 6 leads	
No 3165P	Box of 12 tubes of No. 3165.							. P	er Tube,	\$ 0.10
No. 2165D.	Box of 12 tubes of No. 3165.								Per Box.	1.00
140. 3163D.	Carton of 12 boxes of No. 3165B	2		- 93	(2)	0.00		Per	Carton	12 00

#### PENCIL POINTERS



#### No. 3208

This Pencil Pointer is a combination article. The pencil is pointed on the emery paper pad and the point smoothed by drawing through the velvet-lined slots shown in illustration. Slots on back are for cleaning rubber erasers rapidly and effectively. The emery pad is removable, and a new pad can be quickly inserted.

No. 3208. Improved Pencil Pointer and Eraser Cleaner, with handle, emery paper pad 11/4 × 31/4 in., 12 sheets, Each, \$0.30

No. 3208P. Extra Pads, emery paper, for No. 3208, Each, \$0.10

#### SANDPAPER

No. 3212. Pencil Pointer, 11/4 X 4 in., 12 sheets. Each, \$0.10 No. 3213. Pencil Pointer, 11/4 X 4 in., 12 sheets with handle, Each, \$0.15 No. 13213. Pencil Pointer, 11/4 X 4 in., 12 sheets with handle (School Quality). . . Doz., \$1.20

#### EMERY PAPER

No. 3220. Pencil Pointer, 11/4 4 in., 12 sheets, with handle. Each, \$0.20 No. 13220. Pencil Pointer, 11/4 X 4 in., 12 sheets, with handle (School Quality). . . Doz., \$1.60

#### 4 in 1 MULTI FILE

No. 3222. 6 in. long, can be used as pencil file. eraser cleaner, tack lifter and paper knife, Inexpensive. Practical and indestructible. Each, \$0.30

#### No. 3222

#### PENCIL POINTER FILE

No. 3224. Pencil Pointer File and Tack Lifter, 61/2 in., Ea., \$0.50

### No. 3224

PENCIL SHARPENERS No. 3242A. Chicago Giant Pencil Sharpener, with twin milling cutters, will sharpen any size pencil or crayon. Automatically stops cutting when point is produced

No. 3243A. Boston Self-Feeding Sharpener, with "draftsmen's cutters," removing the wood only from the pencil, leaving the graphite exposed so that it may be sharpened to suit the draftsman's preference . Each, \$2.75





### EUGENE DIETZGEN CO.

#### COLORED PENCILS

## UNIQUE THE RED

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.

	3264B.	Unique	, Red Blue	lead	of	thin	diameter,	Hexagon,		Gross,	\$9.50	Doz.,	\$0.90
No.	3264C. 3264D.	44	Yellow	44	44.	44	-	#		44	9.50		0.90
	3264E.	*	Green	44	-	#	4			44	9.50	4	0.90
	3264F.	*	White	44	44	44		46		4	9.50	46.	0.90
	3264M.	44	Maroon	4		46	4	44			9.50	*	0.90
	3264-7.	Uniqu	e Assortr	nent	. co	ntair	ning one ea	ch: Blue,	Red	i, Green	n, Yellow,	Brown,	
			and Viole									Box,	\$0.60
No.	3264-12.	Uniqu	e Assorti	nent	. co	ntair	ning one ea	ch: Blue, Blue, Pink	Rec	d, Green nd Ligh	n, Yellow, ht Green	Colored	
		Pencils											\$1.00
No.	3264-24.	White, Ultran	Purple, arine Bl Green, M	Blac ue, auve	ck, Chi	Oran	ning one ea age, Light Yellow, Grey and	Blue, Pin Field Gre	k, en,	Light ( Sepia,	Maroon,	Ochre,	

#### Section 18 **ERASERS**

								Each	Doz.
No. 3324A	. Art	Gum	11/8	×	11/8	X	11/8	\$0.05	\$0.50
No. 3324B	. "	4	2	×	1	×	1	0.07	0.65
No. 3324C	. 4	#	21/4	X	11/8	X	11/8	0.10	1.00



No. 3324B

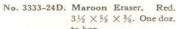
Dependo is exceptionally soft and smooth, will not scratch the surface and does not crumble. Especially adapted for cleaning drawings of all kinds. Can be used on freshly inked lines without affecting their blackness and intensity

No.	3326B.	Dependo.	Size	2	X	1	X	3/8	\$0.10	\$1.00
No.	3326D.	4	-	3	X	11/6	X	13/10	0.20	1.90



No. 3326B

3½ × 5%	X 3/8.	One	doz.		
to box,		+	94	Box,	\$0.75



No. 3332-24D. Viridian Eraser. Green.



to box, . . . Box, \$0.75 No. 3337B. Dietzgen Pliable Eraser 1 1/8 No. 3337C.

Doz., 0.75 No. 3338. Dietzgen Verrine Eraser. Green,



beveled. 23/4 × 1/2 × 1/8, . Doz., \$0.50

No. 3339. Dietzgen Rubric Eraser. Red, beveled. 234 × 1/2 × 3/8, . Doz., \$0.50

No. 3359. Ink and Pencil Eraser, 21/2 × 1/2 × 1/4, Doz., 0.50

#### **ERASING SHIELDS**



No. 3391. Nickel silver, highly polished. 23% × 3 % in.,

No. 3392. Safety Razor Steel, very thin and durable,

ROSE TOOLS, INC.
PRICES SUBJECT TO CHANGE WITHOUT NOTICE



No. 3392A. Safety Razor Steel, highest quality, new Ezy Grip feature, of upset flanged finger grip holes providing against slipping. 23/8 × 43/8 in., Each, \$0.30



Each, \$0.15



### 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 drawing paper. For this work they will be found superior to other makes, as they possess great elasticity, have longer nibs and not too sharp points, permitting rapid work without scratching or catching on the grain of the paper.

No. 3440.	Dietzgen	Drawing	and	Lettering	Pens.	1 234	Box of 12, \$0.50
No. 3441.	-	4	di .	#	11		

						Card of 12 with holder.	.70
		Dietzgen	Crow	Quill 1	Pens,	Box of 12.	.50
	3443.	ш	4	H.	at .	. Card of 12 with holder.	.70
No.	3447.	Dietzgen	Crow	Quill	Pens	No. 3442, with improved	0.00
		holder hav	ving co	rk fin	ger pie	ece, Card of 10, \$1.20; Each, \$	0.12



No. 3440 No. 3442



3453½ 3454¼ 3455 3456 3457 Illustrations ½ Size

#### GILLOTT STEEL PENS

	Fe	or Drawin	g and	Lett	erin	g		
No. 34531/4.	Gillott 1	Lithogragi	hic Per	ns (N	0.290	) loose	Doz.	\$0.75
No. 34541/2.	Gillott	Mapping	Pens	(No.	291)	loose.	Doz.,	0.75
No. 3455.	44	- u	**	( "	170)	#	4	0.20
No. 3456.	-ca	48	#	( "	303)	*	a	.20
No. 3457.	at	a	4	( "	404)	46	44	.15
	Westo	ck a full	line	f Cil	ott I	Pene		-

#### WOODEN PENHOLDERS

	Thin, 5 in., brown enamel finish, for No. 3440,	40			2	Each, \$0.06
	Thick, 51/2 in., brown enamel finish, for No. 3442,		23		* 1	Each, .07
	Medium, 7 in., natural finish, for Nos. 3455-3457,			-	-	Each, .05
No. 3475.	Thick, 7 in., natural finish, cork tip, for Nos. 3455-3457,		+	4	4	Each, .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 the constant bother of replenishing the supply. This patented feature can be easily released, as shown by the dotted line in the illustration, for cleaning pen.

Henry Tank Pen (Mfg. No. 4) fine point drawing and lettering pen, Per Doz., \$0.75 Per Gro.,	\$7.20
Henry Tank Pan (Mfg. No. 5) medium point drawing and lettering pen, Per Doz., \$0.75 Per Gro.,	7.20
Henry Tank Pen (Mfg. No. 12) fine point lettering and writing pen, Per Doz., \$0.75 Per Gro.,	7.20
Henry Tank Pen (Mfg. No. 15) medium point lettering and writing pen, Per Doz., \$0.75 Per Gro.,	7.20

#### SPEEDBALL PENS

Illustration Approx. 1/2 Size







No. 3525A

No. 3525B No. 3525C Packed one dozen and one number to a box

No. 3525D

No.		Doz.	No.	and the second s	Doz.
3525A-0 Sp	peedball Lettering and Drawing	\$0.90	3525D-0	Speedball Lettering and Drawing \$	0.90
I Pe	ens, Style "A", square tip for	.90	1	Pens, Style "D", oval tip for Bold	.90
2 sq	uare Gothic and block letters,	.90	1.5	Roman, Text, and Italics	.90
3		.90	2	3	.90
4	(See illustrations above	.90	4	(See illustrations above	.90
5	for Width of Lines).	.90		for Width of Lines).	.90
1 Pe	peedball Lettering and Drawing ens, Style "B", round tip for und Gothic or uniform lines, (See illustrations above	.90 .90 .90 .90	3526A.	Sets Set of Speedball Pens containing one each Style "A", Numbers 0 to 5, Per Set, \$ Set of Speedball Pens containing	0.45
5	for Width of Lines).	.90		one each Style "B", Numbers 0	4 11
1 Pe	peedball Lettering and Drawing ens, Style "C", oblong tip for	.90	3526C.	to 5, Per Set, Set of Speedball Pens containing one each Style "C", Numbers 0	.45
2 Ro	oman, Text, and shaded Italics	.90	3526D.	to 5, Per Set, Set of Speedball Pens containing	.45
4	(See illustrations above	.90		one each Style "D", Numbers 0	
5	for Width of Lines).	.90		to 5, Per Set,	.45



### EUGENE DIETZGEN CO.

Section 20

### MISCELLANEOUS DRAFTING MATERIALS

# SOOTCH HOLDFAST DRAFTING TAPE (SATURD IN BRICK) SOUTH HOLDFAST DRAFTING TAPE (SATURD IN BRICK) SOUTH HOLDFAST DRAFTING TAPE (SATURD IN BRICK) SOUTH HOLDFAST SOUTH HOLDF

No. 3842C

DRAFTING TAPES

Scotch Cellulose Tape

3844B. Scotch Cellulose Tape in Utility Dispenser, ½ × 180 in.
12 rolls in carton,
Scotch Cellulose Tape in Utility Dispenser, ¾ × 300 in.
12 rolls in carton,
12 rolls in carton,

TRIPLE DUTY STAPLER

The name "triple duty" indicates that the machine can be used, first, for stapling papers, permanently; second, for fastening (or pinning) papers together temporarily by a staple the ends of which are bent out, rather than clinched in, so that it may be removed easily, yet will hold papers together; and third, as a light duty tacker for fastening drawing paper to drawing board, posting notices and other miscellaneous tacking jobs.

No. 4208. Triple Duty Fastener and Stapler for stapling, pinning and tacking. Equipped with special anti-clog feature. Each, \$1.75
No. 42085. Triple Duty Staples for use with Triple Duty Stapler.
Packed 1000, \$0.35
Carton 10,000 \$2.90

DUSTING BRUSHES

No. 4208

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

No. 4209. Dusting Brush, staple set in hardwood, 8½ in. brush, bristles 2 in., handle 6 in., . Each, \$0.50

No. 4211A. Dusting Brush, finest quality, 2½ inch white bristle, staple set in hardwood, with 5 inch handle, 13 inches over-all in length. It is of a flat beveled style which allows the brush to lay flat or to be placed in a drawer or in a pigeon hole, Each, \$0.90



No. 4211A

#### TRIMMING SHEARS

Specially adapted for trimming drawings, tracings, blue prints, etc. Of perfected design, improves with use, has long thin blades of perfect temper and true cutting edges. Japanned handles, nickeled blades. Fully warranted to remain sharp longer, cut easier and outwear any other make.

No. 4212A. Trimming Shears, 14 in. long; cutting edge 8½ in. long,

No. 4212B.

Bach, \$3.73
Each, 4.50

#### INGENTO CUTTERS For Card and Paper Cutting



The bed is seasoned birch, as wide as is it long. The supporting cleats are mitred into the bed to prevent warping. The bed is subdivided into half-inch squares (except Nos. 5½ and 6) and is finished perfectly and highly polished. Across the top of the bed and set at right angle to the cutting edge is a rule with one-eighth inch graduations. The blades are of high grade tool steel, properly tempered to

Sizes No. 5,  $5\frac{1}{2}$  and 6 have a metal frame to which the lower blade is attached. This frame is part of the joint casting, making it impossible for the relative position of the blades to change. These three numbers also have springs which hold the handle at any desired height. This is an important improvement for the large size.

Handles and metal bases are finished in black enamel, baked on. The spring joint is so constructed that the movable blade and board blade come together at the point of cutting as do shears. This results in clean-cut edges every time.

i clean-cut ec	iges ever	y time												
No. 4214-1.	Ingento	Paper	Cutter,	61/2	in.	blade					12		Each.	\$2.50
4214-2.		4	a	816	44	4							4	3.00
4214-3.	14	66	44	1016	44	44					10		44	3.75
4214-4.	44.	46	44.	1216	44	44.						3	44	6.00
4214-5.	16	#	-	15	86	44		8				- 6	16	11.00
4214-536	44	44	44	18	44	44				33	- 89		4	17.50
4214-6.	-	64	*	24	44	44.							44	27.50
T-14-0.				May 2			1.0							21.00

#### AIR-TIGHT METAL TUBES





#### Section 21 BLUE PRINTING EQUIPMENT

DIETZGEN BLUE PRINTING EQUIPMENT for the classroom is

essential to both the student and instructors.

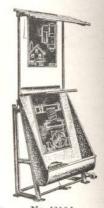
Dietzgen Junior Vertical Electric Printing Machine prints clear, sharp, distinct prints with great economy. The Junior has the same sturdy sharp, distinct prints with great ecolodity. The Juliot has the same sturdy construction and, other outstanding features which have made Dietzgen Senior equipment so satisfactory. The machine has a half cylinder of glass with an open printing surface of 24 × 36 inches; glass is held in a felt lined metal frame.

ROLLER CURTAIN-The tracing and sensitized paper are held in place by Roller Curtains. Rollers hold 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. It consumes 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

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 loaded, set in operation, and left unattended, without possibility of prints becoming over-exposed.



No. 4310A

No. 4334-1

4334-1A. Height, 83 in. Occupies 18 × 22-in. floor space. Finish, beautiful brown, enamel frame. Printing surface sheets  $24 \times 36$  in. or smaller, complete with 15 amp. lamp for

Each, \$200.00 110 volt, 60 cycle, A. C., 4334-1D. Like No. 4334-1A, but with 25 amp. Lamp for 110 volt. Each.

4334-2A. Like No. 4334-1A, but with 15 amp. Lamp for 220 volt, 60 cycle, A. C., Each, 4334-2D. Like No. 4334-1A, but with 25 amp. Lamp for 220 volt, Each, 200.00

Each, 200.00

#### DIETZGEN JUNIOR SHEET WASHER

This washer, especially designed for use with the Dietzgen Junior blue printing machine, thoroughly washes and develops blue prints and negative prints in sheets. 4310A. For prints 24 × 36 inches or smaller, floor space 24 × 32 inches, with tray 28 inches wide. Complete with chemical tray and brush,

### GLOBES AND CARBONS



4340AT





4340AT. Globes, "Thermex" 400° heat resisting glass, 23/4 in. at top, 11/4 in. at bottom, 7 in. Globes, "Thermex" 400° heat resisting glass, 3½ in. at top, 13/8 in. at bottom, 81/8 in. Each,

4340PT.	Globes, "	Therme	x"	400	heat	res	isting	glass, 7	34 in	. at t	op, 9%	in. h	nigh, E	ach, 3.17
													Lots of 1-50	Lots of 50
4342A- 9.	Carbons,	cored,	16	X	9 in.	for	A.C.	Lamps,	40			-	\$0.09	\$4.50
4342A-12.		44		X 1		-	-64	44					.11	5.10
4342A-16.	**	#	16	$\times$ 1	6 "	44	44	+			8 8		.15	7.05
4342AS-8.	44	44	B 10.	X	8 "	64.	44	44			9 9		.07	3.50
4342B- 9.	44	solid.	16	X	9 "	4	-60	**	and	D.C.	Lamps,		.071/6	3.55
4342B-10.	AL	#	36	X 1	0 "	44.	44	#	- 6	81	н		.08	4.00
4342B-12.	4	44	16	X 1	2 "	16.5	44	44	44	84	14		.09	4.50
4342B-16.	dd.	44	12	X 1	6 "	41	44	44	46	16.	44	- 33	.12	5.90
4342C-12.	White Fl											Ma is r		
	used on o	pen ar	c la	mp)									\$0.15	\$7.10
			1	BIC	HRO	AC	IAN	E OF	P	OTA	ASH		5 Lbs.	10 Lbs
234.	Bichroma	ate of P	ota	sh, fe	or int	ensi	fying	and fixin	g Bl	ue Pri	ints . In	Car	ns \$1.45	\$2.45

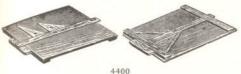
PRICES SUBJECT TO CHANGE WITHOUT NOTICE



### EUGENE DIETZGEN CO.

Section 22

### DRAWING BOARDS, TABLES AND EQUIPMENT DRAWING BOARD OUTFIT

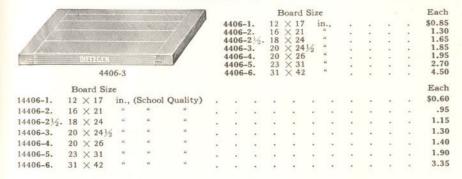


Drawing Outfits consisting of a well made Board, T-Square, and two Triangles. Compact, inexpensive and durable, and are excellent for school use.

							Doz.	Each
4400.	Size	10	X	12	in.,		\$ 8.00	\$0.80
4401.	ш	13	X	19	61		12.00	1.20
4402.	44	17	X	22	44	+4	17.00	1.70

#### DRAWING BOARDS

Basswood Drawing Board

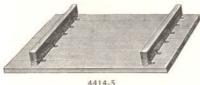


#### PINEWOOD DRAWING BOARDS

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.



	1	Вог	ard Si	ze			-	4410							Each
24410-1.	12	×	17	in.,	(School	Quality)			40			28		*	\$0.50
24410-2.															.75
24410-23/2.	18	×	24		-	**									.95
24410-3.	20	×	2436		#.	44			4						1.05
24410-4.	20	×	26	.00	*							4	ă.		1.10
24410-5.	23	×	31	4	*										1.50



2		B	oar	d S	ize		Each	Wg	t.
7	4414-5.	23	X	31	in.,		\$ 5.00	20	1b.
	4414-6.	31	X	42	#		7.25	55	#
	4414-7.	36	X	48	44		11.80	65	4
	4414-8.	36	X	54	16		13.20	70	4
	4414-9.	36	X	60	44		14.85	80	44
	4414-10.	42	X	60	44		17.30	100	44
	4414-11.	36	X	72	44		17.60	110	4
	4414-12.	48					23.75	120	#



### DRAWING TABLES AND STANDS UTILITY FOLDING STAND



	4430.	Utility Folding Stand. Made of hardwood. Especially adapted for student use. It has a height adjustment of 28½, 32½ and 36½ in with a standard property.	
	4430-3.	36½ in. with an incline of 1½ to 2 in. at the rear, Each, Utility Folding Stand with board No. 4406-3, size 20 × 24½ in.,	\$ 5.00
	4430-4.	Utility Folding Stand with board No. 4406-4, size 20 × 26 in.,	6.85
	4430-5.	Utility Folding Stand with board No. 4406-5, size 23 × 31 in.,	6.95
	4432.	Simplicity Folding Stand. Made of nicely finished hardwood. Has a height adjustment of 31, 34 and 37 in. with an incline of 2 to 2½	7.70
4430		in. at the rear, Each, Simplicity Folding Stand with board No. 4410-3, size 20 × 241/2	8.00
4432-4. Simplicity Folding Stand, with board	Nt. 441		10.00
4432-5. " " " " " " " "	" 441	0-4, size 20 × 26 in., Each,	10.10

#### 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  $20 \times 26$  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" controllock fixes the board at any angle. There is plenty of knee room for comfort. A pencil and instrument rack affords adequate room for all instruments. The table, folding to only 3 in. thick when storing, can easily be placed behind a door or in a closet out of the way.

4433. Handy Drawing Table complete with pinewood board 20 × 26 in., and oak stand. Board has pencil and instrument rack. Height of table when opened to horizontal position, approximately



### IDEAL DRAWING TABLES

4440-5. Ideal Drawing Table with board No. 4414-5, size 23 × 31 in. Strong, durable and rigid. Made of hardwood, with well seasoned pinewood 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. 4414-6, size 31 × 43 in., . Each. 19.50

### EUGENE DIETZGEN CO.

### WOODEN DRAFTSMEN'S STOOLS

4500.	Draftsmen's	Stool,	golde	en eln	n, v	vood	seat,	hei	ght 3	0 in	, .	We	p'g ight lbs.	Each \$3.50
				Adj	ust	able	Sea	t						
4502A.	Draftsmen's	Stool,	gold	en eli	m,	wood	seat	, he	ight	adju	ıstab	le		
	from 26 to 30	inches		(20)								30	66	7.50

#### 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 feet are rounded and smooth. The seat is 141/2 inches in diameter, made of hardwood, neatly finished.



										Approx. Shp'g	
										Wgt.	Each
4508A.	Indestructo	Stools,	with	foot	rest,	28	in.	high,		45 lbs.	\$4.80
4508B.	44	66	44	44	"	30	44	44		45 "	5.15

#### 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

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.

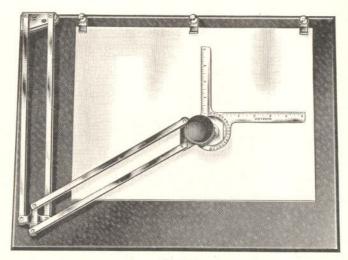
These tables can also be furnished with an attaching ring as shown in the illustration, which permits several boards to be used interchangeably on the same stand.



4510.	Multum Drawing Stand (without ring or board). Approx. Shp'g Wgt., 26 lbs.,
	· · · Each, \$14.00
4510-3.	Multum Drawing Stand (without ring) with board No. 4410-3, size 20 × 24½ in. Approx. Shp'g Wgt., 31 lbs., Each, 16.00
4510-4.	Like No. 4510-3, but with board No. 4410-4, size 20 × 26 in. Approx. Shp'g Wgt., 32 lbs., Each, 16.10
4510-5.	Like No. 4510-3, but with board No. 4410-5, size 23 × 31 in. Approx. Shp'g Wgt., 33 lbs., Each, 16.90
4511-5.	Like No. 4510-3, but with board No. 4414-5, size 23 × 31 in. Approx. Shp'g Wgt., 34 lbs., Each, 19.00
4510R.	Attaching Ring for board, . Each, 3.00



#### AUTODRAFT PORTABLE DRAFTING MACHINE



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 ×19.
- T-Square. Semi-universal arm holds it always in true.
- Triangles. Protractor mounted L-Square does work of a score of triangles.
- Scales. Both legs of L-Square graduated
- Protractor. Any angle from 0 to 360 instantly available.
- Holding Clips—do away with thumb tacks. Permanently attached.

The entire mechanism is engineered of flat-sheen metal; control knob is of durable Bakelite, highly polished. Board is of high-finish, strong yet extremely light-weight Presdwood. Available in 2 sizes. No. 4610. Autodraft, 9 × 12 in., with L-Square and Protractor, . . . " 12 × 18 " " " " " 12 X 18 " unmounted, mechanism without board and No. 4612W.

#### DETACHABLE SCALES

For added convenience and speed, these Detachable Scales in 4 styles of graduations are available. White edge boxwood scales with machine graduations that are accurate and durable

No. 4616A-1.	Flat	White	Edge	Scale;	6 in. Open divided; one edge 1/8, 1/4, other 1/2,		
	I inc	h to fo	ot, .			Each,	\$1.50
No. 4616D-1.	Flat				12 in. Same as No. 4616A-1,	44	2.50
No. 4616A-6.	44	44	44	#	6 " Full divided; ½ and full size,	16	1.50
No. 4616D-6.	44	44	#	#	12 " Same as No. 4616A-6,	14	2.50
No. 4616A-7.	44	**			Scale 6 in. Chain Scales 10 × 50 parts to inch,	14	1.50
No. 4616D-7.	*	44	44	44	" 12 in. Same as No. 4616A-7	44	2.50
No. 4616A-9.	Flat	White	Edge	Metric	Scale; 20 cm. Metric Scales-Mm. and 1/2 mm.,	**	2.00
No. 4616D-9.		44	4	- 44	" 50 " Same as No. 4616A-9,	46	2.50

#### CANVAS CASES

These canvas cases enable one to take full advantage of the portability of the Autodraft Portable Drafting Machine as they protect both the machine and drawing against rough treatment in trans-

Por carron an	d the w	carner											
No. 4610C.	Canvas	Case	for	No.	4610,	9	X	12	in.	Autodraft	Machine,		Each, \$1.25
No. 4612C.	4		#	No.	4612,	12	X	18	ш	*			* \$1.50

# DIETZGEN Waterproof

### DRAWING INKS

Flow Freely Dry Quickly Positively Waterproof!

DIETZGEN WATERPROOF DRAW-ING INKS are made of the finest materials obtainable. They are mixed uniformly . . . tested for uniformity ... giving a consistently high quality.

The black ink is absolutely opaque.

Their wide use by Professional Draftsmen, Artists and Students is an endorsement of their quality.

The 10 brilliant true colors may be diluted with distilled water or mixed to produce other shades.

They flow freely, dry quickly, and are insoluble (waterproof) when dry.

Excellent for fine line work and wash drawings.



- YELLOW
- **ORANGE**
- SCARLET
- CARMINE
- BLUE
- GREEN
- BROWN
- BRICK RED
- VERMILION
- VIOLET
- BLACK

