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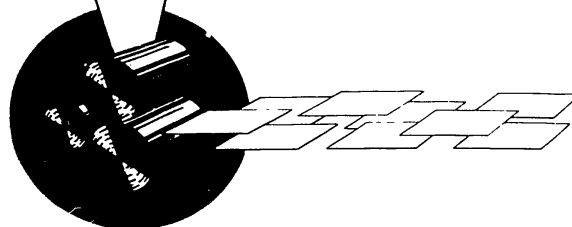
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UNITED STATES AIR FORCE

# GRAPHICAL PROCESSING

OF INTELLIGENCE DATA



BATTELLE MEMORIAL INSTITUTE

**PART II**

**CATALOGUE  
OF  
COMMERCIAL  
EQUIPMENT**

**GRAPHICAL PROCESSING**

**OF INTELLIGENCE DATA**

by

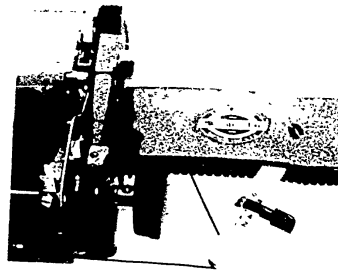
J. M. DUGAN  
P. E. DESGUIN  
J. S. JONES  
S. A. HAWK  
E. C. OLSON  
L. E. WALKUP

**BATTELLE MEMORIAL INSTITUTE**  
GRAPHIC ARTS DIVISION

**1957**

The Marginator Company  
1121 West Magnolia Avenue  
Burbank, California

JUSTIFIERS



PHOTOGRAPH OF THE MARGINATOR

With the Marginator, justified copy can be prepared for mimeograph, photo-offset multilith, multigraph duplicator, hectograph and other reproduction processes.

The Marginator will justify columns as narrow as one and one-quarter inches, or as wide as the carriage of the typewriter. Two or more columns may be justified on the same page, without shifting the paper. At the same time, regular operation of the typewriter is not affected. Whenever the Marginator is set to neutral, it is automatically disconnected, so that the machine may be used for ordinary correspondence or other purposes. No operation of the typewriter is changed. Back-spacing, tabulating, and other operations may be done at any time, whether or not the Marginator is being used.

Marginators are available for all typewriters, Manual or electric, in general use. Following is a price for the Marginator for use on several representative typewriters:

For IBM Electric Typewriters:	
Models "A" and "B" Standard	\$95.00
Models "A" and "B" Executive (32 and 36 Pitch)	125.00
Models "A" and "B" Executive (45 pitch)	145.00



POOR SIGNAL

# JUSTIFIERS

The Marginator Company  
1121 West Magnolia Avenue  
Burbank, California

For Royal Electric Typewriters:  
Model RE Electric . . . . . \$95.00  
Model HH Standard . . . . . 95.00  
For Remington Electric Typewriters:  
Model AR . . . . . 95.00

Quotations for Marginators not listed above are available from the manufacturer.

The usual installation fee is \$15.00.

Marginators are available to match the color of any typewriter.

# JUSTIFYING PAPER

Phototype, Inc.  
1414 Roscoe Street  
Chicago 13, Illinois

Justi-Type is a treated sheet of paper with a flexible base laminated lightly to a pressure-sensitive backing sheet. Evenly spaced horizontal cuts are made in the top layer of the paper and the cuts are keyed to the ratchet travel of most standard typewriters. You merely place the sheet in your machine so that the first line falls within the die-cut area and type the page.

After the copy has been typed, the sheet is removed from the machine and the lines that are short are lifted up and stretched to the right sufficiently to align with the predetermined right-hand margin.

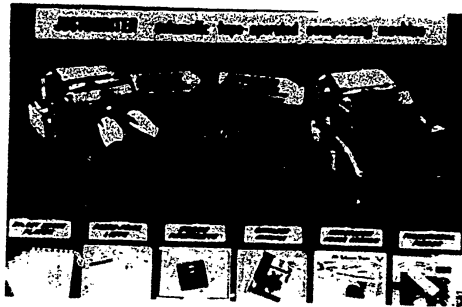
Introductory Justi-Type Kit:  
Clipboard, stylus, burnishing stick, bottle of poster cement,  
vinyl overlay sheet, and twelve sheets of Justi-Type paper,  
size 10 by 12 inches . . . . . \$6.00

Justi-Type Paper:  
1 Box (25 sheets) . . . . . 24¢ per sheet  
4 or more boxes . . . . . 22-1/2¢ per sheet

POOR SIGNAL

#### COMPOSING MACHINES

Commercial Controls Corporation  
1 Leighton Avenue  
Rochester 2, New York



**The Justowriter.** The Justowriter is an automatic-justifying, typewriter-composing office machine. It consists of two elements, each basically a proportional spacing, mechanically adjusted, electrically powered, typewriter. These two elements are the Recorder and the Reproducer.

The output of the Recorder is an unjustified, typewritten record, and a perforated tape with the code for each letter and function. The Reproducer combined with a tape reader interprets the tape and automatically types and justifies in page or galley form the information typed and recorded by the Recorder.

#### Standard Specification of the Justowriter Units:

Carriage length:	12 inches. Will accept 11-inch sheet and print a 9-inch writing line. 16-inch carriage length is available on all models at extra cost.
Dimensions.	17-1/2 inches wide 20 inches deep 10 inches high
Net weight	85 pounds
Shipping weight.	135 pounds
Electrical requirements:	115 volt, 60 cycle, ac service
Cost:	
Recorder	\$2250.00 Base List
Model AA	2850.00 Base List
Reproducer	2650.00 Base List

## COMPOSING MACHINES

Commercial Controls Corporation  
1 Leighton Avenue  
Rochester 2, New York

The following accessories and supplies are available:

Tape Winder  
Tape Unwinder  
Justowriter Stand  
Carbon Ribbon (4 and 8 inch rolls)  
Fabric Ribbon for Recorders  
Justowriter Tape (1000-foot rolls)  
Storage Boxes for Filing Tapes

All of these items are specifically designed for use with the Justowriter. The metal accessories are finished in a blue-grey crinkle finish to blend with modern office furniture.

## COMPOSING MACHINES

Ralph C. Coxhead Corporation  
720 Frelinghuysen Avenue  
Newark 5, New Jersey

The Standard Vari-Typer. The Standard Vari-Typer has interchangeable type faces and spacings. These features enable an operator to produce copy with a printed appearance. In addition, there are other features which add to the quality of master copies prepared on this machine. One is the mechanism for typing with an even right hand margin; another, an electrically controlled hammer which strikes with the same pressure no matter how hard or lightly the letter keys are depressed. The copy thus has a uniform quality.

The DS Composing Machine. This machine is a development of the Standard Vari-Typer. The important feature which differentiates it from the original machine is the provision which allows proportional spacing for all letters and characters.

The DSJ Composing Machine. This machine is similar in appearance to the other machines. It has all the features of the previous models and in addition is automatically justifying.

The DSJF Composomatic Composing Machine. This machine has all the features of the regular DSJ plus a device for ruling a variety of horizontal and vertical lines and producing vertically justified leaders. It can be used to compose forms complete with typography and lines ready for reproduction.

The Coxhead Headliner. The Coxhead Headliner is a photo-composing machine for display type. It uses large type, larger than possible on an ordinary typewriter. The Typemasters, or fonts, are plastic negatives, which are used repeatedly. The type sizes range from 14 point to 72 point; over 60 different type styles are available.

GOVERNMENT PRICE LIST  
Expiration Date - June 30, 1957

Prices quoted are without type fonts or Typemasters.

## STANDARD VARI-TYPER MODELS:

## Automatic Justifiers:

A-20 . . . . .	\$945.00
A-20F . . . . .	1120.00

Automatic Justifier models have unit letter spacing (10, 12, 14, and 16 characters per inch, carbon ribbon and one-color fabric ribbon mechanism. "F" following numeral, showing carriage length, indicates ruling and leader line attachment.

## COMPOSING MACHINES

Ralph C. Coxhead Corporation  
720 Frelinghuysen Avenue  
Newark 5, New Jersey

GOVERNMENT PRICE LIST (Continued)  
Expiration Date - June 30, 1957

## Attachments:

Special Spacing (12, 14, 16, 18) . . . . . \$ 31.50  
Mathematical . . . . . 85.50

## Non-Justifiers:

F-24 . . . . . 787.50  
F-20 . . . . . 724.50  
F-16 . . . . . 661.50  
E-24 . . . . . 963.00  
VBM . . . . . 1160.00

Non-Justifier models have unit letter spacing (10, 12, 14, and 16 characters per inch), carbon ribbon and one-color fabric ribbon mechanism. "F" following numeral, showing carriage length, indicates ruling and leader line attachment. VBM model has carbon ribbon mechanism only.

## Attachments: (F-24, F-20, F-16, and E-24)

Forms Design . . . . . 175.50  
Special Spacing (12, 14, 16, 18) . . . . . 31.50  
Mathematical . . . . . 85.50

## DSJ VARI-TYPER MODELS

## Series 160:

DSJ-16 . . . . . 2115.00  
DSJ-16F . . . . . 2295.00  
DS-20 . . . . . 1795.00  
DS-20F . . . . . 1975.00  
DS-24 . . . . . 1775.00  
DS-24F . . . . . 2155.50  
\*DSE-24 . . . . . 2290.50  
\*DSM-24F . . . . . 2470.50  
DSJ-16RC . . . . . 2475.00

\*Does not include Vari-Liner or variable line spacing in half-point graduations.

Series 160 Vari-Typers have differential letter spacing (A, B, C, and D), variable line spacing in half-point graduations, carbon ribbon mechanism, and language coder. "J" in the model indicates automatic justification mechanism. "F" in the model indicates ruling and leader line attachment. "E" in the model

## COMPOSING MACHINES

Ralph C. Coxhead Corporation  
720 Frelinghuysen Avenue  
Newark 5, New Jersey

GOVERNMENT PRICE LIST (Continued)  
Expiration Date - June 30, 1957

Indicates engineering mechanism. "RC" in the model indicates reverse carriage mechanism. Numerals indicate carriage length.

## Attachments:

Special Spacing and Language Coder . . . . . \$ 55.00

## Motor Specifications:

Standard Equipment: 115-volt AC-DC. When specified, 230-volt AC-DC. Form attachment will operate only on 115-volt AC 50 or 60 cycles. If 115-volt DC is required, an inverter must be used. If 230-volt AC 50 or 60 cycles is desired, a transformer is required. Forms attachment will not operate on 230-volt DC current. Model VBM (Branding Machine) will operate only on 115-volt AC.

## Color Specifications:

Series 160 - Tan or Gray. All other models - Gray.

## COXHEAD HEADLINER:

Vari-Typer Headliner . . . . . \$750.00

## Motor Specifications:

Standard Equipment: 115-volt AC 60 cycles. Other motors available: 115-volt AC 50 cycles, 115-volt AC-DC, 230-AC-DC, 230-volt AC 60 cycles, and 230-volt AC 50 cycles.

## Color Specifications:

Only color available - Tan.

## TYPE FONTS AND TYPEMASTERS:

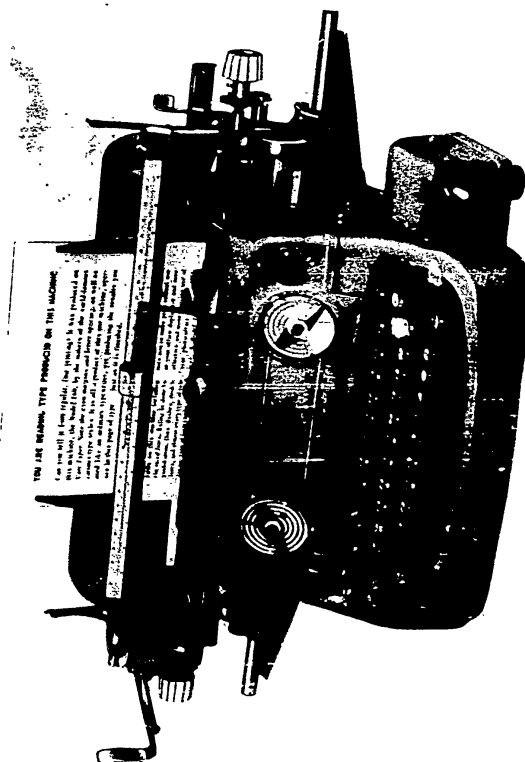
Standard Vari-Typer Types . . . . . \$29.25  
Standard Vari-Typer Forms Design Types . . . . . 38.25  
DSJ Vari-Typer Types . . . . . 26.77  
DSJ Vari-Typer Forms Design Types . . . . . 35.77  
Headliner Typemasters . . . . . 28.50  
Character Changes with Existing Character . . . . . 15.00  
Character Changes with Non-existing Character (Art work supplied by customer) . . . . . 25.00  
Export packing for all Vari-Typers and Headliners . . . . . 25.00

COMPOSING MACHINES



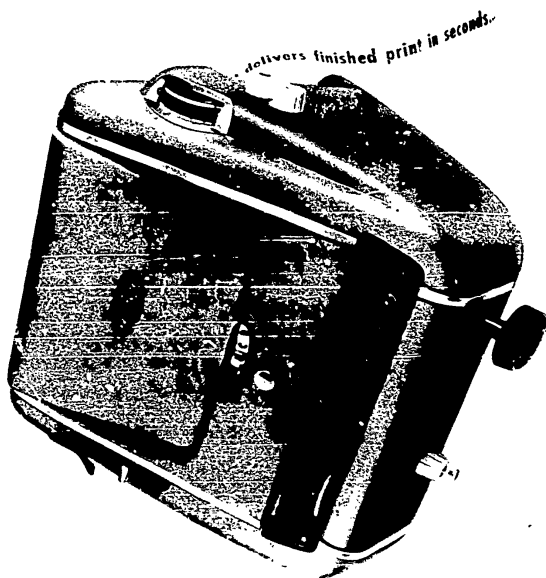
PHOTOGRAPH OF STANDARD VARI-TYPER

COMPOSING MACHINES



PHOTOGRAPH OF DSJ COMPOSING MACHINE

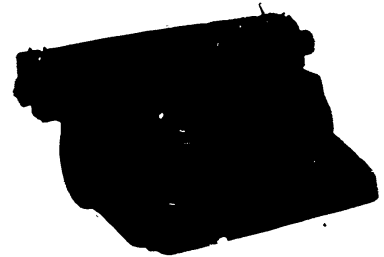
COMPOSING MACHINES



PHOTOGRAPH OF COXHEAD HEADLINER

COMPOSING MACHINES

International Business Machines Corporation  
590 Madison Avenue  
New York 22, New York



Although classed as a typewriter by its manufacturer, the Executive Model IBM Typewriter, offers proportional spacing, and may readily be used as a composing machine.

The Executive is available in fifteen type faces designed especially for legibility. By using the 2- and 3-unit space bars and typing twice, the copy can be justified. In addition to high quality typing for photographic reproduction, the IBM will prepare high quality direct-to-plate masters.

The typewriter may be purchased either with or without the carbon ribbon attachment.

## COMPOSING MACHINES

International Business Machines Corporation  
590 Madison Avenue  
New York 22, New York

Model Carbon Ribbon	Number Fabric Ribbon	Carriage Width (Inches)	Maximum Length of Writing (Inches)	Maximum Width of Paper (Inches)	Unit Escape- ment (Inches)	Number of Keyboard Characters	Number of Type Faces	Price Each	Mrs. Excise Tax	Total Price
411	511	12	10.4	11	1/32	84	8	\$517.50	\$34.50	\$552.00
412	512	16	14.4	15				\$44.50	36.30	\$80.80
413	513	20	18.4	19				\$71.50	38.10	\$109.60
421	521	12	10.4	11	1/32	88	8	\$48.00	36.00	\$84.00
422	522	16	14.4	15				\$67.00	37.30	\$104.30
423	523	20	18.4	19				\$76.00	39.60	\$115.60
481	581	12	10.4	11	1/45	84	2	\$48.00	36.00	\$84.00
482	582	16	14.4	15				\$76.00	38.40	\$114.40
483	583	20	18.4	19				\$83.00	40.20	\$123.20
491	591	12	10.4	11	1/45	88	2	\$71.50	38.10	\$109.60
492	592	16	14.4	15				\$98.50	39.90	\$138.40
493	593	20	18.4	19				\$25.90	41.70	\$67.60

Export Price - Deduct \$3.75. Manufacturer's Excise Tax not applicable provided proof of export is furnished.

Export Packing - MIL-P-3836 at \$7.00 per electric typewriter

## COMPOSING MACHINES

Halber Corporation  
4151 Montrose Avenue  
Chicago 41, Illinois



The Typro photocomposing machine is for the purpose of preparing headline or display type. The Typro provides automatic word spacing and a character count on each font so that the length of headings can be determined quickly. The index letters on each font are magnified for easy reading. Either paper or film may be used in this machine and both emerge from the machine dry and ready for paste-up on the copy.

## TYPRO PRICE LIST

## Equipment

Typro Composer with cabinet base, one Font Magazine, Automatic Developing Tank, Trays, and Operating Manual . . . . .	\$770.00
Typro Font Magazine. Each magazine will hold at least 10 fonts. One magazine included free with every 10 fonts purchased on one order . . . . .	25.00
Typro Master Film Font . . . . .	20.00

## COMPOSING MACHINES

Halber Corporation  
4151 Montrose Avenue  
Chicago 41, Illinois

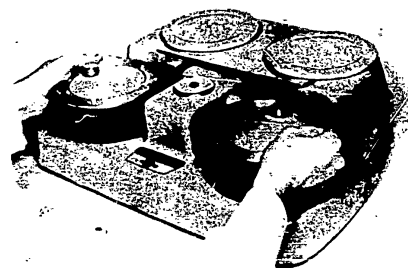
## TYPRO PRICE LIST (Continued)

## Supplies

Typro Paper, waterproof, instant dry:	
Roll 1-3/4 inches x 100 feet, each . . . . .	\$ 5.00
Package, 6 rolls . . . . .	27.00
Typro Film:	
Roll 1-3/4 inches x 100 feet, each . . . . .	9.00
Package, 6 rolls . . . . .	50.00
Halber 78 Single Solution Developer and Fix:	
Package, single powder to mix with pint water . . . . .	0.65
Dozen Packages . . . . .	7.00
Quickrinse:	
6 ounce bottle, each . . . . .	1.50
Reverso No. 1 Powder, mixes with 1 pint water . . . . .	0.50
Reverso No. 2 Powder, mixes with 1 pint water . . . . .	0.50
(Dip paper or film in the 2 Reverso solutions to produce a reverse proof, instead of positive) (10% discount in dozen lots)	
MQ Universal Developer, for paper and film	
1 pack mixes with 1 pint water, 6 packs in a box, per dozen boxes . . . . .	4.20
High-Speed Liquid Fix, dozen bottles . . . . .	4.40

## COMPOSING MACHINES

Filmotype, Inc.  
7500 McCormick Blvd.  
Skokie, Illinois



The Filmotype is a photo composing machine for producing professional hand lettering and display type. The Filmotype is a small portable machine which will set on any desk or table and operate wherever 110-volt 60-cycle ac service is available. Where desirable 25-cycle and dc machines are also available. With a Filmotype, over 1000 styles and sizes of lettering and type are available in sizes ranging from 12 to 144 point.

Cost . . . . .	\$750.00 less 5% if purchased on cash basis.
Type Fonts . . . . .	12.00 each
Lettering style Type Fonts . . . . .	15.00 to \$23.00 each

These costs include delivery of the machine and training an operator.

## Price List of Accessories and Supplies:

Standard Paper - Single weight glossy (100 feet) . . . . .	\$3.75
Thin Gloss Paper - Lightweight glossy (100 feet) . . . . .	3.75
Contact Paper - Lightweight semi-matte (100 feet) . . . . .	3.75
Special Paper - Plastic base (100 feet) . . . . .	4.50
Silo-Film - For a positive print on clear acetate (100 feet) . . . . .	8.50



## COMPOSING MACHINES

Filmotype, Inc.  
7500 McCormick Blvd.  
Skokie, Illinois

Hype - Edwal Quick Fix (1 dozen 4 ounce bottles) . . . . .	\$4.25
Developer - Eastman Versatol (1 dozen 8 ounce bottles) . . . . .	4.20
Print Dryer - Single Surface, 11-1/2 x 15 . . . . .	9.95
Parallel Glider - 10 inch size . . . . .	2.95
Parallel Glider - 14 inch size . . . . .	3.95
Reversing Frame . . . . .	4.00
Exposure Bulb . . . . .	1.45
Screen Tints - All patterns . . . . .	1.00 each
Splicing Tape - 72 Yard roll (No. 750 Black) . . . . .	2.00

## Machine Rental Plan:

Rental payments are \$45.00 per month. After 14 payments (630.00 dollars), you have the option to purchase your Filmotype by making an additional payment of \$120.00. The total purchase price of the machine is \$750.00. The difference between all rentals paid and total purchase price, \$750.00, may be prepaid at any time at a 5% discount.

You may return the machine at the end of any monthly period without further obligation.

Throughout the 14-month rental period, your machine is unconditionally guaranteed, whether you rent or buy.

## Font Rental Plan:

This plan offers you the opportunity to have a maximum number of fonts at minimum expenditure.

You select the fonts you want from the catalogs. Compute the total value of the fonts as specified in the price lists. You pay \$3.00 a font per month until the total purchase price of these fonts is reached.

TYPE FOR  
DISPLAY LINES

Fototype, Inc.  
1414 Roscoe Street  
Chicago 13, Illinois

Setting display lines with the Fototype equipment is a simple, clean method that can be easily mastered. The type is printed on white cardboard stock. Pads are made up for each letter and character and the individual letters are removed as needed. The letters and characters may also be secured as Fototype Transparencies. A composing stick on which the copy is set, prior to transfer to the copy is available as well as other accessories:

Price List of Equipment and Accessories  
Effective April 2, 1954

## Standard Opaque Fototype:

Sizes 12 to 84 point:

Cap and Figure Sets, including Punctuation Marks . . . \$8.25 per tray  
Lower Case . . . . . 5.25 per set

Large Sizes, up to 2-1/2 inches high:

Cap and Figure Sets, including Punctuation Marks . . . 8.60 per tray  
Lower Case . . . . . 6.05 per set  
Refills for all Opaque Sets . . . . . 0.35 per pad

## Transparent Fototype:

Cap and Figure Sets, including Punctuation Marks . . . 10.80 per tray  
Lower Case . . . . . 7.20 per set  
Transparent Refills, per pad of 80 characters . . . . . 0.50 per pad

Fototype Composing Stick . . . . . 5.50  
Fototype Composing Stick for large type only . . . . . 3.00

Combination Stylus and Burnishing Stick . . . . . 0.45

Fototype Cabinet (will hold 6 trays of letters)  
Durably constructed of steel. Office grey finish . . . . . 16.50

Empty Refillable Fototype Trays . . . . . 1.90 each

Layout Suggestions Book and Art Work Catalogue . . . . . 2.50

# TYPEWRITER ACTUATORS

Robotyper Corporation  
Hendersonville, North Carolina

The Robotyper is a business machine which operates any electric typewriter by means of a perforated paper record roll. Although it can be used to operate any electric typewriter, it can be used only with the electric Royal typewriter without any modification of the typewriter. The maximum speed of the Robotyper is 135 words per minute.

The Robotyper can be used as an extra typewriter although its principal purpose is that of an automatic typing machine. The Robotyper is operated by a record roll which is a tape prepared on a Record Roll Perforator. Also available is the Re-perforator which perforates one record roll from another.

The tapes are of sufficient length that three full 8-1/2 by 11-inch pages may be kept on a single roll. Several different letters or communications may be punched on the same tape.

Basic Unit - Robotyper and one Royal Electric Typewriter	\$ 830.00
Basic Unit plus one more Royal Electric Typewriter	1315.00
Basic Unit plus two more Royal Electric Typewriters	1795.00

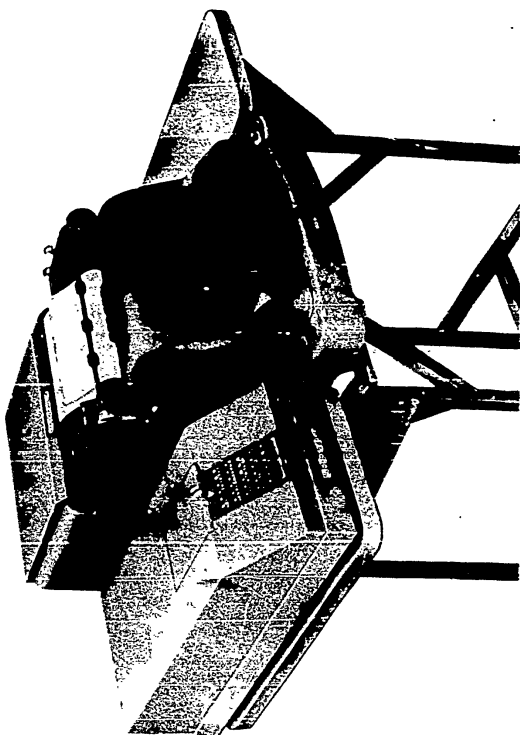
With this equipment the typewriter operates either from a punched tape or directly from a master typewriter.

With this equipment, the master typewriter must be operated manually. Punched tape cannot be used to operate the "slave" units by themselves.

Basic Unit - Robotyper and one Royal Electric Typewriter	\$ 835.00
Basic Unit and two "slaves"	1360.00
Basic Unit and three "slaves"	1780.00
Basic Unit and four "slaves"	2195.00

Record Roll Perforator	285.00
Record Roll Perforator with stand and pump	483.00
Re-perforator	1285.00

# TYPEWRITER ACTUATORS



THE ROBOTYPYER SHOWN WITH A ROYAL ELECTRIC TYPEWRITER AND THE PARAGRAPH SELECTOR

# TYPEWRITER ACTUATORS

American Automatic Typewriter Company  
2323 North Pulaski Road  
Chicago 39, Illinois

The Auto-typist is an automatic typing mechanism which operates any typewriter (other than portable) by means of a perforated paper record roll. These machines are not typewriters, but pneumatically powered machines designed to operate your typewriter, either manual or electric models.

## Model 5100 Space-Saver:

(Operates any electric typewriter)

Designed to type complete letters. Manual typing of name, date, address, salutation, and personalizing inserts. Automatically types repetitive data at a speed which permits one average typist and a battery of Auto-typists to complete as many as 500 error-free, individually typed letters a day. Each letter is perforated on a separate record roll. A new record roll containing a different letter may be inserted in the Auto-typist in less than a minute.

### Over-all Size:

Width . . . . .	28 inches
Depth . . . . .	30 inches
Height . . . . .	33 inches
Cost . . . . .	\$850.00

## Model 1054 Copy-typist:

(Operates any electric typewriter)

Typist inserts the same or different forms in each typewriter. Then typist types material on right hand, or master typewriter. The copy typewriter automatically reproduces the material on the same or a different form, as in the case of addressing envelopes and labels simultaneously. One typewriter can be shut off if desired so that information can be included on one form and omitted from the other.

### Over-all Size:

Width . . . . .	55 inches
Depth . . . . .	30 inches
Height . . . . .	26 inches
Cost . . . . .	\$950.00

## Model 5020 Standard:

(Operates any manual or electric typewriter)

This model embodies all the features of the Model 5100 Space-Saver described above, and in addition is designed to operate any typewriter, either manual or electric. Larger, more spacious desk provides ample space for stationery storage.

Cost . . . . .	\$990.00
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# TYPEWRITER ACTUATORS

American Automatic Typewriter Company  
2323 North Pulaski Road  
Chicago 39, Illinois

## Model 5630 Push-Button Selector:

(Operates any electric typewriter)

This model features a record roll which will carry 30 or more letters, depending on the length. A panel of 30 push-buttons corresponds to each of the 30 different letters recorded on the roll. To automatically type any letter or paragraph on the roll, in any desired combination, you merely slip paper in typewriter and touch the push-buttons corresponding to the material you wish to have typed. Model 5630 picks out the letter and types it without further attention.

### Over-all Size:

Width . . . . .	30 inches
Depth . . . . .	32 inches
Height . . . . .	35 inches
Cost . . . . .	\$1200.00

## Model 3054 Push-Button Selector:

(Operates any manual or electric typewriter)

This model embodies all the features of the Model 5630 Push-Button Selector, and in addition is designed to operate any typewriter.

### Over-all Size:

Width . . . . .	38 inches
Depth . . . . .	30 inches
Height . . . . .	34 inches
Cost . . . . .	\$1250.00

## Model 5060 Dual Push-Button Selector:

(Operates any manual or electric typewriter)

This model embodies all the features of the Model 3054 Push-Button Selector, and in addition accommodates two record rolls. It has a total capacity of 500 typewritten lines in the form of individual paragraphs or separate letters.

### Over-all Size:

Width . . . . .	59-1/2 inches
Depth . . . . .	30 inches
Height . . . . .	34 inches
Cost . . . . .	\$2350.00

Upon delivery of any Auto-typist equipment, the company sends a representative to instruct you on its operation and care. A well written instruction manual is also included in the price which will enable you to make minor adjustments and repairs when necessary without calling a serviceman.

## Perforator Model 25:

The Perforator has a standard typewriter keyboard and will perforate record rolls almost as quickly as you can type a letter. As the paper roll is fed forward pneumatically, only a light touch is required for operation.

# TYPEWRITER ACTUATORS

American Automatic Typewriter Company  
2323 North Pulaski Road  
Chicago 39, Illinois

The Perforator is approximately the same size and weight as a typewriter. A winding spindle on top of the machine enables you to wind up the roll on the record spool.

Cost . . . . .	\$425.00
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## Perforator Stand - Model 10:

This stand is for the Perforator Model 25. Finished in gray to match the Perforator.

Cost . . . . .	\$425.00
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## Perforator Stand - Model 15:

This stand is the same as Model 10, but includes a pump and motor so that the perforator can be used independently of the Auto-typist power source.

Cost . . . . .	\$675.00
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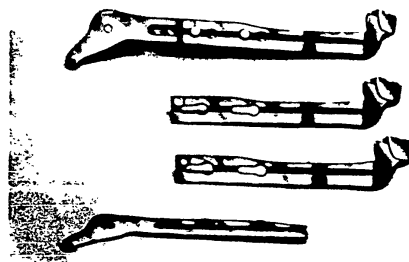
## Re-perforator Model 95:

The Re-perforator was designed especially for the rapid and accurate production of additional identical record rolls for use on a battery of Auto-typists. When a Re-perforator is installed, no Perforator is needed. Complete with its own pump and motor.

Cost . . . . .	\$1150.00
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INTERCHANGEABLE  
TYPEWRITER  
TYPEBARS

Royal McBee Corporation  
Westchester Avenue  
Port Chester, New York



These special typebars may be installed on any Royal typewriter, either manual or electric, and thus permit a wide variety of characters with a limited keyboard. The typebars must be especially made for the particular key and machine on which they are to be used.

Complete Typebar	\$2.68
Extra Top (another character)	1.34
Installation of complete Typebar	2.50

# INTERCHANGEABLE TYPEWRITER TYPEBARS

Remington Rand Company  
315 Fourth Avenue  
New York 10, New York

The special typebar segments manufactured by Remington allow you to change type faces so that special symbols may be used in typing. These symbols may be mathematical, chemical, or even medical in nature.

The unwanted character slug is removed by a special tweezers and the new slug is clamped in place on the typebar.

Typebar for Interchangeable Type Face . . . . .	\$7.50 each
Interchangeable Type Face Slug . . . . .	2.50 each
Die Charge for Interchangeable Type	
Face Slugs not Stocked . . . . .	30.00 each

# CARBON PAPER ELIMINATORS

Dupli-Typer Company  
465 Fourth Avenue  
New York 16, New York

The Dupli-Typer is a light weight steel device which rests on the typewriter platen and is held in place by the typewriter paper bale. It has no moving parts and requires no special attachments. The steel frame supports inked ribbons between the type face of the key of the typewriter and the platen.

Single Frame Unit (2 part forms) . . . . .	\$4.00 each
Double Frame Unit (3, 4, and 5 part forms) . . . . .	6.00 per set
Purple "Standard" Ribbons, (2 and 3 part forms, box of 50) . . . . .	3.00 per box
Purple "Superthin" Ribbons, (4 and 5 part forms, box of 50) . . . . .	3.50 per box
Black Ribbons or Red Ribbons . . . . .	1.50 per box
Form Guide . . . . .	4.00 and up

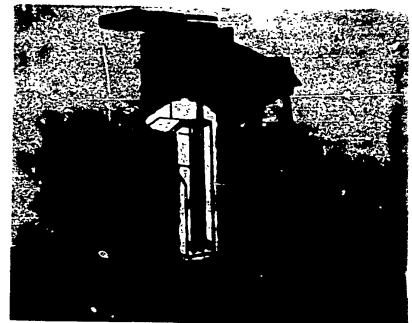
Frames and ribbons for forms wider than 8-1/2 inches are available at special prices.

# OPTICAL COPYING CAMERA PHOTOCOPIERS

Camera photocopiers are designed specifically for producing "photostat type" copies which are usually negatives; however, some cameras are adapted to produce positive copies directly. Some develop and fix the paper mechanically, and some, in addition to developing and fixing will also wash and dry the paper. Some are designed to produce stabilized prints only. They all use projection speed papers; however, some may use cut paper and others roll paper. At least one is designed specifically for making reduced size copies of engineering drawings. The simplest camera photocopier is a Polaroid Land Camera mounted on a special stand.

# CAMERA PHOTOCOPIER INTEGRAL DEVELOPING AND FIXING HALOID, "FOTO-FLOW"

The Haloid Company  
Rochester 3, New York



The Haloid Foto-Flow Model C has a continuous flow principle to produce prints at a high rate of speed. Although the standard model delivers up to three prints a minute, developing time is strictly controlled to 45 seconds. Prints move continuously, automatically, through developer into hypo tray, insuring absolute uniformity of processing. A warning signal tells operator when print transport mechanism has cleared sufficiently to accept another print. The Model C delivers prints in sequence, first print always on top. It requires no darkroom, the paper rolls may be changed in daylight. The special-type deep developing tank holds 19 gallons of developer, assuring uniform processing of photocopies. The developing tank replenishing jar maintains developer level of strength. It is not necessary to put in new chemicals every day.

Over-all Dimensions:	Length . . . . .	10 feet
	Width . . . . .	2-1/2 feet
	Height . . . . .	7-1/2 feet
Operating Space Required . . . . .		6 by 14 feet
Chemical Capacities:	Developer Tank . . . . .	19 gallons
	Developer Replenisher Jar . . . . .	3 quarts
	Hypo Tank . . . . .	12 gallons
Weight of complete machine when filled with chemicals and paper . . . . .		1050 pounds
Voltage Requirements . . . . .		115 volts

Prices and delivery dates are available from the manufacturer.

CAMERA PHOTOCOPIER  
SEPARATE DEVELOPING  
AND FIXING  
MODI-GRAPHIC, "FOTOMASTER"

Modi-Graphic Inc.  
215 East Ninth Street  
Cincinnati, Ohio

Designed primarily for modification of the original, i.e., to change the dimensions, italicize, backslant, add shadows, change line weights, etc. It can also be used for straight copy work, and a simple attachment can be used to get direct reading copies. It is made for use partially inside a dark room.

Floor Space: Inside dark room 3' x 2'  
Outside dark room 7-2/3' x 2'

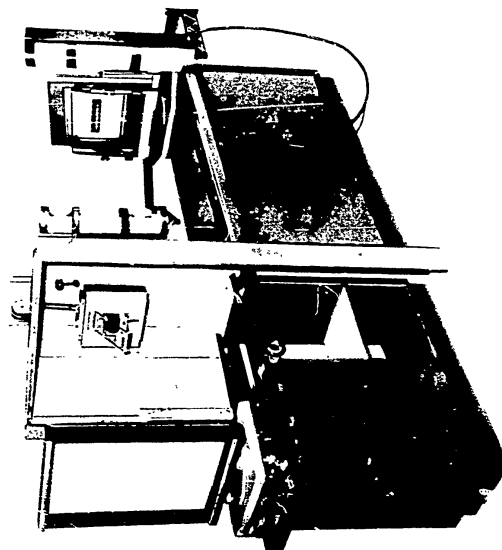
Exposure Area: 20" x 24"

Copy Size: 14" x 17"

Basic Price: Includes 2 lenses, 6 prisms, and 12 Modi-Shape units. Also includes supervised installation and an instruction course for the operator. \$4275.00

Accessories: Automatic electric control panel \$125.00  
Vacuum back 125.00  
Vacuum pump 64.00

CAMERA PHOTOCOPIER  
SEPARATE DEVELOPING  
AND FIXING  
MODI-GRAPHIC, "FOTOMASTER"



THE MODI-GRAPHIC "FOTOMASTER" MODIFICATION CAMERA



CAMERA PHOTOCOPIER  
SEPARATE DEVELOPING  
AND FIXING  
PEERLESS, "NEO-FLOW"

Peerless Photo Products, Inc.  
Shoreham  
Long Island, New York

This is a continuous flow type camera designed specifically for making reduced sized copies of engineering drawings. A special processor designed for this camera is used for developing and fixing.

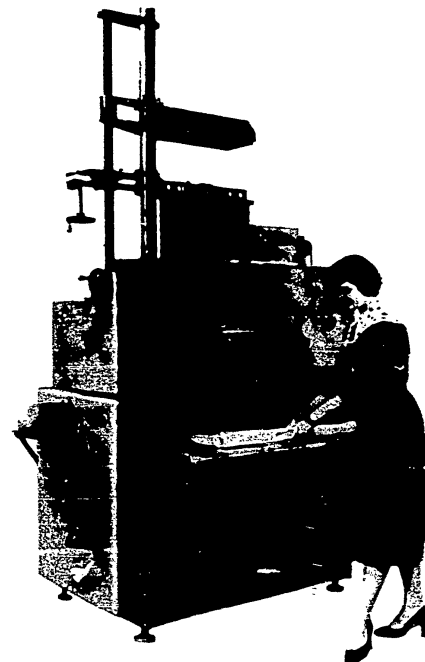
Floor space	4-1/2' x 5'
Exposure area	42" x Any Length
Max. copy size	21" x Any Length

Three models are available covering a reduction range from 2:1 to 6:1.

Basic Price

Neo-Flow camera and processor, including installation (most expensive unit)  
\$25,000.

CAMERA PHOTOCOPIER  
SEPARATE DEVELOPING  
AND FIXING  
PEERLESS, "NEO-FLOW"



PEERLESS NEO-FLOW REDUCING CAMERA

CAMERA PHOTOCOPIER  
INTEGRAL DEVELOPING  
AND FIXING  
PHOTOSTAT, "MODEL EXPEDITOR"

Photostat Corp.  
303 State Street  
Rochester 14, New York

This unit is designed specifically for the production of stabilized prints. Stabilization does not require washing so the unit does not require water and sewer connections, and is mounted on casters. Special paper and processing solutions are required. It may be obtained with glass covered subject holder bookholder, microfilm enlarger, or card copier.

Floor Space: 3' x 6'

Max. Exposure Area: 14" x 18"

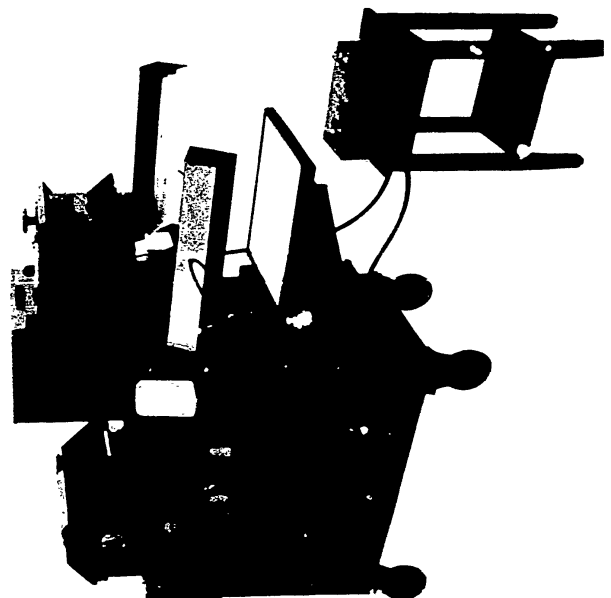
Max. Copy Size: 10" x 11"

Finished copy size can be 100, 90, 80, 70, 60 per cent of the original size.

Number of 8-1/2" x 11" copies per minute: 6

Basic Price: With either vertical or horizontal glass covered subject holder.  
\$3870.00

CAMERA PHOTOCOPIER  
INTEGRAL DEVELOPING  
AND FIXING  
PHOTOSTAT, "MODEL EXPEDITOR"



PHOTOSTAT PHOTOGRAPHIC COPYING APPARATUS, MODEL EXPEDITOR

CAMERA PHOTOCOPIER  
INTEGRAL DEVELOPING  
AND FIXING  
PHOTOSTAT, "MODEL JUNIOR"

Photostat Corp.  
303 State Street  
Rochester 14, New York

The smallest of the Photostat Models, it is designed for portability and easy disassembly. Developing and fixing may be done internally or in the darkroom. Auxiliary washing and drying equipment is necessary.

Floor Space: 4' x 4-1/2'

Max. Exposure Area: 14" x 18"

Max. Copy Size: 8-1/2" x 11"

Finished copy size may be 100, 90, 80, 70, 60 per cent of the original size.

Basic Price: Equipped for internal developing and fixing or with a deep dark box for darkroom developing and fixing. \$1150.00

<u>Accessories:</u>	Bookholder	\$150.00
	Automatic shutter control	90.00
	Deep dark box	115.00

CAMERA PHOTOCOPIERS  
INTEGRAL DEVELOPING  
AND FIXING  
PHOTOSTAT MODELS, "JUNIOR  
CONTINUOUS A AND B"

Photostat Corp.  
303 State Street  
Rochester 14, New York

Developing, fixing, washing, and drying are done mechanically inside the unit. It is not portable since it requires water and sewer connections. It may be equipped to handle both positive and negative papers, and may be obtained with glass covered subject holder, bookholder, microfilm enlarger, or card copier.

<u>Floor Space:</u>	Model A	3' x 6'
	Model B	3' x 8' 8"

Max. Exposure Area: 14" x 18"

Max. Copy Size: 10" x 11"

Finished copy size can be 100, 90, 80, 70 or 60 per cent of the original size number of 8-1/2 x 11" prints produced per minute:

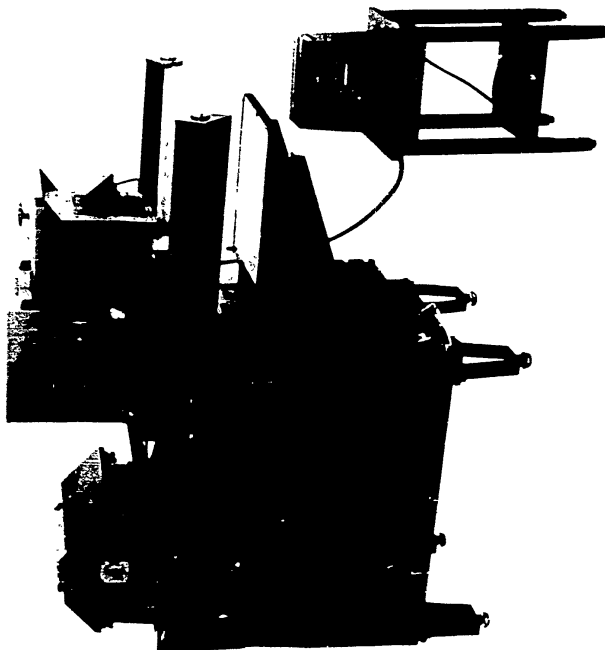
Model A	2
Model B	5

Basic Price: Equipped with glass covered copyholder

Model A	\$3975.00
Model B	\$700.00

Accessories: Additional cost for equipping these models to handle both positive and negative paper. \$500.00

CAMERA PHOTOCOPIERS  
"INTEGRAL DEVELOPING  
AND FIXING"  
PHOTOSTAT MODELS, "JUNIOR  
CONTINUOUS A"



PHOTOSTAT PHOTOGRAPHIC COPYING APPARATUS, JUNIOR CONTINUOUS MODEL A

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CAMERA PHOTOCOPIERS  
INTEGRAL DEVELOPING  
AND FIXING  
PHOTOSTAT MODELS  
"STANDARD 2 AND 4"

Photostat Corp.  
303 State Street  
Rochester 14, New York

These models may develop and fix within themselves, or they may use a conveyor or dark box which allows the developing and fixing to be done in the darkroom. Auxiliary equipment is necessary for washing and drying. Lighting equipment is not included as part of the basic unit. By rotating the lens and prism 90°, subjects not mountable in the subject holder can be copied. These models may be equipped with glass covered subject holder, engineering board, or bookholder. Model 4 is essentially a larger version of Model 2.

	<u>Floor Space</u>	<u>Max. Exposure Area</u> (glass covered sub- ject holder)	<u>Max. Copy Size</u>
Model 2	6' x 11.5'	28" x 36"	14" x 18"
Model 4	6.5' x 14'	28" x 36"	18" x 24"

Finished copy size can be varied continuously from 50 to 200% of the original size

Basic Price: With integral developing and fixing, and glass covered subject holder:

Model 2	\$2498.00
Model 4	2748.00

With splice indicator, conveyor for darkroom developing and fixing, and glass covered subject holder:

Model 2	\$2698.00
Model 4	3018.00

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CAMERA PHOTOCOPIER  
ACCESSORIES  
PHOTOSTAT CORP.Photostat Corp.  
303 State Street  
Rochester 14, New YorkAccessories for Lighting

	<u>Per Set</u>
3 SL 21" with individual reflectors for each tube	\$175.00
2 CV 42" with individual reflectors for each tube	185.00
2 CV 64" with individual reflectors for each tube	195.00
4 SL 42" with individual reflectors for each tube	350.00
4 SL 64" with individual reflectors for each tube	370.00
4 SL 42" with one master reflector for each four tubes	280.00
4 SL 64" with one master reflector for each four tubes	295.00

Microtronics Slimline lamps 110 volts AC only. Step-down transformer to handle 220 volts AC available at \$32.00 additional.

CAMERA PHOTOCOPIER  
LAND CAMERA AND STAND  
POLAROID, "COPYMAKER"Polaroid Corp.  
Cambridge 39, Mass.

The Polaroid Copymaker is essentially a stand, with self-contained lights, for holding the Model 95 camera in copying position. The stand folds to make a readily portable unit. Can be used to photograph small objects.

Exposure area	11" x 14" or smaller
Copy size	3" x 4"
<u>Basic Price</u>	
Model 95 camera	\$89.75
Copymaker	67.50

CAMERA PHOTOCOPIERS  
SEPARATE DEVELOPING  
AND FIXING  
REMINGTON RAND, "RECORD  
DEXIGRAPH" AND "COMMERCIAL  
BOOKHOLDER DEXIGRAPH"

Remington Rand  
315 Fourth Avenue  
New York 16, New York

Both cameras are designed for "point-of-use" operation; hence, they are portable and separate facilities for developing, fixing, washing, and drying are necessary. The essential difference between the two models is that one is designed for flat sheets only, and the other for flat sheets and books. Pre-cut paper is used.

Floor space	3' x 5'
Max. exposure area	14" x 18"
Max. copy size	9-3/4 x 14

Finished copy size may be 100, 90, 80, 70, 60, or 50 per cent of the original size.

Prices not available.

CAMERA PHOTOCOPIER  
SEPARATE DEVELOPING  
AND FIXING  
ROBERTSON, "TWINKLE"

Robertson Photo-Mechanix Inc.  
7440 Lawrence Avenue  
Chicago 21, Illinois



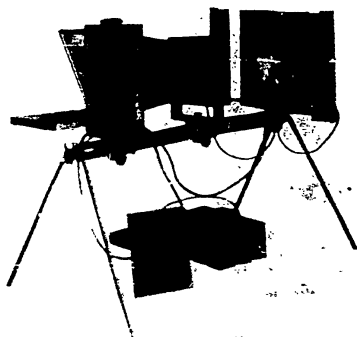
This is a compact, office type camera featuring auto-focusing and desk level copy loading.

<u>Basic Prices:</u>	Complete, including XeroX Plate Adapter or with a pressure film holder.	\$1095.00
<u>Accessories:</u>	Vacuum film holder including pump and motor.	\$125.00

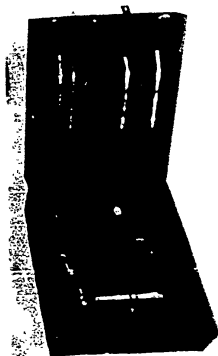
**CAMERA PHOTOCOPIER  
SEPARATE DEVELOPING  
AND FIXING  
RUTHERFORD, "TYPE CU  
PORTABLE"**

Rutherford Machinery Co.  
10th Street and 44th Avenue  
Long Island City 1, New York

Assembled



In Case



This camera was designed and manufactured specifically for the USAF, and can be packed and stored in a special wooden chest. It is primarily designed for photocopying; but by using a magenta screen and special lights it can be used for process work.

Max. copy size: 11" x 14"

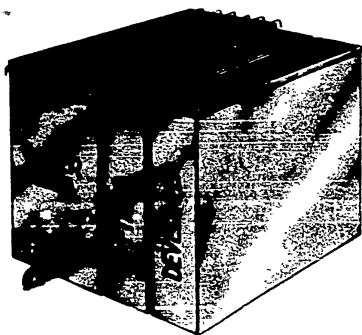
Basic price: Complete unit, including wooden chest \$5780.00

**WET PROCESSING EQUIPMENT**

This equipment is used in conjunction with the conventional, 4-step, processing of silver halide paper (developing, fixing, washing, and drying). The developing and fixing is usually done manually in trays or tanks. The washing and drying can be done by hand, or in special machines. A great variety of equipment and machines is available for the wet processing of film and paper. Only a very few of the items available for this purpose are listed here. These are included to show the general type of equipment available for use with camera photocopiers not having integral processing.

WET PROCESSING EQUIPMENT  
PROCESSING TANKS  
GENCO, "VERTICAL TANKS"

General Photo Products Co., Inc.  
General Photo Building  
Chatham, New Jersey



These stainless steel tanks are designed to save space and preserve the chemicals longer. The developer and fixer tanks have covers. Six stainless steel wire paper hangers hold the papers apart in the tanks.

Size of the 3-tank unit	12" x 15" x 15"
Max. copy size	14" x 17"
Basic price	\$42.50

WET PROCESSING EQUIPMENT  
MATTE PRINT DRYER  
K & E, "IDEAL"

Keuffel and Esser Company  
Hoboken  
New Jersey

This is a rotating drum type dryer recommended for any form of reproduction paper.

Floor Space: 39 or 59" x 47-1/2"

Height: 48-1/2"

<u>Basic Prices.</u>	Electric, 30" belt	\$395.00
	Gas, 30" belt	325.00
	Electric, 50" belt	620.00
	Gas, 50" belt	550.00



WET PROCESSING EQUIPMENT  
SILVER HALIDE PAPERS  
K & E, "PRESSURE PRINTER  
UNIT"

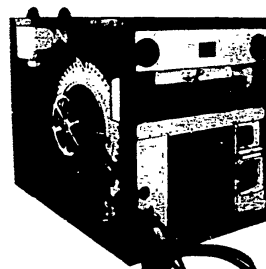
Keuffel and Esser Company  
Hoboken  
New Jersey

The "Pressure Printer Unit" is composed of a pressure contact printing box, electric dryer, squeegee and stand, and 3 enameled trays. The dryer uses a hot curved surface with a canvas cover to hold prints in position.

	<u>Max. Print Size</u>	<u>Basic Price</u>
Pressure Printer Unit	20" x 25"	\$420.75

WET PROCESSING EQUIPMENT  
SILVER HALIDE PAPERS AND FILM  
MORSE, TYPE A-13 FILM DRYER

Morse Instrument Co.  
Hudson, Ohio



Specification: MIL-D-4027 A

Purpose: Provides facilities for drying photographic papers and film 9-1/2" and 18-1/2" wide.

Capacity: 400-foot lengths.

Drying rate: Up to 8-1/2 feet per minute.

Design: Soft rubber 4-blade squeegee provided at entrance to dryer permits high quality drying. Auxiliary blower with controllable damper provides a variable fresh-air supply to the drying compartment.

Gravity type festoon assembly on wide-up assures even loading on film in dryer regardless of take-up spool size.

Positive drive feed rolls assure steady operation of entire drying system.

Electrical requirements: 110/220 volts AC single phase.

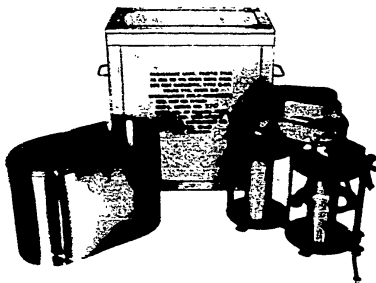
Over-all dimensions: Length, 49-7/8"  
Width, 35-3/4"  
Height, 42-7/8"

Case, carrying: Case design permits handling and shipping without additional crating.

Gov't. T. O. 10-25C-20, AN 10-25C-22

**WET PROCESSING EQUIPMENT  
SILVER HALIDE PAPER & FILM  
MORSE, TYPE B-5A, AERIAL  
FILM DEVELOPING OUTFIT**

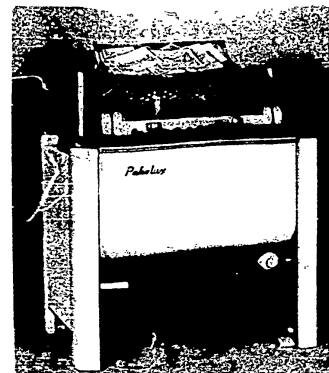
Morse Instrument Co.  
Hudson, Ohio



**Specification:** MIL-P-4252A  
**Application:** Developing, fixing, washing aerial film  
Processing photographic roll paper  
Processing oscillograph recording paper  
**Size of film processed:** Lengths, 5 to 250 feet  
Widths, 5-1/2 to 9-1/2 inches.  
**Component parts:** 1 drive unit assembly  
1 developing unit assembly (stainless steel)  
3 tanks (developer, fix, wash tank with channel)  
1 loading bracket  
**Electrical requirements:** 110 volts AC or DC  
**Drive units:** Automatic reversal  
Developing unit assembly (reel assembly)  
Positive locking mechanism  
Manual operation if required  
Adjustable flanges  
**Tanks:** Capacity: 5 gallon solutions, 9-1/2" film.  
Gov't. T. O. AN-10-25A-17 and AN-10-25A-18

**WET PROCESSING EQUIPMENT  
PRINT WASHER  
PAKO, "PAKOLUX"**

Pako Corp.  
1010 Lyndale Ave. No.  
Minneapolis 11, Minn.

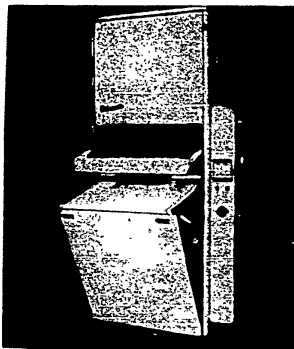


The Pakolux rotating drum type washer employs directed water jets and air injection to keep the prints from matting during rotation.

**Capacity:** 150-8" x 10" prints or equivalent area  
**Floor space:** 23" x 36"  
**Water consumption:** 4 gallons per minute  
**Current consumption:** 175 watts per hour  
**Basic price:** Pakolux print washer .. \$290.00

**WET PROCESSING EQUIPMENT  
MATTE PRINT DRYER  
PAKO, "PAKOMATTE"**

Pako Corp.  
1010 Lyndale Ave. No.  
Minneapolis 11, Minn.



The "Pakomatte" is an upright, drumless type dryer employing an endless belt and a heating chamber to do the drying. Features a folding feed table.

**Print capacity:** 270-3" x 10" double weight matte prints per hour

**Drying time:** 10 minutes

**Print sizes:** Up to 26" wide

**Floor space:** Open, 35" x 39"

**Height:** 7' 7"

**Max. power consumption:** 3.2 kw per hour

**Basic price:** Pakomatte dryer \$767.00

**WET PROCESSING EQUIPMENT  
MISCELLANEOUS AND  
DARKROOM ACCESSORIES**

Photostat Corp.  
303 State Street  
Rochester 14, New York

Miscellaneous accessories

Photostat 20" all metal trimmer	\$135.00
Photostat one cell syphon print washer	190.00
Photostat two cell syphon print washer	295.00
Motor operated elevating mechanism	320.00

Prices for the following accessories will be furnished upon request

Dryers

Photoflood lamps  
Film processing machines  
Chemical mixers and tanks  
Punches  
Adapter racks  
Circular slide rules  
Mercury vapor lamps  
Tubes for lighting outfits  
Paper cutters

Accessories for darkroom processing

(These accessories permit the use of either positive or negative grades of paper in standard apparatus equipped with conveyor or shallow dark box and the processing of either grade in the darkroom.)

Circulating hot and cold temperature control	\$420.00
33" darkroom tank* (holds one No. 4 tray)	140.00
52" darkroom tank* (three No. 2 or two No. 4 trays)	230.00
82" darkroom tank* (one No. 2 and two No. 4 trays)	250.00
No. 2 tray (23" x 17" x 4") for hypo, each	15.00
No. 4 tray (31" x 21" x 4") for hypo, each	17.50
Safe lamp for darkroom tray, No. 1 type	5.75

20" x 30" x 4" stainless steel darkroom tray with or without hose connection for circulating temperature control \$44.00

\*Darkroom tanks do not include trays

4  
5

#### OPTICAL COPYING PROJECTION PAPERS

These papers are prepared especially for printing with the aid of a lens, such as is done in a photocopy camera, an enlarger, or in a process camera. They are coated with high speed, high contrast emulsions, usually of the Chlorobromide type, and must be used in connection with a darkroom. Each supplier has a selection of weights available. In general, the standard weight is for negative photocopies, the lighter than standard weights for use as intermediates, and the heavier than standard weights for rough usage. Both negative and positive working papers of projection speed are available.

PROJECTION PAPERS  
ANSCO

Ansco  
Binghamton, New York

Brovira

This is a high-speed projection paper, suitable for a wide range of professional and amateur uses, and supplied in a range of contrast grades.

Weight and Surface Combination

Single weight, glossy  
Double weight, glossy  
Double weight, Kashmir  
Single weight, smooth  
Double weight, smooth

Jet

This is a high speed, with a neutral black image tone, for press, commercial, and industrial usage.

Weight and Surface Combinations

Single weight, glossy  
Double weight, Kashmir  
Double weight, smooth

PROJECTION PAPERS  
DU PONT

E. I. du Pont de Nemours and Company, Inc.  
Photo Products Department  
Wilmington 98, Delaware

Photo-Writ

For use in photocopy machines, very high speed, high contrast, orthochromatic, available in rolls and cut sheets.

Weights and Surface Combinations

Light weight document, semi-matte  
Standard weight document, semi-matte  
Standard weight document, luster  
Standard weight document, semi-gloss  
Single weight, semi-gloss  
Extra thin ledger, semi-matte

Copytone

For continuous tone or line copy, projection speed, variable contrast, orthochromatic available in rolls only.

Weight and Surface Combinations

Single weight, semi-matte  
Single weight, glossy

PROJECTION PAPER  
KODAK

Eastman Kodak Company  
Graphic Reproduction Division  
Rochester 4, New York

Kodagraph Projection Papers

These papers have high speed and high contrast, and are designed for use in enlargers, process cameras, and specialized microfilm printing apparatus. Available in two stock weights: standard and extra thin. Supplied in cut sheets or rolls.

Kodagraph Fast Projection Paper

For low-visibility darkroom use, processes a wide color sensitivity and high contrast.

Kodagraph Projection Paper

For high-visibility darkroom use. For most projection printing, including microfilm enlargement.

Kodagraph Projection Positive

For darkroom use, produces positive copy. Special developer is necessary. Available in standard and extra-thin weights in cut sheets and rolls.

PROJECTION PAPERS  
HALOID

The Haloid Company  
Rochester 3, New York

Haloid Record Papers

For use in photocopy machines.

Grade A, regular and fast speeds, light weight

Grade B, regular and fast speeds, standard weight

Lustre, regular and fast speeds, standard weight, lustre surface

K-41, regular speed, orthochromatic

HB-28, regular speed, standard weight, on 100% rag ledger stock

Duplex HH, regular speed, medium weight, coated on both sides, on 100% rag ledger stock

Halobrome

This is an enlarging paper for commercial, photofinishing and amateur use.

Weights and Surface Combinations

Single weight, glossy

Double weight, glossy

Single weight, semi-matte

Double weight, semi-matte

Double weight, lustre

PROJECTION PAPERS  
REMINGTON RAND

Remington Rand Inc.  
315 Fourth Avenue  
New York 10, N. Y.

Dexigraph Papers

These are projection speed, orthochromatic papers made specifically for use in photocopy machines. Supplied usually in roll form.

For General Use

Standard - a medium contrast paper for negatives and positives

Featherweight - a medium contrast paper for positives and negatives

Thin - a medium contrast paper for negatives and positives

Card Stock - a good contrast paper for filing and signature cards

For Recording Applications

Single Weight - has excellent contrast, and a medium hard finish

Duplex Standard - has good contrast, is sensitized on both sides

Linen Ledger Paper for Long-Life Records

Permanent Record - has good contrast and is single weight

Duplex Permanent Record - has good contrast and is sensitized on both sides

For Industrial Applications

Commercial Arts - is medium fast, has high contrast and high gloss

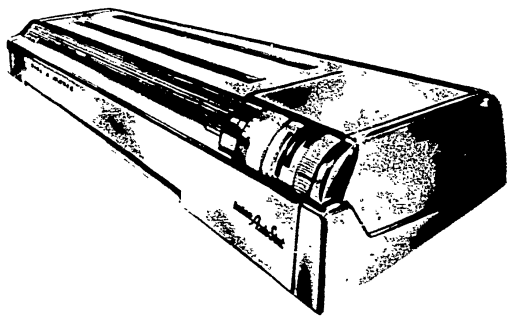
Industrial Projection - is a thin weight paper for enlarging from microfilm.

CONTACT COPYING  
EXPOSURE-DEVELOPER UNITS

These are dual machines, designed for space saving and simplicity of operation, by which the exposing and the developing steps are done in a single unit. The usual machine employs the silver transfer process and either rotary exposing and developing, or flat bed exposing and rotary developing. A single negative and a single positive copy are made with the silver transfer process. Another common type of exposure-developer unit employs the gelatine transfer process and flat bed exposing and dry developing. A single negative matrix copy is made and up to 5 positive copies can be made from it. A recently marketed unit employs the stabilization process and rotary exposing and rotary developing. A single positive copy is made with this unit.

ROTARY EXPOSURE-DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
APECO "DIAL-A-MATIC"  
"AUTO-STAT"

American Photocopy Equipment Company  
1920 West Petersen Avenue  
Chicago 26, Illinois



	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Exposure-Developer Unit	10" x 21"	14" x any length	\$395.00

Papers: Regular weight, featherweight, duplex, transparent, and card stock papers are available from manufacturer.

FLAT BED EXPOSURE AND  
ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
APECO "PRIVATE-EYE"  
"AUTO-STAT"

American Photocopy Equipment Company  
1920 West Petersen Avenue  
Chicago 26, Illinois

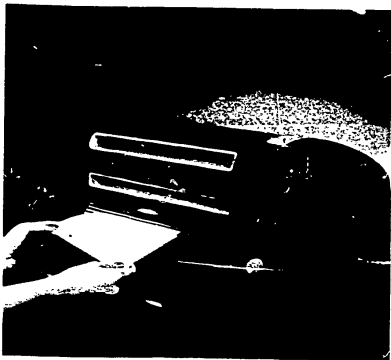
	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Exposure-Developer Unit	11" x 17"	8-1/2" x 11"	\$237.50

Papers: Regular weight, featherweight, duplex, transparent, and card stock papers are available from manufacturer.



ROTARY EXPOSURE-DEVELOPER  
UNITS  
SILVER TRANSFER PROCESS  
COPEASE, "DUPLEX"

Copease Corporation  
70 Fifth Avenue  
New York 11, New York



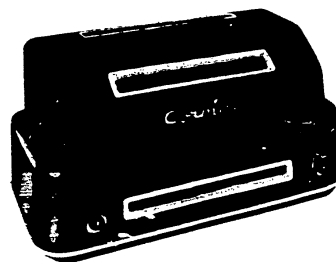
	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Exposure-Developer Unit	10" x 27-1/2"	14" x any length	\$434.00

Accessories: Paper Dispenser, 8-1/2" x 11" . . . . \$24.95  
Dupli-Cabinet, 24" deep with legs . . . . 94.50  
Stacking Racks, 12 sections . . . . 16.50

Papers: Copyrapid transfer paper is available from manufacturer in 5 types:  
one sided, air mail, card stock, transparent, and duplex

ROTARY EXPOSURE-DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
CORMAC, "COMPACT", "SENIOR",  
AND "CORONET"

Cormac Industries, Inc.  
80 Fifth Avenue  
New York 11, New York



	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Compact</u>	10" x 18"	9" x any length	\$359.00
<u>Senior</u>	10" x 24"	14" x any length	419.00
<u>Coronet</u>	10" x 25-1/2"	19" x any length	479.00

Papers: Transfer papers of the following types are available from the manufacturer: air-mail thin, regular weight, single sided, double sided, transparent, and opaque card stock.

FLAT BED EXPOSURE AND  
ROTARY DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
CORMAC, "CORVETTE" AND "SCOUT"

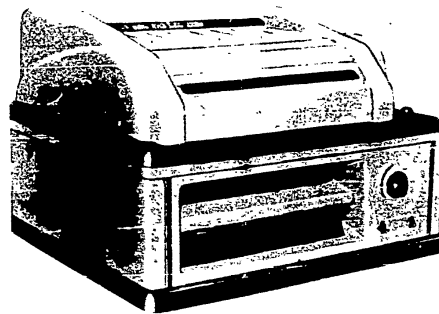
Cormac Industries Inc.  
80 Fifth Avenue  
New York 11, New York

	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Corvette (Economy model)	10" x 23-1/2"	8-1/2" x 14-1/2"	\$189.00
Scout	10" x 23-1/2"	8-1/2" x 14-1/2"	249.00

Papers: Transfer papers of the following types are available from the manufacturer:  
air-mail thin, regular weight, single sided, double sided, transparent, and  
opaque card stock.

ROTARY EXPOSURE-DEVELOPER  
UNIT  
STABILIZATION PROCESS  
DUOPHOTO, "DUOMATIC"

Duophoto Corp.  
236 Fifth Avenue  
New York 1, N. Y.



	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Duomatic Unit	18" x 25"	14" x any length	\$645.00

Papers: Duopositive papers are available from manufacturer in the following types:  
55, 85, and 105 gram weights and vellum.

Accessories: Liquid developer, 12 qt. case . . . \$12.00  
Liquid stabilizer, 12 qt. case . . . 12.00

FLAT BED EXPOSURE AND ROTARY  
DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
DUOPHOTO, "DUOPRINTER"

Duophoto Corp.  
236 Fifth Avenue  
New York 1, N. Y.

	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Duoprinter</u>	10-1/2" x 16"	9" x 14"	\$179.50

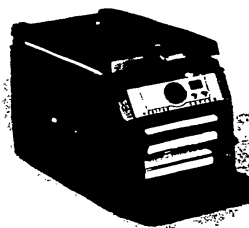
Accessories: Photopaper dispenser

8-1/2" x 11"	\$24.95
14" x 17"	33.95

Papers: Duoprint papers of the following types are available: regular, transparent, transparent heavy base, translucent, duplex, and card stock.

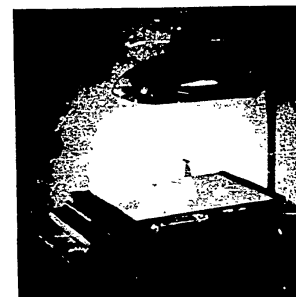
Eastman Kodak Co.  
Rochester 4, N. Y.

Legal Size



FLAT-BED EXPOSURE-HAND  
DEVELOPER UNITS  
GELATINE TRANSFER PROCESS  
KODAK, "VERIFAX" AND  
"SIGNET"

Signet



A sensitized negative matrix paper and a non-light sensitive positive paper are used. By repeating the activating and transferring steps, up to 5 copies can be made from the same original exposure. When an adapter and special etch solution are used, the process can be used to produce offset masters.

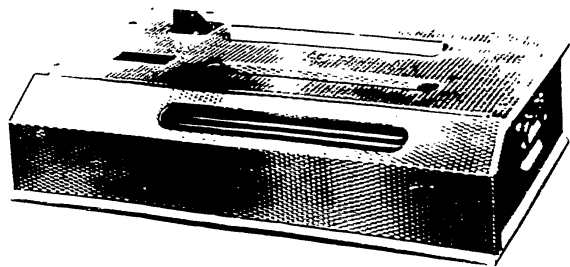
	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Verifax (Letter Size)	11-1/4 x 18-1/4"	8-1/2" x 11"	\$240.00
Verifax (Legal Size)	11-1/2" x 21"	8-1/2" x 14"	395.00
Signet	11-1/2" x 21"	8-1/2" x 14"	148.00

Papers: Verifax papers are available in the following types: matrix, regular copy, card stock copy, and translucent copy paper.

Accessories: Verifax offset adapter . . . \$60.00

ROTARY EXPOSURE-DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
GENCO, "BANTAM" AND "ALL-IN-ONE"

General Photo Products Co., Inc.  
General Photo Building  
Chatham, New Jersey

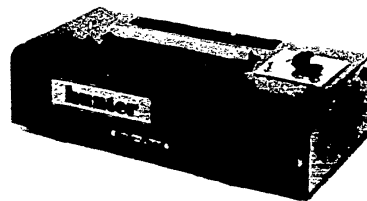


	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Bantam	10" x 18"	9" x any length	\$225.00
All-in-One	22" x 24"	12" x any length	375.00
<u>Accessories:</u>	Safe dispensing paper cabinet		
	8-1/2" x 11" . . . . .	\$14.50	
	9" x 12" . . . . .	16.50	

Papers: Exactfax papers of the following types are available from the manufacturer: regular, card stock, duplex, and translucent.

ROTARY EXPOSURE-DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
HUNTER, "HECCOKWIK" AND "CUB"

Hunter Photo Copyist Inc.  
566 Spencer Street  
Syracuse 4, New York



	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Dual Heccokwik	8" x 25-1/2"	14" x any length	\$435.00
	8" x 18"	9" x any length	195.00

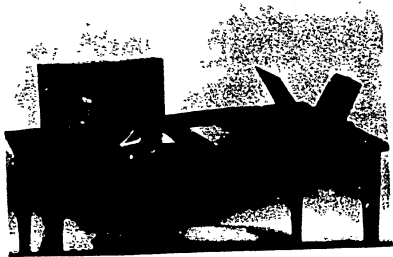
Accessories: Dupli-cabinet with legs

18" . . . . .	\$84.50
24" . . . . .	94.50

Paper: Heccokwik papers are available in the following types: regular, transparent, duplex, and card stock.

FLAT BED EXPOSURE AND  
ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
LUDWIG, "CONTOURA - CONSTAT"

F. G. Ludwig Inc.  
Old Saybrook,  
Connecticut



This is a special flat bed printer unit and a hand operated rotary developer unit designed to fit into a small briefcase. In copying from a book the unit is designed to be placed on top of the book rather than the book on the unit, as is usually the case.

	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Contoura			
Exposure Unit			
Research Model	8-1/2" x 10-1/2"	8" x 10"	\$46.00
Legal Model	9-1/2" x 14-1/2"	8-1/2" x 14"	68.50
Constat			
Developer Unit	6" x 12"	9-1/2" x any length	79.50
Complete Portable Exposure-Developer Units			
Research Model			\$171.35
Legal Model			198.85

Papers: Types of Constat paper sold by Ludwig are standard, transparent, film, and card.

ROTARY EXPOSURE-DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
PEERLESS, "DRI-STAT"

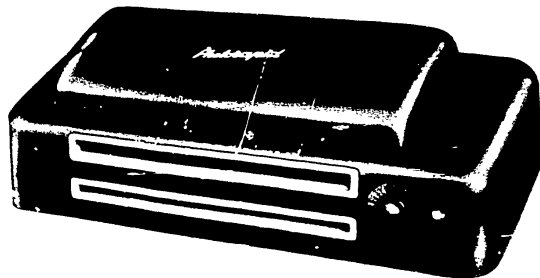
Peerless Photo Products, Inc.  
Shoreham,  
Long Island, N. Y.



	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Dri-Stat, DS-1A, with autofeed	10" x 24"	12" x any length	\$435.00
<u>Papers:</u>	The types of Dri-Stat papers sold by Peerless are: Bright-lite and standard negative, and standard, thin, Duplex and card stock positive.		
<u>Accessories:</u>			
Paper Dispenser			
8-1/2" x 11" ...			\$24.95
14" x 17" .....			33.95
Humidifier for the Paper Dispenser			
8-1/2" x 11" ...			\$ 2.00
14" x 17" .....			2.60

ROTARY EXPOSURE-DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
PHOTORAPID, "COMBINATION"

Photorapid of America, Inc.  
320 Broadway  
New York 7, N. Y.



	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>9" Model</u>	9" x 20"	9" x any length	\$350.00
<u>14" Model</u>	9" x 25"	9" x any length	449.00
<u>19" Model</u>	9" x 30"	9" x any length	599.00

Papers: Photorapid papers are available in the following types: one-sided, two-sided, transparent, and air mail.

Accessories: Copy Desk ... \$39.00

A "Helio Tray" is available for use with these machines for processing diazotype paper.

FLAT BED EXPOSURE AND  
ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
PHOTORAPID, "COMPAK"

Photorapid of America, Inc.  
320 Broadway  
New York 7, N. Y.

	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>8-1/2" Model</u>	12" x 16"	8-1/2 x 14"	\$359.00
<u>14" Model</u>	16" x 19"	14 x 17"	398.00

Papers: Photorapid papers are available in the following types: one sided, two sided, transparent, and air mail.

Accessories: A "Helio Tray" is available for processing diazo paper.

**FLAT-BED EXPOSURE-HAND  
DEVELOPER UNIT  
GELATINE TRANSFER PROCESS  
PHOTOSTAT, "INSTANT COPIER"**

Photostat Corp.  
303 State Street  
Rochester 14, N. Y.

This unit is very similar to the Kodak "Verifax" unit and is designed to use "Verifax" matrix and copy paper. Can be used to copy from books and to produce offset masters. Makes up to five copies from the same exposure.

	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Instant Copier (AC)	11-1/2" x 21"	8-1/2" x 14"	\$250.00
Instant Copier Bookholder Model	11-1/2" x 21"	8-1/2" x 14"	285.00

Papers: Verifax papers are available in the following types: matrix, regular copy, card stock copy, and translucent copy.

Accessories: Instant Copier Stand ... \$75.00

**EXPOSURE-DEVELOPER UNIT  
WET PROCESS  
REMINGTON RAND, "CONTACT"  
PRINTER'S OUTFIT**

Remington Rand  
315 Fourth Avenue  
New York 10, N. Y.

This outfit contains Portagraph flat bed exposure unit, three hard rubber trays, and a rotary print dryer.

<u>Portagraph Contact Printers</u>	<u>Max. Copy Size</u>
Outfit No. 1	9-1/2" x 15"
Outfit No. 2	20" x 24"

Prices not available.

ROTARY EXPOSURE-DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
REMINGTON RAND, "TRANSCOPY DUPLEX"

Remington Rand  
315 Fourth Avenue  
New York 10, N. Y.

Features an intermediate light control (Color-Stat) for copying colored documents.

<u>Transcopy Duplex</u>	<u>Desk Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
Model G7	16" x 22"	9" x any length	\$329.00
Model G8	16" x 28"	14-1/2" x any length	Price not available

Papers

Transcopy negative papers are available in the following types: slow speed, regular speed, color sensitive, and multicopy.

Transcopy positive papers are available in the following types: standard medium gloss, standard matte finish, duplex, card stock, high contrast, light weight, transparent, and colored.

CONTACT COPYING  
EXPOSURE UNITS

The flat bed exposure units are usually a rectangular light box with a translucent top surface. They are most useful for copying from bound volumes, or from heavy stock that cannot be handled by the rotary units. They are available in a wide range of sizes and special designs. Some have high intensity lights for exposing diazotype, blue-print, and offset plates and others have yellow lights claimed to be more effective for reflex copying. Others have built-in safelights. Some are equipped with timers. Some have special floating type covers for book copying. Others are designed to fit in a brief case. Some have vacuum lids and others have pressure lids. They can be used to make either a direct copy of a translucent original, or a reflex copy of an opaque original.

The rotary exposure units are especially valuable in that they allow large print to be exposed in a minimum of space. These units employ an endless belt and a rotating cylinder to carry the original and the sensitized paper around a fluorescent tube. The exposure time is varied by changing the rotational speed of the cylinder.



FLAT BED EXPOSURE UNITS  
SILVER HALIDE PAPERS  
COPEASE, MODELS A, B, AND  
"BOOKPRINTER"

Copease Corporation  
70 Fifth Avenue  
New York 11, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model A</u>	8-1/2" x 14"	\$119.50
<u>Model B</u>	14" x 17"	199.50
<u>Bookprinter</u>	11" x 17"	143.20

FLAT BED EXPOSURE UNITS  
SILVER HALIDE PAPERS  
CORMAC, MODELS 9 AND 14

Cormac Industries, Inc.  
80 Fifth Avenue  
New York 11, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model 9</u>	8-1/2" x 14"	\$114.40
<u>Model 14</u>	14" x 17"	137.60

FLAT BED EXPOSURE UNIT  
SILVER HALIDE PAPERS  
CORMAC, "CONTACTOR"

Cormac Industries, Inc.  
80 Fifth Avenue  
New York 11, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model 9"</u>	8-1/2" x 14"	\$143.00
<u>Model 14"</u>	14" x 17"	172.00

FLAT BED EXPOSURE UNITS  
SILVER HALIDE PAPERS  
GENCO, "VICTORY" MODELS

General Photo Products Co., Inc.  
General Photo Bldg.  
Chatham, N. J.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Victory 8-1/2"</u>	8-1/2" x 14"	\$ 75.00
<u>Victory 18"</u>	18" x 24"	125.00

FLAT BED EXPOSURE UNITS  
SILVER HALIDE PAPERS  
HUNTER, "PORTABLE PRINTER"  
AND "BOOKMASTER"

Hunter Photo Copyist, Inc.  
566 Spencer St.  
Syracuse 4, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Portable Printer</u>	9" x 14"	\$ 79.50
<u>Bookmaster</u>	9" x 16"	165.00

FLAT BED EXPOSURE UNIT  
SILVER HALIDE PAPERS  
LUDWIG, "CONTOURA"

F. G. Ludwig, Inc.  
Old Saybrook,  
Connecticut

This is a smaller than usual size unit designed to sit on the pages of a book.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Research Model</u>	8" x 10"	\$ 46.00
<u>Legal Model</u>	8-1/2" x 14"	68.50
<u>Magna Model</u>	14" x 18"	125.00

**FLAT BED EXPOSURE UNIT  
SILVER HALIDE FILM OR PAPER  
MORSE, TYPE A-17 CONTACT  
PRINTER**

Morse Instrument Co.  
Hudson, Ohio



**Specification:** MIL-P-446

**Applications:** General photographic printing  
Aerial mapping  
Intelligence work

**Reversible Sizes:** 9-1/2 x 18  
18 x 9-1/2

**Construction:** All metal

**Over-All Size - Compact - Easily Portable:** Length - 30"  
Width - 20"  
Height - 15"

**Light Source:** 61 argon lamps (printing light)  
4 viewing lights  
6 safe lights

**Light Control for Dodging:** Individual light control switches  
4 group circuits for diagrams

**Automatic Manual Operation:** Push button switch actuated by handle, controls  
entire circuit

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**FLAT BED EXPOSURE UNIT  
SILVER HALIDE FILM OR PAPER  
MORSE, TYPE A-17 CONTACT  
PRINTER**

Morse Instrument Co.  
Hudson, Ohio

**Timer Operation:** Separate timer circuit, operates through timer automatically  
by actuating platen switch.

**Platen:** Air filled rubber platen.

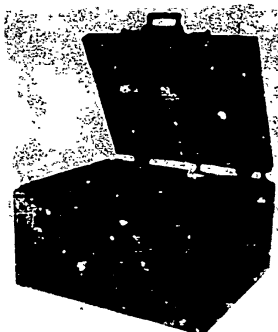
**Electrical Requirements:** 110 volts AC

Gov t. T. O. No. 1C-25E-42 and 1C-25E-43

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**FLAT BED EXPOSURE UNIT  
SILVER HALIDE FILM OR PAPER  
MORSE, TYPE A-18 CONTACT  
PRINTER**

Morse Instrument Co.  
Hudson, Ohio



Specification: MIL-P-4044

Application: General photographic contact printing  
Aerial mapping  
Intelligence Work

Printing Area: 24 x 30 inches  
Roll film 24 inches wide x 100 or 250 feet long  
Roll film brackets supplied with printer

Light Source: 176 argon lamps (printing lamps)  
6 safe lamps  
6 viewing lamps

Light Control for Dodging: 5 group circuits for diagrams  
Groups of 3 argon lamps are controlled by one switch

Manual Operation: Single switch controls all printing lights for manual control

Timer Operation: Built-in interval timer with range from 0 to 60 seconds  
Timing cycle started by vacuum relay

**FLAT BED EXPOSURE UNIT  
SILVER HALIDE FILM OR PAPER  
MORSE, TYPE A-18 CONTACT  
PRINTER**

Morse Instrument Co.  
Hudson, Ohio

Vacuum System: The vacuum system automatically builds up the required vacuum, actuates printing lights, releases vacuum at end of printing cycle. Complete printing cycle 15 seconds.

Electrical Requirements: 110 volts, 60 cycles, AC.

Gov't. T. O. No. 10-25E-24, 10-25E-25, and AN 10-75E-26

ROTARY EXPOSURE UNIT  
SILVER HALIDE PAPERS  
PEERLESS, MODEL 42-A

Peerless Photo Products, Inc.  
Shoreham,  
Longham Island, N. Y.

This rotary unit may be equipped with either high or low intensity fluorescent lights.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model 42-A</u>	42" x any length	\$995.00

FLAT BED EXPOSURE UNIT  
SILVER HALIDE PAPERS  
PEERLESS, "DRI-STAT"

Peerless Photo Products, Inc.  
Shoreham  
Long Island, N. Y.

This printer uses a pneumatic cushion and can be equipped with either high or low intensity lights.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
Model F-1 Flat-Bed Printer	15" x 19"	\$156.00

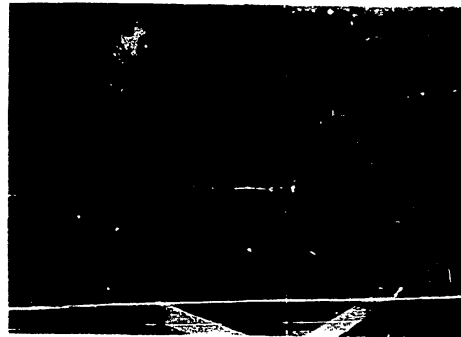
**FLAT-BED EXPOSURE UNIT  
SILVER HALIDE PAPERS  
PHOTORAPID, "PRINTER"**

Photorapid of America, Inc.  
320 Broadway  
New York 7, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>8-1/2" Model</u>	8-1/2" x 14"	\$149.00
<u>14" Model</u>	14" x 17"	171.00

**FLAT-BED EXPOSURE UNIT  
SILVER HALIDE PAPERS  
PEERLESS, "MAGIC HAND"**

Peerless Photo Products, Inc.  
Shoreham  
Long Island, N. Y.



The Peerless "Magic Hand" vacuum blanket printer features 3-way lighting. The first way gives yellow light for reflex printing. The second gives white light for making positives from negatives. The third way gives ultra-violet light for very dense negatives.

<u>Model</u>	<u>Floor Space</u>	<u>Max. Copy Size</u>	<u>Basic Price</u>
MH1	56" x 57"	38" x 50"	\$1255.00
MH2	66" x 80"	44" x 74"	2475.00
MH3	66" x 104"	50" x 98"	3760.00

FLAT BED EXPOSURE UNIT  
SILVER HALIDE PAPERS  
REMINGTON RAND, "PORTAGRAPH"

Remington Rand  
315 Fourth Avenue  
New York 10, New York

This is a portable box-type exposure unit with pressure platen lid and a light-tight storage compartment. It is equipped with a set of red and a set of amber incandescent frosted bulbs.

Portagraph  
Contact Printer

Model G. 10.3

Model G. 11.3

Prices not available.

Max. Copy Size

9-1/2" x 15"

20" x 24"

ROTARY EXPOSURE UNIT  
SILVER HALIDE PAPERS  
REMINGTON RAND, "ROTOFLOW"

Remington Rand  
315 Fourth Avenue  
New York 10, New York

This unit was designed specifically for office use with Remington Rand Transcopy transfer process equipment.

ROTOFLOW Portagraph Printer

Price not available.

Max. Copy Size

14" x any length



CONTACT COPYING  
ROTARY DEVELOPER UNITS

Rotary Developer Units usually employ the silver transfer process, and in most cases the manufacturer uses the same design for his rotary developer unit and for the developer part of his combination exposure-developer unit. They are designed specifically for use in combination with a flat bed exposure unit, when copying from bound volumes.

The "Duomatic" and "Photact" units, unlike most of the others, develop by the two fluid stabilization process. This process produces stabilized copies which are less durable than those produced by the silver transfer process.

ROTARY DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
COPEASE MODELS A & B

Copease Corp.  
70 Fifth Avenue  
New York 11, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model A</u>	8-1/2" x any length	\$212.50
<u>Model B</u>	14" x any length	249.50

ROTARY DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
CORMAC, MODEL NOS. 9 AND 14

Cormac Industries, Inc.  
80 Fifth Avenue  
New York 11, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Developer Unit Model 9</u>	8-1/2" x any length	\$196.00
<u>Developer Unit Model 14</u>	14" x any length	227.00

ROTARY DEVELOPER UNIT  
STABILIZATION PROCESS  
DUOPHOTO, "DUOMATIC"

Duophoto Corp.  
236 Fifth Avenue  
New York 1, N. Y.

Rotary developer unit designed for use with silver halide stabilization processing. Two fluids are used.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Duomatic Processor</u>	14" x any length	\$345.00

ROTARY DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
"GENCO", HAND AND ELECTRIC MODELS

General Photo Products Co., Inc.  
General Photo Bldg.  
Chatham, New Jersey

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Hand Operated 12"</u>	12" x any length	\$ 85.00
<u>Hand Operated 18"</u>	18" x any length	150.00
<u>Electric 12"</u>	12" x any length	150.00
<u>Electric 18"</u>	18" x any length	225.00

ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
LUDWIG, "CONSTAT"

F. G. Ludwig, Inc.  
Old Saybrook  
Connecticut

This unit is hand operated and is designed especially for carrying in a briefcase.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Standard</u>	8-1/4" x any length	\$ 79.50
<u>Magna</u>	14" x any length	134.50

ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
PEERLESS, "DRI-STAT  
PROCESSOR"

Peerless Photo Products, Inc.  
Shoreham,  
Long Island, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model DP1-B</u>	14" x any length	\$245.00
<u>Model DP1-C</u>	18" x any length	295.00

ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
PHOTORAPID, "DEVELOPER"

Photorapid of America, Inc.  
320 Broadway  
New York 7, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>8-1/2" Model</u>	8-1/2" x any length	\$200.00
<u>14" Model</u>	14" x any length	227.00

ROTARY DEVELOPER UNITS  
SILVER TRANSFER PROCESS  
HUNTER, "HECCOKWIK 14"  
AND 18"

Hunter Photo Copyist, Inc.  
566 Spencer Street  
Syracuse 4, N. Y.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>HeccoKwik 14"</u>	14" x any length	\$245.00
<u>HeccoKwik 18"</u>	18" x any length	295.00

ROTARY DEVELOPER UNIT  
STABILIZATION PROCESS  
K. & E., "PHOTACT"

Keuffel and Esser Co.  
Hoboken, N. J.

This unit is designed for developing and fixing direct positive contact paper, but can also be used on conventional negative contact paper.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Photact Developing and Fixing Machine</u>	14" x any length	\$375.00
<u>Accessories:</u> Photact Stabilizer, 1 qt. bottle		1.25

ROTARY DEVELOPER UNIT  
SILVER TRANSFER PROCESS  
REMINGTON RAND, "TRANSCOPY"

Remington Rand  
315 Fourth Avenue  
New York 10, New York

These units are equipped with three slot openings for processing either the "Simplex" or "Duplex" papers.

<u>Transcopy Processor</u>	<u>Max. Copy Size</u>
Model G5	8" x any length
Model G6	14-1/2" x any length
Model G14	26" x any length

Prices not available.

CONTACT COPYING  
CONTACT PAPERS

These papers are prepared especially for making contact copies--without the use of a camera. They are usually coated with high contrast orthochromatic emulsions suitable for copying line drawings, documents, printed pages, typewritten pages, or halftone illustrations and they are usually supplied in a variety of stock weights, and grades of contrast. Most of them are made for use in either a high or low visibility darkroom. Each supplier classifies his paper on a more or less individual basis according to the major purpose for which it is manufactured.

CONTACT PAPERS  
ANSCO

AnSCO  
Binghamton, New York

Convira

This is a general purpose contact speed paper. Available in a range of contrast grades.

Weight and Surface Combinations

Single weight, glossy  
Double weight, glossy  
Double weight, smooth

Lupex

This is a warm-toned contact speed paper for portrait, commercial and industrial use.

Weight and Surface Combinations

Single weight, glossy  
Double weight, Kashmir  
Double weight, smooth  
Double weight, silk

Reflex

This is a special purpose paper designed for reflex or print-through contact copying.

Reflex Regular

On document stock for copying printed pages

Reflex Type C

On document stock for copying engineering drawings

CONTACT PAPERS  
DU PONT

E. I. du Pont de Nemours and Company, Inc.  
Photo Products Department  
Wilmington 98, Delaware

Reflex

For reflex or print-through methods, contact speed, high contrast, orthochromatic, available in cut sheets and rolls.

Weight and Surface Combinations

Light weight document, semi-matte  
Standard weight document, luster

Cap Solar

For printing of line copy such as in chart work and map making, contact speed, medium high contrast, noncolor sensitized, available in cut sheets and rolls.

Weight and Surface Combinations

Light weight document, matte  
Standard weight document, matte



CONTACT PAPERS  
EASTMAN KODAKEastman Kodak Company  
Graphic Reproduction Division  
Rochester 4, New YorkKodagraph Contact Papers

For reflex or print-through methods, contact speed, high contrast, orthochromatic, available in cut sheets and rolls.

Translucent, used as an intermediate, or as a duplicate tracing.

Fine-Line, thin stock, glossy, for poor quality originals, fine detail, and printed halftones.

Standard and Extra Thin, smooth surface, for general contact photocopying, can be folded.

Kodagraph Repro-Negative

This is a room-light-handling paper for reproducing blueprints, brownprints, or negative-type originals. It is exposed in a blueprint machine, direct process machine or vacuum frame. To increase exposure time, a "Kodagraph Sheetting, Yellow" filter is sometimes used. The paper has a medium high contrast and is recommended for either good or poor quality originals. It is available in cut sheets and rolls.

Kodolith Ortho Paper

It is intended primarily for halftone and line reproduction for lithographic and offset application, however, it is also useful for other applications where a maximum of contrast, density, and dimensional stability is needed. It can be exposed in a process camera or a contact printer. Available in cut sheets in two weights; standard and thin.

Kodagraph Autopositive Paper

This is a room-light-handling, direct positive paper, for use in blueprint machines, direct process machines, or vacuum frames. It requires a high intensity light source, and in every case an auxiliary filter of "Kodagraph Sheetting, Yellow or Orange" is necessary. It is processed with standard photographic solutions.

Autopositive Paper Translucent

Is recommended for use as an intermediate, and for rough handling or severe punishment.

Autopositive Paper Extra-Thin

Is recommended for use as an intermediate and for reflex-printing of very poor originals on opaque stock.

CONTACT PAPERS  
HALOIDHaloid Company  
Rochester 3, N. Y.Industro

This is a contact speed paper with a warm tone and wide latitude for portrait and commercial use.

Weight and Surface Combinations

Single weight, glossy  
Double weight, glossy  
Single weight, semi-matte  
Double weight, semi-matte  
Double weight, lustré

Halo

This is a contact speed paper with a blue black tone for commercial or photo-finisher use.

Weight and Surface Combinations

Single weight, glossy  
Double weight, glossy

# CONTACT PAPERS PEERLESS

Peerless Photo Products, Inc.  
Shoreham  
Long Island, N. Y.

## Truflex Papers

These are contact speed papers for use with standard illumination in rotary and flat-bed printers. They are available in cut sheet and roll form.

003 Vellum - for making positive copies of drawings, plans, maps, etc.

003 Matte - for making positives or negatives for intermediate use of air mailing.

004 Glossy - for making negatives from poor or weak originals.

004 Matte - is an all-purpose paper for reflex or print-through making of positives and negatives.

005 Matte - is similar to 004 matte but slightly thicker and more opaque.

006 Glossy - for line, continuous tone, and pictorial purposes.

007 Matte - is coated both sides for making double sided positives.

10 Point Card - for index cards, etc., where a stiff, heavy, durable print is needed.

# PROJECTION PAPERS PHOTOSTAT

Photostat Corporation  
303 State Street  
Rochester 14, N. Y.

## Photostat Photocopy Papers

These are a projection speed orthochromatic papers made specifically for use in photocopy machines. Supplied in roll form only.

<u>Grade</u>	<u>Characteristics</u>
A	Light weight, matte
C	Card weight, matte
E	Standard weight, semi-matte
G	Heavy weight, glossy
H	Linen record, matte
HH	Linen record, matte, duplex
J	Standard weight, matte
JJ	Standard weight, matte, duplex
I	Standard weight, matte, for tone reproduction, non-orthochromatic
P	Standard weight, matte, panchromatic
R	Standard weight, matte
R positive	Standard weight, matte, positive working
T	Standard weight, semi-matte or smooth, high density
W	Extra light weight, matte
W positive	Extra light weight, matte, positive working.

**CONTACT PAPERS  
REMINGTON RAND**

Remington Rand, Inc.  
315 Fourth Avenue  
New York 10, New York

Portagraph Papers

All Portagraph papers are contact speed, have semi-matte surfaces, and can be folded without cracking.

For Negatives and Positives

Slow Speed Standard - for use with adverse lighting.

Slow Speed Portolith - for engineering drawings and offset use.

Normal Speed Standard - for general use.

Normal Speed Featherweight - for copies on lighter paper.

Fast Speed Economy - for low light intensity uses.

Fast Speed Panchromatic - for colored originals.

For Positives (indirect)

Duplex - coated both sides.

Card Stock - medium card weight.

Speed Paper - super thin, 100% rag.

Transparent Tracing.

Waterproof transparent tracing.

For Direct Positives

Portagraph Positive - principally used for one-sided translucent or transparent originals; can also be used for reflex copying of opaque originals.

**CONTACT FILM  
KODAK**

Eastman Kodak Co.  
Graphic Reproduction Division  
Rochester 4, N. Y.

Kodagraph Autopositive Film

This is a room-light-handling, direct positive film, requiring high intensity exposure in blueprint machines, direct process machines, or vacuum frames. It is recommended because it has a low-shrink base, is tear resistant, and is highly translucent. It can be read from either side without the use of an illuminator. It is available in standard or thin base in cut sheets, or rolls.

Kodalith Film

It is intended primarily for halftone and line reproduction for lithographic use, it is also useful for other applications where maximum of contrast, density, and dimensional stability are needed. It can be exposed in a process camera or a contact printer.

Kodalith Ortho Film Type 2

For standard high quality work, has good dimensional stability, and is flat-lying.

Kodalith Ortho Thin Base Film, Type 2

Has a special low-shrink base, useful for making lateral reversals of positives and negatives.

Kodalith Super Ortho Film

Has a new high contrast emulsion which permits greater compensation in development for overexposure and underexposure.

Kodalith Ortho PB Film

Has a polystyrene base for very high dimensional stability.

Kodalith Ortho Matte Film

Has a matte surface on both sides, that is particularly useful for making positive copies of maps.

CAMERA,  
MICROFILM  
FLATBED

Eastman Kodak Company  
Rochester, New York

Recordak Corporation  
New York, New York

Micro-File Machines

Models C-3, D, and E

Features common to all models:

Film unit consists of a 63mm Kodak Micro-File Ektar Lens with a fixed mechanical aperture of  $f/8$ ; maximum reduction with lens system is 30 to 1; film unit powered by built-in motor that operates the vacuum platen which holds the film flat during exposure, opens and closes the shutter, and advances the film after each exposure; film unit is actuated by a foot switch after the document has been located on the copy board; unit can be rotated 360° for photographing crosswise or lengthwise on the film; unit has a finder light which projects frame image on to the copyboard showing the exact limits of the area that can be recorded at any specified reduction ratio on perforated or unperforated, 16 and 35mm film; the light beam is projected through the taking lens eliminating parallax.

Film coverage is fixed at 1-1/4" across on 35mm film; capable of reproducing documents up to 37-1/2" wide at a 30 to 1 reduction; image lengthwise can be masked to any size between 3/8" and 1-3/4" by manual adjustment permitting document sizes up to 57-1/2" long at a 30 to 1 reduction; length of film exposed is adjusted to document dimensions by moving masks in the film unit; the masks are synchronized with the film advance mechanism so that the right amount of film is advanced for each exposure.

Control unit permits adjustment of illumination to the correct level for exposure as indicated by a photoelectric exposure meter; exposure time is constant and the lens aperture fixed, so the illumination is the only variable.

Warning signals are provided for improper functioning of the take-up spool and film threading, an empty film supply spool, and improper operation of the platen for holding the film flat during exposure; light tight doors permit removal of short lengths of exposed film without exposing the balance of the roll; footage meter indicating amount of unexposed film; counter to record the number of exposures.

Sixteen millimeter conversion set; 35mm camera can be converted 16mm use; this may be desirable when a large number of documents lettersize or smaller are to be recorded; parts of the set are inserted in the film unit which is then operated with 16mm film, perforated or unperforated; price, \$75.00.

CAMERA,  
MICROFILM  
FLATBED

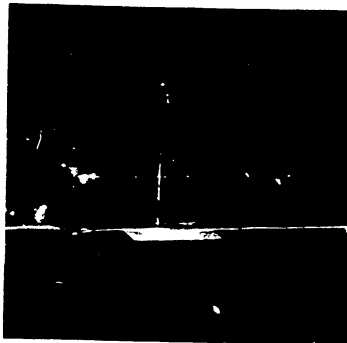
Eastman Kodak Company  
Rochester, New York

Recordak Corporation  
New York, New York

Micro-File Machines

Models C-3, D, and E

Features of individual models:



Model C-3

Designed for microfilming material that may be large and bulky; fixed copyboard permits holding and positioning of records up to 37-1/2" x 52-1/2" in size; records at reductions from 12 to 30 times; focusing is automatic; this machine is a floor model and usually located in a fixed position; height 10' 4", width 8", depth 4' 1-1/2"; weight complete, 459 lbs. Price: \$3725.00.

CAMERA,  
MICROFILM  
FLATBED

Eastman Kodak Company  
Rochester, New York

Recordak Corporation  
New York, New York

Micro-File Machines

Models C-3, D, and E

Features of individual models.



Model E

This is a portable unit packed in two carrying cases so that it can be taken anywhere and assembled for microfilming records at the point of storage, designed to photograph documents up to 18" x 24" at reductions of 10 to 18 times; can be set up with lens directed horizontally at document mounted on a vertical wall or board for larger drawings up to 37" x 52" at reduction of 18 to 30 times.

Model E is different from Models D and C-3 in operational techniques and construction. The film unit, photographic flood lamps and the copyboard are mounted on a tripod. The copyboard is the cover of one of the carrying cases. Tripod legs are adjustable and are calibrated in degrees of reduction to correspond with markings on the lens mount. Focusing is not automatic in this case and the lens must be set at the marking indicated by the markings on the tripod legs for the copy plane to be in correct focus. When the film unit is used in a horizontal position, a steel tape provided in

CAMERA,  
MICROFILM  
FLATBED

Eastman Kodak Company  
Rochester, New York

Recordak Corporation  
New York, New York

Micro-File Machines

Models C-3, D, and E

Features of individual models

Model E (Continued)

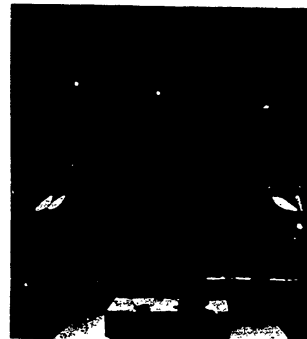
film unit, is drawn out until it touches the copy. The lens is then set at the reduction indicated on the tape.

Height 61", width 77", depth 27", weight of tripod case, 34-1/2 lbs, weight of control unit case, 58-1/4 lbs. Price: \$1960.00.

Note: Recordak equipment is also available by rental.

Graflex, Inc.  
Rochester, New York

Graflex Photorecord Microfilm Outfit



**CAMERA,  
MICROFILM  
FLATBED**

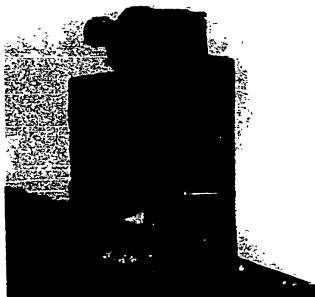
Graflex, Inc.  
Rochester, New York

**Graflex Photorecord Microfilm Outfit (Continued)**

A 35mm flatbed camera; fitted with a 75mm f/4.5 lens; shutter speed range provided is from 1/25 second to 1 full second, plus Time and Bulb; holds 100 feet of 35mm double perforated film, permitting 800 exposures 1" x 1-5/8" or 1600 exposures 1" x 3/4"; film advanced correct distance and shutter operated by air pressure generated by the foot pump supplied or by an auxiliary source such as an air compressor; camera support arm slides on a 2" column, made in 3 sections which disassemble for packing into the case; camera can be moved up and down to adjust for any desired reduction ratio; illumination provided by four 150-watt 1000-hour Reflectorfloods on adjustable arms; ground glass panel permits direct visual focusing, or projection of a light beam with the focusing lamphouse through the lens which is then focused to bring the grain of the ground glass into focus on the copy to be photographed - the beam of light also outlines the area which will be recorded on the film; base serves as a carrying case into which all parts except the four Reflectorfloods can be packed; separate carrying case for Reflectorfloods; copyboard measures 17" by 22" - larger areas can be reproduced - camera can be turned 180° on the column so that it projects over the edge of the table and the copy may be placed on a stool or on the floor; counter indicates film consumption, dark slide permits removal of loaded magazines from camera.

Price: \$595.00

Microfilm Corporation  
New York, New York



**CAMERA,  
MICROFILM  
FLATBED**

Microfilm Corporation  
New York, New York

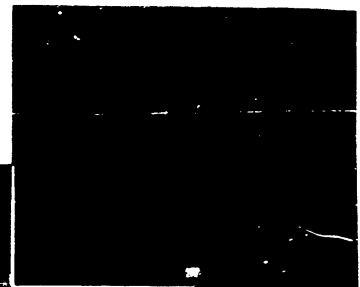
**The Microfilm C-R 35 35-mm Camera-Reader**

A flatbed 35-mm camera and reader combination; details of the reader are described in the equipment section on microreaders in the catalogue section of the companion manual entitled "The Presentation of Intelligence Data"; 50mm color corrected coated lens is pre-focused; records documents up to 11-1/4" x 14-1/2"; reduction of 11 to 1; counter records an index number on the film when picture is taken; two indexing slots provide room for additional indexing information; four 60-watt daylight type bulbs are used to allow for two stages of light control, normal light for practically all documents filmed and special light for very dark-colored copy or very soiled originals, uses 100-foot rolls of 35mm single frame nonperforated microfilm; warning light flashes when only 28 pictures remain on the roll; counting device indicates how many of the 1150 frames are left unused.

Price: \$750.00

Micro-Master, Inc.  
Kansas City, Missouri

**Micro-Master 105mm**



CAMERA,  
MICROFILM  
FLATBEDMicro-Master, Inc.  
Kansas City, Missouri

## Micro-Master 105mm (Continued)

A flatbed microfilm camera using 105mm roll film, the use of the camera and equipment is licensed to service organizations; magazines can be removed for processing a few frames; maximum reduction of 10 times; the system is used extensively in the restoration of drawings as well as a means for providing a film record of material, the 105mm frame is projected on a vertical copyboard and reproduced on photographic paper or cloth; this requires the use of a special 105mm projector as part of the equipment; the processed 105mm film is usually filed as single frames in protective jackets.

Photostat Corporation  
Rochester, New York

## "Micro 35" Microtronics



A 35mm camera accepting 100 feet of film in daylight loading spools; eight exposures to the foot of film with a frame size of 1-1/4" x 1-7/16" clear film between frames; has a fixed focus and reduction ratio of 16 times with entire frame coverage for 20" x 23" original documents; the baseboard accommodates copy up to 18" x 24".

CAMERA,  
MICROFILM  
FLATBEDPhotostat Corporation  
Rochester, New York

## "Micro 35" Microtronics (Continued)

Has detachable magazine with a knife attachment; the knife cuts the exposed film from the remaining roll automatically keeping the magazine light-proof; the magazine is removed enabling development of the exposed film without fogging any part of the film in the camera.

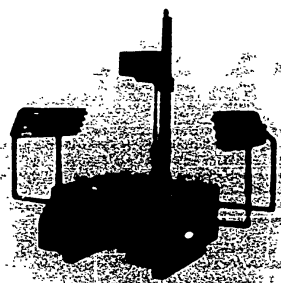
Fixed light intensity with light bulbs tilted and spaced to illuminate an 18" x 24" area evenly; unit can be disassembled in a matter of minutes and reassembled to line up the camera lens accurately over the copyboard since every part is pinned in position.

The camera has two switches, an off-and-on switch which controls the power to the camera and lights; a pushbutton which actuates the camera cycles; the complete cycle of the exposure and film advance is automatic under electronic direction through the use of solenoids, synchronous motors, relay and microswitches; a warning buzzer alarm indicates when the film supply is close to exhaustion, film pressure plate can be removed and a ground glass plate placed over the film aperture to actually view the subject and coverage as seen by the lens.

The following accessories are available; half frame attachment and advance; special frame apertures from 1-1/2" x 3/4" to 1-1/4" x 1-3/4"; a second prefocused reduction with raised platform for smaller sized copy; a 16mm attachment for using 16mm film; a variable light control.

Price: Microtronics 35mm Camera with copyboard and lamps	\$1555.00
Variable voltage control to vary light intensity	\$ 72.00
16mm Conversion Kit for 35mm Camera	\$ 68.00



CAMERA,  
MICROFILM  
FLATBEDPhotostat Corporation  
Rochester, New York70mm Microtronics with  
35mm Conversion Feature

A 70mm camera accepting 100 feet of film which delivers approximately 300 images with a frame size of 2-5/8" x 3-1/2"; reduction ratio can be varied from 4 to 14 times; full frame coverage is obtained from 10-1/2" x 14" original copy size at 4 reductions to 36-3/4" x 49-1/2" copy size at 14 reductions; copyboard easel accommodates copies up to 36" x 48"; focus is adjustable micrometer control, or set for 4 fixed prefocused positions within the 4 to 14 reduction range.

Lens is 4-1/2" process, coated and fully color corrected; camera head is completely electrically operated and controlled through the use of solenoids, synchronous motors, relay and microswitches; the complete cycle of the exposure and film advance is under electronic control; foot pedal and knee switch actuation is used; warning buzzer within the camera indicates when reloading is necessary; counter records exposures made; camera head is raised and lowered electrically; controls are on sloping panels to the right and to the left of the operator position just below the easel or copyboard.

Lighting intensity is obtained by a pair of Microtronics C-T Slim Line Fluorescent Lights; choice of white, green or blue tubes to match color of light to copy requirements; adjustable within 25% variation; Mazda lights optional; a four cell reflectometer is furnished as standard equipment to facilitate determining proper exposure.

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CAMERA,  
MICROFILM  
FLATBEDPhotostat Corporation  
Rochester, New York70mm Microtronics with  
35mm Conversion Feature (Continued)

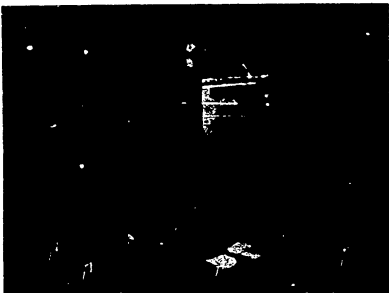
Camera can be adapted to 35mm film under two options; one uses the lens for 70mm microfilming, changing the aperture and spacing of the film; a special aperture with a reduced opening of 1-1/4" x 1-3/4" and a switch for both 35mm and 70mm film advance is furnished; coverage is 18" x 24" with a reduction of 4 to 14 times; conversion time by the operator is less than one minute without tools; the other is by using a second lens, lens barrel, and different film track; with a short focal length lens the entire table area of 36" x 48" can be covered; this increases the number of reductions possible; coverage is 38" x 50" with a reduction of 8 to 30 times; conversion time by the operator is about 5 minutes and can be done with a screw driver.

Camera is machined of steel and aluminum; upright column is ground and polished tubular steel, rigidly attached to the table; reversible copyboard easel is covered with heavy black linoleum on one side and white on the other; table is mahogany plywood.

Power is 110 volt 60 cycle AC only, 6 amp maximum at full load; height of column 9'5", of easel 2'6", width including lights 8'6", depth 4' 6-1/2".

Price: Microtronics 70mm Precision Microfilm Camera	\$4372.00
Option No. 1 Adapter for 35mm film (in camera)	
exposure area limited to 18" x 24"	\$ 297.00
Option No. 2 (Alternate) extra lens barrel assembly to	
increase exposure area using 35mm film to 36" x 48"	\$ 765.00
Glass Pressure Plate to hold copies flat on board	\$ 437.00

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CAMERA,  
MICROFILM  
FLATBEDRecordak Corporation  
New York, New York

Recordak Junior Microfilmer

A combination of a 16mm flatbed microfilming machine and film reader designed for use where the volume of work does not require the speed of faster automatic machines; available in four models offering three different ratios of reductions; Models JA and JC can photograph documents up to 9-1/2" x 14", one or both sides at a reduction ratio of 19 to 1; Model JC-1 photographs documents 11" x 14" at 24 to 1; Model JD uses half the width of 16mm film at 36 to 1, providing 8mm microfilming — images are recorded alternately on the left-hand and the right-hand portions of the film; all four models will photograph small bound volumes and stapled records up to a thickness of one inch without the necessity of unbinding them; two trip button controls require operator to use both hands, which prevents operator's hands from obscuring any part of the document during exposure; details of reader are described in the equipment section on microreaders in the catalogue section of the companion manual entitled "Audio Visual Presentation of Intelligence Data".

Price: \$450.00 to \$975.00, according to model

CAMERA,  
MICROFILM  
FLATBEDRemington Rand, Inc.  
New York, New York

## Film-A-Record Model 4

A 16mm flatbed type table unit microfilming camera; the camera microfilms documents up to 11" x 17"; handles single sheets or papers fastened together; reduction is 21 to 1; by adjusting size of copy table, any record from a small check to large ledger sheets can be copied without loss of film; film supply indicator shows the amount of film left in camera; an audible signal warns operator when film has been loaded improperly; when take-up reel is full and film has been loaded improperly, and when take-up reel is full and film fails to advance properly; 200 feet of 16mm film are supplied on daylight loading reels; any length up to 100 feet can be removed at a time for processing; foot switch controls operation, photographs documents and advances film, frees operator's hands for positioning copy; illumination is by two 100-watt Mazda lamps; controls permit increasing and decreasing lights for varying colored original documents; power, 100 to 125 volts, 60 cycle AC.

Price: Not available

Viewlex Incorporated  
Long Island City, New York

## Camera Ph-545A/PF

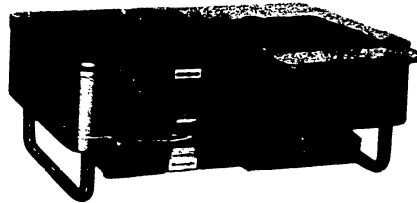
A portable flatbed type camera; operates semiautomatically to photograph bound or unbound documents on either 35mm or 16mm unperforated microfilm; operates on 115 volts AC or with a converter on 115 volts DC; can photograph documents up to 20" x 27" when operated in a vertical position and up to 37" x 42" when operated in the horizontal position to photograph wall-mounted documents; all components are packed in two carrying cases; can be set up for operation within 10 to 15 minutes. Camera stand carrying case and camera carrying case are transported easily; a still camera, light meter, copyholder assembly, conversion kit, lighting assembly, control panel assembly, camera stand, 16mm and 35mm film spools, control cable, and foot switch are the principal units contained in the two cases.

Price: Manufactured on government contract.

CAMERA,  
MICROFILM  
FLOW-TYPE

Burroughs Corporation  
Detroit, Michigan

Model 205 Recorder



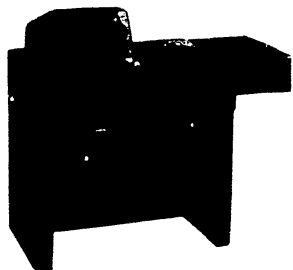
A flow-type 16mm camera; microfilms documents up to 11" wide as fast as the operator can prepare them; reduction ratios of 24 to 1 or 37 to 1 available; feed control accepts documents of uniform thickness and stops feeding if a document thicker than the setting is fed or if two documents are fed at the same time; indexing meter permits as many as 999 locations in 100 feet of film; copy classification dial - correct dial setting compensates for variation of document colors or film speeds; film footage meter shows how much unexposed film is left in the camera; unit moveable, can be set on table, desk or accessory stand; weight 116 lbs; height 13-1/2"; width 32"; depth 23"; 110 volt 60 cycle AC.

Price: \$1586.00

CAMERA,  
MICROFILM  
FLOW-TYPE

Burroughs Corporation  
Detroit, Michigan

Micro-Twin



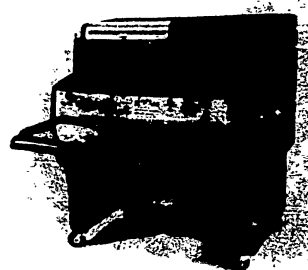
A combination microfilm viewer and 16mm flow-type camera; details of the reader are described in the equipment section on microreaders in the catalogue section of the companion manual entitled "Audio-Visual Presentation of Intelligence Data"; microfilms documents up to 11" wide as fast as the operator can prepare them; a choice of two film patterns, one for filming one side of each document using half of the film width (8mm) at a time, the other for recording both sides of each document side by side using the full width of the film; also available with a reduction ratio of 24 to 1 for filming one side of a document at a time using the full 16mm width of the film; feed control accepts documents of uniform thickness and stops feeding if a document thicker than the setting is fed or if two documents are fed at the same time; indexing meter permits as many as 999 locations in 100 feet of film; signal light indicates that the recorder is set for 8mm or 16mm filming; copy classification dial — correct dial setting compensates for variation of document colors and film speeds; film footage meter shows how much unexposed film is left in the camera; unit movable, can be set on table, desk or accessory stand.

Price: \$1693.00

CAMERA,  
MICROFILM  
FLOW-TYPE

Diebold Incorporated  
Flofilm Division  
Norwalk, Connecticut

Flofilm 14-inch Duplex Camera Model 9003



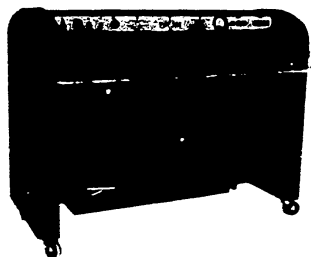
A flow-type camera designed to microfilm at one feeding either one side or both sides of any copy up to 14" wide and of any length; microfilms twin rows of 8mm images on 16mm film, or twin rows of 16mm images on 35mm film; change from 16mm to 35mm film using no added parts; camera is supplied with lenses to give reductions of 36, 30, 26, or 21 times; two-sheet shut off prevents hand or machine feeding of more than one document at a time; footage counter records film footage used and amount of film remaining in the camera; scanned area illuminated by four rows of standard Mazda lamps arranged on sliding banks for removal and inspection; light control adjusted through variable aperture; speed of 150 feet per minute by chain drive; conveyor driven from 115 volts, 60 cycles, AC; space between images controlled; spindles for 100-foot rolls of 16mm or 35mm unperforated film; warning light notifies operator that entire roll of film has been exposed and conveyor stops; automatic feeder accessory available; printer accessory available, for making positive film copies by flow contact from exposed and processed negative film, 36" wide, 43" high, 27" deep; weight, 365 lbs.

Price: \$4000.00

CAMERA,  
MICROFILM  
FLOW-TYPE

Diebold Incorporated  
Flofilm Division  
Norwalk, Connecticut

Flofilm 42-inch Camera-Enlarger Model 9005



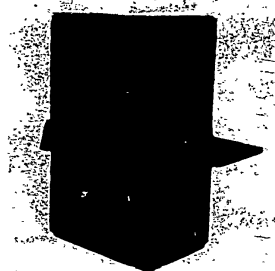
A flow-type camera designed to microfilm large copy up to 42" wide and of any length at 40 feet per minute; also serves as a film printer for making positive film copies from rolls of negative film and a flow-type enlarger for making full-size reproductions on photo-sensitive materials from any 16mm or 35mm processed microfilm negative; camera equipped for 100-foot rolls of 16mm or 35mm unperforated film; camera supplied with lens to give reductions of 35 times (covering documents up to 42" wide), 30 times (covering documents up to 36" wide), 24 times (covering documents up to 30" wide), and 20 times (covering documents up to 24" wide); illumination by two rows of standard incandescent lamps; illumination control; space between images controlled; conveyor drive is chain driven from 115 volt, 60 cycle AC motor; counter records number of exposures; used as printer for making 16mm and 35mm positive film copies by flow contact from exposed and processed negative films; enlarging attachment is furnished for converting to a flow-enlarger for dark-room use, enabling user to expose either sheets or rolls of photographic paper of various kinds to produce full or reduced-scale prints of microfilmed copy - consists of zirconium concentrated arc lamp with power unit, condensers, lenses, wiring harness, etc.; warning light notifies operator that entire roll of film has been exposed and conveyor stops; reversing control; front or rear copy delivery; 52" wide, 41" high, 20" deep; weight 608 lbs; can be moved through any ordinary door to the work.

Price: \$9750.00  
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CAMERA,  
MICROFILM  
FLOW-TYPE

Diebold Incorporated  
Flofilm Division  
Norwalk, Connecticut

Flofilm 14-inch Rear Delivery Camera Model 90-46



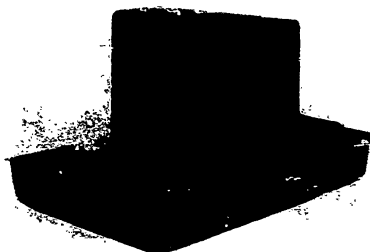
A flow-type camera designed to microfilm any copy of any length and up to 14" wide at the rate of 60 feet per minute; Type 3 Flofilm camera equipped for either 16mm or 35mm film, can be converted to continuous contact printer, can be converted to flow enlarger head by adding auxiliaries included in Model 90-47 Enlarger; can be supplied with lenses to give reductions of 24 times (microfilms 14" copy on 16mm film or twin rows on 35mm film), 11 times (microfilms 14" copy on 35mm film), or 5-1/2 times (microfilms 7" copy on 35mm film); illumination by double banks of five standard Mazda lamps; illumination control; space between images controlled; conveyor drive is 115 volt, 60 cycle AC motor; counter to inform operator number of exposures made, may be re-set to zero at any time; warning light notifies operator that entire roll of film has been exposed and conveyor stops; 52" high, 19" wide, 28" deep; crated weight, 665 lbs.

Price: \$4950.00

CAMERA,  
MICROFILM  
FLOW-TYPE

Diebold Incorporated  
Flofilm Division  
Norwalk, Connecticut

Diebold Portable Microfilm Camera Model 9600



A flow-type portable 16mm microfilm camera, will microfilm copy up to 11" wide up to 1/8" thick by any length at the rate of 80 feet of copy per minute, supplied with one coated lens with a reduction of 24 times, lens is mounted in a fixed focus assembly, camera folds into carrying case, illumination by 11 miniature lamps connected in series - if any lamp fails operator is warned by change in illumination of control panel, control of illumination for light, medium, or dark copy; conveyor system consists of two molded rubber rollers - one roller is spring loaded permitting feeding of heavy copy; spacing between images controlled; magazine load provides 50 usable feet of microfilm, built with interlock so that it can operate only when magazine is in correct operational position, shuts off after 50 feet of usable film has been exposed it, any one magazine, exposure counter available, requires 110-120 volts AC 60 cycle; size closed 13-1/4" wide, 12-3/4" high, 5-1/2" deep, size open, 13-1/4" wide 12" high 23" deep, weight, 20 lbs.

Price: \$750.00

CAMERA  
MICROFILM  
FLOW-TYPE

Recordak Corporation  
New York, New York

Recordak Reliant Microfilmer



A flow-type camera for use on the desk top or stand, photographs documents up to 12" in width and of unlimited length at speeds up to 450 items a minute; three reduction ratios of 40 to 1, 32 to 1 or 24 to 1 may be chosen by interchanging lenses in the film unit, three methods of microfilming, Duplex method photographs the fronts and backs of documents at the same time side by side, Duo method photographs the fronts of documents down one half the film width, then up the other half, standard method photographs the fronts of documents across the full width of the film; two rolls of film may be exposed at the same time at all reduction ratios and with all three microfilming methods, uses 16mm and 35mm film, automatic feeder, glass document guides keep documents flat; machine stops if bulb burns out, warning signal shows when film supply is near depletion or if film is incorrectly loaded.

Price: \$1800.00 including one lens assembly

CAMERA,  
MICROFILM  
FLOW-TYPE

Recordak Corporation  
New York, New York

Recordak Supermatic Microfilmer



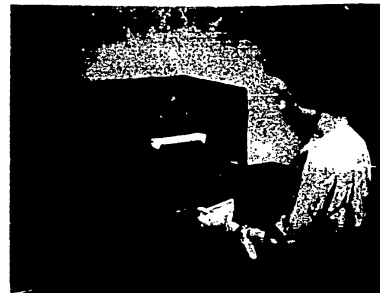
A flow-type camera; microfilms documents up to 11" wide and unlimited length; 8-1/2" wide at a 32 to 1 reduction with the document guides; speeds up to 500 3 x 5 cards or 200 letters a minute with built-in feeder; five reduction ratios in choice of 16mm or 35mm film; interchangeable lens assemblies provide reduction ratios of 40 to 1, 32 to 1, 25 to 1, and 20 to 1 using 16mm film; reduction ratio of 18 to 1 using the Duplex method with 35mm film; three methods of microfilming, Standard, Duo, and Duplex (see description of Recordak Reliant Microfilmer); exposes two rolls of 35mm film at the same time at all reduction or one roll of 35mm film; document separating device; counter; uses 30-watt 100-watt lamps in four banks of eight lamps each.

Price: \$2000.00 to \$2200.00 including one lens assembly according to the model.

CAMERA,  
MICROFILM  
FLOW-TYPE

Recordak Corporation  
New York, New York

Recordak Bantam Microfilmer



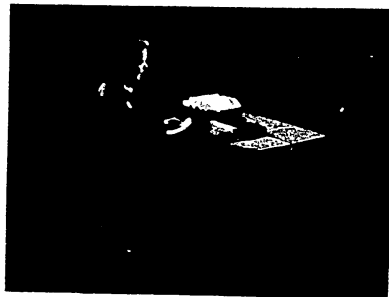
A flow-type 16mm camera for use on the desk top, designed as a general purpose machine; four reduction ratios available of 40 to 1, 32 to 1, 24 to 1, and 19 to 1 by interchanging the lens assembly; microfilms documents up to 11" wide with length unlimited, 8-3/4" at a 32 to 1 reduction with document guides; speeds up to 500 3 x 5 cards or 200 letters a minute on automatic feeder, two methods of microfilming, Standard and Duo (see description of Recordak Reliant Microfilmer); accommodates 200-foot supply roll of film and 100-foot roll for Duo operation; uses 30- or 20-watt lamps; buzzer sounds if film supply is exhausted, if film fails to wind on take-up spool, or when take-up spool is full; accessory reversing unit available, photographs fronts and backs of documents automatically.

Price: Including one lens assembly, \$1250.00 to \$1400.00 according to model.

CAMERA,  
MICROFILM  
FLOW-TYPE

Recordak Corporation  
New York, New York

Recordak Duplex Microfilmer



A flow-type 16mm camera designed for microfilming both sides of checks and bank forms at the same time, Duplex method; by interchanging film units will microfilm by Duo and Standard methods (see description of Recordak Reliant Microfilmer); reduction ratios of 35 to 1 or 18 to 1; microfilms documents up to 9-1/2" wide with length unlimited; means for indexing along edge of film; counter; speeds up to 400 3 x 5 cards or small-size checks, or 200 letter-size documents a minute; machine stops in less than a minute if left running unattended; accessories such as feeder and stacker available.

Price: Including one film unit, \$1000.00 to \$1100.00 according to model.

CAMERA,  
MICROFILM  
FLOW-TYPE

Recordak Corporation  
New York, New York

Recordak Triplex Microfilmer



A flow-type 16mm camera; will microfilm by Standard or Duo method (see description of Recordak Reliant Microfilmer); can also film front and back with the reversal mechanisms built into the machine and can expose two rolls at the same time at all reductions; reductions of 19 to 1 or 24 to 1 with the Standard method and 35 to 1 or 28 to 1 with the Duo method; microfilms documents up to 14" wide when using the 24 to 1 film unit and documents 9-1/2" wide when using the 35 to 1 film unit; up to 100 checks or file cards a minute can be fed by hand, 300 a minute with an automatic feeder; means for indexing along edge of film; trouble signals; accessories available.

Price: Including one film unit, \$1600.00 to \$2350.00 according to model



CAMERA,  
MICROFILM  
FLOW-TYPE

Recordak Corporation  
New York, New York

Recordak Commercial Microfilmer



A flow-type 16mm camera microfilms one or both sides and exposes two rolls of film at once using only the Standard method in which the full width of film is used for each exposure; reduction ratio normally 24 to 1 but can be adapted for 19 to 1 or 17 to 1 to get larger images; microfilms documents to a maximum width of 10-1/2" to 14" depending on model and to any length when photographing only one side; length limited to 14" photographing both sides; fronts and backs microfilmed by adjusting the reversing control, for a single document or for all documents; speeds up to 100 check-size or 60 letter-size documents a minute when fed by hand and up to 300 a minute when using an automatic feeder; trouble signals; accessories available.

Price: Including one film unit, \$550.00 to \$1050.00 according to model

CAMERA,  
MICROFILM  
FLOW-TYPE

Remington Rand Inc.  
New York, New York

Film-A-Record, Model 8

A 16mm flow-type camera; a desk top model built to be carried like a suitcase; daylight loading with standard 200-foot lengths of 16mm film; reduction ratio of 25 to 1, reduction ratio of 40 to 1 available; films records up to 12" wide in any length; smaller records can be filmed down one side of the film and up the other, in two 8mm rows; feeding and receiving trays are detachable, fit inside machine when not in use; warning signal sounds when film supply spool approaches empty point, and when the camera is improperly loaded; film supply indicator shows how many feet of unexposed film remain in the camera; push of a button advances any desired length of film without exposure in order to index or separate groups of records; degree of illumination for filming documents of varying color can be controlled.

Price: Not available.

Dual Film-A-Record, Model 12

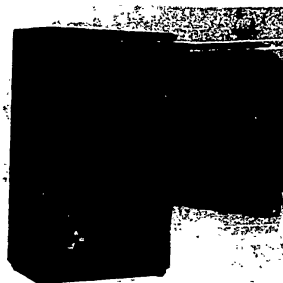
A floor model flow-type microfilming camera using either 16mm or 35mm film, photographs up to 14-1/4" width of 15-inch-wide documents; on 16mm film will photograph one side of documents up to 10-1/4" down one half the film and up the other half, or both sides at once, side by side across the film; on 16mm film will photograph one side only of documents up to 15" in width using full width of the film; with 35mm film this size of document can be photographed back and front at once, side by side across the film, can photograph two identical copies at once on duplicate rolls of 16mm film; hand feeding, semi-automatic feeding, group feeding, or fully automatic attached feeder; two separate panel-mounted controls permit adjusting lights for best photographic illumination for each side of the document independently; daylight loading of either 16mm or 35mm film; interchangeable lenses for reductions of 24 times, 32 times and 37 times; visual and audible signals automatically signal when film supply is exhausted; double document stop to eliminate feeding two documents at one time.

Price: Not available.

PROCESSOR,  
MICROFILM

Diebold Incorporated  
Flofilm Division  
Norwalk, Connecticut

Flofilm Processor Model 9107



An automatic microfilm processor for 16mm and 35mm film; self-threading, tankless, office-type unit develops, fixes, washes, dries, and collects the film, shutting itself off when the operation is completed; accepts 100-foot rolls of 16mm or 35mm negative or positive microfilm; film driven by soft rubber rollers located at six different positions at 4 feet per minute constant film speed; development occurs in stainless steel tubes; chemical solutions in constant circulation; wash water continuously supplied; temperature of processing solutions controlled by thermostatic water blender; four drying operations, rubber squeegee, air squeegee, absorbent action by cotton-faced roller, and absorbent action by heated air blown across film; three front panel controls; operation requires no technical supervision; completes a 100-foot roll in less than 30 minutes; 52" high, 28" deep, 17-3/4" wide; weight 500 lbs.

Price: \$3495.00

PROCESSOR,  
MICROFILM

Manufactured by  
Philadelphia Air Transport Co.  
For  
Microdealers Inc.  
(Fifteen microfilm service organizations)

Microdealers Continuous Film Processor Model DK1635  
(Smith Processor)

A continuous film processor for positive or negative 16mm or 35mm film; dark-room operated; speed of 12 feet per minute at 5 minutes development time; tanks in order - development, short stop, 2 fix tanks, spray wash, stagnant tank wash, spray wash and wetting agent tank; forced air squeegee; circulated warm air drying box, air tight with separate motor driven take-up spindle; top rollers are drive rollers with adjustable clutch action to control drive; rollers are covered with removable rubber sheaves for cleaning and replacement; roller and drive system removable from tanks for cleaning and threading - machine has self-contained elevator; developing and circulating tanks equipped with overflow drain; all tanks equipped with gravity drains; equipped with 2 supply and 2 take-up spools for both 16mm and 35mm film (8 spools); supply spindle equipped with safety mechanism plus or minus one degree; refrigeration unit, developer circulation system, and replenishment system supplied at extra cost or by user; length 10', width 15", height 12'.

Price: \$4950.00

PROCESSOR,  
MICROFILM

Micro Record Corporation  
Beacon, New York

Micro Record Film Processing Equipment



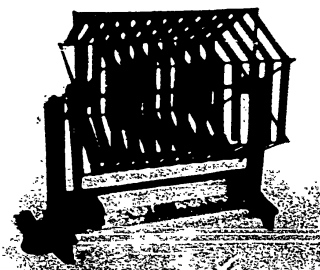
Portable, motor driven microfilm processing unit; developing tank provides a means for processing long lengths of film where the quantity of film involved does not warrant the expenditure required for more highly productive installations; film can be processed in lengths up to 200' of double 8mm, 16mm, or 35mm film with Model D11 and lengths up to 100' of 70mm film with Model D21; film is placed on spindles of developing tank, light trap is placed over film and all processing is done in daylight; separate tanks are provided for the various solutions; the mechanism with the film in motion is transferred from tank to tank in the proper time and sequence; washing is accomplished in a tank provided with a hose that can be secured to the water faucet to supply continuous circulation of fresh water; film requires no attention from the operator until after the final washing when it is removed from the tank and placed on the drying rack; the film traveling back and forth on the reels in the solutions for the entire duration of the processing causes continuous agitation of the solutions; where the reversal process is required the use of a transparent tank is recommended; requires one gallon of solution; standard equipment includes driving mechanism, light trap, 3 nested tanks including black wash tank (transparent tank optional), 3 feet of rubber hose with faucet adapter for washing and 1 pair of reels (size optional); 110 volts, AC, 60-cycles; 220 volts and 110/220 volts available at additional costs; measures 13-1/2" x 8-5/8" x 10-1/4"; weighs 11 lbs.

Price: Model D11 \$159.00

Model D21 \$237.00

PROCESSOR,  
FILM DRYERMicro Record Corporation  
Beacon, New York

Micro Record Film Dryer



Portable dryer; easily assembled or knocked down for carrying - no tools are required; will dry roll of film in approximately 10 minutes; each cross arm rests on two springs, permitting film to contract naturally while drying; constructed of stainless steel and aluminum; electrically operated, 110 volts AC (other voltages available); cage is rotated by electric motor; strip heater, located beneath cage, supplies heat to speed drying of the film.

## Model DR 10

Capacity of 100' double 8mm, 100' 16mm, or 50' 35mm film; knocked down dimensions, 29" x 12" x 7"; shipping weight, 20 lbs.

Price: \$75.00

Carrying Case: \$21.00

## Model DR 15

Capacity of 200' 16mm or 100' 35mm film; knocked down dimensions, 29" x 12" x 7"; shipping weight, 23 lbs.

Price: \$86.00

Carrying Case: \$21.00

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PROCESSOR,  
FILM DRYERMicro Record Corporation  
Beacon, New York

Micro Record Film Dryer (Continued)

## Model DR 20

Capacity of 100' 70mm, 200' 35mm, and 400' 16mm film; knocked down dimensions, 50" x 12" x 7"; shipping weight, 31 lbs.

Price: \$137.00

Carrying Case: \$37.50

## Squeegee

Model S10 (16mm and 35mm) - \$12.00 Model R10 (16mm and 35mm) - \$12.00

Model S20 (70mm) - 15.00 Model R20 (70mm) - 15.00

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PROCESSING EQUIPMENT,  
FILM MOUNTERFilmsort Division of Dexter Folder Company  
Pearl River, New York

## Filmsort Hand Mounter

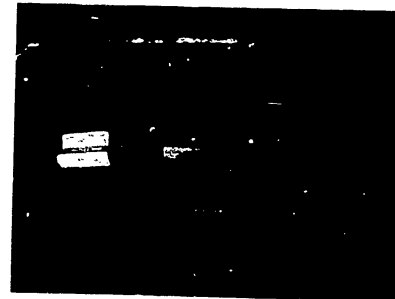


Cuts the film image from the roll of film and simultaneously seals the image into the Filmsort Aperture card; averages more than 350 frames an hour; mounting film into cards involves three steps - remove protective glassine sheet from Filmsort Aperture card, insert card into Mounter as you advance film, and press the film cutting lever - and the film is cut and mounted in the card; 5-1/4" wide, 7" high, 11" deep.

Price:	Catalogue No. F 603 Filmsort Hand Mounter	
	"C" Aperture	\$395.00
	Catalogue No. F 603, 1 Filmsort Hand Mounter	
	"D" Aperture	\$395.00
	Catalogue No. F 603, 2 Filmsort Hand Mounter	
	"E" Aperture	\$395.00
	Catalogue No. F 603, 3 Filmsort Hand Mounter	
	"F" Aperture	\$395.00

PROCESSING EQUIPMENT,  
FILM MOUNTERFilmsort Division of Dexter Folder Company  
Pearl River, New York

## Filmsort Semi-Automatic Optical Mounter



For cutting and mounting roll film in aperture cards; in the Optical Mounter's semi-automatic process the film pulldown is automatic - the cutting and mounting of the film within the card is pushbutton controlled by the operator; image can be rotated on the viewing screen for correct reading positioning regardless of the film position; use of retractable film track maintains constant focus on film; engraved lines on the viewing screen enable operator to center film image; screen enables operator to check film against card for selection accuracy where mounting is to be on pre-punched or manually pre-indexed cards; handles silver, diazo and heat-developing films; will mount with acetate or polyester type base; Optical Mounter has blower cooled optical system; mounted on table, desk height, with drop leaf at left, storage drawer and work space at right, and casters; as reader, screen size is 12-7/8" x 14-1/2", with magnification of 8 times.

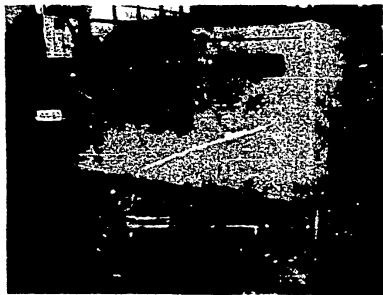
## Price: Filmsort Semi-Automatic Optical Mounter

Catalogue No. 603, 6, "D" Aperture	\$4750.00
Catalogue No. 603, 8, "C" Aperture	5750.00
Catalogue No. 603, 9, "E" Aperture	5750.00
Catalogue No. 603, 10, "F" Aperture	5750.00

# PROCESSING EQUIPMENT, FILM MOUNTER

Filmsort Division of Dexter Folder Company  
Pearl River, New York

Filmsort Automatic Mounter



For cutting and mounting roll film in aperture cards; handles silver microfilm, diazo and heat-developing film; automatic steps performed by the Mounter - protective glassine is stripped from the card aperture, film is advanced with an electronic scanner controlling pulldown to an accuracy within ten thousandths of an inch, film is cut and sealed to card frame, and accurate count is made of the film frames and cards; handles 35mm film, mounting in aperture cards at the rate of 9000 frames per hour. Mounter will accommodate 100- and 1000-foot rolls of negative or positive film; automatic detection of card or film imperfections or operator errors; 83" long, 24" deep, 55" high.

Price: Filmsort Automatic Mounter

Catalogue No. F 603.7, "D" Aperture	\$32500.00
Catalogue No. F 603.11, "C" Aperture	\$39500.00
Catalogue No. F 603.12, "F" Aperture	\$42500.00

# ENLARGER, MICROFILM

Diebold Incorporated  
Flofilm Division  
Norwalk, Connecticut

Flofilm 42-inch Camera-Enlarger Model 9005

A combination flow-type camera and enlarger; description in flow-type microfilm camera section.

Model 90-47  
Flow Enlarger Auxiliary for 14-inch Camera  
Model 90-46

This auxiliary unit converts the Flofilm 14-inch rear delivery camera to a flow enlarger; consists of three units - front roller holder, rear roll collector, and illumination unit; holds any width roll of photocopy paper up to 14 inches, and any length roll up to 350 feet; speed is governed by speed of Model 90-46 camera to which auxiliary is attached, or 60 feet per minute; enlarging ratios are governed by selection of lens in Model 90-46 camera - the 24 to 1 lens used with microfilm made originally at 24 to 1 reduction will enlarge full scale; the 11 to 1 lens used with microfilm originally recorded at 24 to 1 reduction will enlarge 11/24th of original size; the 11 to 1 lens used with microfilm originally recorded at 11 to 1 reduction will enlarge full scale; the 5-1/2 to 1 lens used with microfilm originally recorded at 11 to 1 reduction will enlarge half scale; illumination by metallic arc lamp; density control; flow projection photocopies can be made from any type of microfilm, 16 or 35mm, and with any known type of perforation; end of film warning; instrument panel of the Model 90-46 camera carries warning lights which can be seen in the semi-darkened room in which the Model 90-47 Flow Enlarger is used; width of front roller fully extended 24"; width of motorized rear roll collector 22"; weight of all three units crated, 90 lbs.

ENLARGER,  
MICROFILM

Eastman Kodak Company  
Rochester, New York

Recordak Corporation  
New York, New York

Kodagraph Enlarger Model B

Recordak Enlarger Model MEB



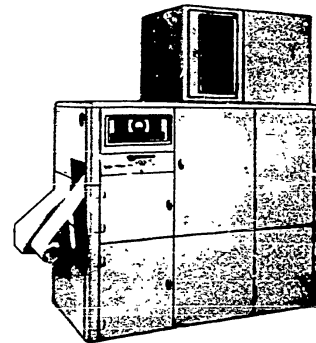
An enlarger that can be mounted on a wall or on a table for horizontal projection; accepts 35 and 16mm film in 100-foot rolls or short strips; magnifications range from 4 to 60 times, permitting enlargements up to 75" x 105"; at higher magnifications the enlarger is operated in a horizontal position; film scratching is reduced by a glassless film carrier; cord is used to focus the images visually on the copyboard, no measuring tape being required; lamp housing combines a point-light source and a condenser system; focusing, film transport, and film clamping accomplished by hand or remotely by control cords.

Price: \$425.00

ENLARGER,  
MICROFILM

The Haloid Company  
Rochester, New York

Xerox Copyflo Model A



A fully automatic continuous printer for the reproduction of roll microfilm; finished copies are reproduced on a continuous roll of plain paper from 3" to 11" in 1/2" increments at the rate of 20 feet per minute; maximum roll diameter that can be accommodated is 12", allowing a 2000-foot length when using twenty-pound paper; reproduces positive copies from 16 or 35mm negative or positive film; reproduction of the image is by the xerographic process (discussed in Electrostatics Section); each of three lenses mounted in a turret is capable of five magnifications - a 50mm lens for 7 times, 7-1/2 times, 8-1/2 times, 9 times, and 9-1/2 times; a 24mm lens for 11 times, 12 times, 13 times, 14 times, and 15 times; a 35mm lens for 17 times, 18 times, 19 times, 22 times, and 24 times; Copyflo machine is not capable of reproducing continuous tones, large solid areas, or alternately negative and positive frames of microfilm; light source is a high intensity concentrated zirconium arc lamp; condenser lens concentrates the lamp output and directs the light to the most effective area; film gate provides a constant film to lens distance and allows the transmission of light through its slit opening for image formation; adjusting the film to drum distance is accomplished by turning the large wheel clockwise to increase magnification or counter clockwise to decrease magnification; two film carriages are provided which allow the use of either 16 or 35mm film.

# ENLARGER, MICROFILM

The Haloid Company  
Rochester, New York

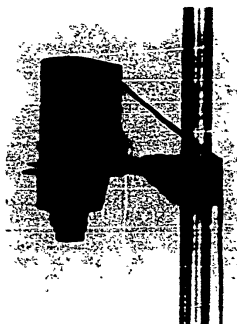
## XeroX Copyflo Model A (Continued)

There are two variations to the XeroX Copyflo Model A. The XeroX Copyflo Model is the same basic machine without the microfilm head, but with a reproducing sheet fed copying device. It handles opaque and translucent material such as letters and engineering drawings. The XeroX Copyflo Model C is the same basic machine with both the microfilm head and the reproducing sheet fed copying device. These features must be ordered with the machine and factory installed. They can not be ordered later to be added to a model already on hand.

Prices are available upon obtaining information as to specific requirements.

Photostat Corporation  
Rochester, New York

## 70mm Microtronics Micro-Film Enlarger



A 70mm microfilm enlarger; can be purchased in any one of three ways - enlarger head only, enlarger head and polished steel column only, or complete with base cabinet, easel and control panel; magnification range from 4 to 14 times; maximum

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# ENLARGER, MICROFILM

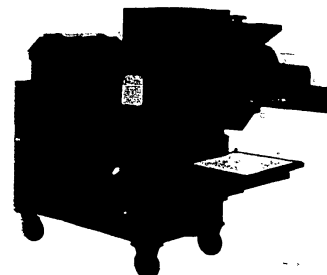
Photostat Corporation  
Rochester, New York

## 70mm Microtronics Micro-Film Enlarger (Continued)

print size 36" x 48" from full frame 70mm negative; accommodates individual cut frames 70mm or smaller; roll film attachment available; pin-point light source; micrometer and digit counter focusing control; factory calibrated pre-set focus settings; variable light control and timer; exposure counter; raising and lowering of enlarger head is controlled electrically from a panel on right; adjustable easel for holding paper flat; safe-light illumination on all controls; foot switch exposure control; 16-35mm roll film attachment for 70mm enlarger head available; enlarger is available attached to Photostat Photographic Copying Apparatus.

## 16mm and 35mm Microtronics Micro-Film Enlarger

A 16 and 35mm microfilm enlarger; constructed with the same features as the 70mm model; magnification range from 8 to 30 times; maximum print size 36" x 48" from full frame 35mm negative, 18" x 24" from 16mm; enlarger available attached to Photostat Photographic Copying Apparatus.



Price: Microtronics 70mm Precision Microfilm Enlarger, complete	\$2860.00
Head only	\$1202.00
Head including column and arm	\$1800.00

When the 16 and 35mm Precision Microfilm Enlarger is purchased, it is set up for roll film complete with spindles

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# ENLARGER, MICROFILM

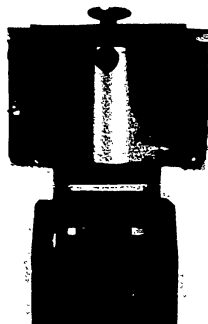
Photostat Corporation  
Rochester, New York

## 16mm and 35mm Microtronics Micro-Film Enlarger (Continued)

and manual mechanism for advancing or retracting film from storage roll. When 70mm Enlarger is purchased, it is set up for cut film frames; there is an additional charge for an attachment to handle 35 and 70mm roll of film.

\$275.00

## Microtronics Micro Card (Aperture Card) Projector



This projector unit is an attachment currently designed for use with Photostat Photographic Copying Apparatus, Models Expediter and Juniors Continuous "A" and "B" (described in the Camera Photo Copiers Section) - may be adapted to other models; with this projector unit film frames can be successively or selectively projected onto a view box (on horizontal subject holder) for reading, or onto sensitized paper within the magazine of the copying apparatus; the view box permits the operator to see at all times the strip and film frame being selected for projection onto sensitized paper or can be used strictly as a reader; the Micro Card used in this unit contains four strip openings - the first strip opening is for index purposes - following three openings contain strip 16mm film - there is an average of 15 film images to a strip; the

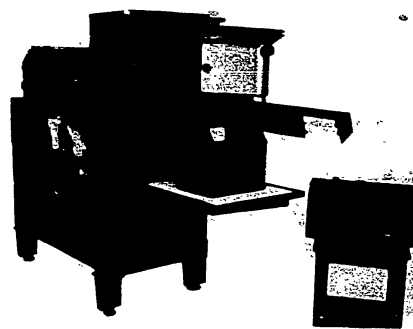
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# ENLARGER, MICROFILM

Photostat Corporation  
Rochester, New York

## Microtronics Micro Card (Aperture Card) Projector (Continued)

manufacturer feels the projection unit is sufficiently versatile in design to entertain inquiries for the copying of other size Macro Cards of 16mm film or Micro Cards for 8 or 35mm film; the average size individual image on the Micro Cards used in this 16mm unit are 9/16" x 3/8" or smaller; enlargements can be made up to 14 times when the unit is attached to the models for which it was originally designed; the complete unit is mounted to the apparatus with pin hinges so that rapid interchange can be made from aperture card copying to normal copying from a horizontal subject holder; may be swung away or completely removed; internal works readily accessible because of two hinged sub-assemblies; thread focus of the lens is provided; the Micro Card subject holder is permanently aligned but accessible for placement and removal of the card - holder pulls down from unit for loading; horizontal or vertical travel of the subject may be adjusted at the same time or separately; the Micro Card subject holder is readily removed or re-inserted in a master mask permitting projection of various size Micro Cards by the use of alternate holders; when the Micro Card is in position in the subject holder it is permanently aligned including positive focal plane control; construction of the unit prevents movement of the subject during exposure; all controls available on the Models Expediter, and Juniors Continuous "A" and "B" are usable with the projector unit attached.



Price: This unit has just become available and a firm price has not been set.

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# ENLARGER, MICROFILM

Photostat Corporation  
Rochester, New York

Microtronics 35mm Microfilm Viewer - Enlarger -  
Photographic Processor

This unit is designed to facilitate the reproduction onto photographically sensitized paper and/or viewing of engineering drawings from rolls of 35mm film up to 106' in length or from 35mm film mounted in aperture cards; three functions - viewing, projection onto sensitized photographic paper and the processing of exposed sheets are contained in a single piece of apparatus; complete cabinet (light tight as required) in which the three functions are housed is 30" wide, 60" long, and 68" high; at the top front of the unit is a viewing screen hooded to reduce extraneous light; the subject may be selected and viewed prior to exposure; the projection seen on the screen will be identical in size, focus, and orientation to the image later projected onto the sensitized photographic paper; unit may be operated from normal seated position using standard office chair; uses 35mm unperforated film with maximum image size 1-3/16" x 1-5/8"; image may be negative or positive; fixed enlargement ratio (magnification) of 14, 3; position of the film image may be adjusted up or down or rotated for desired location; photo cell light meter mounted with the viewing screen may be read and reading translated into exposure time; processing apparatus consists of two developing tanks, two fixing tanks, and one wash tank; the finished print is stabilized, the wash cycle being too short to produce a permanent print; normal life expectancy of a stabilized print is about one year; the damp print is delivered to a tray at the front of the unit, once the film frame is selected and positioned on the viewing screen and the light intensity and exposure time determined, the depression of the exposure button is the only function necessary for the operator to complete the delivery of the stabilized print; exposure, winding down, and severing of the correct length print (as determined by the curtain setting), delivery and progress through the processor, and final delivery to the receiving tray is all accomplished mechanically; power requirements 115-120 volts 60-cycle single phase AC; lead-in wire and connection provide for grounding.

Price: This unit has just become available and a firm price has not been set.

Radio Corporation of America  
Camden, New Jersey

The RCA Bizmac Microfilm Enlarger Model  
No. 5900

A continuous microfilm enlarger using the RCA Electrofax dry printing process, can be used with Filmsort microfilm cards and 35mm microfilm originals; operates at an output rate of fifteen 17" x 22" drawings per minute; reproduces standard A, B, and C-size drawings in full scale, larger drawings in half-size; accepts and processes standard rolls of 35mm film (see description of machine and discussion of process in Electrostatics Section).

# PRINTER, MICROFILM

The Oscar F. Carlson Company  
Chicago, Illinois

Depue Microfilm Printer Model 50-PL-1635



Designed to print perforated and unperforated black and white film, either 35 or 16mm; basic machine prints 35mm; 16mm is handled by substitution of parts; illumination provided to expose regular positive film or slow fine grain film at 94 feet per minute; 60-cycle AC may be used for the printing light using standard 5/16" width aperture with a printing speed of 94 feet per minute; when smaller apertures are required or where AC is 50 cycles or less, printing light must have DC; a motor generator for this purpose can be furnished on special order; 100-watt projection type printing lamp is in adjustable socket to compensate for the variations in the filament positions of different bulbs; apertures are changed to suit requirements, 5/16" width being standard; light control board may be used in conjunction with this unit to automatically change the intensity of the light as may be necessary; equipped with two 1200-foot capacity film feed-out hubs and two 1200-foot capacity film take-up hubs; machine is driven by a synchronous motor, 115 or 120 volts, 50 or 60 cycles, single or three phase.

Price: \$3100.00

PRINTER,  
MICROFILM

The Microfilm Corporation  
Cleveland, Ohio

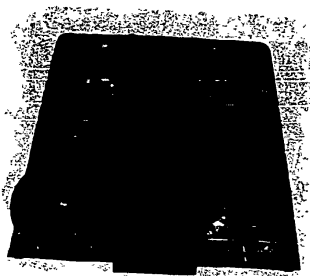
The Microfilm Continuous Contact Printer -  
16mm, 35mm, 70mm

Contact printer for 16, 35, and 70mm microfilm; 1000-foot film magazine and take-up flanges; printing speed 50 feet per minute; magazine will not feed when negative film is exhausted; voltage control; powered by constant speed gear motor; chain drive; front panel 30" x 30"; weight 75 lbs.

Price: \$1450.00

Photostat Corporation  
Rochester, New York

Microtronics Continuous Contact Positive Printer  
for 16mm, 35mm, and 70mm Microfilm



A continuous contact positive printer; for 70, 35, and 16mm perforated or un-perforated microfilm, motion picture film, sound tracks, and commercial films; printing speed of 50 feet per minute; heavy duty parts for intermittent and sustained operation.

Photostat Corporation  
Rochester, New York

Microtronics Continuous Contact Positive Printer  
for 16mm, 35mm, and 70mm Microfilm  
(Continued)

Price: Microtronics 16, 35, and 70mm Continuous Contact  
Positive Printer - wooden cabinet \$2030.00  
Loop attachment for 6-foot loop \$88.00  
Additional charge for each 3-foot increase in loop  
length (maximum loop 50 feet) \$44.00  
Metal cabinet for printer (instead of wooden)  
additional \$110.00  
Special tooth sprocket for print drum (only necessary  
where perforations are functional) per size \$660.00

PRINTER,  
MICROFILM

# PRINTER MICROFILM DIAZOTYPE

Ozalid  
Division of General Aniline and Film Corporation  
Johnson City, New York

## Ozalid Model "J"

A diazotype printer for reproducing 16 and 35mm microcopy, positives and negatives; described in the diazo section of manual.

Tecnifax Corporation  
Holyoke, Massachusetts

## Tecnifax Microverter

An accessory which operates in conjunction with any continuous-type, ammonia-developing diazotype machine to produce diazo duplicates of microfilm originals; takes up 4" of the standard diazotype machine's operating width, the rest can be used without removing the Microverter; duplicates microfilm from 16 to 105mm in up to 1000-foot lengths; speeds vary from 4 to 12 feet per minute depending on the translucency of the original; illuminated film viewer supplied with the Microverter facilitates observation of print density and background; 43" x 6-1/2" x 7-1/2"; weight, 30 lbs.; rewind motor rated at 1/50 hp, 110 volts, 60 cycles, single-phase.

Price: Not available

# ELECTROSTATIC EQUIPMENT

The Haloid Company  
Rochester, New York

The line of electrostatic equipment manufactured and sold by this company has the trademark XeroX. The process is a dry process. No water or chemicals of any type are used. Copies may be made in approximately two minutes, of most anything, written, drawn, or printed on most any type of support, paper, cloth, or metal.

This process involves sensitizing the plate by corona discharge, exposing the plate by light, and developing the plate by cascading a granular developer over the surface. After development, the powder image is transferred to paper or to a direct process lithographic mat and fused.

The images are as permanent as the support onto which they are transferred.

The basic commercial equipment is the Processor, Model D, the Camera No. 1 and the Fuser, Model A. The Processor contains the developer, the plates and the sensitizing and transfer mechanism. The camera takes the picture and the fuser fixes the image on the paper or lithographic mat.

The mechanical and electrical specifications of these pieces of commercial equipment are as following.

## Processor, Model D

Height . . . . . 19-1/2 inches  
Width . . . . . 15 inches  
Depth . . . . . 22-1/2 inches  
Weight . . . . . 90 pounds  
Electrical  
Requirements . . . 115 volts ac, 60 cycles,  
0.85 ampere  
All-metal construction, gray hammered finish.

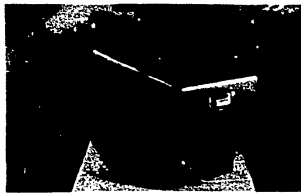
## Fuser, Model A

Height . . . . . 9 inches  
Width . . . . . 14 inches  
Depth . . . . . 20 inches  
Weight . . . . . 30 pounds  
Electrical  
Requirements . . . 1320 watts, 15-amp fuse

ELECTROSTATIC  
EQUIPMENT



XEROX FUSER, MODEL A



XEROX CAMERA NO. 1



XEROX PROCESSOR, MODEL D

ELECTROSTATIC  
EQUIPMENT

The Haloid Company  
Rochester, New York

Camera No. 1

Height . . . . . 20 inches  
Width . . . . . 16 inches  
Depth . . . . . 31-1/2 inches  
Weight . . . . . 44 pounds  
Gray hammered finish.

Lens: Extreme Wide Angle 4-1/4 inch focal length F/12.5.  
Lights: Four No. 1 photoflood, 1000 watts total.  
Timer: Electrical, 0-60 seconds, automatic reset.

Capacity - 8-1/2 inch by 12 inch size to size (fixed focus).

In addition to making transfers to ordinary paper for single copies, transfers may be made to paper offset duplicating masters and large runs may be made by the offset lithographic process. In addition, masters for diazo type machines may be produced.

Spirit duplicating masters may also be prepared by the XeroX process using the Flo-Set Unit and multiple copies prepared for the hectograph process.

The mechanical and electrical specifications of the Flo-Set Unit are as follows:

Height . . . . . 17 inches  
Width . . . . . 30 inches  
Depth . . . . . 17 inches  
Weight . . . . . 55 lbs.  
Electricity . . . . . 115 Volts A. C. 60 Cycles, 0.30 amp.  
Finish . . . . . Gray hammered finish  
Construction . . . . . All metal; rubber rollers; glass vapor  
feed bottle.

Camera No. 4. Camera No. 4 permits enlargements up to 150% and reductions down to 50% of the original size. This camera can be used instead of Camera No. 1, if desired.

ELECTROSTATIC  
EQUIPMENT

XEROX CAMERA NO. 4



XEROX FLO-SET

ELECTROSTATIC  
EQUIPMENT

The Haloid Company  
Rochester, New York

The specifications for this camera are:

Table top model: Fits on table 5 feet long and 2 feet wide.

Overall size of frame:	Length	73 inches
	Width	58 inches

Lens: F10, 10-1/4 inch focal length process lens

Lighting: Four 300-watt reflector flood lights  
(Total 1200 watts)

Copy Board: 17 inches by 22 inches

Focusing: By percentage scale or direct focus on  
ground glass.

Timer: Electrical Timer, 0 to 60 seconds.

Shutter electrically operated.

Gray hammered finish.

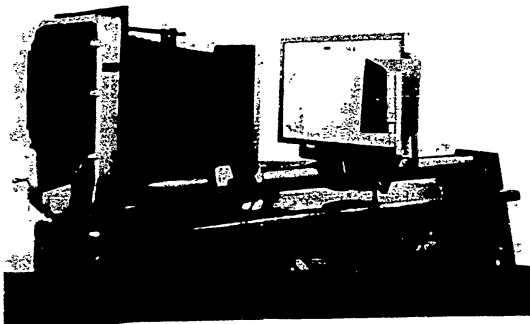
Model 1218 Camera. Any sized copy may be reproduced up to 8-1/2 by 13 inches using the 3 basic units, processor, Camera No. 1 and fuser. If copy larger than 8-1/2 by 13 inches is required, the Model 1218 camera is available for producing copy up to 12 by 18 inches. Larger sized charging, developing and transfer units are available for use with the larger plates necessary. The operation of these units is similar to that described for the standard-size units.

Vapor Fuser. Although the heat fuser is entirely suitable for fusing all images, a vapor fuser is available. The advantage of this type fuser is that no warm-up period is necessary. The copy to be fused is placed in the vapor fuser and the image is softened and fused into the paper by solvent action. This unit is 10-1/2 inches high, 16 inches wide and 16 inches deep.

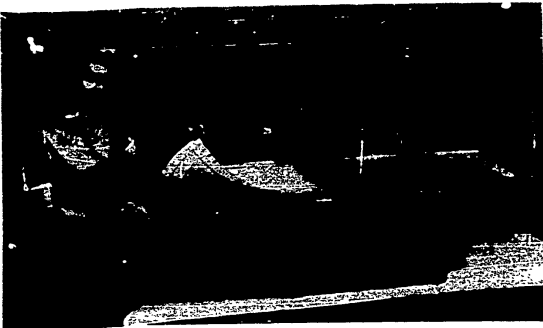
Tone Tray. If originals contain material other than line copy and coarse screen halftones, a tone tray will be necessary. If the tone tray is used instead of the regular developing tray, xerocopies of originals containing fine screen halftones and continuous tone images such as photographs may be reproduced. The tone tray is the same size as the conventional developing tray and fits in the Processor.

Developers and Toners. Two types of developers and toners are available. When Type 1 toner is used the plates must be cleaned after each development as previously described in Operation 14. If Long Life Toner, Type 10, is used the residual image may be wiped off the plate with a wad of cotton. No further cleaning is necessary.

ELECTROSTATIC  
EQUIPMENT

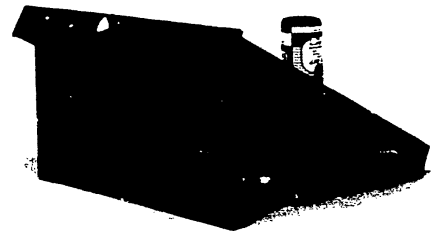


XEROX MODEL 1218 COPYING EQUIPMENT - CAMERA



XEROX MODEL 1218 COPYING EQUIPMENT - SENSITIZING  
AND TRANSFER UNIT

ELECTROSTATIC  
EQUIPMENT



XEROX VAPOR FUSER



ELECTROSTATIC  
EQUIPMENTThe Haloid Company  
Rochester, New York

## XEROX EQUIPMENT

	Monthly Rental	Net Annual Rental	Selling Price
Processor Model D	\$ 50.00	\$ 570.00	\$3,280.00
Fuser	5.00	57.00	225.00
Camera No. 1	25.00	285.00	915.00
Camera No. 4	60.00	684.00	1,795.00
Tone Tray	10.00	114.00	570.00
Flo-Set Unit	15.00	171.00	690.00
Model 1218 Camera	150.00	1,710.00	3,335.00
Model 1218 Processing Unit Complete, includes:			
Charging Unit	400.00*	4,560.00*	26,400.00
Transfer Unit			
Fuser			
Trays			
Tote Boxes			

\*Additional charge for 2nd and 3rd shift operations.  
Quotations upon request.All equipment shown is for 110-volt 60 cycle current.  
Rental charges include: installation, training operator, and equipment service.  
Annual rental prices provide a 5% discount.

## XEROX ACCESSORIES

Xerox Vapor Fuser	\$145.00 each
Paper Transfer Guide, Type A (For locating copy paper on plate)	2.75 each
No. 1, Photo Flood Lamp, for use in Camera No. 1	2.16 each
Reflector Flood Lamp, 300 RFL/1300 watt, for use in	
Camera No. 4 (# per case)	24.00 case
K2 Filter, for cameras	3.90 each
Developing or Cleaning Tray	35.00 each
Ground Glass and Frame for Adapter Back for Camera No. 4	16.50 each
Batteries for Tone Tray (three required)	1.75 each
Swing Vacuum Back with 1/4 Hp motor and Pump unit for	
Model 1218 Camera	345.00 each
Swinging Ground Glass Door Assembly for 1218 Camera	145.00 each
Adapter Back, Type A for Type A plates on 1218 Camera	70.00 each

ELECTROSTATIC  
EQUIPMENTThe Haloid Company  
Rochester, New York

## XEROX SUPPLIES

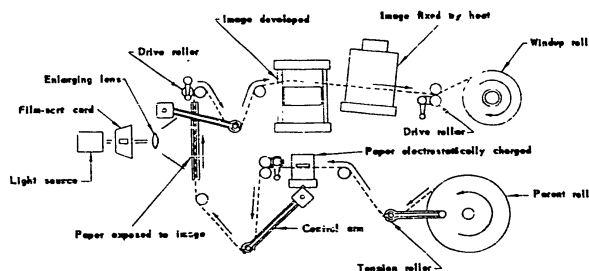
Plates, Type A, exposure area 8-1/2" x 13"	\$ 89.10 per 3
Plate Holder, Type A, complete	178.20 per 6
Plate Holder, Type A, without light shield	11.40 each
Plates, Type 1218, exposure area 12" x 18"	10.10 each
Developer, Type 1, 4-1/2 lb. can	49.50 each
Developer, Type 1, 9 lb. can	59.35 each
Long Life Developer, Type 10, 1/2 lb. can	113.40 each
Toner, Type 1, 1 pt. can	93.30 per 4
Long Life Toner, Type 10, 1 pt. can	17.00 each
Cleaner, Type 4, 4-1/2 lb. can	24.70 each
Cleaner, Type 4, 9 lb. can	49.10 each
Film Remover, 1 qt. can	92.40 each
Cleaning Cotton, new type, 1 lb. pkg.	9.00 per 3
Special Copy Paper 8-1/2" x 11" (500 sheets per pkg)	17.00 per 6
Erasers for touching up unfused mats, 12 per pkg	1.98 each
Paper Master Cleaner, 3 lb. can	2.65 each
Flo-Set Fluid, 10-1/2 oz (12 bottles per case)	6.50 each
Trans-Positive Sheets, 10" x 15" (50 sheets per box)	2.30 each
	9.95 case
	7.50 box

Prices Subject to Change Without Notice.



ELECTROSTATIC  
EQUIPMENTRadio Corporation of America  
Camden, New Jersey

The Electrofax process, a proprietary xerographic process, has been applied to several specialized pieces of equipment. One of these is the RCA Bizmac Microfilm Enlarger, Model 5900, manufactured by the Radio Corporation of America, Camden, New Jersey and marketed by the Bizmac Marketing Department of that company.



SCHEMATIC OF THE RCA BIZMAC MICROFILM ENLARGER

The microfilm may be supplied to the machine either in rolls or on film-sort cards. If cards are used they are loaded in a rack above the lens system and automatically dropped in front of the lens. If roll film is used, it is fed automatically in front of the lens. At a press of a button, the microfilm originals, cards or rolls, are fed into the lens system automatically, one frame every four seconds. This machine will produce automatically up to fifteen 17-inch by 42-inch microfilm enlargements per minute and up to 24 copies of each frame by proper settings on the control panel.

The printing paper operates in a continuous flow at a speed of 23 feet per minute. It is exposed by the light images on the microfilm originals as they are processed through the lens and projection system. After exposure, the latent image is then developed by the automatic passage of magnetic brushes carrying pigmented toner across the exposed paper. The original image is revealed instantly.

This image is then fixed permanently as the paper is exposed to heat which causes the powder to bind itself to the coated surface of the paper. The fixed exposure

ELECTROSTATIC  
EQUIPMENTRadio Corporation of America  
Camden, New Jersey

becomes a bonded, non-fading image. The paper with its image continues on to the machine output mechanism which winds the finished engineering reproductions on the output roll. Reproductions can be cut from the roll as needed.

The entire process, from loading the negatives to rolling up the finished drawings, is completed at the rate of one film every four seconds.

The machine is operated from a single, centralized push-button control panel. In this panel is a series of signal lights which will indicate trouble spots in any major operating area of the system.

Specifications  
of the  
RCA Bizmac Microfilm Enlarger

## Electrical:

Line voltage	230 volts, 3-wire single phase
Line frequency	60 cycles
Line current	44 amperes
Power (approximately)	10 kilowatts

## Mechanical:

Height	56 inches
Width	49 inches
Length	120 inches
Weight	3500 pounds

The cost of the Bizmac Microfilm Enlarger is approximately \$60,000.00. A firm quotation may be had by applying directly to the manufacturer.

# THERMO-FAX

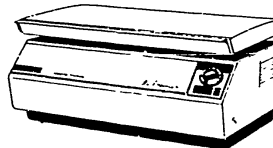
Minnesota Mining and Manufacturing Co.  
St. Paul, Minnesota

Thermo-Fax is a dry process, office-type machine in which exposing and developing are done simultaneously with radiant heat. The Thermo-Fax machine uses a special paper with a wax-like coating on one side.

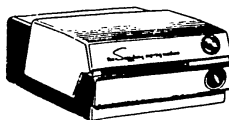
This process operates in the following manner. The copy paper is placed on top of the original with the coated side towards the copy, and the two sheets are placed in the machine. An infrared light source sends rays through the copy paper to the original. The black image on the surface of the original absorbs more radiant energy than the white areas, and thus the temperature is increased slightly in image areas. This temperature rise affects the coating of the copy sheet and turns it black in the image area. This produces a readable image. The image is a right reading positive image when viewed through the translucent paper.



"The Fourteen"  
Model 28



"The Premier"  
Model 19



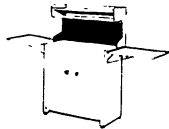
"The Secretary"  
Model 17J

SKETCHES OF THE THREE MODELS OF THE THERMO-FAX

## THERMO-FAX

Minnesota Mining and Manufacturing Co.  
St. Paul, Minnesota

The Model 20 of the Thermo-Fax line is the larger and more expensive of the machines. The maximum size copy is 14 inches in width. The Model 19 is principally for the purpose of copying pages in books and periodicals although sheets may also be copied with this machine. The maximum size copy is 8-1/2 by 14 inches. The Model 17J is the smallest and least expensive of the line. The maximum size copy is 8-1/2 inches in width.



CABINET STAND FOR COPYING MACHINES WITH CABINET SHELF UNIT ATTACHED

The above drawing shows the cabinet stand for copying machines with the cabinet shelf unit attached. This shelf unit attaches to the back of the stand and keeps copy paper at work-level height. The cabinet stand for "The Secretary" is exactly like this except it is smaller in width and it does not have the doors on the front of the cabinet.

## THERMO-FAX

Minnesota Mining and Manufacturing Co.  
St. Paul, Minnesota

## Price List of Thermo-Fax Machines and Accessories

Secretary, Model 17J . . . . .	\$329.00
Operates from 110 volt ac circuits.	
Approximate size:	17 inches wide
	8 inches high
	17 inches deep
Maximum size copy:	8-1/2 by 14 inches
	(8-1/2 inch width)
The Fourteen Model 20 . . . . .	\$429.00
Operates from 220 volt ac circuits.	
Approximate size:	27 inches wide
	11 inches high
	17 inches deep
Maximum size copy:	14 by 17 inches
	(14 inch width)
The Premier Model 19 . . . . .	\$429.00
Operates from 110 or 220 volt ac circuits.	
Approximate size:	27 inches wide
	11 inches high
	17 inches deep
Maximum size copy:	8-1/2 by 14 inch area
Cabinet Stand for Model 17J . . . . .	\$ 35.00
Overall size:	17 inches wide
	48 inches high
	10 inches deep
Cabinet Stand for Model 19 or 20 . . . . .	\$ 70.00
Overall size:	29 inches wide
	48 inches high
	10 inches deep
Cabinet Shelf Unit for Cabinet . . . . .	\$ 16.00
Thermo-Fax Belt Cleaner . . . . .	\$ 1.00
Screen Carriers:	
	8-1/2 x 11 inch 1.20
	8-1/2 x 14 inch 1.35
	14 x 17 inch 1.68
No. 329 Special T-F Ball Point Pen . . . . .	.39
No. 426 Special T-F Red Pencil . . . . .	.10

## THERMO-FAX

Minnesota Mining and Manufacturing Co.  
St. Paul, Minnesota

## Price List of Papers for Thermo-Fax

## Type 11, 17 pound sub. Copy Paper (Buff, Yellow, Pink or Green)

Size	8" x 10 1/2"		8 1/2" x 11"		8 1/2" x 14"	
	Standard Buff Color	Other Colors	Standard Buff Color	Other Colors	Standard Buff Color	Other Colors
Quantity						
Lots of 500 Sheets	\$5.00/C	\$5.25/C	\$5.05/C	\$5.30/C	\$5.50/C	\$5.78/C
Lots of 2,000 Sheets	4.90/C	5.15/C	4.95/C	5.20/C	5.39/C	5.66/C
Lots of 6,000 Sheets	4.70/C	4.94/C	4.75/C	4.99/C	5.23/C	5.49/C
Lots of 10,000 Sheets	4.50/C	4.73/C	4.54/C	4.77/C	4.95/C	5.18/C
Lots of 50,000 Sheets	4.00/C	4.20/C	4.04/C	4.24/C	4.40/C	4.62/C

## Type 12, 30 pound sub. Copy Paper (Ledger Yellow)

Size	11" x 17"		14" x 17"	
	Ledger Yellow		Ledger Yellow	
Quantity				
Lots of 500 Sheets	\$11.11/C		\$12.10/C	
Lots of 2,000 Sheets	10.91/C		11.87/C	
Lots of 6,000 Sheets	10.46/C		11.51/C	
Lots of 10,000 Sheets	9.98/C		10.89/C	
Lots of 50,000 Sheets	8.88/C		9.68/C	

## Type 14, 17 pound sub. Copy Paper (White)

Size	8" x 10 1/2"		8 1/2" x 11"		8 1/2" x 14"	
	White		White		White	
Quantity						
Lots of 500 Sheets	\$5.50/C		\$5.56/C		\$6.05/C	
Lots of 2,000 Sheets	5.39/C		5.45/C		5.93/C	
Lots of 6,000 Sheets	5.17/C		5.23/C		5.75/C	
Lots of 10,000 Sheets	4.95/C		4.99/C		5.45/C	
Lots of 50,000 Sheets	4.40/C		4.44/C		4.34/C	

Type 14 Copy Paper is also made in a 30 pound sub. but prices are not yet available.

## Type 99 Back-up Paper. (This is not a copy paper. It is used to back-up the 17 lb. sub. paper, if desired.)

Quantity	Stationary Weight-Coated One Side		Card Weight-Size 8 1/2" x 11" Only	
	8 1/2" x 11"	8 1/2" x 14"	Coated One Side	Coated Both Sides
Lots of 500 Sheets	\$2.00/C	\$2.50/C	\$3.00/C	\$3.40/C
Lots of 2,000 Sheets	1.50/C	2.00/C	3.00/C	3.40/C
Lots of 4,000 Sheets	1.50/C	2.00/C	2.00/C	2.50/C

## BLUEPRINTING EQUIPMENT

Except for the continuous processing machines and their accessories, a major portion of the equipment available for use in blueprinting is designed for either whiteprinting (diazol), or offset plate making. The rotary exposure units useful in blueprinting are made primarily for whiteprinting, and the arc light and vacuum frame combination exposure unit useful in blueprinting is made primarily for offset plate making. The mechanical washing and drying units listed in the silver halide wet processing equipment section are also useful for blueprinting. Flat trays, sinks, and other small items for the hand development and washing of blueprints are available from the major suppliers of blueprinting materials, and are also available from a large number of other sources, such as dealers in photographic supplies.

# BLUEPRINTING EQUIPMENT FLAT-BED EXPOSURE UNIT

Remington Rand  
315 Fourth Ave.  
New York 10, N. Y.

This is a box-type with a vacuum frame lid to secure intimate contact between the original and the sensitized paper. Contains a built in set of incandescent lights, set of red safe lights, timer, vacuum gauge, and a light-tight storage drawer.

<u>Vacuum Seal Portagraph</u>	<u>Dimensions</u>	<u>Max. Copy Size</u>
Model G 212	39" x 49" x 36"	30" x 41"
Model G 213	39" x 65" x 48"	42" x 51"

Prices not available.

# BLUEPRINTING EQUIPMENT ROTARY EXPOSURE UNIT "ROTOLITE"

Rotolite Co.  
Stirling, N. J.

This is wall-mounting unit employing fluorescent lighting. It is designed primarily for whiteprinting and is discussed more fully in the Diazo Section.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>18" Model</u>	18" x any length	\$123.00
<u>27" Model</u>	27" x any length	143.00
<u>42" Model</u>	42" x any length	183.00

BLUEPRINTING EQUIPMENT  
ROTARY EXPOSURE UNITS  
REVOLUTE, "MODELS 4 & 5"

Paragon Revolute Corp.  
77 South Ave.  
Rochester 4, N. Y.

Model No. 4 uses a quartz (mercury vapor) tube and Model No. 5 uses 3 fluorescent tubes.

	<u>Max. Copy Size</u>	<u>Basic Price</u>
<u>Model 4</u>	42" x any length	\$3,575.00
<u>Model 4</u>	54" x any length	4,675.00
<u>Model 5</u>	42" x any length	1,800.00
<u>Model 5</u>	54" x any length	2,225.00

BLUEPRINTING EQUIPMENT  
CONTINUOUS PRINTING  
MACHINES

C. F. Pease Co.  
2601 West Irving Park Road  
Chicago 18, Ill.

Paragon Revolute Corporation  
77 South Ave.  
Rochester 4, N. Y.

These machines are large and expensive and are best used for continuous large scale production. They require a minimum floor space of 15 x 20 feet. They handle paper rolls only, use rotary printing units with quartz lamps, and can also be used to make Brownprints, Kodak Autopositives and moist diazo. Their cost depending on the model and accessories desired ranges from \$8,000 to \$12,000.

BLUEPRINTING EQUIPMENT  
ROTARY EXPOSURE UNIT  
P & H., "COPYMASTER"  
AND "SPEEDMASTER"

Peck and Harvey Sales Corp.  
5650 N. Western Ave.  
Chicago 45, Ill.

Frederick Post Co.  
3650 N. Avondale Ave.  
Chicago 18, Ill.

These are the exposure units of their floor model exposure-developer machines. They are designed primarily for whiteprinting and are discussed more fully in the Diazo Section.

	<u>Max. Print Size</u>	<u>Basic Price</u>
<u>Copymaster</u>	21" x any length	\$765.00
<u>Speedmaster</u>	44" x any length	895.00

BLUEPRINTING EQUIPMENT  
STATIONARY EXPOSURE  
UNITS P & H., "SPEE DEE"

Peck and Harvey Sales Corp.  
5650 N. Western Ave.  
Chicago 45, Ill.

Frederick Post Co.  
3650 N. Avondale Ave.  
Chicago 18, Ill.

The "Spec Dee" Whiteprinter is designed primarily for diazotype materials and is discussed more fully in that section of the manual.

	<u>Max. Print Size</u>	<u>Basic Price</u>
<u>Model No. 1</u>	12" x 18"	\$ 79.50
<u>Model No. 2</u>	18" x 24"	99.50
<u>Model No. 3</u>	24" x 36"	149.50

## BLUEPRINTING MATERIALS

Blueprinting papers and supplies are available nationally from the following suppliers:

Keuffel and Esser Company  
Adams and Third Streets  
Hoboken, New Jersey

Frederick Post Company  
3650 N. Avondale Ave.  
Chicago 18, Ill.

C. F. Pease Co.  
2601 West Irving Park Road  
Chicago 18, Ill.

Paragon Revolute Corp  
77 South Ave.  
Rochester 4, New York

These papers and supplies are also available locally from dealers with offices in most principal cities.

General Purpose Paper: 50% rag, 50 yard rolls, opaque

Thin:	24 in. wide	\$ 3.70
	30	4.10
	42	5.20
Medium:	24 in. wide	3.90
	36	5.05
	54	8.45
Thick:	24 in. wide	4.40
	36	5.60
	54	9.45

Continuous Tone Paper: 50% rag, 50 yard rolls recommended for printing from film negatives, opaque

Medium:	36 in. wide	4.75
	42	5.50

Special Air Mail Paper: 100% rag, 50 yard roll, opaque, recommended for air mail, excellent for sun frame printing

Extra thin:	30 in. wide	6.70
	36	8.00
	42	9.10
Thin:	24 in. wide	5.00
	36	6.65
	54	9.95

Cloth: 50 yard rolls, opaque, for blueprint machine and sun frame use

30 in. wide	83.10
36	90.70
42	98.25

## BLUEPRINTING MATERIALS

Available from dealers listed on previous page

Cloth: 50 yard rolls, opaque, for rough handling or outdoor use

30 in. wide	\$ 77.95
42	92.10
54	125.00

Developer: (Bachromate of Potash)

1 lb.	\$ 0.80
10 lb.	5.60
100 lb.	45.00

Writing Fluid:

White, red, yellow, or green	\$ 0.20 per 3/4 oz. bottle
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Sensitizing Chemicals:

Enough to make one gallon	\$ 10.00
Enough to make five gallons	80.00



## BROWNPRINTING EQUIPMENT

The equipment for exposing, developing, washing, and drying of brownprints is the same as that described for blueprints. Brownprinting is usually a hand operation; however, it can be done on continuous blueprinting machines.

Brownprint materials are available from the suppliers listed above for blueprint materials.

Transparentized Paper: 100% rag, 50 yard rolls, recommended for general use

Thin:	30 in. wide	\$ 15.80
	36	17.75
	42	20.05

Naturally Transparent Paper: 100% rag, 50 yard rolls

Thin (for intermediate negatives):	30 in. wide	11.35
	42	15.60
	54	23.55

Medium (for brownline prints):	30 in. wide	12.50
	42	16.75
	54	26.65

Opaque Cloth: 50 yard rolls, recommended for rough handling

Thin:	30 in. wide	98.25
	36	109.55
	42	117.10

Glass Cloth: 20 yard rolls, recommended for second originals of high transparency and dimensional stability

	36 in. wide	243.00
	48	324.00

Sensitizing Chemicals:

Enough to make one gallon	20.00
Enough to make five gallons	80.00

Fixing Salts:

1/4 lb.	0.30
1 lb.	0.75
50 lb.	21.00
100 lb.	40.00

Erasing Fluid:

1/4 oz.	0.20
1/2 gallon	4.25

## BROWNPRINTING EQUIPMENT

Blackest Ink:

1/4 oz.	\$0.25
8 oz.	1.60
16 oz.	2.50

#### Diazotype Papers

The following table lists the common diazo papers, cloths, and foils together with the catalogue numbers assigned to these various products by the principal manufacturers.

Azon Corporation, Binghamton, N. Y.  
 Charles Bruning Co., Inc., 4700 Montrose Ave., Chicago 41, Ill.  
 Eugene Dietzgen Co., 2425 North Sheffield Ave., Chicago 14, Ill.  
 B. K. Elliott Co., 128 Sixth Street, Pittsburgh 22, Penna.  
 Keuffel & Esser Co., Hoboken, New Jersey  
 Osalid, Div. of General Aniline & Film Corp., Johnson City, N. Y.  
 C. F. Pease Co., 2601 W. Irving Park Rd., Chicago 18, Ill.  
 Frederick Post Co., 3650 North Avondale Ave., Chicago 18, Ill.  
 Reproduction Products Co., 9000 King, Franklin Park, Ill.  
 (Factory in Detroit, Michigan)  
 Technifax Corporation, 195 Appleton St., Holyoke, Mass.

In addition to these companies, whose catalogues of papers were readily available, other companies who also manufacture diazo papers are:

Adelphi Research & Mfg. Co., 3745 North Second, Phila., Pa.  
 American Writing Paper Corp., 10 Eagle-A Ave., Holyoke, Mass.  
 H. Cole Company, 82 North High Street, Columbus 15, Ohio  
 Commercial Blue Print Co., Inc., 298 Main St., Buffalo, N. Y.  
 Crofoot, Nielsen & Co., 205 Wacker Drive, Chicago, Illinois  
 Cushing & Company, Inc., 139 North Clark Street, Chicago, Illinois  
 Dieterich Post Co., 15 First Street, San Francisco, Calif.  
 Eastman Kodak Co., T. R. Bldg., Rochester, N. Y.  
 Huey Company, 17 S. Wabash Avenue, Chicago, Illinois  
 Indianapolis Blue Print & Litho Co., Inc., 600 East Ohio, Indianapolis, Ind.  
 Johnson, Jno., J., 1912 N. St. Paul Street, Dallas, Texas  
 Keystone Blue Paper Co., 51 N. 13th St., Philadelphia, Pa.  
 A. Lietz Co., 840 Post Street, San Francisco 9, Calif.  
 Mosner, Alfred Co., 108 W. Lake Street, Chicago, Illinois  
 National Blue Print Co., 517 W. Adams St., Chicago, Illinois  
 Neenah Paper Company, Neenah, Wisconsin  
 Ogilvie Press, Inc., 693 Fulton Street, Brooklyn, N. Y.  
 Rapid Blue Print Co., 819 Santee, Los Angeles, California  
 L. L. Ridgway Co., 277 Broadway, New York, New York  
 H. A. Rogers Co., 815 Marquette Avenue, Minneapolis, Minn.  
 Shaw Blue Print Machine Co., Inc., 12 East Park Street, Newark 2, N. J.  
 Spaulding-Moss Co., 42 Franklin, Boston 10, Mass.  
 Speidel & Company, Chas. W., 614 Baltimore Avenue, Fernwood, Pa.  
 Stanpat Company, 150-44 12th Road, Whitestone, N. Y.  
 Stan-Tone Reproduction Materials, 209 Jefferson Ave., Scranton, Pa.  
 U. S. Blue Print Paper Co., 201 S. Wabash Avenue, Chicago, Illinois  
 Universal Blueprint Paper Co., 318 Bryan, Fort Worth, Texas  
 Weil, J. H. & Company, 1321 Cherry, Philadelphia, Pa.  
 Whiting Paper Company, Gatehouse Road, Holyoke, Mass.

These papers are supplied in a large variety of sizes of cut sheets as well as rolls. The prices charged by all companies are approximately the same, although they will vary slightly. In the column to the right of the catalogue numbers are listed average prices of representative sizes and quantities.

Most manufacturers of papers also supply a complete line of accessories for use in the diazo processes such as:

Erasing and Correction Solutions  
Transparentizing Solutions  
Developers  
Plastic Foil Cleaners  
Typewriter Ribbons  
Carbon Papers  
Stamp Pad Ink  
Patching Tape, and others.

TABLE OF DIAZOTYPE MANUFACTURERS' COMPARATIVE CATALOGUE NUMBERS FOR PAPERS AND FILMS

Material	Manufacturer										Average Cost		
	E. I. du Pont	Eastman	Chemical	Photo	F. W. Wooler	Kodak	Mansell	Rohrbaugh	Rohrbaugh	Rohrbaugh	5.0" x 7.0"		
											200	250	300
Ammonium-Chloride Paper, Blue Line													
Blue paper													
Light weight, 12 pound	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard weight, 12 pound	2417	3614	3615	3617	4617	3618	3619	3620	3621	3622	3623	-	-
Heavy weight, 12 pound	2418	3616	3617	3618	4618	3619	3620	3621	3622	3623	3624	-	-
Light weight, 15 pound	2419	3617	3618	3619	4619	3620	3621	3622	3623	3624	3625	-	-
Standard weight, 15 pound	2420	3618	3619	3620	4620	3621	3622	3623	3624	3625	3626	-	-
Heavy weight, 15 pound	2421	3619	3620	3621	4621	3622	3623	3624	3625	3626	3627	-	-
Light weight, 18 pound	2422	3620	3621	3622	4622	3623	3624	3625	3626	3627	3628	-	-
Standard weight, 18 pound	2423	3621	3622	3623	4623	3624	3625	3626	3627	3628	3629	-	-
Heavy weight, 18 pound	2424	3622	3623	3624	4624	3625	3626	3627	3628	3629	3630	-	-
Light weight, 21 pound	2425	3623	3624	3625	4625	3626	3627	3628	3629	3630	3631	-	-
Standard weight, 21 pound	2426	3624	3625	3626	4626	3627	3628	3629	3630	3631	3632	-	-
Heavy weight, 21 pound	2427	3625	3626	3627	4627	3628	3629	3630	3631	3632	3633	-	-
Light weight, 24 pound	2428	3626	3627	3628	4628	3629	3630	3631	3632	3633	3634	-	-
Standard weight, 24 pound	2429	3627	3628	3629	4629	3630	3631	3632	3633	3634	3635	-	-
Heavy weight, 24 pound	2430	3628	3629	3630	4630	3631	3632	3633	3634	3635	3636	-	-
Light weight, 27 pound	2431	3629	3630	3631	4631	3632	3633	3634	3635	3636	3637	-	-
Standard weight, 27 pound	2432	3630	3631	3632	4632	3633	3634	3635	3636	3637	3638	-	-
Heavy weight, 27 pound	2433	3631	3632	3633	4633	3634	3635	3636	3637	3638	3639	-	-
Light weight, 30 pound	2434	3632	3633	3634	4634	3635	3636	3637	3638	3639	3640	-	-
Standard weight, 30 pound	2435	3633	3634	3635	4635	3636	3637	3638	3639	3640	3641	-	-
Heavy weight, 30 pound	2436	3634	3635	3636	4636	3637	3638	3639	3640	3641	3642	-	-
Light weight, 33 pound	2437	3635	3636	3637	4637	3638	3639	3640	3641	3642	3643	-	-
Standard weight, 33 pound	2438	3636	3637	3638	4638	3639	3640	3641	3642	3643	3644	-	-
Heavy weight, 33 pound	2439	3637	3638	3639	4639	3640	3641	3642	3643	3644	3645	-	-
Light weight, 36 pound	2440	3638	3639	3640	4640	3641	3642	3643	3644	3645	3646	-	-
Standard weight, 36 pound	2441	3639	3640	3641	4641	3642	3643	3644	3645	3646	3647	-	-
Heavy weight, 36 pound	2442	3640	3641	3642	4642	3643	3644	3645	3646	3647	3648	-	-
Light weight, 39 pound	2443	3641	3642	3643	4643	3644	3645	3646	3647	3648	3649	-	-
Standard weight, 39 pound	2444	3642	3643	3644	4644	3645	3646	3647	3648	3649	3650	-	-
Heavy weight, 39 pound	2445	3643	3644	3645	4645	3646	3647	3648	3649	3650	3651	-	-
Light weight, 42 pound	2446	3644	3645	3646	4646	3647	3648	3649	3650	3651	3652	-	-
Standard weight, 42 pound	2447	3645	3646	3647	4647	3648	3649	3650	3651	3652	3653	-	-
Heavy weight, 42 pound	2448	3646	3647	3648	4648	3649	3650	3651	3652	3653	3654	-	-
Light weight, 45 pound	2449	3647	3648	3649	4649	3650	3651	3652	3653	3654	3655	-	-
Standard weight, 45 pound	2450	3648	3649	3650	4650	3651	3652	3653	3654	3655	3656	-	-
Heavy weight, 45 pound	2451	3649	3650	3651	4651	3652	3653	3654	3655	3656	3657	-	-
Light weight, 48 pound	2452	3650	3651	3652	4652	3653	3654	3655	3656	3657	3658	-	-
Standard weight, 48 pound	2453	3651	3652	3653	4653	3654	3655	3656	3657	3658	3659	-	-
Heavy weight, 48 pound	2454	3652	3653	3654	4654	3655	3656	3657	3658	3659	3660	-	-
Light weight, 51 pound	2455	3653	3654	3655	4655	3656	3657	3658	3659	3660	3661	-	-
Standard weight, 51 pound	2456	3654	3655	3656	4656	3657	3658	3659	3660	3661	3662	-	-
Heavy weight, 51 pound	2457	3655	3656	3657	4657	3658	3659	3660	3661	3662	3663	-	-
Light weight, 54 pound	2458	3656	3657	3658	4658	3659	3660	3661	3662	3663	3664	-	-
Standard weight, 54 pound	2459	3657	3658	3659	4659	3660	3661	3662	3663	3664	3665	-	-
Heavy weight, 54 pound	2460	3658	3659	3660	4660	3661	3662	3663	3664	3665	3666	-	-
Light weight, 57 pound	2461	3659	3660	3661	4661	3662	3663	3664	3665	3666	3667	-	-
Standard weight, 57 pound	2462	3660	3661	3662	4662	3663	3664	3665	3666	3667	3668	-	-
Heavy weight, 57 pound	2463	3661	3662	3663	4663	3664	3665	3666	3667	3668	3669	-	-
Light weight, 60 pound	2464	3662	3663	3664	4664	3665	3666	3667	3668	3669	3670	-	-
Standard weight, 60 pound	2465	3663	3664	3665	4665	3666	3667	3668	3669	3670	3671	-	-
Heavy weight, 60 pound	2466	3664	3665	3666	4666	3667	3668	3669	3670	3671	3672	-	-
Light weight, 63 pound	2467	3665	3666	3667	4667	3668	3669	3670	3671	3672	3673	-	-
Standard weight, 63 pound	2468	3666	3667	3668	4668	3669	3670	3671	3672	3673	3674	-	-
Heavy weight, 63 pound	2469	3667	3668	3669	4669	3670	3671	3672	3673	3674	3675	-	-
Light weight, 66 pound	2470	3668	3669	3670	4670	3671	3672	3673	3674	3675	3676	-	-
Standard weight, 66 pound	2471	3669	3670	3671	4671	3672	3673	3674	3675	3676	3677	-	-
Heavy weight, 66 pound	2472	3670	3671	3672	4672	3673	3674	3675	3676	3677	3678	-	-
Light weight, 69 pound	2473	3671	3672	3673	4673	3674	3675	3676	3677	3678	3679	-	-
Standard weight, 69 pound	2474	3672	3673	3674	4674	3675	3676	3677	3678	3679	3680	-	-
Heavy weight, 69 pound	2475	3673	3674	3675	4675	3676	3677	3678	3679	3680	3681	-	-
Light weight, 72 pound	2476	3674	3675	3676	4676	3677	3678	3679	3680	3681	3682	-	-
Standard weight, 72 pound	2477	3675	3676	3677	4677	3678	3679	3680	3681	3682	3683	-	-
Heavy weight, 72 pound	2478	3676	3677	3678	4678	3679	3680	3681	3682	3683	3684	-	-
Light weight, 75 pound	2479	3677	3678	3679	4679	3680	3681	3682	3683	3684	3685	-	-
Standard weight, 75 pound	2480	3678	3679	3680	4680	3681	3682	3683	3684	3685	3686	-	-
Heavy weight, 75 pound	2481	3679	3680	3681	4681	3682	3683	3684	3685	3686	3687	-	-
Light weight, 78 pound	2482	3680	3681	3682	4682	3683	3684	3685	3686	3687	3688	-	-
Standard weight, 78 pound	2483	3681	3682	3683	4683	3684	3685	3686	3687	3688	3689	-	-
Heavy weight, 78 pound	2484	3682	3683	3684	4684	3685	3686	3687	3688	3689	3690	-	-
Light weight, 81 pound	2485	3683	3684	3685	4685	3686	3687	3688	3689	3690	3691	-	-
Standard weight, 81 pound	2486	3684	3685	3686	4686	3687	3688	3689	3690	3691	3692	-	-
Heavy weight, 81 pound	2487	3685	3686	3687	4687	3688	3689	3690	3691	3692	3693	-	-
Light weight, 84 pound	2488	3686	3687	3688	4688	3689	3690	3691	3692	3693	3694	-	-
Standard weight, 84 pound	2489	3687	3688	3689	4689	3690	3691	3692	3693	3694	3695	-	-
Heavy weight, 84 pound	2490	3688	3689	3690	4690	3691	3692	3693	3694	3695	3696	-	-
Light weight, 87 pound	2491	3689	3690	3691	4691	3692	3693	3694	3695	3696	3697	-	-
Standard weight, 87 pound	2492	3690	3691	3692	4692	3693	3694	3695	3696	3697	3698	-	-
Heavy weight, 87 pound	2493	3691	3692	3693	4693	3694	3695	3696	3697	3698	3699	-	-
Light weight, 90 pound	2494	3692	3693	3694	4694	3695	3696	3697	3698	3699	3700	-	-
Standard weight, 90 pound	2495	3693	3694	3695	4695	3696	3697	3698	3699	3700	3701	-	-
Heavy weight, 90 pound	2496	3694	3695	3696	4696	3697	3698	3699	3700	3701	3702	-	-
Light weight, 93 pound	2497	3695	3696	3697	4697	3698	3699	3700	3701	3702	3703	-	-
Standard weight, 93 pound	2498	3696	3697	3698	4698	3699	3700	3701	3702	3703	3704	-	-
Heavy weight, 93 pound	2499	3697	3698	3699	4699	3700	3701	3702	3703	3704	3705	-	-
Light weight, 96 pound	2500	3698	3699	3700	4700	3701	3702	3703	3704	3705	3706	-	-
Standard weight, 96 pound	2501	3699	3700	3701	4701	3702	3703	3704	3705	3706	3707	-	-
Heavy weight, 96 pound	2502	3700	3701	3702	4702	3703	3704	3705	3706	3707	3708	-	-
Light weight, 99 pound	2503	3701	3702	3703	4703	3704	3705	3706	3707	3708	3709	-	-
Standard weight, 99 pound	2504	3702	3703	3704	4704	3705	3706	3707	3708	3709	3710	-	-
Heavy weight, 99 pound	2505	3703	3704	3705	4705	3706	3707	3708	3709	3710	3711	-	-
Light weight, 102 pound	2506	3704	3705	3706	4706	3707	3708	3709	3710	3711	3712	-	-
Standard weight, 102 pound	2507	3705	3706	3707	4707	3708	3709	3710	3711	3712	3713	-	-
Heavy weight, 102 pound	2508	3706	3707	3708	4708	3709	3710	3711	3712	3713	3714	-	-
Light weight, 105 pound	2509	3707	3708	3709	4709	3710	3711	3712	3713	3714	3715	-	-
Standard weight, 105 pound	2510	3708	3709	3710	4710	3711	3712	3713	3714	3715	3716	-	-
Heavy weight, 105 pound	2511	3709	3710	3711	4711	3712	3713	3714	3715	3716	3717	-	-
Light weight, 108 pound	2512	3710	3711	3712	4712	3713	3714	3715	3716	3717	3718	-	-
Standard weight, 108 pound	2513	3711	3712										

TABLE OF DIAZOTYPE MANUFACTURERS COMPARATIVE CATALOGUE NUMBERS FOR RARE AND OBSOLETE

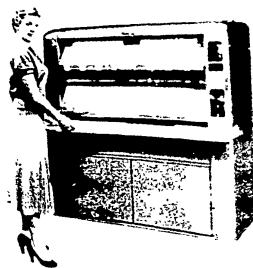
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TABLE OF DIAZOTYPE MANUFACTURE, 1941-1942

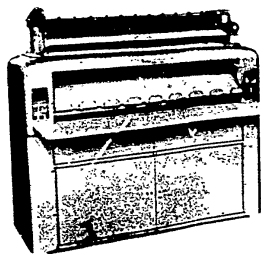
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DIAZOTYPE MACHINES AND ACCESSORIES

The following two pages show photographs of representative machines and accessories available from several different companies. These machines range all the way from small portable units to large floor models weighing a ton or more. The general appearance of the machines of all manufacturers are the same for a given size of equipment.



LARGE SIZED AMMONIA DIAZOTYPE MACHINE  
(Courtesy P & H Sales Corp.)



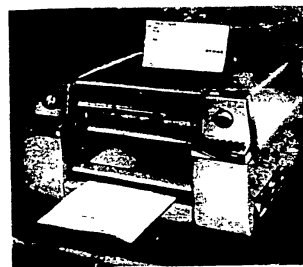
LARGE SIZED FLOOR MODEL MOIST DIAZOTYPE MACHINE  
(Courtesy P & H Sales Corp.)



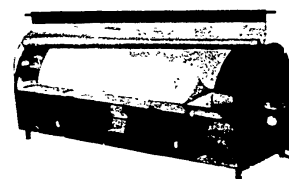
INTERMEDIATE SIZED AMMONIA DIAZOTYPE MACHINE  
(Courtesy P & H Sales Corp.)



SMALL DESK TOP MODEL MOIST DIAZO MACHINE  
(Courtesy Chas. Bruning Co.)



SMALL DESK TOP MODEL DIAZO MACHINE  
(Courtesy Chas. Bruning Co.)



PORTABLE DIAZOTYPE PRINTER  
(Courtesy P & H Sales Corp.)



AMMONIA DEVELOPMENT TUBE  
(Courtesy P & H Sales Corp.)

Charles Bruning Company, Inc.  
4700 Montrose Avenue  
Chicago 41, Illinois

#### MOIST DEVELOPING DIAZOTYPE EQUIPMENT

Model 6 (Table Model - can be used to reproduce either translucent copy or opaque copy)

Copy size, maximum	10 by 15 inches
Printer Unit:	
Exposure time, average	15 seconds
Illumination	1200 watt quartz mercury lamp
Electrical requirements	115 volts
Overall size:	
Width	29 inches
Height	15 inches
Depth	35 inches
Developing Unit:	
Overall size:	
Width	20 inches
Height	4-1/4 inches
Depth	4-3/4 inches
Construction	Steel 2-tone enamel, hammertone finish
Net weight	162 pounds
Cost	\$497.43

Model 110 (Table Model)

Copy width	11 inches
Printing speed	1/2 to 13 feet per minute
Developing speed	1/2 to 13 feet per minute
Illumination	700 watt quartz mercury vapor lamp
Electrical requirements	115 volts
Copy delivery	Rear
Overall size:	
Width	23-1/8 inches
Height	15 inches
Depth	30-1/4 inches
Construction	Steel grey baked enamel hammertone finish
Net Weight	130 pounds
Cost:	
60 cycle voltage	\$560.28
56 cycle voltage	614.78

Charles Bruning Company, Inc.  
4700 Montrose Avenue  
Chicago 41, Illinois

#### MOIST DEVELOPING DIAZOTYPE EQUIPMENT

Model 300 (Table Model)

Copy width	30 inches
Printing speed	1/2 to 9 feet per min.
Developing speed	1/2 to 9 feet per min.
Illumination	1200 watt quartz mercury vapor lamp
Electrical requirements	17.2 amps at 115 volts
Copy delivery	Rear
Overall size:	
Width	45-3/8 inches
Height	15 inches
Depth	31 inches
Construction	Steel, 2-tone hammertone finish
Net weight	290 pounds
Cost:	
60 cycle voltage	\$ 987.58
50 cycle voltage	1,057.58

Model 200 (Floor Model)

Copy width	18-1/2 inches
Printing and developing speed	5/6 to 28 feet per min.
Illumination	1400 watt quartz mercury arc lamp
Electrical requirements	25.9 amps at 115 volts
Overall size:	
Width	48 inches
Height	53-1/2 inches
Depth	43-1/4 inches
Copy delivery	Front
Construction	Steel, 2-tone hammertone finish
Net weight	665 pounds
Cost:	
60 cycle voltage	\$1,615.08
50 cycle voltage	1,710.10

Charles Bruning Company, Inc.  
4700 Montrose Avenue  
Chicago 41, Illinois

## MOIST DEVELOPING DIAZOTYPE EQUIPMENT

Model 30 (Floor Model)	
Copy width	46 inches
Printing and developing speed	12 feet per min. (Max.)
Illumination	2000 watt Vycor lamp
Electrical requirements	26.2 amp. at 220 volts
Overall size:	
Width	70-1/2 inches
Height	56 inches
Depth	57-1/2 inches
Construction	Steel, 2-tone hammertone finish
Net weight	940 pounds
Cost:	
60 cycle voltage, rear delivery	\$1,721.09
60 cycle voltage, front delivery	2,014.22
50 cycle voltage, rear delivery	1,980.10
50 cycle voltage, front delivery	2,273.75
Model 250 (Floor Model)	
Copy width	18-1/2 inches
Printing and developing speed	5/6 to 28 feet per min.
Illumination	2200 watt quartz mercury vapor lamp
Electrical requirements	20 amp. at 220 volts
Copy delivery	Front
Overall size:	
Width	48 inches
Height	53-1/2 inches
Depth	43-1/4 inches
Construction	Steel, 2-tone hammertone finish
Net weight	665 pounds
Cost:	
60 cycle voltage	\$1,815.08
50 cycle voltage	1,975.10

Charles Bruning Company, Inc.  
4700 Montrose Avenue  
Chicago 41, Illinois

## MOIST DEVELOPING DIAZOTYPE EQUIPMENT

Model 210 (Floor Model)	
Copy width	46 inches
Printing speed	1/2 to 13-5/6 feet per minute
Developing speed	1/2 to 13-5/6 feet per minute
Illumination	1400 watt quartz mercury arc lamp
Electrical requirements	20 amps at 115 volts
Overall size:	
Width	70-1/2 inches
Height	56 inches
Depth	57-1/2 inches
Construction	Steel, 2-tone hammertone finish
Net weight	900 pounds
Cost:	
60 cycle voltage, front delivery	\$1,823.89
50 cycle voltage, front delivery	2,083.75
50 cycle voltage, rear delivery	1,790.10
Model 35 (Floor Model)	
Copy width	46 inches
Printing and developing speed	30 feet per min. (Max.)
Illumination	3000 watt quartz mercury vapor lamp
Electrical requirements	37.8 amps at 220 volts
Overall size:	
Width	70-1/2 inches
Height	65-1/2 inches
Depth	65-1/2 inches
Copy delivery	Front
Construction	Steel, gray hammertone finish
Net weight	950 pounds
Cost:	
60 cycle voltage	\$2,241.25
50 cycle voltage	2,361.60
Rear delivery tray (additional cost)	31.50



Charles Bruning Company, Inc.  
4700 Montrose Avenue  
Chicago 41, Illinois

#### MOIST DEVELOPING DIAZOTYPE EQUIPMENT

Model 500 (Floor Model)

Copy width	46 - 54 inches
Printing and developing speed	40 feet per min. (Max.)
Illumination	4000 watt quartz mercury vapor lamp
Electrical requirements	44.3 amps at 220 volts
Overall size:	
Width	68-1/2 inches
Height	71-1/2 inches
Depth	71-1/2 inches
Copy delivery	Rear
Construction	Steel, gray baked enamel hammertone finish
Net weight	1650 pounds
Cost:	
60 cycle voltage, 46" width	\$3,311.05
60 cycle voltage, 54" width	5,966.33
50 cycle voltage, 46" width	3,731.05
46" width:	
Tracing stacking tray	132.81
Front print stacking tray	176.27
Roll-up attachment	261.26
54" width:	
Tracing stacking tray	203.58
Front print stacking tray	266.65

Model 550 (Floor Model)

Copy width	46 inches
Printing and developing speed	40 feet per min. (Max.)
Illumination	5000 watt quartz mercury vapor lamp, with switch for 4000 or 5000 watt operation
Electrical requirements	44.3 amps at 220 volts
Overall size:	
Width	68-1/2 inches
Height	71-1/2 inches
Depth	71-1/2 inches
Copy delivery	Rear
Construction	Steel, gray baked enamel, hammertone finish
Net weight	1650 pounds
Cost:	
60 cycle voltage (including tracing stacking tray)	\$4,811.05
Front print stacking tray	196.27

Charles Bruning Company, Inc.  
4700 Montrose Avenue  
Chicago 41, Illinois

#### MOIST DEVELOPING DIAZOTYPE EQUIPMENT

Model 60 (Floor model, built especially for 8-1/2 x 11 inch letter size copy. The machine prints, cuts and stacks copy automatically.)

Copy width	8-1/2 inches
Printing and developing speed	700 to 1500 copies per hour
Illumination	1000 watt quartz mercury vapor lamp
Electrical requirements	23.6 amps at 220 volts
Overall size:	
Width	28 inches
Height	48 inches
Depth	77 inches
Construction	Steel, gray baked enamel finish
Net weight	1450 pounds
Cost:	
60 cycle voltage	\$7,541.25

#### SCHEDULE OF RATES PER YEAR FOR MACHINE MAINTENANCE

Model Numbers	Monthly Calls	Quarterly Calls
100	\$ 70.00	\$ 30.00
500, 550	215.00	90.00
93	240.00	100.00
35, 30, 20	145.00	60.00
250, 200	135.00	55.00
6	85.00	35.00

P & H Sales Corporation  
Representing  
Peck & Harvey Manufacturing Corp.  
6 North Western Avenue  
Chicago 45, Illinois

## AMMONIA DEVELOPING DIAZOTYPE EQUIPMENT

## Copymaster Model 1400 (Table or floor models)

Copy width	20 inches
Printing and developing speed	30 feet per min. (Max.)
Illumination	1500 watt quartz mercury vapor lamp
Electrical requirements	25 amps at 110 volts
Copy delivery	Front
Construction	Steel, gray hammertone finish

	Table Model 1400T	Floor Model 1400T
--	-------------------	-------------------

Overall size:		
Width	36 inches	36 inches
Height	33 inches	62 inches
Depth	34 inches	34 inches
Net weight	300 pounds	400 pounds
Cost	\$1,195.00	\$1,295.00

## Speedmaster Model 1400C (Table or floor models)

Copy width	44 inches
Printing and developing speed	40 feet per min. (Max.)
Illumination	4000 watt quartz mercury vapor lamp
Electrical requirements	26 amps. at 110 volts
Copy delivery	Front
Construction	Steel, gray hammertone finish

	Table Model 1400CT	Floor Model 1400C
--	--------------------	-------------------

Overall size:		
Width	60 inches	60 inches
Height	33 inches	62 inches
Depth	34 inches	34 inches
Net weight	600 pounds	700 pounds
Cost	\$1,295.00	\$1,395.00

P & H Sales Corporation  
Representing  
Peck & Harvey Manufacturing Corp.  
56 North Western Avenue  
Chicago 45, Illinois

## PRINTERS ONLY

## Speedmaster Model 1400P (Table Model)

Copy width	44 inches
Printing speed	14 feet per min. (Max.)
Illumination	1500 watt quartz mercury vapor lamp
Electrical requirements	110 volts
Copy delivery	Front
Construction	Steel, gray hammertone finish
Overall size:	
Width	60 inches
Height	20 inches
Depth	34 inches
Net weight	270 pounds
Cost	\$895.00

## AMMONIA DEVELOPING DIAZOTYPE EQUIPMENT

## Arrow Model

Copy width	26 inches
Printing and developing speed	75 feet per minute (Max.)
Illumination	2750 watt quartz mercury vapor lamp
Electrical requirements	24 amps at 220 volts
Copy delivery	Front or rear
Construction	Jig-drilled aluminum castings and framework. Light-gray baked finish

Overall size:	
Width	50 inches
Height	60 inches
Depth	42 inches
Net weight	900 pounds
Cost	\$2,995.00

Accessories:	
Storage cabinet under feed	
table for roll stock	100.00
Automatic rewind	150.00
Hi-Lo lamp switch	150.00

P & H Sales Corporation  
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Peck & Harvey Manufacturing Corp.  
56 North Western Avenue  
Chicago 45, Illinois

# MOIST DEVELOPMENT DIAZOTYPE EQUIPMENT

Copymaster (Floor and Table Models)		
Copy width	20 inches	
Printing speed	30 feet per minute	
Developing Speed	10 feet per minute (Max.)	
Electrical requirements	110 volts	
Illumination	1400 watt quartz mercury vapor lamp	
	Table Model 1400TM	Floor Model 1400FM
Overall Size:		
Width	36 inches	36 inches
Height	30 inches	59 inches
Depth	34 inches	34 inches
Cost	\$935.00	\$1,035.00

Speedmaster (Floor and Table Models)		
Copy width	44 inches	
Printing speed	14 feet per minute	
Developing speed	10 feet per minute (Max.)	
Illumination	1400 watt quartz mercury vapor lamp	
Electrical requirements	110 volts	
	Table Model 1400PM	Floor Model 1400CM
Overall size:		
Width	60 inches	60 inches
Height	39 inches	59 inches
Depth	39 inches	34 inches
Cost	\$1,295.00	\$1,395.00

## ACCESSORIES

Plastic covers for all Speedmasters	\$ 10.00
Plastic covers for all Copymasters	7.50
Wind-up accessory, all models	150.00

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Peck & Harvey Manufacturing Corp.  
56 North Western Avenue  
Chicago 45, Illinois

# PRINTERS ONLY

Portoprinter 1400PP (Table Model)	
Copy width	20 inches
Printing speed	30 feet per min. (Max.)
Illumination	1500 watt quartz mercury vapor lamp
Electrical requirements	110 volts
Copy delivery	Front
Construction	Steel, gray hammertone finish
Overall size:	
Width	21 inches
Height	20 inches
Depth	36 inches
Net weight	230 pounds
Cost	\$755.00

# AMMONIA DEVELOPING UNITS ONLY

Speedmaster Model 20 (Table Model)	
Copy width	20 inches
Developing speed	10 feet per min.
Electrical requirements	4-1/2 amps at 110 volts
Copy delivery	Front
Construction	Steel, gray hammertone finish
Overall size:	
Width	36 inches
Height	19-1/2 inches
Depth	20-1/2 inches
Cost	\$695.00

Speedmaster Model 40 (Table Model)	
Copy width	44 inches
Developing speed	10 feet per min.
Electrical requirements	6-1/2 amps at 110 volts
Copy delivery	Front
Construction	Steel, gray hammertone finish
Overall size:	
Width	60 inches
Height	19-1/2 inches
Depth	20-1/2 inches
Cost	\$795.00

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Representing  
Peck & Harvey Manufacturing Corp.  
56 North Western Avenue  
Chicago 45, Illinois

#### PORTABLE AMMONIA DEVELOPING UNITS ONLY

Amino Tube	26 inch size	\$23.50
	42 inch size	25.00

#### MOIST DEVELOPERS ONLY

Harvey Moist Developer, Model "H" (Hand Operated)		
Copy width	24 inches	
Copy delivery	Front	
Construction	Aluminum end castings, stainless steel rolls	
Overall size:		
Width	36 inches	
Height	13 inches	
Depth	14 inches	
Net weight	44 pounds	
Cost	\$125.00	

Harvey Moist Developer, Model "H" (Motor Driven)  
(Same developer as listed above)

Overall width	39 inches
Net weight	49 pounds
Cost	\$155.00

Harvey Moist Developer, Model "H" (Motor Driven)  
(Similar to developer listed above)

Copy width	42 inches
Overall width	55 inches (approx.)
Cost	\$245.00

#### INITIAL DEVELOPING KIT

The initial developing kit is for moist process hand developing. It contains six large blotters, one storage bottle, sponge, dish, can of developer, and a supply of sensitized paper. This kit is sold only with Spec-Dee printers.

P & H Sales Corporation  
Representing  
Peck & Harvey Manufacturing Corp.  
56 North Western Avenue  
Chicago 45, Illinois

#### PORTABLE PRINTERS ONLY

Spec-Dee Printer, No. 1	12 x 18 inches
Copy size	3 - 500 watt bulbs
Illumination	110 volts
Electrical requirements	Steel, gray-green baked tone finish
Construction	

Overall size:	28 inches
Width	17 inches
Height	15 inches
Depth	19 pounds
Net weight	\$79.50
Cost	

Spec-Dee Printer, No. 2	18 x 24 inches
Copy size	4 - 500 watt bulbs
Illumination	20 amps at 110 volts
Electrical requirements	Steel, gray-green baked tone finish
Construction	

Overall size:	34 inches
Width	17 inches
Height	16 inches
Depth	26 pounds
Net weight	\$99.50
Cost	

Spec-Dee Printer, No. 3	24 x 36 inches
Copy size	4 - 250 watt bulbs and 2 - 500 watt bulbs
Illumination	20 amps at 110 volts
Electrical requirements	Steel, gray-green baked hammettone finish
Construction	

Overall size:	45 inches
Width	16 inches
Height	16 inches
Depth	58 pounds
Net weight	\$149.50
Cost	

All portable printers are equipped with automatic timers.

P & H Sales Corporation  
Representing  
Peck & Harvey Manufacturing Corp.  
56 North Western Avenue  
Chicago 45, Illinois

## PORTABLE DIAZOTYPE SETS

1A	12" x 18" Spee-Dee Printer with Initial Kit . . . . .	\$ 83.50
1B	12" x 18" Spee-Dee Printer with 24" Moist Developer (Hand) . . . . .	204.50
1C	12" x 18" Spee-Dee Printer with 26" Ammo Tube Developer . . . . .	103.00
2A	18" x 24" Spee-Dee Printer with Initial Kit . . . . .	103.50
2B	18" x 24" Spee-Dee Printer with 24" Moist Developer (Hand) . . . . .	224.50
2C	18" x 24" Spee-Dee Printer with 26" Ammo Tube Developer . . . . .	123.00
3A	24" x 36" Spee-Dee Printer with Initial Kit . . . . .	155.50
3B	24" x 36" Spee-Dee Printer with 24" Moist Developer (Hand) . . . . .	274.50
3C	24" x 36" Spee-Dee Printer with 42" Ammo Tube Developer . . . . .	174.50
3MD	24" x 36" Spee-Dee Printer with 24" Moist Developer (Motor) . . . . .	304.50

Initial Kit supplied with all above sets.

Oxalid  
Div. General Aniline and Film Corp.  
Johnson City, New York

## AMMONIA DEVELOPING DIAZOTYPE EQUIPMENT

<b>Bambino Model (Table Model)</b>	
Copy width	9 inches
Printing and developing speed	10 feet per min. (Max.)
Illumination	High pressure mercury vapor lamp
Electrical requirements	10 amps at 110 volts
Copy delivery	Rear
Overall size:	
Width	16 inches
Height	13 inches
Depth	12 inches
Construction	Steel
Net Weight	60 pounds
Cost: 60 cycle voltage	\$410.00
50 cycle, 15 volts	10.00 extra
<b>Streamliner 200 (Table Model)</b>	
Copy width	42 inches
Printing and developing speed	12 feet per min. (Max.)
Illumination	High pressure mercury vapor lamp
Electrical requirements	15 amps at 220 volts
Copy delivery	Rear
Overall size:	
Width	58 inches
Height	22 inches
Depth	34 inches
Construction	Steel
Net weight	400 pounds
Cost	\$995.00
<b>Ozomatic (Table Model)</b>	
Copy width	16 inches
Printing and developing speed	30 feet per min. (Max.)
Illumination	1200 watt mercury vapor lamp
Electrical requirements	20 amps at 110 volts
Copy delivery	Front
Overall size:	
Width	28-1/2 inches
Height	27 inches
Depth	35-1/2 inches
Construction	Steel
Net weight	355 pounds
Cost: 60 cycle voltage	\$1,270.00
Equipped with stainless steel belt	1,721.00
50 cycle voltage	30.00 extra

Oxalid  
Div. General Aniline and Film Corp.  
Johnson City, New York

## AMMONIA DEVELOPING DIAZOTYPE EQUIPMENT

<b>Streamliner 400 (Floor Model)</b>	
Copy width	42 inches
Printing and developing speed	24 feet per min. (Max.)
Illumination	2750 watt quartz mercury vapor lamp
Electrical requirements	20 amps at 220 volts
Copy delivery	Front
Overall size:	
Width	63 inches
Height	49 inches
Depth	31 inches
Construction	Steel
Net weight	1040 pounds
Cost	\$2,195.00
<b>Printmaster 810 (Floor Model)</b>	
Copy width	42 inches
Printing and developing speed	40 feet per min. (Max.)
Illumination	High pressure mercury vapor lamp
Electrical requirements	28 amps at 220 volts
Copy delivery	Front
Overall size:	
Width	61 inches
Height	61 inches
Depth	42 inches
Construction	Steel
Net weight	1260 pounds
Cost: (60 cycle voltage)	\$3,495.00
Rewind device for rolls	175.00
Rear stacking table	175.00
50 cycle voltage	135.00 extra

Oxalid  
Div. General Aniline and Film Corp.  
Johnson City, New York

## AMMONIA DEVELOPING DIAZOTYPE EQUIPMENT

<b>Printmaster (Floor Model)</b>	
Copy width	42 to 54 inches
Printing and developing speed	30 feet per min. (Max.)
Illumination	
Electrical requirements:	
42 inch machine	33.5 amps at 220 volts
54 inch machine	52 amps at 220 volts
Copy delivery	Front or rear
Construction	Steel
Net weight:	
42 inch machine	2160 pounds
54 inch machine	2400 pounds
Cost: (60 cycle voltage)	
42 inch machine	\$6,500.00
54 inch machine	7,350.00
Rewind device for rolls	175.00
(50 cycle voltage)	
42 inch machine	150.00 extra
54 inch machine	175.00 extra
<b>Model "J" (Floor Model. Accommodates 16- and 35-mm Oxalid film)</b>	
Printing and developing speed	60 feet per min. (Max.)
Illumination	High pressure mercury lamp
Electrical requirements	11.5 amps at 220 volts
Copy delivery	Spooled, ready for use
Overall size:	
Width	56-5/8 inches
Height	63-1/2 inches
Depth	19-3/8 inches
Construction	Steel
Net weight	850 pounds
Cost	\$6,500.00

Paragon-Revolute Corporation  
77 South Avenue  
Rochester 4, New York

#### AMMONIA DEVELOPMENT DIAZOTYPE EQUIPMENT

**Meteor "40" (Floor Model)**

Copy width	42 inches
Printing and developing speed	14 feet per minute (Max.)
Illumination	2000 watt quartz mercury vapor lamp
Electrical requirements	10.1 amps at 220 volts
Construction	Cast aluminum frame gray hammertone finish
<b>Overall size:</b>	
Width	64-1/2 inches
Height	58-1/2 inches
Depth	37-1/4 inches
Net weight	785 pounds
<b>Cost:</b>	
Front delivery	\$1,750.00
Front and rear delivery	2,000.00
<b>Accessories:</b>	
Developer feed roller	10.00
Paper rod, for roll stock	15.00
Wire paper cutter, for rolls	5.00
Cover for roll stock	30.00
Casters, set of 4	20.00

**Meteor "60" (Floor Model)**

Copy width	42 inches
Printing and developing speed	20 feet per minute (Max.)
Illumination	3000 watt quartz mercury vapor lamp
Electrical requirements	17.4 amps at 220 volts
Construction	Cast aluminum frame, gray hammertone finish
<b>Overall size:</b>	
Width	64-1/2 inches
Height	58-1/2 inches
Depth	37-1/4 inches
Net weight	880 pounds
<b>Cost:</b>	
Front delivery	\$2,250.00
Front and rear delivery	2,500.00
<b>Accessories:</b>	
Cover for roll stock	30.00
Casters, set of 4	20.00

Paragon-Revolute Corporation  
77 South Avenue  
Rochester 4, New York

#### AMMONIA DEVELOPMENT DIAZOTYPE EQUIPMENT

**Revolute Star (Floor Model)**

Copy width	42 inches
Printing and developing speed	45 feet per minute (Max.)
Illumination	4000 watt quartz mercury vapor lamp
Electrical requirements	49.0 amps at 220 volts
Construction	Cast aluminum frames, gray hammertone finish
Copy delivery	Front or rear
<b>Overall size:</b>	
Width	80 inches
Height	71-1/4 inches
Depth	67 inches
Net weight	1500 pounds
<b>Cost:</b>	\$3,800.00
<b>Accessories:</b>	
Light intensity control	175.00
Rear print tray	100.00
Continuous yardage wind-up	175.00
The same machine is available in a 54 inch model.	
<b>Cost</b>	\$4,950.00
<b>Accessories</b>	As above

**Revolute Comet (Floor Model)**

Printing and developing speed	75 feet per minute (Max.)
Copy width	42 inches      54 inches
Electrical requirements	56 amps      57.5 amps
	(at 220 volts)
<b>Overall size:</b>	
Width	76 inches      88 inches
Height	77 inches      77 inches
Depth	51 inches      51 inches
Net weight	1830 pounds      2150 pounds
<b>Cost:</b>	
Equipped with 4000 watt quartz lamp	\$7,200.00      \$8,500.00
Equipped with 5000/2500 watt quartz lamp	7,500.00      8,850.00
Equipped with 7500/3750 watt quartz lamp	8,600.00      --
Equipped with 7500/3750 watt quartz lamp	--      9,400.00
<b>Accessories:</b>	
Continuous yardage wind-up	200.00      200.00

The C. F. Pease Company  
2601 W. Irving Park Road  
Chicago 18, Illinois

**Challenger (Floor Model)**  
Copy width 42 inches  
Printing and developing speed 50 feet per minute (Max.)  
Illumination 4000 watt high pressure mercury quartz vapor lamp  
Electrical requirements 40 amps at 220 volts  
Construction Steel, gray hammerloid enamel finish

**Overall size:**  
Width 73-1/8 inches  
Height 70-5/8 inches  
Depth 46-1/2 inches  
Net weight 1350 pounds  
Cost \$4,250.00

**Accessories:**  
Hi-Lo switch 135.00  
Variac lamp control 200.00  
Variable pitch sequence stacking tracing tray 50.00  
Rear print stacking tray 100.00  
Deluxe rear print stacking tray 200.00  
Front or rear automatic windup device  
Combination paper roll cover and tracing tray 85.00  
Manual reversing switch 50.00  
Automatic safety reversing switch 275.00  
Air filter system for cooling blower 150.00  
Lamp for exposing autpositive type materials (Price on application)

The C. F. Pease Company  
2601 W. Irving Park Road  
Chicago 18, Illinois

**Sparton (Both Table Models)**

These two models are the same size and are alike in all details except:

Sparton	Manual copy separation - requires two step feed
Champion	Automatic copy separation - requires one step feed

**Copy width** 42 inches  
**Printing and developing speed** 1 to 32 feet per minute  
**Illumination** 3000 watt high pressure mercury lamp  
**Electrical requirements** 23 amps at 220 volts  
**Construction** Steel, gray hammerloid enamel finish

**Overall size:**  
Width 63-1/8 inches  
Height 31 inches  
Depth 40-1/8 inches

	Sparton	Champion
Net weight	750 pounds	865 pounds
Cost	\$2,125.00	\$3,295.00
<b>Accessories:</b>		
Deluxe Console-type base	200.00	200.00
Tubular steel stand	75.00	75.00
Front automatic wind-up attachment for rolls	150.00	150.00
Variable pitch sequence stacking tracing tray		50.00
Extra ammonia reservoir and valve	45.00	45.00
Roll stock cut-off	15.00	15.00
Lamp for exposing autpositive type materials		

(Price on application)



The C. F. Pease Company  
2601 W. Irving Park Road  
Chicago 18, Illinois

Century (Floor Model)	1 to 70 feet per minute	
Printing and developing speed	High pressure quartz mercury vapor lamp	
Illumination	220 volts	
Electrical requirements	Steel, gray hammerloid enamel finish	
Construction	42 inches	54 inches
Copy width	5000/4000 watts	6000/5000 watts
Illumination (Hi-Lo operation)	55 amperes	60 amperes
Electrical requirements		
Overall size:	73-1/8 inches	85-1/8 inches
Width	70-5/8 inches	70-5/8 inches
Height	43-1/4 inches	43-1/4 inches
Depth	1550 pounds	1780 pounds
Net weight	\$4,795.00	\$6,195.00
Cost		
Optional Equipment:	135.00	150.00
Hi-Lo Switch	200.00	235.00
Variac lamp control	100.00	150.00
Deluxe rear print tray	200.00	225.00
Automatic windup device		110.00
Combination paper roll cover and tracing tray	85.00	65.00
Fluorescent light in developer	65.00	50.00
Manual reversing switch	275.00	275.00
Automatic safety reversing switch		
Lamp for exposing autotype type materials	(Price on application)	

Tecnifax Corporation  
195 Appleton Street  
Holyoke, Massachusetts

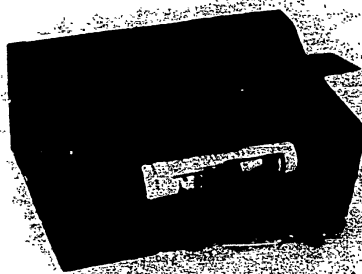
## AMMONIA DIAZOTYPE DEVELOPER ONLY

Dry-Developer (Table Model)	
Copy width	24 inches
Developing speed	6 feet per minute
Electrical requirements	5 amps at 110 volts
Copy delivery	Rear
Construction	Molded Fiberglass, gray baked hammerloid finish
Overall size:	
Width	32 inches
Height	13 inches
Depth	24 inches
Net weight	62 pounds
Cost	\$385.00

ELECTRONIC FACSIMILE,  
TRANSMITTER

Acme Telectronic  
Div. of NEA Service Inc.  
Cleveland, Ohio

Acme Model AFS-1 Facsimile Scanner



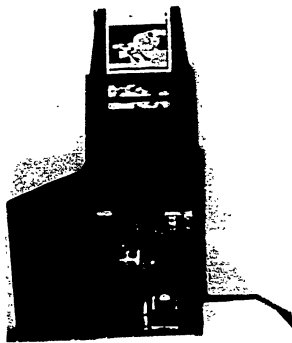
A drum-type facsimile transmitter designed for semi-automatic operation. The only steps necessary for operation are: loading the copy on the scanning drum, positioning the optical unit to the start of the copy, and depressing a start button. Other operations such as sending a synchronizing signal, operation of the drum and optical unit motors, and switching to picture signal are carried out automatically. Upon completion of transmission, the equipment returns to standby automatically and the operator is informed of the standby condition by a visual indication. General characteristics include: power, 110-120 volts AC; scanning lines per inch, 1100; total scanning line length, 9.125 inches; useful scanning line length, 8.10 inches; maximum copy size, 8.5 x 14 inches; rate of scan, 180 lines per minute; weight, 85 lbs; dimensions, height 11-1/4", width 22-3/4", depth 16-1/4".

Price: Model AFS \$2,375.00

ELECTRONIC FACSIMILE,  
RECORDER

Acme Teletronix  
Div. of NEA Service, Inc.  
Cleveland, Ohio

Acme Facsimile Recorder Model AFR2



Flat surface, continuous type recorder; direct recording on electrolytic paper; receives over telephone or radio circuits; reproduction of photographed, written, printed, or drawn copy; functions without attention except for reloading with electrolytic recording paper rolls; under 24-hour-a-day unattended operation the machine starts, stops, or goes to standby condition automatically; produces photographic halftone copy or black and white line material; contains a built-in loudspeaker for monitoring; reproduces 100 lines per inch; actual scanning line length, 9.125 inches; useful scanning line length, 8.375 inches; speed of 100 lines per inch; power, 110 volts AC; weight, 196 lbs.; dimensions, width 17", depth 15", height 55".

Price: Model AFR \$2,425.00

ELECTRONIC FACSIMILE,  
RECORDER

Acme Teletronix  
Div. of NEA Service, Inc.  
Cleveland, Ohio

Acme Facsimile Recorder Model ACR-3

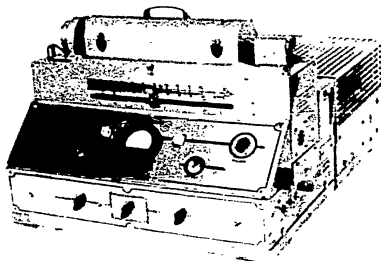
Flat surface, continuous type recorder similar to Model AFR-2; direct recording on electrolytic paper; 9-3/8 inches wide; receives over ordinary telephone lines or by way of radio circuits; reproduces 100 lines per inch; actual scanning line length, 9.125 inches; useful scanning line length, 8.375 inches; speed of 100 or 180 lines per inch; power, 110 volts AC; weight, 196 lbs.; dimensions, width 17", depth 15", height 55".

Price Not Available

# ELECTRONIC FACSIMILE, TRANSCIVER

Acme Teletronix  
Div. of NEA Service, Inc.  
Cleveland, Ohio

Acme Telephone Transceiver  
Universal Model FNP-IS



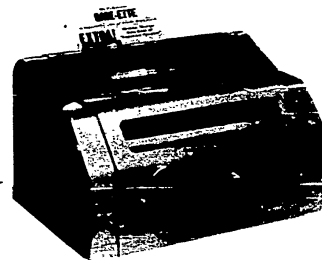
Drum type sending and receiving unit; basically a telephoto unit but will transmit to Acme Facsimile Recorders besides transmitting and receiving from all other Acme Telephoto machines; handles printed, photographed, written or drawn material; 9" x 12" picture drum; scanning up to 360 lines per inch; receives either positive or negative images, on film or photo paper; transmits over telephone lines or by way of radio circuits.

Price: Model FNP-IS \$6,250.00

# ELECTRONIC FACSIMILE, TRANSCIVER

Air Associates Inc.  
Facsimile Equipment Div.  
Orange, New Jersey

Electronic Messenger



One unit transmits and receives written or printed matter in original form between plants, offices, or stations, to one or more companion machines; for use over telephone, microwave, or closed circuits; copy size, same as original, 8-1/2 x 14 inches or smaller; original transmitted on scanning drum; as machine transmits, a monitor copy is made on the same machine while another facsimile is made on the receiving unit; the recording method is direct electrolytic, the moist recording paper is fed from the paper container between a helical electrode and a printer blade electrode, whereupon passing of current changes the color of the paper to form the image; scans and reproduces 100 lines per inch; scanning rate for Model EM-360 (high speed) is 3.6 inches per minute and for Model EM-180 (low speed) is 1.8 inches per minute, maximum length of recording roll is 100 feet; 115 volts AC, 60 cycles, 450 watts maximum.

Price: See Composite Price List

ELECTRONIC FACSIMILE,  
COMPOSITE PRICE LISTAir Associates Inc.  
Facsimile Equipment Div.  
Orange, New Jersey

## Composite Price List

	<u>List Price</u>	<u>Monthly Rental Rate Per Unit Based on a Five Year Lease</u>
<u>Internal Applications</u>		
Electronic Messenger, Model EM-360	\$1,800.00	\$48.75
<u>Short-Haul Operations (Telephone)</u>		
Electronic Messenger, Model EM-360TF	2,000.00	54.40
Electronic Messenger, Model EM-360T4F	2,000.00	54.40
<u>Long-Haul Operations (Microwave)</u>		
Electronic Messenger, Model EM-180T	2,000.00	54.40
Electronic Messenger, Model EM-180T4	2,000.00	54.40
<u>Long-Haul Operations (Telephone)</u>		
Electronic Messenger, Model EM-180TF	2,000.00	54.40
Electronic Messenger, Model EM-180T4F	2,000.00	54.40
<u>Specially Designed Units</u>		
Receivers, Model REM-180TF	1,515.00	41.20
Transmitters, Model TEM-180TF	1,560.00	42.30
<u>Accessory Equipment</u>		
Frequency Standard Unit	495.00	13.40
Console Cabinets	111.00	3.00

Note: Rates for shorter term leasing plans will be supplied upon request.

ELECTRONIC FACSIMILE,  
COMPOSITE PRICE LISTAir Associates Inc.  
Facsimile Equipment Div.  
Orange, New Jersey

## Composite Price List (Continued)

	<u>List Price</u>
<u>Expendable Supplies</u>	
Electrolytic Recording Paper - 100 ft. Rolls	\$3.25
50 ft. Rolls	1.63
Emex Lubricating Fluid, Per Pint	2.50
Printer Blades, Package of Six	6.00
Helix Wires	.50
Wick Assemblies	5.00
Apron Assemblies (Window Shades)	3.00
Emex Tissues, Per Box	.35

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ELECTRONIC FACSIMILE,  
TRANSMITTER  
RECORDER

Alden Systems Company  
Westboro, Massachusetts

The Alden High-Speed Selective Dispatch System

A system using 2-inch transmitters and 2-inch recorders in combinations, either in pairs or in groups consisting of several recorders operated off one transmitter and so forth; transmitter has 2-1/4-inch scanner of the flat surface type; recorder is 2-1/4-inch flat surface continuous type; reads and transmits copy of any length either from top to bottom when fed columns of 2-1/4-inches in width, or from side to side when text of a greater width is to be transmitted; open end transmitter arm with its 2-1/4-inch scanner allows copy to be slid under for scanning desired sections, whether to the inside of the sheet or on the edge; large copy is transmitted in sections and re-assembled after being printed by the recorder; with 2-1/4-inch equipment 81 square inches of copy can be transmitted and received per minute over internal plant lines, special facsimile telephone lines, or microwave system; transmitter only operates as it sees copy, a completely blank space in the copy causes the transmitter to pause until the next copy appears under the scanner; finished copy is made on Alfax, an electro-sensitive single ply paper which records in sepia that is permanent, smudgeproof, and can be written on and handled with no special precautions; it is fed off a continuous roll and allows up to 100 feet of copy to be recorded without reloading; price quotations are made upon a determination of requirements.

Price: Not Available

ELECTRONIC FACSIMILE,  
TRANSCIVER

Alden Systems Company  
Westboro, Massachusetts

Alden 2" Transceiver

This machine combines a transmitting and receiving station plus audio circuits in one piece of equipment; reproducing speeds up to 36 inches of copy per minute under ideal line conditions; the receiving stations are started and stopped at the signal of the transmitting station; it can be preset to send a given length of copy, stopping when the transmission is completed; any one or all of the stations on the circuit can send or receive to the others as desired; uses Alfax electrosensitive recording paper.

Price: Not Available

ELECTRONIC FACSIMILE,  
RECORDER

Alden Systems Company  
Westboro, Massachusetts

Alden 19" Recorder

A flat surface type of continuous recorder; uses Alfax electrosensitive recording paper 18 inches in width and in 100-foot rolls; operates for 50 continuous hours without reloading the paper; control timer for preset starting and stopping; 110 volt AC; electronic circuitry separated by function in replaceable plug-in chassis; material visible from the beginning of recording.

Price: Not Available

Alden 8" Monitor Recorder

A flat surface type of continuous recorder; reproduces reduced copies of the same material being recorded on the 19-inch recorder using the electronic circuitry in the 19-inch recorder; uses Alfax electrosensitive recording paper 8 inches in width and in 120-foot rolls.

Price: Not Available

**ELECTRONIC FACSIMILE,  
TRANSMITTER**Alden Systems Company  
Westboro, Massachusetts**Alden 19" Continuous Flat Scanner**

A continuous flat scanner; transmits material 19 inches in width and any length; used to transmit or duplicate at regular or high speed; used to duplicate any number of copies at regular or high speed on the Alden 19-inch Recorder; transmits over internal circuits or microwave links at a rate of one weather map in less than two minutes.

Price: Not Available

**ELECTRONIC FACSIMILE,  
RECORDING PAPER**Alden Systems Company  
Westboro, Massachusetts**Alfax**

An electrosensitive recording paper; marked by the passing of an electric current through the paper; available in three types; Type "A", sensitive high speed paper, records a sepia brown trace on a white background and is being used at speeds up to 18000 inches per minute; Types "OO" and "NO", record a black trace on a white background and are used at writing speeds up to 700 inches per minute; approximate paper impedance varies from 500 ohms at low writing speeds to 200 ohms at speeds in the order of 18000 inches per minute; amount of power required to mark the paper depends on the speed of writing and degree of density needed in the final mark.

Standard Sizes and Price List

Normal Width	Length of Roll	Diameter of Roll	Core Length	Core I. D.	Experimental Price per Roll	
					Type "A"	Type "OO"
1/4"	100'	2-3/4"	3/8"	1"	\$ 1.00	\$1.25
11/16"	100'	2-3/4"	Ticker Tape Width		1.00	1.25
2"	50'	1-1/2"	2-1/8"	3/8"	1.00	1.25
4"	34'	1-3/8"	4-3/8"	3/8"	1.00	1.25
6"	43'	1-1/2"	6-1/2"	3/8"	3.50	3.85
8"	120'	2-3/4"	8-3/4"	5/8"	3.50	3.85
9"	100'	2-5/8"	9-5/8"	5/8"	4.50	4.85
11"	100'	2-5/8"	11-5/8"	5/8"	4.50	4.85
18"	100'	2-5/8"	19"	5/8"	25.00	--
51"	100'	2-5/8"	51-1/4"	1"	35.00	--

Will quote volume prices on request and make paper of special sizes and characteristics to suit.



ELECTRONIC FACSIMILE,  
REPRODUCING EQUIP-  
MENT

Stenafax Sales Division  
Times Facsimile Corporation  
New York, New York

Stenafax Reproducing Equipment



An electronic copying machine consisting of two drums rotating at the same speed, one drum holds the original and one the copy; a photoelectric cell scans the original and transmits a signal to an electric needle which perforates a stencil on the other drum, recording a facsimile of the original; it will prepare a master for offset reproduction and reproduce direct positive single copies on special paper; a master for offset reproduction or a mimeograph stencil requires 6 minutes for preparation and a direct positive single copy requires 3 minutes, operator adjusts the original and the copy blank and pushes a button, operation is then automatic; stencil and offset blanks are available to fit standard office duplicating machines; graphic material such as office forms, news clippings, engineering drawings, etc., may be reproduced by this process; in all cases the reproducible copy area is 8-1/2 x 14 inches; designed for easy rolling to a new location if required; no warm-up time is required.

Price: Stenafax Model S-6 \$1,750.00

Stenafax Recording Styli \$0.35

ELECTRONIC FACSIMILE,  
STENAFAX SUPPLIES

Stenafax Sales Division  
Times Facsimile Corporation  
New York, New York

## Stenafax Stencils

The stencil blanks are used on electronic stencil cutting machines which prepare stencils that can be run on ordinary mimeograph machines; they are electrosensitive and record in response to an electric current; the Stenafax blank is a vinyl plastic sheet with a paper backing; after recording, the plastic film is stripped from the backing sheet and used like an ordinary stencil on the mimeograph machine; the stencils are supplied in various sizes with punched holes to fit most standard mimeograph machines. No. 818 for A. B. Dick mimeograph machines are 8-1/2 x 18 inches, No. 918 for Gestetner are 9 x 18 inches, No. 919 for Rex Rotary are 9 x 19 inches; a 9 x 19 inch stencil punched to fit the Geka is also available; stencils may be stored and reused later; if water-base ink has been used they may be washed.

## Planofax Masters for Offset Duplicating

Planofax masters are used on the Stenafax reproducing machine and then run like an ordinary typed paper plate on the offset duplicator; they are electrosensitive and record in response to an electric current; they consist of a special base sheet, similar to an offset "paper" plate, coated with a strippable electrosensitive film; after a facsimile of the original has been recorded on the master, the film is stripped off and discarded, and the base sheet is ready for use on an offset duplicator; masters are available in two sizes, S15, for Multilith and S16, for Davidson duplicators.

ELECTRONIC FACSIMILE,  
STENAFAX SUPPLIES

Stenafax Sales Division  
Times Facsimile Corporation  
New York, New York

## Prices:

## Stenafax Stencils Type 818

8-1/2" x 18" size for A. B. Dick

1 to 4 pkgs.	\$20.00 per pkg. of 100 sheets
5 to 9 pkgs.	19.00 per pkg. of 100 sheets
10 or more pkgs.	18.00 per pkg. of 100 sheets
100 or more pkgs.	17.50 per pkg. of 100 sheets
9" x 18" or 9" x 19" sizes to fit Gestetner, Rex Rotary or Geka	

Duplicators are the same prices as the 8-1/2" x 18" size above.

## Planofax Offset Masters Type S

1 to 4 pkgs.	\$20.00 per pkg. of 100 plates
5 to 9 pkgs.	19.00 per pkg. of 100 plates
10 or more pkgs.	18.00 per pkg. of 100 plates

For either type S15 for Multilith or type S16 for Davidson duplicator.

## Timefax NDA Recording Paper Type 818

8-1/2" x 16-5/8" - similar to Stenafax Stencil, for use in making single copy reproduction with Times Stenafax Reproducing Machine

1 to 3 pkgs.	\$12.50 per pkg. of 250 sheets
4 to 7 pkgs.	11.00 per pkg. of 250 sheets
8 or more pkgs.	10.33 per pkg. of 250 sheets

ELECTRONIC FACSIMILE,  
TRANSMITTER  
RECORDER

Stewart-Warner Electronics  
Chicago, Illinois

Datafax

An electromechanical system for electronic transmission and reproduction of visual images - pictures, drawings, handwritten or printed data: of any page length and up to 9 inches wide; operate over telephone lines, intercom lines, radio circuits or microwave channels; scans and reproduces 96 lines per inch; operation speeds determined by choice of motor and gear set - 180 lines per minute for toll-line economy and 360 lines per minute for maximum speed; useful copy width, 8-3/8 inches; power input per unit, 150 watts, 110 volts, 60 cycles AC; individual plug-in chassis; dimensions, each unit, 15" wide by 18-1/2" deep by 14-1/2".

Transmitter

The transmitter accepts copy continuously on a paper roll drive. As the copy passes around the roll, it is illuminated by two fluorescent lamps, and an image of the copy is formed by the lens system at one surface of the revolving scanner disc; a spiral aperture in the disc traverses a horizontal slit to provide lateral scanning.

Recorder

An electrolytic recording system using Hogan-type paper; recorder produces continuous copy; paper magazine holds up to 400-foot rolls; standard paper width, 9-1/2 inches; recorder starts automatically on receipt of transmitted signal and runs unattended; automatic phasing on receipt of initial transmitter signal; display easel available. A synchronous motor drives the helix mechanism and the paper drive rolls, and the paper travels from a vapor-tight humidifier, up between the printer blade and helix, across the heater bar and through the drive rolls to the display easel.

Model FR-11 or FR-12 Recorder  
Model FT-11 or FT-12 Transmitter  
Single Pedestal Base      Double Pedestal Base  
Recorder Paper Take-up Roll  
Standard Frequency Power Supply  
Paper (400 Foot Roll)  
Datafax

Prices Not Available

ELECTRONIC FACSIMILE,  
TRANSCIVER  
TRANSMITTER  
RECORDER

TelAutograph Corporation  
Los Angeles, California

TelAutograph Telescriber System

The TelAutograph Telescriber System is a means of communication designed to transmit handwritten messages from one point to another; it is made up of two or more telescribers connected by a wire circuit, which transmit and receive messages electronically. The equipment consists of transceivers that both transmit and receive, and separate transmitters and receivers; these are used in various combinations; with a selector key arrangement, contact can be made to any unit; a pen-like stylus built-in to the transceiver is moved by the operator's hand just like an ordinary pen or pencil; the handwritten message is produced on the transmitter and reproduced simultaneously on any of the receivers desired; forms, called Instan-Forms, are available on which this information can be written; these forms are a variety of standard business forms designed to fit the equipment-sales orders, maintenance reports, weather reports, or similar types of business forms; plain-paper equipped machines are available where forms are not required.

Transceivers

Model CB1-1, plain paper interior (inside) tear-off type.

Model CA1-1, plain paper exterior (outside) tear-off type.

Transmitter and receiver contained in the same unit; available with upright winder, attachment for extending copy out above the receiver for continued viewing, can be extended 9 inches from top; designated Model CB2-1 for interior type and CA2-1 for exterior type.

Model CBF, Instan-Form interior tear-off type.

Model CAF, Instan-Form exterior tear-off type.

Transmitter and receiver contained in the same unit; uses pre-printed Instan-Forms of 3, 3-1/2 or 7 inches in length; all forms are 5 inches in width; the Transceiver can be provided either with a built-in paper supply box to hold a small supply of forms or can be slotted to permit use of continuous feed forms.

# ELECTRONIC FACSIMILE, TRANSCIVER TRANSMITTER RECORDER

TelAutograph Corporation  
Los Angeles, California  
TelAutograph Telescriber System (Continued)  
Transmitters

Model CB1-2, plain paper interior tear-off type with Countersunk Transmitter.  
Model CA1-2, plain paper exterior tear-off type with Countersunk Transmitter.

Transmitter built-in flush with the table top (countersunk); Receiver directly behind on table; available with upright winder, attachment for extending copy out above the receiver for continued viewing, can be extended 9 inches from top; designated Model CB2-2 for interior type and CA2-2 for exterior type.

Models CBF and CAF Instant-Form type with Countersunk Transmitter.

Transmitter built-in flush with table top (countersunk); Instant-Form Receivers directly behind on table; provided with paper chute at the bottom to permit the use of continuous forms.

## Receivers

Models CB11-11 and CA11-11, plain paper tear-off types.

Receiver only, contained in unit; available with upright winder, attachment for extending copy out above the receiver for continued viewing; can be extended 9 inches from the top; designated as Models CB12-11 and CA12-11.

Models CBF and CAF, Instant-Form Type

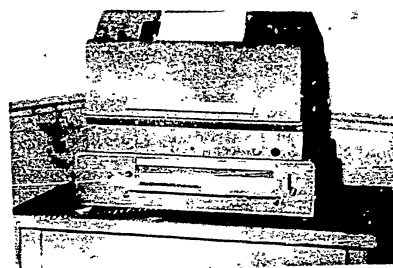
Receiver only, contained in unit, paper supply boxes provided in base for Instant-Forms

Prices Not Available

# ELECTRONIC FACSIMILE TRANSMITTER RECORDER

Times Facsimile Corporation  
New York, New York

Times FaxWriter Communication Equipment



Equipment consists of two self contained units, the CGM Transmitter and RLM Recorder; each may be used separately where only transmitting or recording is required; where both units are needed the recorder is mounted on top of the transmitter; sheet is dropped in the slot on the transmitter and a lever pressed to start operation; the transmitter automatically sends phasing pulses to align the recorder with the transmitter, sends signals to start the recorder after phasing, limits the maximum signal level to that acceptable by the transmission circuits, and adjusts output signal to produce black and white recordings regardless of the color of the message blank; recorder is fully automatic and requires attention only to replenish the recording paper or change styli; has two alarm circuits, one to indicate the end of each message and the other to warn when the paper roll is nearly exhausted; a facsimile of typed or printed matter, handwriting, diagrams, tabulations, drawings, cryptograms, or pictorial matter can be transmitted from point to point, or many points simultaneously, whether they are a few feet or thousands of miles apart; adjustable stops are provided on the transmitter to limit scanning when sending a short message or portion of a document.

## Transmitter

Maximum copy size, 8-1/2 x 13 inches; maximum scanned area, 8.3 x 13 inches; transmitting time for 11 inch copy, 5.9 minutes; rotating drum-type transmitter; drum speed, 180 rpm; scans 96 lines per inch; 23-1/4" long, 5-1/2" high, 18-1/4" deep; weight, 80 lbs.

# ELECTRONIC FACSIMILE TRANSMITTER RECORDER

Times Facsimile Corporation  
New York, New York

## Recorder

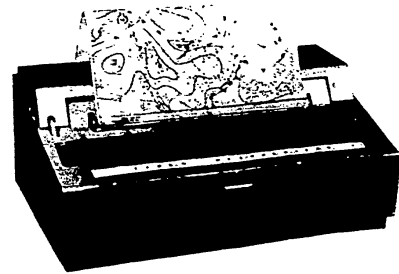
Maximum copy width, 8.5 inches; recording speed, 5.9 minutes for 8-1/2 x 11 inch copy at 180 scans per minute; continuous web-type recorder; scanning speed of 180 scans per minute; recording material, Timefax NDA, Timefax A, or Planofax N; paper advance, 96 lines per inch; paper width 9 inches; 20-3/4" long, 15-1/4" high, 18-1/2" deep; weight, 60 lbs.

Price: FaxWriter Transmitter	\$3,000.00
FaxWriter Receiver	2,500.00

# ELECTRONIC FACSIMILE, RECORDER

Times Facsimile Corporation  
New York, New York

Model RJ Facsimile Continuous Recorder



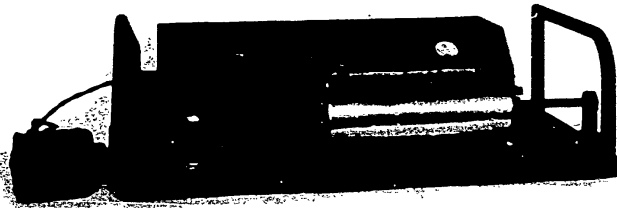
A recorder designed for continuous recording material transmitted by facsimile; continuous recording for approximately 120 hours of unattended operation; records and stops under control of received signals; receives wire or radio connections; records graphic information such as messages, forms, drawings, diagrams, and other pictorial data; a roll of dry electrosensitive recording paper 19-1/8 inches wide is used, with a maximum copy width of 18-1/2 inches; designed to record directly by passing a current through a recording stylus which marks the paper; recorder scanning of the continuous web type; stylus needles are mounted on a continuous web or band that moves across the surface of the paper, as one stylus finishes a marking cycle another stylus starts a marking cycle; records 96 lines per inch; scanning speed of 60, 90 and 120 scans per minute by means of gear changes; uses Timefax NDA and A Papers.

Price: \$3,750.00

ELECTRONIC FACSIMILE,  
TRANSCIVERTimes Facsimile Corporation  
New York, New York

## TXC Transceiver

A facsimile system for transmitting and recording of the rotating-drum type; the machine is made ready for use as either a transmitter or receiver by manipulation of front panel controls; transmits by way of wire circuits or radio links of various types; copy to be transmitted may be in form of charts, drawings, handwritten or typewritten material, photographs; paper size 12 x 18-11/16 inches, scanning area up to 12 x 18 inches; colored copy is recorded as black and intermediate shades of gray; designed to record by photographic means on either negative or positive photographic material, or by direct recording with an electrical discharge from a stylus that visibly marks on electrosensitized paper; the copy to be transmitted or the recording blank is mounted on the drum by means of a clamping bar; during transmission the drum is rotated at a constant speed and fed axially past the stylus at a rate of 1/96 of an inch per revolution (96 lin/s/inch), upon order may be increased up to 144 lines/inch; transmitting scanner unit comprises an exciter lamp and photoelectric cell with associated optical system; uses Timefax type NDA and Type A electrosensitive papers.



Price: Model TXC Transceiver, 60 rpm, for Direct & Photo Recording	\$3,200.00
Model TXC Transceiver, 60 rpm, for Direct Recording only	3,000.00
Model TXC Transceiver, 90 rpm, for Direct Recording only	3,100.00
Model TXC Transceiver, 90 rpm, for Direct & Photo Recording	3,300.00
Stylus	.12
Table	100.00

ELECTRONIC FACSIMILE,  
TRANSCIVER,  
ACCESSORY EQUIPMENTTimes Facsimile Corporation  
New York, New YorkTXC Transceiver (Continued)  
Accessory Equipment

Modulator Model CGR

In radio transmission by the audio frequency shift method, this unit is used to convert the amplitude modulation output of the facsimile transmitter to an audio frequency shift signal having constant amplitude, for input to a radio transmitter.

Demodulator Model CFD

Transmission of facsimile signals over a radio frequency shift circuit requires the use of this equipment between the facsimile transmitter and the frequency shift exciter unit of the radio transmitter.

Discriminator Model RGD

This unit is required when the Model TXC Transceiver is used to record facsimile transmission made by the frequency shift or audio frequency shift methods.

**ELECTRONIC FACSIMILE,  
RECORDER**

Times Facsimile Corporation  
New York, New York

**Facsimile Recorder Model RG**

A recorder of the revolving drum type for recording material transmitted by Times Facsimile Transceivers or Transmitters but can also be used to record transmissions from other facsimile equipment operating at 60 rpm; receives by wire and radio connections; records charts, drawings, cryptograms, legal documents and tabular information; paper size 12 x 19-1/8 inches; scanning area up to 12 x 18 inches, designed to record directly by passing a current through a recording stylus which marks the paper; the stylus is fed axially along the rotating drum recording 96 lines per inch; drum speed of 60 rpm; 120, 90, 45, 30, 5 rpm or other speeds available on special order; uses Timefax NDA and A papers; available with a paper storage unit that fits on top and a base unit.

Price: Standard Model RG Recorder \$1,700.00

Paper Storage Unit 25.00

Base Unit 25.00

Recording Stylus .12

**Accessory Equipment****Automatic Start and Transfer Unit Model AST**

If the transmitter provides the required signals this unit can be added to the recording installation to automatically start one recorder, or two recorders successively.

**Discriminator Model RGD**

This unit is required if radio transmission by the frequency shift or audio frequency shift method is being used.

**ELECTRONIC FACSIMILE,  
RECORDING PAPER  
DUPLICATING PAPER**

Times Facsimile Corporation  
New York, New York

**Timefax Recording Papers****Timefax NDA (nonduplicating)**

A dry electrosensitive recording paper which is marked by electric current; marking current may be applied to the surface with a stylus or fine contact point; consists of plain white paper coated with a carbon base covered with a white pigmented top coating; current from the stylus or contact burns away or vaporizes the top coating, exposing the black carbon coating and producing the effect of a black mark on the paper where the signal is applied; requires no special handling before or after use.

**Timefax A**

A dry recording electrosensitive recording paper similar to Timefax NDA except that it will serve as a master for making multiple copies; has an aniline dye combined with the undercoat to provide a master for hectograph duplication with a gelatin pad.

**Prices: Sheets, Timefax NDA****Cost**

12 x 18-11/16 inch size

1 to 3 pkgs

\$16.00 per pkg. of 250 sheets

4 pkgs. (1 carton)

15.00 per pkg. of 250 sheets

24 or more packages

14.00 per pkg. of 250 sheets

12" x 19-1/8" size

1 to 3 pkgs.

\$16.25 per pkg. of 250 sheets

4 pkgs. (1 carton)

15.25 per pkg. of 250 sheets

24 or more packages

14.25 per pkg. of 250 sheets

8-1/2" x 16-5/8" size

1 to 3 pkgs.

\$12.50 per pkg. of 250 sheets

4 to 7 pkgs.

11.00 per pkg. of 250 sheets

8 or more pkgs.

10.33 per pkg. of 250 sheets



ELECTRONIC FACSIMILE,  
RECORDING PAPER  
DUPLICATING PAPERTimes Facsimile Corporation  
New York, New York

## Prices: Sheets, Timefax NDA (Continued)

## Cost

7" x 9" size \$16.00 per pkg. of 1000 sheets

## Rolls, Timefax NDA

8-1/2" or 9" wide, with 2" I.D. core, 250 ft. long

1 to 4 rolls \$ 8.00 per roll

5 rolls 7.70 per roll

25 or more rolls 7.50 per roll

19-1/8" wide, with 2" I.D. core, 350 ft. long

1 to 3 rolls \$23.50 per roll

4 rolls 22.50 per roll

24 or more rolls 21.00 per roll

## Sheets, Timefax A

12" x 18-11/16" size

1 or 2 pkgs. \$25.00 per pkg. of 250 sheets

In cartons of 3 pkgs. 20.00 per pkg. of 250 sheets

12" x 19-1/8" size

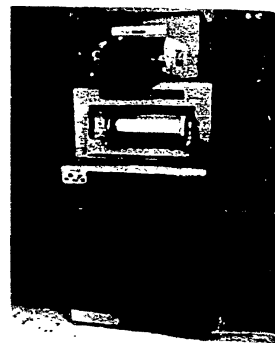
1 or 2 pkgs. \$25.50 per pkg. of 250 sheets

In cartons of 3 pkgs. 20.50 per pkg. of 250 sheets

7" x 9" size 21.50 per pkg. of 1000 sheets

The Western Union Telegraph Company  
New York, New York

## Intrafax System

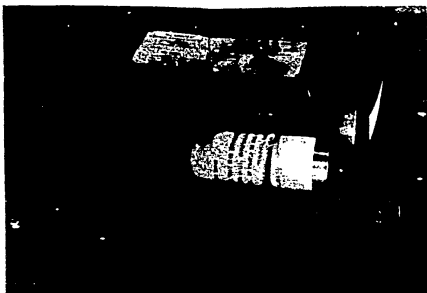
ELECTRONIC FACSIMILE,  
TRANSCIVER  
TRANSMITTER  
RECORDER

A facsimile communication system that transmits between any points connected by wire or radio circuits; models consist of rotating drum type for both transmitting and recording (transceiver), and the rotating drum type transmitter using a continuous type recorder; transmits handwriting, typewriting, printed matter, photographs, etc., scanning with photoelectric cell and optical system; original is wrapped around the drum, which rotates and passes slowly below the photoelectric cell until the entire copy is scanned; the signal is transmitted to the receiver, which is in phase with and operating at the same speed as the transmitter; in the receiver a needle-like stylus replaces the photoelectric cell and the signal is reproduced by the stylus in the same order that the copy is scanned; a special recording paper called Teledeltos is sensitive to electric current and is marked in proportion to the current passing from the stylus through the paper; when a continuous paper recorder is used, the styli are mounted on a belt that revolves across the paper surface marking the paper; three separate models are available; letter-size scans 8 x 10 inches of an 8-1/2 x 11 inch sheet, note size scans 3 x 5-5/8 inches of a 1/2 x 6-1/2 inch note, and ticket-size scans 1-7/16 x 4-1/16 inches of a 1-1/2 x 4-1/2 inch ticket; can be set to scan only the portion desired thus shortening the normal sending cycle; copy can be cut to any size desired; can be set up in many combinations - plant to plant, one destination or thirty, office to office, etc.; note-size equipment plays a double role - machines of this kind are provided

ELECTRONIC FACSIMILE,  
TRANSCIVER  
TRANSMITTER  
RECORDER

The Western Union Telegraph Company  
New York, New York

Intrafax System (Continued)



by Western Union to provide an incoming and out-going telegraph or cable service direct from the customer's desk to the local Western Union office; this application is known as "Desk-Fax"; additional copies can be produced by using Heli-fax or Lithofax recording paper, the recorded reproduction then being used for a duplication method. Intrafax service is leased, not sold; monthly rates, including maintenance for the life of the installation, depend on the number of machines and circuits required; with "Desk-Fax" there is no charge to a customer whose telegraph account averages \$10.00 or more per month.

ELECTRONIC FACSIMILE,  
TRANSCIVER  
TRANSMITTER  
RECORDER

The Western Union Telegraph Company  
New York, New York

Intrafax System (Continued)



ELECTRONIC FACSIMILE,  
RECORDING PAPER

The Western Union Telegraph Company  
New York, New York

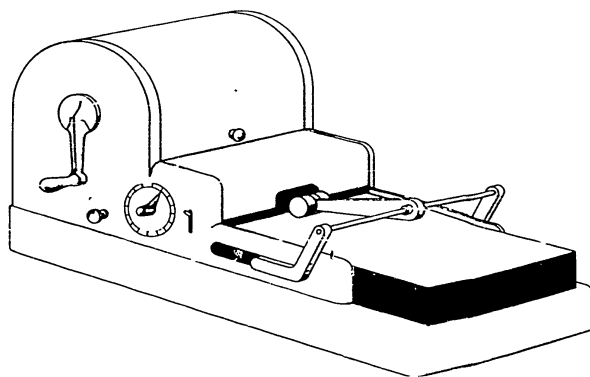
Teledeltos

A special recording paper developed and patented by Western Union; is sensitive to electrical current; current passing through a stylus marks the paper to produce the facsimile copy.

Hectofax and Lithofax

Recording paper that can be used as a duplicating medium to produce additional copies in quantity.

This catalogue section lists commercially available hectograph duplicators embracing the gelatin, spirit and chemical processes. The arrangement is by alphabetical order of manufacturers within the subsections shown by the tags. Marginal notations are included within the subsections for quick selection by type and size. For the purposes of this section the term "electric" means electrically driven with automatic feed. "Hand driven" means hand cranked with automatic feed. Variations such as "electric drive, hand feed" are shown in the marginal notations. The term "hand" as shown in the tabs means the simple, flat-bed types, the operation of which is entirely by hand.



# DUPLICATOR CHEMICAL

A. B. Dick Company  
Chicago 31, Illinois

Electric  
11 1/2 x 14

## Azograph Duplicator, Model 225

Electrically operated drum type duplicator using the diazo chemical process. Usable for spirit duplication without modification. Includes positive roll-type feed, gravity moistening system, impression roller pressure control, copy positioning control and counter. Operates continuously or with single sheet feed. Speed, 100 copies per minute. Type of feed selected by foot pedal control or feed selector lever. Takes paper or card stock from 3 x 4 to 11 1/2 x 14 inches. Sit-down stand is integral part of machine. Stand contains foot control pedal and motor. Step-by-step instructions permanently mounted on machine. For 110 V AC but DC motor available. Dimensions, L 41 1/4, W 19-3/4, H 37-3/4 inches. Weight 125 lbs.

Prices 1956 Azograph Duplicator, Model 225, without tax \$592.00

A. B. Dick Company  
Chicago 31, Illinois

Electric  
11 1/2 x 14

## Azograph Duplicator Model 226

Electrically operated drum type duplicator using the diazo chemical process. Usable with spirit process without modification. Includes positive roll-type feed, gravity moistening system, impression roller pressure control, copy positioning control, and counter. Feed selector lever controls single sheet or continuous feed. Takes paper or card stock from 3 x 4 to 11 1/2 x 14 inches. Speed 100 copies per minute. Step-by-step instructions permanently mounted on machine. Dimensions, L 32 1/4, W 19 1/4, H 17-3/8 inches. Weight 82 lbs. For 110 V, 60 cycle AC. DC motors available.

Prices 1956 Azograph Duplicator Model 226, without tax \$475.00

A. B. Dick Company  
Chicago 31, Illinois

Electric  
9 x 14

## Azograph Duplicator, Model 230

Electrically operated drum-type duplicator using the diazo chemical process. Usable with spirit process without modification. Includes positive copy positioning

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# DUPLICATOR CHEMICAL

control and copy counter, automatic or hand feeding. Takes paper or card stock from 1-3/8 x 4 to 9 x 14 inches. Step-by-step instructions permanently mounted on machine. Speed 100 copies per minute. For 110 V, 60 cycle AC. DC motors available. Dimensions, L 31-1/2, W 17-1/2, H 17-3/8 inches. Weight 82 lbs.

Prices 1956 Azograph Duplicator Model 230, without tax \$550.00

A. B. Dick Company  
Chicago 31, Illinois

Hand Driven  
9 x 14

## Azograph Duplicator, Model 220

Hand-operated drum-type duplicator for the diazo chemical process. Can be used for spirit process without modification. Includes roll-type automatic single sheet feed, gravity moistening system, impression roller pressure control, master positioning control. Takes paper from 1 x 2 1/4 up to 9 x 14 inches. Step-by-step instructions permanently mounted on machine. Dimensions, L 30 1/2, W 18 1/2, H 10 inches. Weight 37 lbs.

Prices 1956 Azograph Duplicator, Model 220, without tax \$226.00

Ditto, Inc.  
Chicago, Illinois

Hand Driven  
9 x 14

## Chemograph Duplicator, Model D-10

Hand-driven drum-type duplicator using diazo chemical process. Also usable for spirit duplication without modification. Uses paper or card stock from 3 x 5 to 9 x 14 inches. Speed 120 copies per minute. Dimensions L 31, W 13, H 10 inches. Weight 37 1/2 lbs. Specifications same as Ditto D-10 spirit duplicator.

Prices 1956 Ditto Chemograph Duplicator, Model D-10,  
Machine Only \$210.00  
Machine with open stand \$245.00  
Machine with closed stand \$260.00

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# DUPLICATOR CHEMICAL

Ditto, Inc.  
Chicago, Illinois

Electric  
9 x 14

## Chemograph Duplicator, Model D-11

Electrically driven drum type duplicator using diazo chemical process. Also usable for spirit duplication without modification. Uses paper or card stock from 3 x 5 to 9 x 14. Speed 120 copies per minute. Dimensions L 31, W 14, H 14-3/4 inches. Weight 70 lbs. Specifications same as Ditto Spirit Duplicator Model D-11

Prices 1956 Ditto Chemograph Duplicator, Model D-11,

Machine only	\$395.00
Machine with open stand	\$430.00
Machine with closed stand	\$445.00

# DUPLICATOR GELATIN

Flat-bed  
Sheet Type  
8 1/2 x 13

## Junior Efficiency Duplicator

A lightweight, low priced flatbed duplicator using a gelatin sheet. Printing surface 8 1/2 x 13 inches. Has metal paper guide. Shipping weight 8 lbs.

Prices 1956 Heyer Junior Efficiency Duplicator	\$9.95
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## Efficiency Duplicator

Roll Type  
8 1/2 x 14

Low-priced gelatin belt type flatbed duplicator. Printing surface 8 1/2 x 14 inches. Metal paper guide. Complete with 15 foot gelatin roll. Shipping weight 22 lbs.

Prices 1956 Heyer Efficiency Duplicator	\$34.95
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## Super-efficiency Duplicator

Roll Type  
8 1/2 x 14

Gelatin roll type with feeding device. Printing surface 8 1/2 x 14 inches. Complete with 15 foot gelatin roll. Shipping weight 37 lbs.

Prices 1956 Heyer Super-efficiency Duplicator	\$57.50
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Flat Bed  
Pan Type

Consists of shallow pan containing gelatin mixture. Includes cover for protecting printing surface during storage. Made by various manufacturers

The Heyer Corp., Chicago, Illinois

Cat. No.		
21	Note size, 6 1/2 x 10 inches	\$ 2.75
22	Letter size, 9 1/2 x 12 inches	\$ 3.75
23	Legal size, 9 1/4 x 15 inches	\$ 4.40
24	Folio size, 12 x 18 inches	\$11.50

DUPLICATOR  
GELATIN

Hecto Products Inc , New York 11, New York

Note size  
Letter size  
Legal size

Pan Type

\$2.50  
\$3.40  
\$3.85

Magi-Copy Duplicator

Consists of flat base holding gelatin sheet  
Size 8 1/2 x 11 inches.

Sheet Type

\$7.50

Eveready Duplicator. Similar to Magi-Copy above.  
Size 8-3/4 x 13 inches.

\$6.60

DUPLICATOR  
SPIRIT

Copy-Plus, Inc.  
Milwaukee 9, Wisconsin

Hand Driven  
9 x 17

Copy-Plus Curvette

Hand operated drum type spirit duplicator. Includes automatic pressure control, and 2 1/2 inch vertical copy adjustment. Takes 3 x 5 to 9 x 17 inch paper or card stock. Speed 80 copies per minute.

Prices 1956 Copy-Plus Curvette Duplicator

\$174.50

Copy-Plus Ambassador

Hand Driven  
14 x 17

Hand operated drum type spirit duplicator. Takes post card stock or paper from 3 x 5 to 14 x 17 inches. Speed 80 copies per minute.

Prices 1956 Copy-Plus Ambassador

Not available

Copy-Plus Portable Model PA

Hand Driven,  
Portable  
9 x 17

Hand operated drum type spirit duplicator. Feed trays retract for carrying. Occupies about one cubic foot of space when folded. Weight about 30 lbs. Capacity 3 x 5 to 9 x 17 inches.

Prices 1956 Copy-Plus Portable Model PA

Not available

Copy-Plus Micromatic

Electric  
9 x 17

Electrically driven drum type spirit duplicator. Takes 3 x 5 to 9 x 17 inch paper or postcard stock. Speed 80 copies per minute.

Prices 1956 Copy-Plus Micromatic

\$295.00

# DUPLICATOR SPIRIT

Copy-Plus Inc  
Milwaukee 9, Wisconsin

Electric  
9 x 17

## Copy-Plus Unigraph

Electrically driven drum type spirit duplicator. Includes 2 1/4 inch range of copy alignment and reset counter. Takes paper or card stock from 3 x 5 to 9 x 17 inches. Speed 80 copies per minute.

Prices 1956 Copy-Plus Unigraph

Not available

Ditto, Inc.  
Chicago, Illinois

Hand Driven  
9 x 14

## Model D-10

Hand driven drum type spirit duplicator. Uses paper or card stock from 3 x 5 to 9 x 14 inches. Speed 120 copies per minute. Dimensions L 31, W 18, H 10 inches. Weight 37 1/2 lbs.

Prices 1956 Ditto Model D-10, machine only  
Machine with open stand  
Machine with closed stand

\$195.00  
\$230.00  
\$245.00

Ditto, Inc.  
Chicago, Illinois

Electric  
9 x 14

## Model D-11

Electrically driven drum type spirit duplicator. Uses paper or card stock from 3 x 5 inches to 9 x 14 inches. Speed 120 copies per minute. Dimensions, L 31 W 14, H 14-3/4 inches. Weight 70 lbs.

Prices 1956 Ditto Model D-11, only  
Machine with open stand  
Machine with closed stand

\$345.00  
\$380.00  
\$395.00

# DUPLICATOR SPIRIT

Ditto, Inc.  
Chicago, Illinois

Hand Driven  
9 x 14

## Model D-15

Hand driven drum type spirit duplicator. Uses paper or card stock from 3 x 5 to 9 x 14 inches. Speed 120 copies per minute. Dimensions, L 35, W 20, H 11 1/2 inches. Weight 50 lbs.

Prices 1956 Ditto Model D-15, machine alone  
Machine with closed stand

\$275.00  
\$335.00

The Heyer Corporation  
Chicago, Illinois

Electric  
9 x 14

## Conqueror, Models 76 and 70 Drum Type Spirit Duplicator.

Similar except for drive. Speed 110 copies per minute, size up to 9 x 14 inches, card stock to news print. Thirty-two ounce fluid tank has visible indicator. Includes rotary feed, adjustable pressure control, vertical register control, fluid flow control and reset counter. Operated by 60 cycle 110 volt AC motor. Other motors available. Shipping weight 66 lbs.

Prices 1956 Heyer Model 76 Conqueror, power driven

\$325.00

Heyer Model 70 Conqueror, same as Model 76 except hand operated. Shipping weight 46 lbs.

\$195.00



# DUPLICATOR SPIRIT

Conqueror Portable Military Kit,  
Model 70

Portable  
Military Kit  
9 x 14

Consists of Heyer Model 70 hand operated spirit duplicator in special case. Case is constructed of 3/8-inch plywood covered with hard vulcanized trunk fiber and varnished. Covers are reinforced with metal. Two handles are provided for handling. Case is constructed so that machine fits on top of case and is operated in standing position. Kit includes the following supplies and replacement parts.

2 qts. Heyer duplicating fluid.	1 correction pencil.
1 pour spout.	2 No. 3 hard lead pencils for use with masters.
1 box purple masters, No. 462A, 8 1/2 x 14 inches.	1 8 oz. jar hand cleaner.
1 box Heyer spirit carbon, 34 sheets red, 22 sheets green, 33 sheets blue, 8 1/2 by 14 inches.	1 backing sheet, 8 1/2 x 14 inches
1 pkg. master paper, 8 1/2 x 14 inches.	1 pr. rubber side grippers for paper guides.
1 ream (500 sheets) Heyer Copy Paper, white, 20 lb, 8 1/2 x 14 inches.	1 pr. rubber paper pushers.

Prices 1956 Heyer Model 70 Conqueror Portable Military Kit as described above. Prices include delivery. In quantities from 1 to 4 \$250.00

Prices decrease with quantity down to \$195.00 in lots of 250 or more.

# DUPLICATOR SPIRIT

Old Town Corporation  
New York 17, New York

Electric  
9 x 17

Model 9E

Drum type spirit duplicator, electrically driven with automatic feed. Runs automatically after being started. Includes registration adjustment, single sheet feeding device, printing density control, and reset counter. Takes paper from 16 lbs. to card stock in sizes from post card to 9 x 17 inches. Includes cabinet with storage space for supplies.

Prices 1956 Old Town Model 9E

Not available

Old Town Corporation  
New York 17, New York

Hand Driven  
9 x 17

Model 9H

Hand operated drum type spirit duplicator with automatic feed. Includes registration adjustment, single sheet feeding device, printing density control. Takes paper from 16 lbs. to card stock in sizes from post card to 9 x 17 inches. Includes cabinet with storage space for supplies.

Prices 1956 Old Town Model 9H

Not available

Old Town Corporation  
New York 17, New York

Hand Driven  
9 x 14

Model 9S

Hand operated drum type spirit duplicator Budget model with automatic feed. Size up to 9 x 14 inches. Includes storage cabinet for supplies.

Prices 1956 Old Town Model 9S

Not available

DUPLICATOR  
SPIRIT

Old Town Corporation  
New York 17, New York

Electric  
14 x 17

Model 14 E

Drum type spirit duplicator, electrically driven with automatic feed. Runs automatically after being started. Includes registration adjustment, single sheet feeding device, printing density control, and reset counter. Takes paper from 16 lbs. to card stock in sizes from post card to 14 x 17 inches. Includes option of storage or sit-down cabinet.

Prices 1956 Old Town Model 14 E

Not available

Old Town Corporation  
New York 17, New York

Hand Driven

Model 14 H

Hand operated drum type spirit duplicator. Includes registration adjustment, single sheet feeding device, printing density control, and reset counter. Takes paper from 16 lbs. to card stock in sizes from post card to 14 x 17 inches. Includes storage cabinet.

Prices 1956 Old Town Model 14 H

Not available

Old Town Corporation  
New York 17, New York

Hand Driven

Model 9 SR

Hand operated drum type spirit duplicator, with automatic feed. Includes single sheet feeding device, pressure control, and reset counter. Fluid tank is above moistening roller. Handles paper or card stock up to 9 x 14 inches. With or without cabinet.

Prices 1956 Old Town Model 9 SR

Not available

DUPLICATOR  
SPIRIT

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Electric  
9 x 17

Rex-O-Graph Model CET

Drum type spirit duplicator. Electrically driven with automatic feed. Includes automatic centering, counter, and single revolution clutch for intermittent feed. Capacity up to 9 x 17 inches.

Prices 1956 Rex-O-Graph Model CET

\$324.00

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Electric  
9 x 17

Rex-O-Graph Model RE Cabinet

Drum type spirit duplicator. Electrically driven, automatic feed. Includes automatic centering, counter, and single revolution clutch for intermittent feed. Capacity 9 x 17 inches. With cabinet.

Prices 1956 Rex-O-Graph RE Cabinet

\$568.00

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Electric  
9 x 17

Rex-O-Graph Model RET

Drum type spirit duplicator. Electrically driven, automatic feed. Includes automatic centering, counter and single revolution, clutch for intermittent feeding. Capacity 9 x 17 inches.

Prices 1956 Rex-O-Graph Model RET

\$494.00

DUPLICATOR  
SPIRIT

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Electric  
14 x 17

Rex-O-Graph Model RET-4

Drum type spirit duplicator. Electrically driven, automatic feed. Includes automatic centering, counter, and single revolution clutch for intermittent feed. Capacity 14 x 17 inches.

Prices 1956 Rex-O-Graph Model RET-4 \$682.00

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Electric  
14 x 17

Rex-O-Graph Model RES-4

Drum type spirit duplicator. Electrically driven, automatic feed, but may be hand fed. Includes automatic centering, counter, top stop drum for masking or blocking out, single revolution clutch for intermittent feed, blackout slot, automatic feed holdback, and auxiliary feed tray. Capacity up to 14 x 17 inches.

Prices 1956 Rex-O-Graph Model RES-4 \$878.00

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Hand Driven  
9 x 17

Model C

Drum type spirit duplicator. Hand cranked, automatic feed. Automatic paper centering and counter. Capacity up to 9 x 17 inches.

Prices 1956 Rex-O-Graph Model C \$174.00

DUPLICATOR  
SPIRIT

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Hand Driven  
9 x 17

Model R

Drum type spirit duplicator. Standard office model, hand cranked automatic feed. Automatic paper centering and counter. Capacity up to 9 x 17 inches. Handles paper from tissue to card stock.

Prices 1956 Rex-O-Graph Model R \$248.00

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Hand Driven  
14 x 17

Model R-4

Drum type spirit duplicator. Hand cranked, automatic feed. Standard office model. Automatic paper centering and counter. Capacity up to 14 x 17 inches on paper from tissue to card stock.

Prices 1956 Rex-O-Graph Model R-4 \$390.00

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Hand Driven  
Hand Fed  
8 1/2 x 14

Model S

Simple, low priced drum type spirit duplicator. Hand operated and hand fed. Capacity 8 1/2 x 14 inches.

Prices 1956 Rex-O-Graph Model S \$98.00

DUPLICATOR  
SPIRIT

Rex-O-Graph Inc.  
Milwaukee 14, Wisconsin

Hand Driven  
8 1/2 x 14

Rex-O-Graph Model SA

Drum type spirit duplicator, hand cranked, automatic feed. Counter included, automatic centering. Capacity up to 8 1/2 x 14 inches.

Prices 1956 Rex-O-Graph Model SA \$154.00

Speedliner Company  
Chicago 40, Illinois

Hand Driven  
8 1/2 x 14

Speedliner Duplicator

Hand-cranked drum type spirit duplicator. Takes post card to 8 1/2 x 14 inch paper. Speed 60 copies per minute. Infeed and outfeed trays adjustable and removable. Adjustable pressure control. Fluid container holds one pint and has visible level indicator. Dampening unit is stainless steel.

Prices 1956 Speedliner Duplicator \$74.50

(This duplicator is also handled by Montgomery Ward & Company)

Standard Duplicating Machines Corporation  
Everett 49, Massachusetts

Electric  
9 x 14

Rocket Model ERA

Drum type spirit duplicator. Electrically driven, automatic feed. Speed 120-130 copies per minute. Capacity from post cards to 9 x 14 inches.

Prices 1956 Rocket Model ERA \$375.00

DUPLICATOR  
SPIRIT

Standard Duplicating Machines Corporation  
Everett 49, Massachusetts

Electric  
9 x 14

Coronet Model C9EA

Drum type spirit duplicator, heavy duty. Automatic feed holds 200 sheets. Capacity up to 9 x 14 inch. Mounted on storage cabinet.

Prices 1956 Coronet Model C9EA \$680.00

Coronet Model C9ED

Electric  
9 x 14

Drum type heavy duty spirit duplicator. Electric drive with automatic feed. Holds 500 sheets. Capacity up to 9 x 14 inches. Mounted on cabinet.

Prices 1956 Coronet Model C9ED \$730.00

Aristocrat Model RA

Electric  
9 x 14

Drum type spirit duplicator, automatic feed capable of feeding card and paper stock up to 12 x 14 inches. Equipped with registration adjustment. With cabinet.

Prices 1956 Aristocrat Model RA \$860.00

Standard Duplicating Machine Corporation  
Everett 49, Massachusetts

Electric  
9 x 14

Aristocrat Model UA

Drum type spirit duplicator, electrically driven with automatic feed capable of handling card or paper stock in separate or in intermingled stacks. Registration adjustment. With cabinet.

Prices 1956 Aristocrat Model UA \$925.00

# DUPLICATOR SPIRIT

Standard Duplicating Machines Corporation  
Everett 49, Massachusetts

Standard Rocket, Model ERA-P

Electric  
Turretting Mount  
9 x 14

Standard Rocket model mounted on stand with provisions for turning and locking machine in desired position. Pedal controls for continuous or single operation.

Prices 1956 Standard Rocket, Model ERA-P

Not available

Aristocrat Model R

Electric Drive  
Hand Feed  
12 x 14 inch

Drum type spirit duplicator, electrically driven, hand feed, for sizes up to 12 x 14 inches. Has registration adjustment.

Prices 1956 Aristocrat Model R

\$785.00

Aristocrat Model U

Electric Drive  
Hand Feed  
12 x 14 inch

Similar to Aristocrat Model R but with cabinet and special feed tray for single line duplicating.

Prices 1956 Aristocrat Model U

\$850.00

# DUPLICATOR SPIRIT

Standard Duplicating Machines Corporation  
Everett 49, Massachusetts

Dual Feed  
Electric  
14 x 18

Coronet Dual-O-Matic, Model C18EA

Drum-type spirit duplicator, electrically driven with automatic feed. Dual feed mechanism permits maximum capacity of 14 x 18-inch sheets. Two stacks of smaller sheets, as 8½ by 11, 13, or 14 inches long can be run simultaneously. Mounted on cabinet.

Prices 1956 Coronet Model C18EA Dual-O-Matic

\$985.00

Coronet Model C18EH

Electric Drive  
Hand Feed  
14 x 18 inch

Heavy-duty drum-type spirit duplicator. Electrically driven, hand feed for sheets up to 14 x 18 inches. Mounted on cabinet.

Prices 1956 Coronet Model C18EH

\$885.00

Coronet Model C9 EH

Electric Drive  
Hand Feed

Drum type heavy duty spirit duplicator. Hand fed electrically driven for sizes up to 9 x 14 inches.

Prices 1956 Coronet Model C9EH

\$885.00

Coronet Model C9H

Hand Driven  
Hand Fed  
9 x 14

Drum-type spirit duplicator. Heavy duty, hand feed. Capacity all sizes up to 9 x 14 inches.

1956 Price Coronet Model C9H

\$335.00

# DUPLICATOR SPIRIT

Standard Duplicating Machines Corporation  
Everett 49, Massachusetts

## Coronet Model SWA

Hand Driven  
8½ x 14

Drum type spirit duplicator. Hand operated automatic feed. Capacity from 5 x 8 to 8½ x 14 inches.

Prices 1956 Coronet Model SWA \$175.00

## Rocket Model RHA

Hand Driven  
9 x 14

Drum type spirit duplicator. Hand operated automatic feed. Speed 120 to 130 copies per minute. Capacity from post cards to 9 x 14 inches.

Prices 1956 Rocket Model RHA \$240.00

## Coronet Model C9A

Hand Driven  
9 x 14

Drum type spirit duplicator. Hand operated heavy duty. Automatic feed holds 200 sheets. Capacity up to 9 x 14 inches.

Prices 1956 Coronet Model C9A \$395.00

## Standard Model SWA

Hand Driven  
8½ x 14

Field Duplicating Kit. Standard Model SWA, hand operated automatic feed. Capacity up to 8½ x 14 inches. Complete with necessary duplicator supplies in carrying case.

Prices 1956 Standard Model SWA \$238.00

# DUPLICATOR SPIRIT

Standard Duplicating Machines Corporation  
Everett 49, Massachusetts

## Coronet Model C18H

Hand Driven  
Hand Fed  
14 x 18

Drum type spirit duplicator. Hand operated, hand fed. Maximum capacity 14 x 18 inches.

Prices 1956 Coronet Model C18H \$675.00

## Coronet Model C18A

Hand Driven  
14 x 18

Drum type spirit duplicator. Hand operated, automatic feed for sheets up to 12 inches wide by 14 inches long. Sheets longer than 12 x 14 and up to 14 x 18 can be hand fed.

Prices 1956 Coronet Model C18A \$750.00

Wolber Duplicator and Supply Company  
Chicago 14, Illinois

## Copy-rite Duplicator Model EL-57

Electric  
8½ x 13

Electrically driven drum type spirit duplicator. Handles post card to legal size. Includes margin setter that is adjustable during operation. Reset counter included. For 110 V, 60 cycle AC. Special motors available.

Prices 1956 Copy-rite Duplicator Model EL-57 \$349.50

# DUPLICATOR SPIRIT

Wolber Duplicator and Supply Company  
Chicago 14, Illinois

Copy-rite Model L-55, L-57

Hand Driven  
9 x 14

Hand-cranked drum-type spirit duplicator. Handles post card to legal size 9 x 14 inches. Margin setter has seven line range, can be set while machine is in operation. Includes reset counter.

Prices 1956 Copy-rite Model L-55  
Copy-rite Model L-57  
(similar to model L-55 but  
heavier in construction)

\$133.50

\$224.50

Copy-rite Model L-53

Hand Driven  
9 x 14

Hand-cranked drum-type spirit duplicator. Similar to manufacturers model L-45 but lighter in construction and without margin setter.

Prices 1956 Copyrite Model L-55

\$157.50

# DUPLICATOR SPIRIT

Master Addresser Company  
Minneapolis 16, Minnesota

Master Portable Liquid Duplicator

Flat-Bed  
Portable  
8½ x 11  
8½ x 14

A light compact flat-bed duplicator using the spirit hectograph process. Consists of pan-shaped bed and printing head. Printing head contains pressure roller, moistening roller, and wick for fluid. Uses standard spirit process masters. Master is clamped face up in the pan. Paper is placed on paper guide. Head is rolled over the master. Manufacturer claims speed of 600 per hour for skilled operator. Made in letter size, 8½ x 11, and legal size 8½ x 14 inches. Dimensions: Letter size, 10 x 16 x 3 inches high. Weight net 13 lbs. Legal size, 19 x 19 x 3 inches high. Weight net 15 lbs.

Prices 1956 Master Portable Liquid Duplicator, Letter size,  
with case.  
Master Portable Liquid Duplicator, Legal size,  
with case.

Not available

Not available

SUPPLIES  
CHEMICAL DUPLICATOR

A. B. Dick Company  
5700 W. Touhy Avenue  
Chicago 31, Illinois

Supplies for the Dick Azograph Duplicator

Master units:

8½ x 11, per 100	\$ 6.25
8½ x 14, per 100	7.80
17 x 11, per 100	12.00
17 x 14, per 100	15.10

Master paper:

8½ x 11, box of 500	3.30
8½ x 14, box of 500	4.15

Transfer sheets, (Azograph "carbon"):

8½ x 11, per 100	4.80
8½ x 14, per 100	6.00

Azograph duplicating fluid.

(Do not use in spirit duplicators.) per gallon . . . . . 3.00

Rubber eraser . . . . . .10

Preprinted masters or guide printed masters available  
on special order.



## SUPPLIES

Ditto, Inc.  
Harrison at Oakley Blvd.  
Chicago 12, Illinois

Supplies for the Ditto Chemograph duplicator

## Master units:

"Royalty Hi-Gloss" 8 1/4 x 11, per 100 . . . . . \$7.35  
"Dittmark Hi-Gloss", 8 1/4 x 14 per 100 . . . . . 8.35

## Carbons:

"Royalty, Hi-Gloss", 8 1/4 x 11 per 100 . . . . . 6.30  
8 1/4 x 14 per 100 . . . . . 7.05  
"Dittmark Hi-Gloss", 8 1/4 x 11, per 100 . . . . . 5.00  
8 1/4 x 14, per 100 . . . . . 5.75

Chemograph Duplicating Fluid, per gallon . . . . . 4.20

## Lists of Suppliers

Hecto Products Inc.  
110 W. 15th Street  
New York 11, N. Y.

Supplies for gelatin duplicators, gelatin refill composition, gelatin sheets and rolls, gelatin process master units and carbons, inks, typewriter ribbons, pencils, copy paper, correction pencils and hand cleaner.

Heyer Corporation  
Chicago 23, Illinois

Supplies for gelatin duplicators, refill composition gelatin sheets and rolls, carbon papers, inks, pencils, typewriter ribbons and hand cleaner.

Old Town Corporation  
345 Madison Avenue  
New York 17, N. Y.

Supplies for gelatin duplicators, carbons, master units, typewriter ribbons, master paper, copy paper, and hand cleaner.

## SUPPLIES

Rex-O-Graph, Inc.  
7838 Hicks Street  
Milwaukee 14, Wisconsin

Supplies for gelatin duplicators, master units and carbons.

# SUPPLIES GELATIN DUPLICATOR

## Representative Prices, 1956

The following prices were obtained from manufacturer's price lists. They show the price range in which the prices of individual items may be expected to fall.

### Carbon paper, gelatin duplicator:

colors, 8 1/2 x 11, per 100 . . . . .	\$ 5.00
8 1/2 x 14, per 100 . . . . .	5.75
purple, 8 1/2 x 11, per 100 . . . . .	4.00-\$4.50
8 1/2 x 14, per 100 . . . . .	4.75-\$5.25
Gelatin films, 8-3/4 x 14-1/4, set of 3 . . . . .	3.25-\$3.60
Gelatin films, 8-3/4 inches x 15 feet long . . . . .	8.55
14 inches x 15 feet long . . . . .	12.50
Gelatin refill compound for pan d'plicators, 1 lb. . . . .	1.50
Ink, hectograph, purple, blue, red, green, black, yellow, orange, or brown, per 4 ounce bottle . . . . .	1.35
Pencils, hectograph, purple, each . . . . .	.15
red, blue or green . . . . .	.20
Ribbons, typewriter, hectograph . . . . .	1.00

# SUPPLIES SPIRIT DUPLICATORS

## List of Suppliers

Ditto, Inc.  
Harrison at Oakley Blvd  
Chicago 12, Illinois

Supply master units, spirit carbons, duplicator fluid, copy paper, master paper, card and tag stock, hand cleaner, duplicator fluid, type and platen cleaner and correction tape.

Hecto Products, Inc.  
110 W. 17th Street  
New York 11, N. Y.

Supply spirit masters in purple, black and color, spirit carbons, duplicator fluid, copy paper, correction pencils and hand cleaner.

Meyer Corporation  
Chicago 23, Illinois

Supply master units and carbon papers in purple and colors, blackout correction fluid, correction pencils and duplicator fluid.

Old Town Corporation  
385 Madison Avenue  
New York 17, N. Y.

Supply master units, spirit carbons, master paper, duplicator fluid, typewriter ribbons and hand cleaner.

Rex-O-Graph, Inc.  
7838 Hicks Street  
Milwaukee 14, Wisconsin

Supply master units and carbon papers in purple and colors, blackout correction fluid, correction pencils, and duplicator fluid.

# **SUPPLIES SPIRIT DUPLICATORS**

Speedliner Company  
4404 N. Ravenswood  
Chicago 40, Illinois

Supply master units, spirit carbons in colors, master paper, bond duplicator paper, fiberglass correcting erasers, and preprinted master units to order.

Standard Duplicating Machines  
Everett 49, Massachusetts

Supply master units, master paper, carbons in colors, copy paper, duplicating fluid, hand cleaner and correction pencils.

Wolber Duplicator and Supply Company  
1201 Cortland Street  
Chicago 14, Illinois

Supply master units, spirit carbons in colors, master paper, copy paper, duplicating fluid, backing sheets, correcting pencils and hand cleaner.

## **Representative Prices 1956**

The following prices were obtained from manufacturer's price lists, and show a range within which the prices of individual items may be expected to fall.

### **Backing sheets:**

8½ x 11, 8½ x 13, 8½ x 14 each . . . . . \$0.15-\$0.50  
11 x 17, 14 x 17, each . . . . . .30- .75

Carbon paper, spirit, black,  
8½ x 11 per 100 . . . . . 6.25  
8½ x 14 per 100 . . . . . 7.00

Carbon paper, spirit, in colors,  
8½ x 11, per 100 . . . . . 5.25- 5.75  
8½ x 14, per 100 . . . . . 6.25- 6.50

Carbon paper, spirit, purple,  
8½ x 11, per 100 . . . . . 4.25- 5.75  
8½ x 14, per 100 . . . . . 5.00- 6.50  
Cleaner, hand, lb . . . . . .98- 1.05  
Cleaner, type and platen, pt . . . . . 1.15  
Correcting pencils, each . . . . . .15  
Correcting tape, roll . . . . . 2.90- 3.50

# **SUPPLIES SPIRIT DUPLICATORS**

Fluid, spirit duplicating, per gallon . . . . . \$2.60-\$4.20  
Master units, black, 8½ x 11, per 100 . . . . . 7.25- 7.75  
8½ x 14, per 100 . . . . . 8.00- 8.75  
color, 8½ x 11, per 100 . . . . . 6.75  
8½ x 14, per 100 . . . . . 7.50  
purple, 8½ x 11, per 100 . . . . . 3.90- 7.50  
8½ x 14, per 100 . . . . . 4.65- 8.60  
Paper, copy, bond 8½ x 11, per 500 . . . . . 1.40- 2.05  
8½ x 14, per 500 . . . . . 2.15- 2.55

STENCIL DUPLICATOR  
ELECTRIC  
9 x 16

A. P. Dick Company  
Chicago 31, Illinois

Mimeograph Model 450

Electrically driven cabinet model stencil duplicator. Handles paper and card stock 3 x 5 to 9 x 16 inches at speeds from 60 to 180 copies per minute. Copy positioning controls for vertical, horizontal or angular adjustments. Automatic tension control on ink pad, automatic copy stacker and lever operated stencil clamp. Automatically elevating feed table holds 500 sheets. Copy recorder shuts off feed and rings bell at end of run. Motor and Reeves-type motor drive contained in cabinet. Motors for 60 cycle 110 V AC, or 110 V DC available. Dimensions of duplicator, length 46 1/4 x width 20 1/4 x height 47 inches. Dimensions of cabinet, height 29 x length 30 1/4 x width 18 inches. Weight of duplicator and cabinet 265 lbs.

Price 1956 Mimeograph Model 450 with Model 26 cabinet,  
including Federal Tax . . . . . \$1267.76

A. B. Dick Company  
Chicago 31, Illinois

Mimeograph Model 435

Electrically driven stencil duplicator mounted on open stand. Stand has built-in start-and-stop foot control. Duplicator handles paper or card stock from 3 x 5 to 9 x 16 inches. Reset counter registers up to 999. Tension control maintains tautness of ink pad. Copy adjustment for vertical, horizontal and angular positioning. Stencil clamp takes all types of stencils. Feed table holds 125 sheets. Speed 140 copies per minute. Attachments available for hand feed at 80 copies per minute.

Price 1956 Mimeograph Model 435, including Federal Tax . . . . . \$675.22

A. B. Dick Company  
Chicago 31, Illinois

Mimeograph Model 445

Electrically driven table-top model stencil duplicator. Handles paper from 13 pounds to card stock in sizes from 3 x 5 to 9 x 16 inches. Speed range from 60 to 180 copies per minute. Copy can be positioned laterally or vertically without changing feed table setup. Slanted printing can be corrected without moving stencil. Automatic ink feed, automatic copy stacker and lever operated stencil clamp. Copy counter shuts off feed and rings bell when run is finished. Feed table holds 500 sheets. Standard motor drive for 110 V, 60 cycle AC. 110 V DC motor available. Dimensions, length 46 1/4 x width 21 x height 20 1/4 inches. Weight 153 lbs.

Price 1956 Mimeograph Model 445, including Federal Tax . . . . . \$1015.48

STENCIL DUPLICATOR  
ELECTRIC  
9 x 16

A. B. Dick Company  
Chicago 31, Illinois

Mimeograph Model 437



Electrically driven table-top model stencil duplicator. Handles paper from 16 pounds to card stock in sizes from 3 x 5 to 9 x 15 inches. Speed range 90 to 180 copies per minute. Copy position adjustments — lateral by knob, vertical by calibrated adjustment over range of 18 typewriter spaces, and lever control for angular adjustment with relation to leading edge of paper. Stencils removable from cylinder from either end. Has automatic tension for keeping ink pad taut. Automatic rising feed table holds 500 sheets. Dimensions, height 18-5/8 x length 34 x width 21 inches. Weight 114 lbs.

Price 1956 Mimeograph Model 437, including Federal Tax . . . . . \$72.00

STENCIL DUPLICATOR  
ELECTRIC  
9 x 16

Marr Duplicator Company, Inc  
New York, New York

20th Century Electric Model E Stencil Printing Press

Drum-type, motor driven stencil duplicator. Handles 3 x 5 inch to 9 x 16 inch paper and card stock, and papers irregularly cut or stacked. Printing press type continuous load-feed (non-stop loading). Speed 65 to 200 copies per minute. Capacity, 500 sheets. Positioning control. Controlled inking, one pound ink reservoir. Counter stops machine when run is completed. Enclosed cylinder. Clutch for hand operation. Rubber-mounted 1/4-hp motor. Marr interleaver available, provides slipsheets between finished copies, capacity 100 copies. Cabinet or table models. Lucite ball racer side guide available for handling and register of cards, envelopes, heavier papers, mis-cut papers.

Prices including Federal Tax:

Model E cabinet model electric . . . . .	\$842.70
Model E table model electric . . . . .	747.30
Marr Interleaver . . . . .	75.00
Marr Ball Race Guide . . . . .	12.50

Marr Duplicator Company, Inc  
New York, New York

Marr "mercury" Electric, Model B-1

Drum-type, motor driven stencil duplicator. Handles 3 x 5 to 9 x 16 inch sheets and cards. Variable speed prints up to 6000 per hour. Automatic feed. Continuous loading. Printing to the last sheet. Automatic roller release. Automatic paper alignment. Counts only printed sheets. Capacity, 500 sheets.

Price Model B-1 cabinet model electric . . . . . \$583.00

These are Federal Schedule Prices. Unless noted, other prices in the catalogue are commercial prices.

STENCIL DUPLICATOR  
ELECTRIC  
9 x 16

Marr Duplicator Company, Inc.  
New York, New York

Marr Portable Electric, Model G-2

Drum-type, motor driven stencil duplicator. Handles 3 x 5 to 9 x 16 inch sheets and cards. Two-speed drive with automatic continuous load feed. Produces up to 5000 copies an hour. May be hand driven. Counts only printed sheets. Automatic paper alignment. Automatic roller release. Capacity, 500 sheets.

Prices: 1956

Model G-2 table model electric . . . . . \$333.90

Marr Interleaver . . . . . \$ 75.00

STENCIL DUPLICATOR  
ELECTRIC  
9 x 16

Marr Duplicator Company, Inc.  
New York, New York

Model B-2

Same as Model B, Marr "monarch", but equipped with two-speed Portable Electric Drive.

Prices:

Model B-2 table model electric . . . . . \$455.80

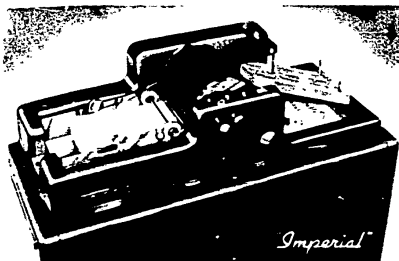
Marr Interleaver . . . . . \$ 75.00

These are Federal Schedule Prices. Unless noted, other prices in the catalogue are commercial prices.

**STENCIL DUPLICATOR  
ELECTRIC  
8 1/2 x 14**

Milo Harding Company  
Monterey Park, California  
Pittsburgh, Pennsylvania

Tempo Imperial Electric Duplicator



Drum-type, motor-driven stencil duplicator. Handles up to 8 1/2 x 14 inch size paper. Post card attachment for handling card stock as small as 3 x 5 inches. Automatic feed. Counter control shuts off feed when desired number of copies has been printed. Counts to 9500. Five line adjustment either way from center to raise or lower printing position. Cut-out clutch allows hand operation. Feed table accommodates up to 500 sheets of paper. Cut-off plate inside cylinder controls flow of ink for letter-size copy. Metered ink control. Inking while in operation. Speed control up to 200 copies per minute. Built-in Tempo Interleaver provides slipsheets between finished copies at speeds up to 180 per minute. Self-contained motor operates from standard wall plug, 60 cycle AC or DC. Stands and cabinets available.

Prices, not including Federal Tax:

Tempo Imperial . . . . .	\$825.00
Tempo Imperial Without Interleaver . . . . .	\$775.00

**STENCIL DUPLICATOR  
ELECTRIC  
9 x 16**

Niagara Duplicator Company  
Concord, California

Niagara Duplicator Model 250

A drum-type, motor driven stencil duplicator. Handles almost any weight of paper 2-1/2 to 9 inches wide by 2-1/2 to 16 inches long. Automatic paper feed. Feed tray has a capacity of 500 sheets. Predetermining counter provides for automatically stopping machine when run is completed. Machine stops when all but a few sheets have been fed from the tray. Adjustment for positioning print sideways on paper. Adjustment for raising and lowering print on paper. Adjustment for angular position of the print. Adjustment for heavy or light print. Closed cylinder with internal inking. May be hand driven. Speed sheetor slip-sheets automatically.

Price: Not available

Niagara Duplicator Company  
Concord, California

Niagara 110-E Electric Table Model

Drum-type, motor driven stencil duplicator. Handles paper and card sizes as small as 2-5/8 inches wide by 2-5/8 inches long. Front feed roller system. Feed tray holds 1/2 ream of paper. Variable speed from 70 to 140 copies per minute. Reset counter. Closed cylinder with internal inking. Removable handwheel for hand operation. Side margin adjustment. Nine-inch range for raising and lowering print 115 volts AC, 50/60 cycles. Available with Niagara slip sheetor, open drums for color work, predetermining counter, and selective inker.

Niagara 110-E Electric Table Model . . . . . \$398.00  
(Not including federal tax.)

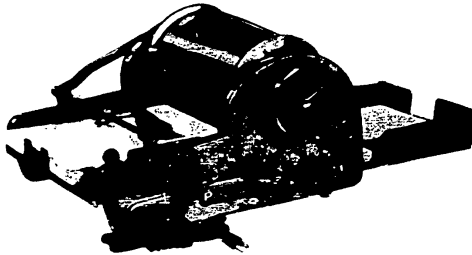
Niagara Slip Sheetor . . . . .	75.00
Open Drums for Color Work . . . . .	60.00
Predetermining Counter . . . . .	55.00
Selective Inker . . . . .	25.00

These are Federal Supply Prices.

**STENCIL DUPLICATOR  
ELECTRIC  
8 1/2 x 14**

The Print-O-Matic Company, Inc.  
Chicago, Illinois

Print-O-Matic Duplicator Model 6-A



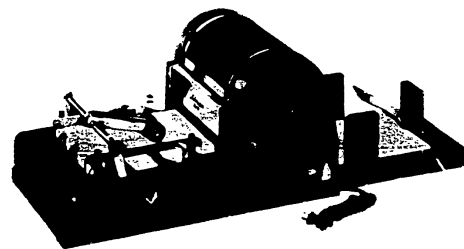
Drum-type, motor driven stencil duplicator. Prints on any size sheet, post card to legal size. Speed 6000 copies per hour. Dual adjustment paper grippers. Automatic feeding. Snap-on feed arm lifts off while loading. Semi-automatic "inside inking". Covered cylinder. Automatic roller release. Coupling device provides for manual operation when desired. AC-DC electric motor. Compact and portable for storing and carrying.

Price, not including Federal Tax . . . . . \$149.50

**STENCIL DUPLICATOR  
ELECTRIC  
8 1/2 x 14**

Speed-O-Print Corporation  
Chicago, Illinois

Liberator Model 300 Electric Stencil Duplicator



Drum-type, motor driven stencil duplicator. Handles post card to legal size (8 1/2 x 14-inch) paper and card stock. Electric automatic feed. Speed 6000 copies per hour. Device for raising and lowering printing position. Fast and slow speeds. Feed table capacity 275 sheets. Feeds to last sheet with automatic shut-off. Automatic roller release. Equipped with "C" cylinder (closed type with automatic brush inking). Available with "A" cylinder (open type for use with hand-applied ink brush) or "B" cylinder (open type with self-contained ink brush mechanism). Driven by 110 volt, dual-fan air-cooled motor; DC motor or other special types available. Shipping weight 85 lbs.

Price, not including Federal Tax \$389.50, Reset Counter \$10.00 extra.



# STENCIL DUPLICATOR ELECTRIC

Gestetner Duplicator Corporation  
United States Office  
Yonkers, New York

For the most part equipment described in this catalogue is manufactured in the United States. Gestetner Duplicators, manufactured in England, are representative of foreign made machines of the two-cylinder-type that are used in the United States. United States stencil duplicators have one cylinder or drum, and the inking of the stencil surface is generally done from inside the drum.

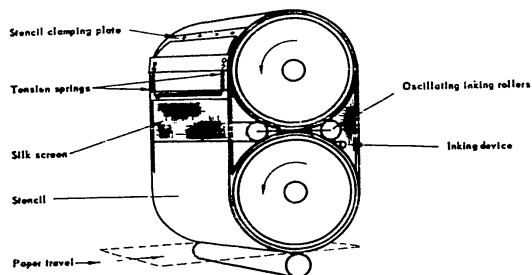


DIAGRAM SHOWING THE GENERAL ARRANGEMENT OF CYLINDERS, SILK CARRIER, STENCIL, OSCILLATING ROLLERS, AND INKING DEVICE IN A TWO CYLINDER STENCIL DUPLICATOR

# STENCIL DUPLICATOR ELECTRIC

With the Gestetner duplicators the ink is automatically applied to the outside of the cylinders across the width. Oscillating ink rollers spread the ink evenly over the cylinders. The cylinders are connected by two bands and revolve in the same direction. The stencil is placed on a silk screen. As the silk screen stencil carrier revolves with the cylinders, the inked surface is brought in contact with the silk screen and the ink is forced through the silk and stencil thus printing on the paper as it passes beneath the rollers.

Gestetner manufactures several models, both electric and hand driven. Depending on the model they will handle paper and card stock from 3 x 5 to 17 1/4 x 14 1/2 inches Model, maximum paper size, electric or hand-driven, and available Federal Schedule Prices follow. Federal tax is not included.

Model 105: 8-7/8 x 15 inch, hand-driven, price not available

Model 120: 8-7/8 x 15 inch, hand-driven, price not available

Model 230: 8-7/8 x 15 inch, hand-driven . . . \$330.00

Model 232: 8-7/8 x 15 inch, hand-driven . . . \$288.00

Model 260: 8-7/8 x 15 inch, electric . . . \$20.00

Model 280: 14-1/2 x 17-1/4 inch, electric, price not available.

Among several foreign stencil duplicators of the dual cylinder-type are the Rex-Rotary distributed by Bohn Duplicating Corporation, New York, New York, and the Geha distributed by Milo Harding Company, Monterey Park, California and Pittsburgh, Pennsylvania.

STENCIL DUPLICATOR  
HAND DRIVEN  
9 x 16

A. B. Dick Company  
Chicago 31, Illinois

Mimeograph Model 420

Hand cranked table-top model stencil duplicator. Handles paper and card stock from 3 x 5 to 9 x 16 inches at 75 or more copies per minute. Feed table holds 125 sheets. Stencil clamp holds all types of stencil. Copy adjustment provided for vertical, horizontal or angular adjustments.

Price 1956 Mimeograph Model 420, including Federal Tax . . . \$362.52

STENCIL DUPLICATOR  
HAND DRIVEN  
9 x 15

A. B. Dick Company  
Chicago 31, Illinois

Mimeograph Model 432

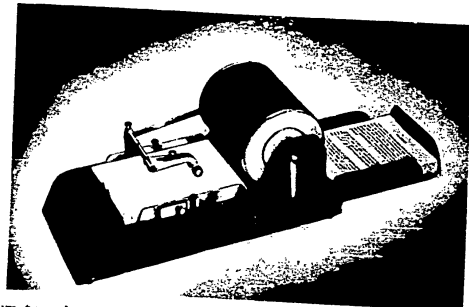
Hand cranked table-top model stencil duplicator. Handles paper and card stock from 3 x 5 to 9 x 15 inches at 75 or more copies per minute. Copy counter shuts off feed and rings bell at end of run. Positioning adjustments for lateral, vertical and slanted corrections. Automatically rising feed table. Instructions permanently mounted on receiving tray. Electric motor drives for 110 volts, AC or DC, available as accessories. Dimensions, length 34 x height 18-5/8 x width 23 1/2 inches. Weight 92 lbs.

Price 1956 Mimeograph Model 432, including Federal Tax . . . \$567 10

STENCIL DUPLICATOR  
HAND DRIVEN  
8 1/2 x 14

Heyer Corporation  
Chicago 23, Illinois

Heyer Lettergraph Model C



Drum-type, hand-driven stencil duplicator. Handles up to 8 1/2 x 14 inch paper. Has automatic feed. Open perforated cylinder is inked by hand, with a brush. Shipping weight 30 lbs.

Price 1956 Heyer Model C, not including Federal Tax . . . \$64.50

Heyer Corporation  
Chicago 23, Illinois

Heyer Lettergraph Model D

Drum-type, hand-driven stencil duplicator. Handles up to 8 1/2 x 14 inch paper. Has automatic feed. Cylinder is inked by hand. Includes automatic roller release to protect impression roller against ink if paper fails to feed. Shipping weight 31 lbs.

Price 1956 Heyer Model D, not including Federal Tax . . . \$74.50

STENCIL DUPLICATOR  
HAND DRIVEN  
8½ x 14

Heyer Corporation  
Chicago 23, Illinois

Heyer Lettergraph Model E

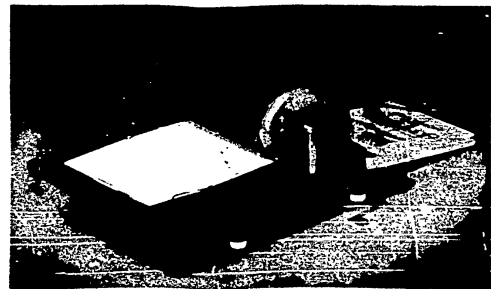
Drum-type, hand-driven stencil duplicator. Handles up to 8½ x 14 inch paper. Has automatic feed and automatic roller release to protect impression roller against ink if paper fails to feed. Automatically inked from half-pound supply poured in cylinder. Shipping weight 33 lbs.

Price 1956 Heyer Model E, not including Federal Tax . . . . \$84.50

STENCIL DUPLICATOR  
HAND DRIVEN  
7½ x 10½

Heyer Corporation  
Chicago 23, Illinois

Heyer Lettergraph Model 24



Small, light, portable, drum-type, low-priced model with a maximum printing surface of 7½ x 10½ inches. Inking from outside. Ink on pads wrapped around cylinder feeds through stencil. Shipping weight 18 lbs.

Price 1956 Heyer Model 24 Lettergraph, not including Federal Tax \$29.50

STENCIL DUPLICATOR  
HAND DRIVEN  
9 x 16

Marr Duplicator Company, Inc.  
New York, New York

Marr "fleetwing" Model G

Drum-type, hand driven stencil duplicator. Handles 3 x 5 to 9 x 16 inch paper and card stock. Continuous automatic feed. Can produce up to 4000 copies per hour. Remote control inking. Counts only printed sheets. Automatic paper alignment. Automatic roller release. Capacity, 500 sheets.

Prices, including Federal Tax:

Model G table model hand operated . . . . .	\$190.80
Marr Interleaver . . . . .	\$ 75.00
Marr Portable Electric drive for use on Model G . . . . .	\$135.00
Marr Cabinet Base . . . . .	\$ 55.00

Marr Duplicator Company, Inc.  
New York, New York

Marr "monarch" Model B

Drum-type, hand driven stencil duplicator. Handles 3 x 5 to 9 x 16 inch paper and card stock. Continuous automatic feed. Produces up to 4000 copies an hour. Automatic inking. Counts only printed sheets. Automatic paper alignment. Automatic roller release. Capacity, 500 sheets.

Prices, including Federal Tax:

Model B table model hand operated . . . . .	\$312.70
Marr Interleaver . . . . .	\$ 75.00
Marr Portable Electric Drive . . . . .	\$135.00
Marr Cabinet Base . . . . .	\$ 55.00

These are Federal Schedule Prices. Unless noted other prices in the catalogue are commercial prices.

STENCIL DUPLICATOR  
HAND DRIVEN

Marr Duplicating Company, Inc.  
New York, New York

Style Model

Table, hand operated stencil duplicator. No other information available.

Price:

Style model table hand operated . . . . .	\$92.75
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Marr Cabinet Base . . . . .	\$55.00
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These are Federal Schedule Prices. Unless noted other prices in the catalogue are commercial prices.

STENCIL DUPLICATOR  
HAND DRIVENNiagara Duplicator Company  
Concord, California

## Niagara 110-E Table Model, Hand Operated

Drum-type, hand driven stencil duplicator. Handles paper and card sizes as small as 2-5/8 inches by 2-5/8 inches. Front feed roller system. Feed tray holds 1/2 ream of paper. Closed cylinder with internal inking. Reset counter. Side margin adjustment. Nine-inch range for raising and lowering print. Can be converted to electric driven table model with Niagara Motor Base. Available with Niagara slip sheeter, open drums for color work, predetermining counter, and selective inker.

Niagara 110-E Table Model . . . . .	\$246.50
(Not including federal tax)	
Niagara Motor Base . . . . .	\$160.50
Niagara Slip Sheeter . . . . .	\$ 75.00
Open Drums . . . . .	\$ 60.00
Predetermining Counter . . . . .	\$ 55.00
Selective Inker . . . . .	\$ 25.00

These are Federal Supply Schedule Prices.

Niagara Duplicator Company  
Concord, California

## Niagara BX2M Table Model, Hand Operated

Drum-type, hand driven stencil duplicator. Feed tray holds 1/4 ream of paper. Self compensating roller pull feed. Reset counter. Nine-inch range for raising and lowering print. Closed cylinder with internal inking. Available with open drums for color. Predetermining counter and selective inker.

Niagara BX2M Table Model . . . . .	\$149.50
Open Drums . . . . .	\$ 60.00
Predetermining Counter . . . . .	\$ 55.00
Selective Inker . . . . .	\$ 25.00

These are Federal Supply Schedule Prices.

STENCIL DUPLICATOR  
HAND DRIVENNiagara Duplicator Company  
Concord, California

## Niagara Portable Model 110 S-54

Drum-type, hand driven stencil duplicator. 150 copies per minute. Feed roller system. Side margin adjustment. Paper level adjustment. Reset counter. May be motorized with Niagara Motor Drive Cabinet.

Price: Not Available

STENCIL DUPLICATOR  
HAND DRIVEN  
8 1/2 x 14

The Print-O-Matic Company, Inc.  
Chicago, Illinois

Print-O-Matic Duplicator Model 5-A

Drum-type, hand driven stencil duplicator. Prints on any size sheet, post card to legal size. Dual adjustment paper grippers. Self-feeding. Snap-on feed arm lifts off while loading. Semi-automatic "inside inking". Covered cylinder. Automatic roller release. Compact, portable for storing and carrying. Same features as Model 6-A except not electric.

Price, not including Federal Tax . . . . . \$89.50

STENCIL DUPLICATOR  
HAND DRIVEN  
4 x 6

The Print-O-Matic Company, Inc.  
Chicago, Illinois

Print-O-Matic Automatic Card Size Post Card Printer Model A-2G

Drum-type, hand driven stencil duplicator. Prints 3 x 5 to 4 x 6 inch card or paper stock. Speed 2000 copies per hour. Automatic card feeding. Covered cylinder.

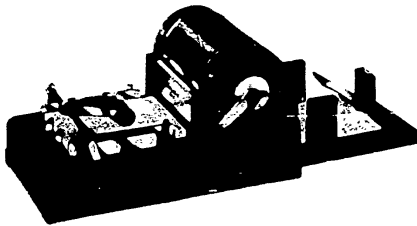
Price: \$18.95

Stencils for Model A-2G . . . . . \$1.85 per pkg. of 24 stencils

STENCIL DUPLICATOR  
HAND DRIVEN  
8½ x 14

Speed-O-Print Corporation  
Chicago, Illinois

Liberator Model 200 Manual Stencil Duplicator



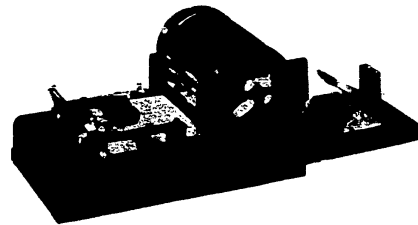
Drum-type, hand driven stencil duplicator. Handles post card to legal size (8½ x 14 inch) paper and card stock. Automatic feed. Speed 5000 copies per hour. Device for raising and lowering printing position. Feed table capacity 275 sheets. Automatic roller release. Equipped with "C" cylinder (closed type with automatic brush inking). Available with "A" cylinder (open type for use with hand-applied ink brush) or "B" cylinder (open type with self-contained ink brush mechanism). Shipping weight 57 lbs.

Price, not including Federal Tax . . . \$199.50, Reset Counter \$10.00 extra.

STENCIL DUPLICATOR  
HAND DRIVEN  
8½ x 14

Speed-O-Print Corporation  
Chicago, Illinois

Liberator Model 100 Manual Stencil Duplicator



Drum-type, hand driven stencil duplicator. Handles post card to legal size (8½ x 14 inch) paper and card stock. Automatic feed. Speed 4000 copies per hour. Feed table capacity 225 sheets. Device for raising and lowering printing position. Automatic roller release. Equipped with "B" cylinder (open type with self-contained ink brush mechanism). Available with "A" cylinder (open type for use with hand-applied ink brush) or "C" cylinder (closed type with automatic brush inking). Shipping weight 52 lbs.

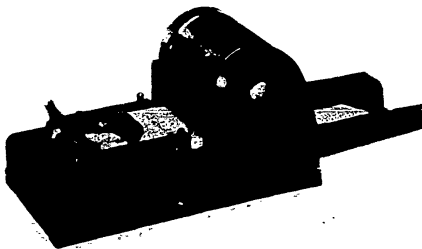
Price, not including Federal Tax . . . \$149.50, Reset Counter \$10.00 extra.



STENCIL DUPLICATOR  
HAND DRIVEN  
8½ x 14

Speed-O-Print Corporation  
Chicago, Illinois

Liberator Model 75 Manual Stencil Duplicator



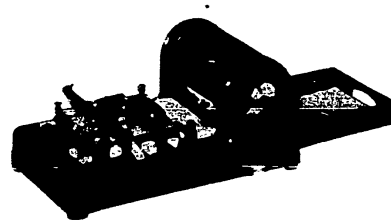
Drum-type, hand driven stencil duplicator. Handles light to heavy stock in sizes 2½ x 5 to 6 x 9½ inches. Automatic feed. Speed 2000 copies per hour. Device for raising and lowering of printing position. Inside inking. Shipping weight 15 lbs.

Price, not including Federal Tax . . . . . \$39.50

STENCIL DUPLICATOR  
HAND DRIVEN  
6 x 9½

Speed-O-Print Corporation  
Chicago, Illinois

Liberator Model 50 Manual Stencil Duplicator



Drum-type, hand driven stencil duplicator. Handles light to heavy stock in sizes 2½ x 5 inch to 6 x 9½ inch. Automatic feed, 2000 copies per hour. Device for raising and lowering of printing position. Inside inking. Shipping weight 15 lbs.

Price: \$39.50, Federal tax not included.

## STENCILS

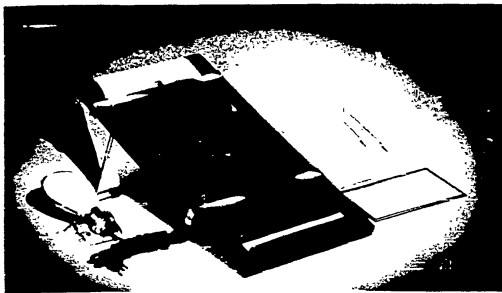
	A. B. Dick Chicago, Illinois	Heys Corporation Chicago 21, Illinois	Milo-Hedding Company Menlo Park, California	Print-O-Matic Company Chicago 6, Illinois	Speed-O Print Corporation Chicago 12, Illinois	Remington Rand New York, New York	Stencil Sales Division Times Facsimile Corporation New York, New York	Wagner Duplicator Corporation Concord, California
Crude	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.
Regular, uncoated	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.
Paper, coated	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.
Economy, uncoated	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.
Economy, coated	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.
Lowest Priced, Shortest Run, uncoated	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.
Lowest Priced, Shortest Run, coated	L \$1.75 S \$3.45	L \$1.50 S \$3.35	L \$1.25 S \$3.20	L \$1.75	L \$1.50 S \$3.35	Stencil stencils and prices not available.	Stencil for stencil prices not available.	Stencil stencils and prices not available.

Note: L indicates "Large" or 6 1/2 x 14 inch size.  
S indicates "Small" or 6 1/2 x 11 inch size.

Prices are per unit of 24 stencils.

TRACING FRAMES  
STENCIL

Illuminated tracing frames for stencil work.

Speed-O-Print Corporation  
Chicago 13, Illinois

Speed-O-Print De Luxe Scope	\$49.50
Speed-O-Print Economy Scope	34.50

Hayer Corporation  
Chicago 23, Illinois

Hayer Clearscope	16.50
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Print-o-Matic Company, Inc.  
Chicago 6, Illinois

Print-O-Scope	4.95
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Milo Harding Company  
Monterey Park, California

Tempo Scope, standard model, incandescent	29.85
Tempo Scope, fluorescent model	48.85

A. B. Dick,  
Chicago, Illinois

Table-Top model	Prices not available
Floor model	

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TRACING FRAMES  
STENCILMarr Duplicator Company, Inc.  
New York, N. Y.

Marr Stencil Scope, fluorescent

\$35.00

Niagara Duplicator Corporation  
Concord, California

Niagarascope

Prices not available

329

#### STENCIL DUPLICATOR AIDS

Such items as shading plates, various types of styli, lettering guides, and precision guides are available from the manufacturers of many of the stencil duplicators. These items are also available from other sources such as art supply stores. Shading plates of various patterns are used to give tone and texture to duplicating work. Styli are made in different widths for different types of lettering and line work. There are also stylus shading wheels and music styli that produce five lines of the music staff at once. Lettering guides are made in upper and lower case, and different types and sizes of lettering. Precision guides contain outlines of circles, ovals, squares, music symbols, curves, and other various designs. Following is a list of stencil duplicator manufacturers that handle these supplies:

A. B. Dick  
Chicago, Illinois

Shading plates, lettering guides, and styli.

The Heyer Corporation  
Chicago, Illinois

Shading Plates, lettering guides, precision guides, and styli.

Speed-O-Print Corporation  
Chicago, Illinois

Shading plates, lettering guides, precision guides, and styli.

#### CATALOGUE OF OFFSET PRINTING EQUIPMENT AND SUPPLIES

This catalogue section lists the principal equipment and supplies needed for the offset printing of small quantities of data sheets. While offset presses would not ordinarily be purchased for small-quantity production, their common use as office duplicators often makes them readily available for use.

Offset presses were selected for listing on the basis of size and simplicity. Only those presses were included that print conventional office sizes and can be operated by non-specialist personnel. The plate making devices were similarly selected for size and simplicity.

Only presensitized and direct-image plates which are of office duplicator size and which can be prepared with a minimum of equipment and training are listed. Chemicals for processing are listed under the plates. A step outline of the preparation process is included when furnished by the manufacturer.

OFFSET PRESS  
9-3/4 x 14

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

MULTIGRAPH MODEL 80



Office model offset press. Prints sheets from 3 x 5 to 9-3/4 x 14 inches with automatic feeder.

Specifications for Model 80: motor operated, hand fed. Paper sizes: maximum 9-3/4" wide by 14" long; minimum 3" wide by 5" long when using automatic paper feeder. Paper weight: from 16 pound substance to standard postcard stock can be hand fed. Maximum duplicating area: 9-1/2 inches wide by 13 inches long. Speed: normal operating speed is 75 RPM without three speed control. Motor: 1/4 H.P. Finish: brown. Weight: net 184 lbs., gross 300 lbs., export gross 395 lbs., Cubic measurement: 23.7 c.f.

Specifications for automatic feeder: Magazine capacity: approximately 100 sheets of sixteen pound substance. Sheet size 3 inches wide by 5 inches long to 9-3/4 inches wide by 14 inches long. Operates most efficiently on paper in weights from 16 pound minimum, to stock equivalent to 110 pound substance, in a variety of surface finishes.

Standard equipment: master cylinder (No. 50-165-1A1) with hinged hook bar clamps (cylinder with hinged pin bars, 40-165-1A2, optional, if specified) for 10 by 15-inch masters, ink mechanism with Simflo control, hand feed table, receiving shelf, one blanket, cabinet stand, and standard AC 115 volt, 60 cycle, single-phase motor. (Optional at no extra charge is a single-phase motor: AC, 115 volt, 50 cycle; AC, 230 volt, 60 cycle; or AC, 230 volt, 50 cycle.)

OFFSET PRESS  
9-3/4 x 14

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

MULTIGRAPH MODEL 80

Prices 1956:

Cat. No.

54-M-28300	Multigraph Model 80 (basic machine), Offset principle, Multilith process, Simflo control	\$800.00
	Multigraph Model 80, Offset principle, Multilith process, Simflo control, but including, in addition, an automatic feeder	218.50
	Charge for packing Model 80 for overseas shipment in conformity with vendor's established practices	25.00
	Overseas repair kit and overseas installation, 80-3500-A	104.45
	Supply kit, 200-821-A	17.27

Note: Above prices do not include Federal Excise Tax.

OFFSET PRESS  
9-3/4 x 14

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

MULTIGRAPH MODEL 81

Office type offset press. Prints paper sizes 3 x 3-1/2 to 9-3/4 x 14 inches.  
Speed 5000 RPH.

Specifications for Model 81: Simflo control, stand, motor operated, hand fed.  
Paper sizes: maximum 9-3/4 inches wide by 14 inches long; minimum 3 inches wide by  
3-1/2 inches long when hand feeding; 3 inches wide by 5 inches long when using auto-  
matic paper feeder. Paper weights: from 16 pound substance to standard postcard  
stock can be hand fed. Maximum duplicating area: 9-1/2 inches wide by 13 inches  
long. Speed: normal operating speed 5,000 RPH. Rear delivery: capacity approxi-  
mately 500 sheets. Side delivery: capacity approximately 100 sheets. Motor:  
1/4 H.P. Finish: brown. Weight: net 220 lbs., gross 265 lbs., export gross 400 lbs.,  
Cubic measurement: 32 c. f.

Specifications for automatic feeder: magazine capacity approximately 100 sheets  
of 16 pound substance. Sheet size 3 inches wide by 5 inches long to 9-3/4 inches wide  
by 14 inches long. Operates most efficiently on paper in weights from 16 pound  
minimum, to stock equivalent to 110 pound substance, in a variety of surface finishes

Standard equipment: master cylinder with hinged hook bar clamps, (cylinder  
with binged pin bar clamps optional) for 10 by 15-inch masters. Four grippers, three  
feeler fingers, ink mechanism with new style Simflo control, sheet counter, hand feed  
table, Blankrola dispenser, mirror, rear and side delivery chutes, stand, blanket  
(black), and standard AC, 115 volt, 60 cycle, single-phase motor. (Optional at no  
extra charge is a single-phase motor: AC, 115 volt, 50 cycle; AC, 230 volt, 60 cycle;  
or AC, 230 volt, 50 cycle.)

Prices 1956:

Cat. No.

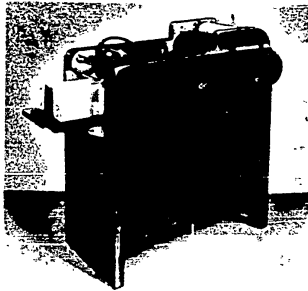
54-M-28300	Multigraph Model 81 (basic machine), Offset principle, Multilith process, Simflo control	\$950.00
	Multigraph Model 81, Offset principle, Multilith process, same as basic machine (above) but including, in addition, an automatic paper feeder	1,068.50
	Charge for packing Model 81 for overseas shipment in conformity with vendor's established practices	26.00

Note: Above prices do not include Federal Excise Tax.

# OFFSET PRESS 10 x 15

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

## MULTIGRAPH MODEL 750



Office type offset press Prints sheets from 3 x 5 to 9-3/4 x 14 inches. Speed 5200 RPH.

Specifications for Model 750: motor operated, automatic feeder. Feeder magazine: capacity 1,000 sheets of 20 pound paper; multiple sheet detector, electrically actuated to detect two or more sheets. Automatic 7-roller ink mechanism with improved Simflo control. Paper sizes: maximum 9-3/4 inches wide by 14 inches long; minimum 3 inches wide by 5 inches long. Paper stock: from 16 pound substance to standard postcard stock in a wide variety of surface finishes can be fed. Duplicating area: maximum image 9-1/4 inches wide by 13 inches long with 3/8 inch minimum lead margin. Speed: machine speed 5200 RPH. Motor: 1/3 H.P., standard AC, 115 volt, 60 cycle, single-phase with 1/2-inch shaft for operating duplicator and vacuum pump. Finish: brown. Weight: net 318 lbs., gross 450 lbs., export gross 620 lbs., Cubic measurement: 57 c.f.

Standard equipment: master cylinder (50-165-1A1) with hinged hook bar clamp for 10 by 15-inch masters (optional master cylinder, 40-165-1A2, with hinged pin bar clamp), automatic vacuum paper feeder (1,000 sheet capacity), panel mounted dials for vacuum and blower control, ink mechanism with improved Simflo control or Repelex unit (order must specify which), double suction foot, sheet counter, multiple sheet detector, paper receiver, three feeler fingers, cabinet stand, four grippers, blanket, cover, and utility tray. Standard AC, 115 volt, 1/3 H.P., 60 cycle single-phase motor. (Optional at no extra charge is a single-phase motor: AC, 115 volt, 50 cycle; AC, 230 volt, 60 cycle or 50 cycle.)

# OFFSET PRESS 10 x 15

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

## MULTIGRAPH MODEL 750

Prices 1956:

Cat. No.

54-M-2830	Multigraph Model 750 (basic machine), Offset principle, Multilith process, Simflo control - - - - -	\$1,465.00
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	Multigraph Model 750 (basic machine), Offset principle, Multilith process, with Repelex unit - - - - -	1,465.00
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Note: The following master cylinders will be furnished as optional equipment at no additional cost, if specified on order:

40-350-1A1 with pin bar for 8-1/2 by 12-inch masters.

40-350-1A2 with pin bar hinge lead clamp for 8-1/2 by 12-inch masters.

Charge for packing Model 750 for overseas shipment in conformity with vendor's established practices - - - - -	26.00
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750-4700-A Overseas repair parts kit - - - - -	125.45
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200-821-A Overseas installation supply kit - - - - -	17.27
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Note: Above prices do not include Federal Excise Tax.

# OFFSET PRESS 11 x 14

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

## MULTIGRAPH MODEL 1250

Office model offset press. Prints sheets from 3 x 5 to 11 x 14 inches at speeds from 3000 to 7500 per hour.

Specifications: motor operated, automatic vacuum paper feeder to hold 5,000 sheets of 20 pound paper, electrically actuated double sheet eliminator, horizontal straight line type conveyor board with micrometer adjustments on jogger guide, one suction foot (up to two additional suction feet can be added), automatic reset style sheet counter, counts to 99,999. Paper: 3 inches wide by 5 inches long to 11 inches wide by 14 inches long and in stock ranging from 13 pound bond to 3-ply bristol can be handled. Recommended duplicating area: 9-1/2 inches wide by 13 inches long (14-1/4-inch long image can be obtained by use of special cylinders). Motors: two 1/4 H.P., capacitor type. Finish: brown. Model 1250: Weight: net 640 lbs., gross 820 lbs., export gross 900 lbs., Cubic measurement 57 c.f., Model 1210 (receding stacker): Weight: net 124 lbs., gross 190 lbs., export gross 260 lbs., Cubic measurement: 22 c.f.

Standard equipment: automatic vacuum paper feeder, adjustable blanket cylinder, blanket, cabinet stand, cover, double sheet eliminator, inking mechanism, master cylinder with hook bar quick-change clamps (296-370-1A with lateral adjustment) for 10 by 15-inch masters. Repelex unit, receiving shelf, sheet counter, suction foot (metal), variable speed control, two capacitor type AC, 115 volt, 60 cycle, single-phase motors. (Optional at no extra charge are single-phase motors: AC, 115 volt, 50 cycle; AC, 230 volt, 60 cycle; or AC, 230 volt, 50 cycle.)

Note: 296-370-1A master cylinder with hook bar quick-change clamps for 10 by 15-inch masters is considered standard in the Multigraph Model 1250. The following styles of cylinders may be substituted in a new machine when shipped from the factory at no additional cost:

120-480-A1S master cylinder with stationary lead clamp for 8-1/2 by 12-inch punched hole masters.

120-450-A1 master cylinder with hook bar hinge lead clamp and trailing pin plate for 10 by 15-inch slotted and straight edge masters.

120-450-A2 master cylinder with pin bar hinge lead clamp and trailing pin plate for 10 by 15-inch punched hole masters.

# OFFSET PRESS 11 x 14

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

## MULTIGRAPH MODEL 1250



Prices 1956:

Cat. No.		
54-M-2830	Multigraph Model 1250 (basic machine) - - - - -	\$2,250.00
	Multigraph Model 1250, same as above, but including, in addition, the following as standard items:	
	120-450-A1 master cylinder with hook bar hinge lead clamp and trailing pin plate for slotted and straight edge masters, auxiliary vibrator roller, light fixture, oscillating Repelex rider roller, centrifugal clutch, and an extra suction foot - - - - -	2,352.00
	120-6900-A Repair parts kit packed for overseas shipment in conformity with vendor's established practices - - - - -	139.80
	200-821-A Installation supply kit packed for overseas shipment in conformity with vendor's established practices - - - - -	17.27
	Charge for packing Model 1250 for overseas shipment in conformity with vendor's established practices - - - - -	26.00

Note: Above prices do not include Federal Excise Tax.



# OFFSET PRESS 11 x 17

Addressograph-Multigraph Corporation  
Cleveland 17, Ohio

## MULTIGRAPH MODEL 1260

Office type offset press. Prints sheets from 2-1/4 x 2-1/2 to 11 x 17 inches at 3000 to 6000 per hour.

Specifications: motor operated, hand fed, automatic 10 roller ink mechanism with auxiliary vibrator roller, removable ink fountain with adjusting screws to control ink flow, and five position ratchet to control ink feed. Hand feed table: three feeler fingers, low card guide (provides for registering of information on various size sheets). Paper: minimum 2-1/4 inches wide by 2-1/2 inches long, maximum 11 inches wide by 17 inches long. Paper stock: ranging from 13 pound bond to 140 pound index or 3-ply Bristol may be fed consecutively. Maximum duplicating area: 9-3/4 inches wide by 13 inches long. Speed: 3,000 to 6,000 RPH. Motor: 1/4 H.P., capacitor start with 5/8-inch shaft. Finish: brown. Weight: net 395 lbs., export gross 750 lbs., Cubic measurement: 44 c.f.

Standard equipment: chrome Multi-Master clamp cylinder (120-480-3A1, 10 by 12 inches equipped with 10-inch wide Pin Bar), chrome plated compensating impression cylinder equipped with five gripper fingers, four stop fingers, three feeler fingers, ink mechanism including Auxiliary Vibrator Roller, Repelex mechanism including oscillating Repelex rider roller and Repelex wipers, centrifugal clutch, auxiliary ejector, variable speed control, hand feed table, low scored card guide, plunger can and bracket, paper receiving shelf with extended back stop, adjustable blanket cylinder, blanket, cabinet stand, capacitor start AC, 115 volt, 60 cycle, single-phase motor. (Optional at no extra charge is a single-phase motor: AC, 115 volt, 50 cycle; AC, 230 volt, 60 cycle; or AC, 230 volt, 50 cycle.)

### Prices 1956:

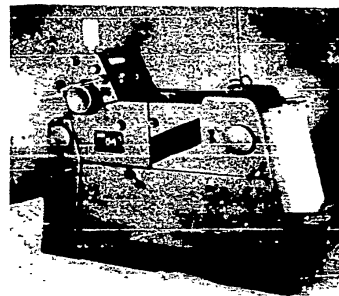
Cat. No.		
54-M-28300	Multigraph Model 1260 (basic machine), Offset principle, Multilith process	\$1,150.00
	Charge for packing Model 1260 for overseas shipment in conformity with vendor's established practices	22.00
Note: Above prices do not include Federal Excise Tax		

# OFFSET PRESS 11 x 15

American Type Foundry  
Elizabeth, New Jersey

## ATF CHIEF 15

Small heavy duty offset press. Speed 3200 to 7200 impressions per hour. Takes from 3 x 5 to 11 x 15 inch paper, from manifold to card stock. Printing area 9-3/4 x 13 inches. Quick change plate clamps permit use of pin-bar, oval, serrated or square end plater. Engineered for fast set-up time. Operating controls are set without tools. Interchangeable ink units permit rapid change to another color without delay. Weight 740 lbs, over-all dimensions 61 x 28 x 50 inches.



Price 1956:

ATF Chief 15, FOB, Whitinville, Massachusetts ----- \$3,150.00

Note: Above price does not include Federal Excise Tax.

OFFSET PRESSES  
DUAL

Davidson Corporation  
29 Ryerson Street  
Brooklyn 5, New York

DAVIDSON DUAL-LITH, VARIOUS MODELS

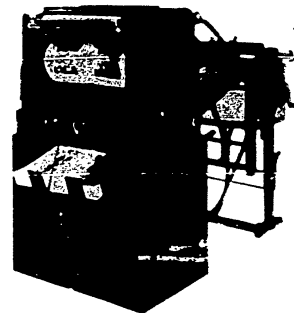
Office type offset printers of different sizes and speeds given below. Handle stock from light manifold to 3-ply card stock. The functions of plate cylinder and impression cylinder have been combined into a single plate-impression cylinder. The construction permits the use of auxiliary cylinder segments for letterpress printing from metal or rubber type, as well as engraving, perforating and imprinting. Normal operation is for offset printing, but can be used for simultaneous printing of both sides of sheet by using offset on one side and direct lithography on the other. Cylinder pressure automatically adjusts itself to different thicknesses of stock. A vacuum feeding system is used with a double sheet detector. Feeding table holds 5000 sheets of 20 pound bond. Two motors used, one for driving and one for vacuum pump.

OFFSET PRESSES  
DUAL  
14 x 17 1/4

Davidson Corporation  
29 Ryerson Street  
Brooklyn 5, New York

DAVIDSON DUAL-LITH, MODEL 233

Prints sheets from 4 x 6 to 14 x 17 1/4 inches at speeds from 3000 to 5400 per hour. Equipped with 3/4 H.P. drive motor and 1/3 H.P. pump motor. Dimensions: height 55-3/4 x length 65 inches. Floor space 35 x 65 inches. Shipping weight 1266 lbs.



Price 1956:

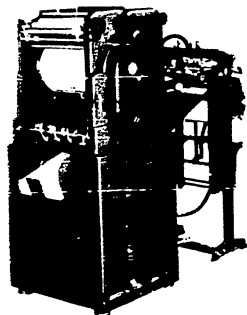
Dual-Lith, Model 233 ----- \$4,675.00

OFFSET PRESSES  
DUAL  
10 x 14

Davidson Corporation  
29 Ryerson Street  
Brooklyn 5, New York

DAVIDSON DUAL-LITH, MODEL 241

Prints sheets 3 x 5 to 10 x 14 inches at from 3600 to 6000 per hour. Equipped with 1/2 H. P. drive motor and 1/3 H. P. pump motor. Dimensions: height 55-3/4 x length 61 inches. Floor space 28-1/4 x 61 inches. Shipping weight 925 lbs.



Price 1956:

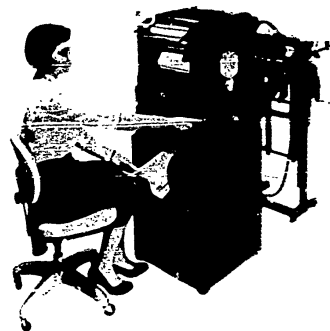
Dual-Lith, Model 241 - - - - - \$2,465.00

OFFSET PRESSES  
DUAL  
10 x 14

Davidson Corporation  
29 Ryerson Street  
Brooklyn 5, New York

DAVIDSON DUAL-LITH, MODEL 242

Designed for short run work by office personnel, but does longer run work as well. Controls are located for operation from sitting position. Has automatic blanket cleaner. Prints sheets from 3 x 5 to 10 x 14 inches at a speed of from 3000 to 6000 per hour. Equipped with 1/2 H. P. drive motor and 1/3 H. P. pump motor. Dimensions, height 55-3/4 x 61 inches. Floor space 28 1/4 x 61 inches. Shipping weight 925 lbs.



Price 1956:

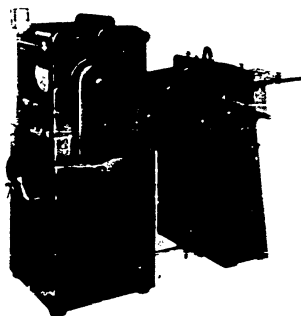
Dual-Lith, Model 242 - - - - - \$2,945.00

OFFSET PRESSES  
DUAL  
10 x 14

Davidson Corporation  
29 Ryerson Street  
Brooklyn 5, New York

DAVIDSON DUAL-LITH, MODEL 251

Prints sheets from 3 x 5 to 10 x 14 inches at from 2000 to 6000 per hour.



Price 1956:

Dual-Lith, Model 251 ----- \$3,065.00

OFFSET PRESS  
11 x 17

A. B. Dick Company  
5700 Touhy Avenue  
Chicago 31, Illinois

MODEL 350

Office model offset press. Prints sheets from 3 x 5 to 11 x 17 inches. Speed from 4500 to 9000 copies per hour. Cylinder pressures adjust themselves automatically to different thicknesses of stock. Universal master clamp takes slotted, serrated and straight-edged masters. Auxiliary clamp used for pin-bar punched masters. Inking system has 12 rollers. Dampening system easy to adjust. Requires 8.7 square feet of floor space.



Price 1956:

A. B. Dick Model 350 Offset Press ----- \$2,950.00

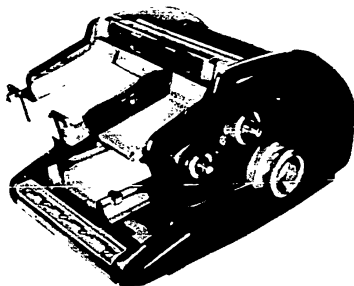
Note: Above price does not include Federal Excise Tax.

OFFSET PRESS  
DESK MODEL  
12 x 14

Ditto, Inc.  
Chicago 12, Illinois

DITTO OFFSET DUPLICATOR, MODEL L-10

Desk model offset duplicator for office use. Prints sheets from 3 x 5 to 12 x 14 inches. Speed up to 8000 sheets per hour. Handles from 13 pound bond to 90 pound index stock without adjustment and in any sequence. Paper feeder capacity is 500 sheets of 20 pound bond. Vacuum feed adjusts itself to varying thicknesses of paper. Has vertical register adjustment. Inking system has three rolls, inking of plate stops automatically if paper flow is interrupted. Controls are located along front edge of the machine. Powered by 1/2 H. P. motor. Floor space 25 x 32 inches.



Prices 1956:

Ditto Offset Duplicator, Model L-10 - - - - - \$1,465.00

Stand for Model L-10 - - - - - 329.00

Note: Above prices do not include Federal Excise Tax.

OFFSET PRESS  
14 1/2 x 20

Harris-Seybold Company  
Cleveland 5, Ohio

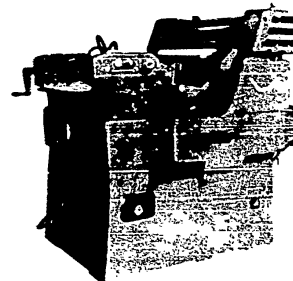
MODEL 120 (LUH)

A small, heavy-duty commercial type single color offset press. Takes 16-3/8 x 20-1/2 inch plate. Prints sheets ranging in size from 8 x 10 to 14-1/2 x 20-1/2 inches. Maximum thickness of stock 0.020 inches. Speed depends on printing conditions but ranges from normal speed of 600 to maximum of 7000. Single-sheet feeding from pile of 18 inches maximum. Inking mechanism has ten rollers. Water distribution is by five rollers. Power required: one 1-1/2 H. P. drive motor and one 3/4 H. P. feed motor.

Standard equipment includes:

2 sets blanket clamps	2 narrow water roll wipers
2 paper wedges	2 wide water roll wipers
1 pile feeder board	1 set tools
1 delivery pile board	1 water roll muslin cover

Alternate standard equipment includes motors for from 220 to 550 volt, three phase AC, for 220/440 volts 50 cycle AC, or for 115/230 volts DC. Floor space 4' wide by 5'6" long by 5'2" in height. Net weight 4000 lbs.



Price 1956:

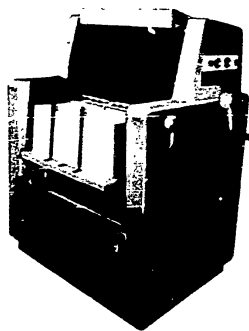
Harris-Seybold Model 120 (LUH) Offset Press - - - - - \$8,750.00

**OFFSET PRESS**  
14 x 20

The Miehle Printing Press and Mfg. Company  
Chicago 8, Illinois

**MIEHLE 17 LITHOPRINT**

Commercial type offset machine. Prints sheets from 4-1/8 x 6-3/4 to 14 x 20 inches. Plate size 14-1/2 x 17-3/4 inches. Speed up to 5000 sheets per hour. Infeed capacity, 10 inch pile; outfeed capacity, 4-inch pile. Design eliminates dampening rollers by applying water to the inking rollers. Design features include air blast and suction feeding, single-sheet detector to prevent inking of blanket roll in case of misfeed. Has combined sheet thickness gauge and roll pressure adjustment for direct setting. Plates mounted by pin-bars. Inking rollers completely accessible for cleaning. Centralized control panel has vacuum gauge, vacuum control, feed start and stop buttons, sheet counter, tachometer, and press start and stop buttons. Other operating controls conveniently located. Driven by 3/4 H. P. motor. Floor space 3' 5" x 3' 7". Weight 1120 lbs.



Price 1956:

Miehle 17 Lithoprint Offset Press, FOB, Chicago - - - - \$5,500.00

**PHOTOPRINTER**  
**OFFSET PLATE**

Table Model  
Portable  
12 x 18

Colwell Litho Products, Inc.  
Minneapolis, Minnesota

**COLIGHT CONTACT EXPOSURE FRAME, MODEL B**

Light table model designed for portability. Light source is a bank of five fluorescent lights with special light-distributing glass screen. Takes plates up to 12 x 18 inches. Frame faces upward for convenience in loading. Contact between negative and plate is maintained by heavy Neoprene cushion, orally inflated. Pressure is applied and the frame locked by a gear-controlled latch. Automatic timer has 15 minute range. Operates on 110 volts AC. Over-all dimensions 20 x 14 x 8 1/2 inches. Weight 45 lbs.

Price 1956:

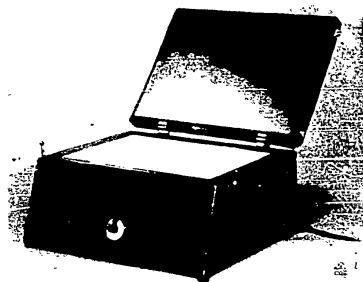
Colight Contact Exposure Frame, Model B,  
FOB, Minneapolis - - - - - \$170.00

PHOTOPRINTER  
OFFSET PLATE

Copease Corporation  
New York 17, New York

COPEASE PLATE MAKER

Printer for making negative and positive presensitized offset plates. Also usable for making transparencies for diazo prints and blue prints. Uses high-voltage, quick-starting fluorescent tubes.



Price 1956:

Copease Plate Maker ----- \$590.00

PHOTOPRINTER  
OFFSET PLATE  
11 x 16

Ditto, Inc.  
Chicago 12, Illinois

DITTO LITH MASTERLIGHT, MODEL M-2

Office type printer for offset plates up to 11 x 16 inches. Fluorescent lights used for exposure. Pneumatic pillow used to maintain contact between negative and plate. Synchronized exposure timer included. Power requirements 1.3 amperes at 110 volts, 60 cycle AC or DC. Dimensions: width 24 x depth 21 x height 33 inches. Shipping weight 75 lbs.

Price 1956:

Dittolith Masterlight, Model M-2 ----- \$169.50

PHOTOPRINTER  
OFFSET PLATE  
10 x 16

Duophoto Corporation  
New York 1, New York

DUOPHOTO COMMERCIAL PRINTER

Commercial box-type photoprinter for burning in negatives on all types of presensitized plates in about 3 to 5 minutes. Handles negatives up to 10 x 16 inches.

Price 1956:

Duophoto Commercial Printer, FOB, New York - - - - - \$49.50

PHOTOPRINTER  
OFFSET PLATE  
13 x 18

NuArc Company, Inc.  
Chicago 12, Illinois

NUARC RAPID PRINTER, MODEL RP13

Table model printer for offset plates up to 13 x 18 inches. Light source is carbon arc with an exhaust blower to remove fumes and smoke from arc housing. Box-type housing with vacuum frame hinged to top. Vacuum pump and motor included. Controls centralized on front panel. Operates on 110 volts 60 cycle AC. Current requirements: start 10 amperes, run 8 amperes. Dimensions: 20 x 24 x 16 inches.

Price 1956:

NuArc Rapid Printer, Model RP13, FOB, Chicago - - - - - \$249.00



**PHOTOPRINTER  
OFFSET PLATE**  
17 x 23  
21 x 24

NuArc Company, Inc.  
Chicago 12, Illinois

**NUARC RAPID PRINTER**

A combination enclosed carbon arc lamp and vacuum printing frame in one compact unit. Automatic arc control eliminates bouncing and sputtering to provide uniform intensity. Complete with timer. Draws 8 amperes from 110 volts 60 cycles

Prices 1956:

Model RP-17 for plates up to 17" x 23" - - - - -	\$373.00
Model RP-21 for plates up to 21" x 24" - - - - -	460.00

Without automatic arc control, deduct \$75.00, FOB,  
Chicago, Illinois

**PHOTOPRINTER  
OFFSET PLATE  
DESK MODEL**  
10 x 16

Robertson Photo-Mechanix, Inc.  
Chicago 31, Illinois

**DIAL-A-PLATE PRINTER, MODEL 1016**

Completely automatic exposure unit for offset plates up to 10 x 16 inches. Light source is a mercury vapor arc lamp with parabolic reflector. The output of the lamp is matched to the sensitivity of the offset plate emulsion. Light source is located in top of printer. Sliding vacuum frame pulls out for convenience in loading or unloading plates, and slides under light for exposure. Vacuum pump and motor are enclosed in rear of printer. Exposures are timed by setting dial on automatic-reset timer mounted on front of housing. Printer operates on 110 volts single phase 60 cycle AC. Current requirements 7 amperes. Dimensions, height 20-1/2, width 22-1/2, depth 28-1/2 inches. Net weight 100 lbs. Domestic shipping weight 115 lbs. Export shipping weight 150 lbs. Volume for export 14 cubic feet.



Prices 1956:

Robertson Dial-a-Plate Printer, Model 1016, FOB, Chicago Plant - - - - -	\$298.00
Packaging - - - - -	5.00

PHOTOPRINTER  
OFFSET PLATE  
10 x 16  
20 x 24

Robertson Photo-Mechanix, Inc.  
Chicago 31, Illinois

ROBERTSON DIAL-A-PLATE PRINTER

Enclosed high speed light source gives fast plate exposure. Accurate five minute timer included. Complete with vacuum pump FOB, Chicago, Illinois.

Prices 1956:

10" x 16" - - - - -	\$298.00	(Crating included)
20" x 24" - - - - -	\$450.00	(Crating \$20.00)

PHOTOPRINTER  
OFFSET PLATE

Remington-Rand  
New York 17, New York

PLASTIPHOTER

Office-type box exposier for offset platemaking. Takes plates up to 8 1/4 x 14 inches. High-intensity overhead mounted light used for exposing. Operates on 110 volts AC or DC.

Price not available.

OFFSET PLATES  
DIRECT IMAGE

Columbia Ribbon and Carbon Mfg. Company, Inc.  
Glen Cove, New York

COLITHO PLATES

A line of direct-image offset plates for all common Multilith and Davidson offset duplicators. Plates Nos. 50, 70, and 75 are specially packaged and sealed to insure electrostatic transfer of image using the xerographic process. Available as teletypewriter rolls and continuous flatpack for commonly used tabulating machines.

Colitho Plate No. 66, for up to 100 copies.

Colitho Plate No. 50, for runs and reruns up to 500 copies.

Colitho Plate No. 70, for runs and reruns up to 1000 or more copies.

Colitho Plate No. 75, for runs and reruns up to 2500 or more copies.

Colitho No. 50 Revisor Plate, an adhesive backed No. 50 plate for overlaying on existing image. Will not damage original image.

Colitho No. 50 Teletypewriter roll, 300 foot x 8 1/4 inches wide.

Colitho No. 50 Continuous flat pack for tabulating machines.

Prices not available.

# OFFSET PLATES DIRECT IMAGE

A. B. Dick Company  
Chicago 31, Illinois

## A. B. DICK OFFSET MASTERS

### Long Run Masters

Cat. No.	Machine	Size, Inches	Edge Type	Unit Price
2-1011	A. B. Dick Model 350 and Multiliths with short drum	8½ x 12	Straight	\$0.15
2-1014			Pin bar	0.15
2-1021	A. B. Dick Model 350 and Multiliths 80, 1200, and 1250	10 x 15	Straight	0.20
2-1024			Pin bar	0.20
2-1032		10 x 15-3/8	Serrated	0.20
2-1033		10 x 15½	Slotted	0.20
2-1041	Davidson 221	10 x 16	Straight	0.20

### Medium Run Masters

2-2011	A. B. Dick Model 350 and Multiliths with short drum	8½ x 12	Straight	.066
2-2014			Pin bar	.070
2-2021	A. B. Dick Model 350 and Multiliths 80, 1200, and 1250	10 x 15	Straight	.088
2-2024			Pin bar	.092
2-2033			Slotted	.092
2-2041	Davidson 221	10 x 16	Straight	.088

### Short Run Masters

2-4011	A. B. Dick Model 350 and Multiliths with short drum	8½ x 12	Straight	.043
2-4014			Pin bar	.047
2-4021	A. B. Dick Model 350 and Multiliths 80, 1200, and 1250	10 x 15	Straight	.055
2-4024			Pin bar	.059
2-4033			Slotted	.059
2-4041	Davidson 221	10 x 16	Straight	.055

# OFFSET PLATES DIRECT IMAGE

Ditto, Inc.  
Chicago, Illinois

## DITTO OFFSET PROCESS DIRECT IMAGE MASTERS

Paper masters for writing, typing, xerography, and similar methods of applying the image.

### Prices 1956:

DI 250 for 250 copies, 8-5/8 x 12 inches, per 1000	\$38.85
DI 250 for 50 copies, 14¼ x 12 inches, per 1000	66.55
DI 1000 for 1000 copies, 8-5/8 x 12 inches, per 1000	57.35
DI 100 for 1000 copies, 14¼ x 12 inches, per 1000	88.10

# OFFSET PLATES DIRECT IMAGE

Polychrome Corporation  
Yonkers, New York

## POLYCHROME DIRECT IMAGE OFFSET PLATES

For preparation by writing or typing, including Vari-Typer and other carbon paper machines.

Prices 1956:

Cat. No.	Press	Size, Inches	Punching	Pkg. *	Custom C D	Quality Q D
11	Multilith	8½ x 12	Straight	100B	\$11.90	\$ 6.85
21	Short drum	8½ x 11	Pin bar	100B	12.25	7.00
211	Multilith	8½ x 15	Pin bar	100B	14.25	7.00
12	Models	10 x 15	Straight	100B	15.75	8.60
22	40, 50, 75	10 x 15	Pin bar	100B	16.10	8.95
33	80, 1200,	10 x 15½	Serrated	100B	16.10	8.95
43	and #250	10 x 15½	Slotted	100B	16.10	8.95
14	Davidson 221, 241, 251	10 x 16	Straight	100B	16.75	9.10
112	Davidson 233	17¼ x 16	Straight	100B	29.00	15.80
113	Harris 17 x 22	23 x 19-3/4	Straight	20W		

\*Packaging, 100B = 100 boxed. 20W = 20 wrapped.

Note: Prefix CD to the above catalog numbers for Custom, and QD for Quality plates.

### Supplies for Direct Image Plates

Ribbons, typewriter, 1/2 inch, for standard typewriters, each	\$1.40
Ribbons, for IBM tabulator, 3/4 inch, each	1.95
Ribbons, for IBM Electromatic, 9/16 inch, each	1.85
Ribbons, silk, for standard typewriters, 1/2 inch, each	3.00
Ribbons, carbon paper, available for standard carbon ribbon machines, each	\$1.10-1.65

# OFFSET PLATES DIRECT IMAGE

Remington-Rand  
New York 1, New York

## PLASTIPLATE, DIRECT IMAGE

For Multilith 1250 and Davidson presses

Short run Plastiplates, per 100 - - - - -	\$ 7.00
Medium run Plastiplates, per 100 - - - - -	9.00
Long run Plastiplates, per 100 - - - - -	14.00
Extra long run Plastiplates, per 100 - - - - -	19.00

OFFSET PLATES  
PRESENSITIZED METAL  
NEGATIVE

Azoplate Corporation  
Summit, New Jersey

ENCO PLATES, NEGATIVE WORKING

Give positive image from negative transparency upon exposure and development.  
Aluminum back.

Cat. No.	Machine	Size, Inches	Punching	Pkg. of 25
AN605 A	1250 Multilith	10 x 15½	Serrated	\$12.50
AN605 B	1250 Multilith	10 x 15½	Straight	12.50
AN604 E	1250 Multilith	10 x 15	Pin bar	12.50
AN604 C	1250 Multilith	10 x 15	Straight	12.50
AN606 C	Davidson	19 x 16	Straight	12.50
AN618 C	Davidson 233	17½ x 16	Straight	32.50

Chemicals

For Negative Working Plates

F-1 or F-2 Finisher, D-3 Accelerator, per pint \$1.50

LS Developer, per pint 2.00

For Positive Working Plates

PD-1 Developer or PF-2 Finisher, per pint 1.50

For both Positive and Negative Working Plates

CI-4 Image Intensifier, per pint 2.50

3R Image Remover, liquid, 2 oz. 1.75

3R Image Remover, paste, 1 oz. 1.75

OFFSET PLATES  
METAL  
NEGATIVE

Columbia Ribbon and Carbon Mfg. Company, Inc.  
Glen Cove, New York

Colitho negative sensitized metal plate. One-step development produces black image. Available in all common sizes and punchings.

Prices not available.

OFFSET PLATES  
METAL  
NEGATIVE

A. B. Dick Company  
Chicago 31, Illinois

A. B. DICK OFFSET PLATES, PRESENSITIZED

Cat. No.	Machine	Size, inches	Edge Type	Unit Price
2-7014	A. B. Dick Model 350 and Multiliths with short drum	8½ x 12	Pin bar	\$0.25
2-7021	A. B. Dick Model 350 and Multiliths 80, 1200, and 1250	10 x 15	Straight	0.25
2-7024		10 x 15	Pin bar	0.25
2-7032		10 x 15-3/8	Serrated	0.25
2-7041	Davidson 221	10 x 16	Straight	0.25

OFFSET PLATES  
PARTIALLY  
PRESENSITIZED  
METAL  
NEGATIVE

Harris-Seybold Company  
Cleveland 5, Ohio

HARRIS REDI-COTE PLATES

Designed for long shelf life. Coating applied at factory requires application of second coating at site of use for full sensitization. Packages of diazo sensitizing powders included with the plates. Both sides of plates can be used. Available in all standard offset plate sizes for office machines.

Sensitizing

1. Dissolve contents of packet of sensitizing powder in 16 ounces of water.
2. Apply sensitizing solution to surface of plate with a cellulose sponge. Cover the entire plate.
3. Use rubber squeegee to remove solution from plate.
4. Fan dry and expose.

Prices not available.

# OFFSET PLATES PRESENSITIZED METAL

Harris-Seybold Company  
Cleveland 5, Ohio

## HARRIS SENSI-PLATES

Presensitized aluminum photo-offset plates for the machines listed below. Image is developed ready for printing by single application of Harris "3 in 1 Solution".

Machine	Model	Size, Inches	1956 List Price Per Plate
Multilith	1250	All styles	\$0.50
Multilith	1300	11½ x 20¼	0.80
Davidson	221	10 x 16	0.50

Larger sizes also available.

### Sensi-Plate Processing Chemicals

3 in 1 Developing solution, pint	\$2.50
Desensitizer, pint	1.50
Developing lacquer, pint	2.00
Plate cleaner, pint	1.50

### Recommended Development Procedure,

1. Expose the plate.
2. Pour a pool of Harris "3 in 1 Solution" on the plate. Spread with a sponge. Wipe the entire surface thoroughly.
3. Wipe with damp cheesecloth.
4. Mount on press and print.

# OFFSET PLATES PRESENSITIZED METAL NEGATIVE

Lithoplate, Inc.  
Los Angeles, California

## ALUM-O-LITH PLATES

8-3/4 x 12 inches, each	\$0.45
14½ x 12 inches, each	0.50
Alum-O-Lith DLG 1 Developer, quart	4.50



OFFSET PLATES  
METAL  
NEGATIVE

Minnesota Mining and Mfg. Company  
Saint Paul 6, Minnesota

3-M BRAND PHOTO OFFSET PLATES

Light sensitive and water receptive. For detailed work, and halftones up to 300 lines per inch. Unaffected by temperature and humidity and do not oxidize.

Prices 1956, in packages of 25 plates.	Per plate
Multilith 10 x 15 pin bar	\$0.50
8½ x 12 pin bar	0.50
10 x 15-3/8 serrated	0.50
Davidson 10 x 16 straight cut (Model 251)	0.50
16 x 17½ straight cut (Model 233)	1.30
Miehle 14½ x 17-3/4 pin bar (Model 17)	1.15
3-M Brand Processing Chemicals	
3-M image developer, produces visible and long lived image, per pint	2.00
3-M plate cleaner, removes spots and handling scratches, per quarter-pint	0.75
2-M process gum and rapid densensitizer, protective coating and short run developer, per quart.	1.50

Processing 3-M Plates

1. Expose.
2. Coat plate with gum and desensitizer solution.
3. Coat plate with image developer.
4. Coat plate a second time with gum and desensitizer.
5. Mount on press.

Note: For short runs omit the image developer and use the gum and rapid desensitizer alone.

OFFSET PLATES  
PRESENSITIZED  
METAL

Polychrome Corporation  
Yonkers, New York

DUALKOTE PRESENSITIZED PLATES

Aluminum plates coated on both sides.

Prices 1956:

Cat. No.	Press	Size, Inches	Price Each
DK 12, 22, 33, 43	1250 Multilith	10 x 15½	\$0.50
DK 14	221, 241, 251 Davidson	10 x 16	0.50
DK 112	233 Davidson	16 x 17½	1.10
DK 113	17 x 22 Harris	19-3/4 x 23	1.50

OFFSET PLATES  
PRESENSITIZED  
METAL

Remington-Rand  
New York 10, New York

PLASTIPLATES, ALUMINUM

Price 1956:

For Multilith 1250 and Davidson, per 100 - - - - - \$45.00

OFFSET PLATES  
PRESENSITIZED  
METAL  
POSITIVE

Azoplate Corporation  
Summit, New Jersey

ENCO PLATES, POSITIVE WORKING

Gives positive image from a positive transparency upon exposure and development. Aluminum back.

Cat. No.	Machine	Size, Inches	Punching	Pkg. of 25
PA505A	1250 Multilith	10 x 15½	Serrated	\$13.75
PA505B	1250 Multilith	10 x 15½	Straight	13.75
PA504E	1250 Multilith	10 x 15	Pin bar	13.75
PA504C	1250 Multilith	10 x 15	Straight	13.75
PA506C	Davidson	10 x 16	Straight	13.75
PA518C	233 Davidson	17¼ x 16	Straight	43.75

OFFSET PLATES  
METAL  
POSITIVE

Columbia Ribbon and Carbon Mfg. Company, Inc.  
Glen Cove, New York

Colitho positive sensitized metal plate. Gives positive image from positive transparency. Available in all common sizes and punchings.

Prices not available.

OFFSET PLATES  
METAL  
POSITIVE

Ozalid  
Johnson City, New York

OZALITH ALUMINUM OFFSET PLATES, POSITIVE WORKING

Press	Size, Inches	Description	Unit Price
Multilith 1250	10 x 15½	Serrated and slotted	\$0.60
Davidson 221	10 x 16	Straight cut	0.60
Chemicals			
AD 01 aluminum developer solution No. 1, pint			\$1.50
AF 02 aluminum fixer solution No. 2, pint			1.50
Aluminum plate image remover, 2 oz.			1.00

Processing

1. Expose.
2. Swab developer solution over the face.
3. Rinse in running water.
4. Swab on the fixer solution.
5. Mount on press.

OFFSET PLATES  
PRESENSITIZED  
PAPER  
NEGATIVE

Azoplate Corporation  
Summit, New Jersey

ENCO PACEMAKER PLATES

Film laminated paper base, negative working.

Cat. No.	Machine	Size, inches	Punching	Pkg. of 50
N105B	1250 Multilith	10 x 15½	Straight	\$12.50
N104E	1250 Multilith	10 x 15	Pin bar	12.50
N104C	1250 Multilith	10 x 15	Straight	12.50
N106C	Davidson	10 x 16	Straight	12.50
N118C	233 Davidson	17¼ x 15	Straight	30.00

Chemicals

ND developer, 16 oz.	\$ 1.75
10R scratch corrector, 2 oz.	6.75

OFFSET PLATES  
PLASTIC  
NEGATIVE

Columbia Ribbon and Carbon Mfg. Company, Inc.  
Glen Cove, New York

Colitho No. 9000 sensitized acetate plate

Colitho No. 6000 sensitized acetate plate

Two similar plates requiring one step development. Number 6000 is lighter in weight than No. 9000. Available in all common sizes and punchings.

Prices not available.

OFFSET PLATES  
PAPER  
NEGATIVE

S. D. Warren  
Boston, Massachusetts

FOTOPLATES

A laminated paper negative-working plate giving up to 5000 copies. Sized from 10 x 16 inches up. Shelf life one year or more.

Prices not available.

OFFSET PLATES  
PRESENSITIZED  
PAPER  
NEGATIVE

Polykote Economy Presensitized Plates

Low priced non-metallic plates.

Cat. No.	Press	Size, Inches	Price Each
PK 12, 22, 43	1250 Multilith	10 x 15 1/4	\$0.25
PK 14	221, 241, 251 Davidson	10 x 16	0.25
PK 112	233 Davidson	16 x 17 1/2	0.55

Dualkote-Polykote Chemicals

Cat. No.		
900	Desensitizer, per pint	\$1.50
901	Developing ink, per pint	2.00
69	Plate cleaner, per pint	1.00

OFFSET PLATES  
PRESENSITIZED  
PAPER

Remington-Rand  
New York 1, New York

PLASTIPLATES

Price 1956:

For Multilith 1250 and Davidson, per 100 - - - - - \$25.00

OFFSET PLATES  
PRESENSITIZED  
PAPER  
POSITIVE

Ozalid  
Johnson City, New York

OZALITH PAPER OFFSET PLATES, POSITIVE WORKING

Size, inches	Description	Unit Price
8½ x 12	Straight edge	\$0.16
8½ x 12	Pin bar	0.16
10 x 15	Straight edge	0.22
10 x 15	Pin bar	0.22
10 x 15½	Slotted	0.22
10 x 16	Straight edge	0.22
11½ x 19-3/4	Straight edge	0.40
11½ x 20¼	Slotted	0.40
	Chemicals	
	PD 01 developer solution No. 1, pint	\$1.50
	PDS1 developer solution, pint	1.50
	Ozalith restrainer, pint	2.00
	PF 02 fixer solution No. 2, pint	1.00
	Paper plate image remover, 2 oz.	1.00

Processing

1. Expose.
2. Apply developer solution.
3. Apply fixer solution.
4. Mount on press while still wet.

OFFSET PLATES  
PAPER  
POSITIVE

Columbia Ribbon and Carbon Mfg. Company, Inc.  
Glen Cove, New York

Colitho positive sensitized paper plate. Gives positive image from positive transparency. Available in all common sizes and punchings.

Prices not available.

OFFSET MASTERS  
FOR STENAFAX  
FACSIMILE MACHINES

Times Facsimile Corporation  
New York 19, New York

PLANOFAX OFFSET MASTERS

Planofax offset masters are electrically recorded from an original on a Stenafax facsimile machine and run on an offset duplicator. Consists of a base sheet similar to ordinary paper offset plates but coated with a special electrosensitive film. After the master is taken from the machine, the film is stripped off and thrown away. The base sheet is the offset master.

Prices 1956:

Planofax Offset Masters in 10 or more packages of 100 plates.

FOB factory - - - - - \$18.00 per pkg.

Specify size:

S15 for Multilith duplicator

S16 for Davidson duplicator

OFFSET NEGATIVES  
MECHANICAL

A. B. Dick Company  
Chicago 31, Illinois

A. B. DICK STENCIL NEGATIVES

Cat. No.	Size, Inches	Price Per Quire
2460	8½ x 18	\$3.50
F2460	8½ x 18 Film topped	3.90
2461	8½ x 14½	3.25
F2461	8½ x 14½ Film topped	3.65
2470	10-1/8 x 16-1/8	6.00
F2470	10-1/8 x 16-1/8 Film topped	6.80
361	Correction fluid, per pkg.	0.65

OFFSET NEGATIVES  
MECHANICAL

Polychrome Corporation  
Yonkers, New York

Cat. No.

55XCP	Dual-Lith Negative, box of 25	\$4.95
201	Dual-Lith Negative Correction Fluid, per ounce	0.65



OFFSET NEGATIVES  
MECHANICAL

Milo Harding Company, Inc.  
Los Angeles, California

TEMPOLITH MECHANICAL OFFSET NEGATIVES

Cat. No.	Printing Surface, Inches	Price Per Quire
141P	10 x 14	\$4 50
144P	8½ x 12	3.85
147P	8½ x 14	4 00
143	Opaque varnish	0.60

The following exposing equipment is listed separately from the office-type equipment because of differences in application, size and arrangement. Commercial equipment is generally larger, heavier and less compact than office-type equipment. It is usually made up as separate units to be used together rather than as a single unit. The equipment listed can be used for the small-scale reproduction of data-sheets by blue-printing, brownprinting, or similar photoreproductive processes.

ARC LAMPS  
COMMERCIAL TYPE

Macbeth Arc Lamp Company, Inc.  
141 Berkley Street  
Philadelphia 44, Pennsylvania

MACBETH - 35 or 45 AMPERE - SOLENOID TYPE

- Type 8F-A. Non-tilting with telescoping stands. Nonspot reflector, 110 or 220 volts. With AC-DC rheostat, \$453.00 per pair. With AC control, \$546.00 per pair.
- Type 8F-A-EPC. With extension adjustment for camera arms. With AC-DC rheostat, \$432.00 per pair. With AC control, \$525.00 per pair.
- Type B-1. Full 12-inch carbon trim. Nonspot reflectors, telescoping stand. With AC-DC rheostat, \$500.00 per pair. With AC control, \$593.00 per pair.
- Type W-1 Little Giant. Double deck arcs in one reflector, 35 amperes only. With telescoping stand. With AC-DC rheostat, \$811.00 per pair.
- Type 8F-AD5. Double deck (4 lamps Type 8F-A) with counterbalancing stand. With AC-DC rheostat, \$1,206.00 per set. With AC control, \$1,392.00 per set.
- Type B-1D5. Double deck (4 lamps Type B-1) with counterbalancing stand. With AC-DC rheostat, \$1,272.00 per set. With AC control, \$1,458.00 per set.
- Type B-6D5. Double deck with double arcs, full 12-inch carbon trim, with counterbalancing stand. With AC-DC rheostat, \$1,676.00 per set. With AC control, \$2,048.00 per set.

MACBETH - MOTOR-CONTROLLED

- Type B-1C-TQM Constantarc. Completely automatic, constant intensity, constant color temperature lamp with telescoping stand, vertical 12" carbon trim. For 220 or 440 volts, 60 cycles, AC, 50 amperes (draws 17 amperes on 220 volts, \$1,170.00 per pair. For 100 amperes (draws 35 amperes on 220 volts, \$1,810.00 per pair.
- Type B-1C-EPC Constantarc. With extension adjustments for camera arms. For 50 amperes, \$1,140.00 per pair. For 100 amperes, \$1,290.00 per pair. For 140 amperes, \$1,780.00 per pair.

MACBETH - 35 or 45 AMPERE-SOLENOID TYPE

- Type 8F. Single arc with 17 x 7-inch reflector, telescoping stand. With AC-DC rheostat, \$277.00. With AC control (cuts power costs in half and eliminates heat from a rheostat), \$370.00.

ARC LAMPS  
COMMERCIAL TYPEMACBETH - 35 or 45 AMPERE-SOLENOID TYPE (Continued)

Type B-6 Double arc, nonspot reflector, full 12-inch carbon trim, telescoping stand. With AC-DC rheostat, \$403.00. With AC control, \$496.00. With counterbalancing stand, add \$57.00.

Type B-16 Double arc, 45 ampere, dual nonspot reflector for large frames, full 12-inch carbon trim, counterbalancing stand. With AC-DC rheostat, \$515.00. With AC control, \$608.00.

MACBETH - MOTOR-CONTROLLED

Constantarc. Constant intensity, fully automatic lamp using high intensity carbons. Twenty-three x 3-inch reflector with telescoping stand. Three kilowatts (100 amperes - draws 17 amperes), \$660.00. Six kilowatts (140 amperes - draws 35 amperes), \$895.00. Two-hundred and twenty or 440 volts, 60 cycles.

All Macbeth lamps FOB, Philadelphia, Pennsylvania.

ARC LAMPS  
COMMERCIAL TYPE

NuArc Company, Inc.  
824 South Western Avenue  
Chicago 12, Illinois

NUARC - MOTOR-DRIVEN

Type N-50. Automatic, constant intensity, constant color lamp. Develops 50 amperes through arc. Available for 195/250 volts, 60 cycles, single phase, or 95/125 volts, 60 cycles, single phase. Draws 6.5 amperes on 220 volts or 13 amperes on 110 volts. Floor model, \$930.00 per pair. With adapter brackets for camera lamp carriers and 12' of cable per lamp connecting transformer with reflector assembly, \$960.00 per pair.

Type N-75. Automatic 75 ampere constant intensity, constant color lamp. For 195/250 volts, 60 cycle, single phase. Draws 12 amperes from power line. Floor model, \$1,100.00 per pair. With adapter brackets and cables for camera lamp carriers, \$1,130.00 per pair.

Type N-110. Automatic 110 ampere constant intensity, constant color lamp for 195/250 volts, 60 cycles, single phase. Draws 15.5 amperes from power line. Floor model, \$1,350.00 per pair. With adapter brackets and cables for camera lamp carriers, \$1,380.00 per pair.

NUARC - HI-LITE MODELS

Low cost, efficient lamps equipped with automatic arc control which eliminates bouncing and sputtering.

H-22. Thirty ampere arc lamp with transformer and reflector shields but without floor stand. Draws 15 amperes each from 115 volts, 60 cycles, single phase, and only 8 amperes from 195/250 volts, 60 cycles, single phase, AC. Price, \$295.00 per pair. Floor stands, \$55.00 per pair. Posts for camera lamp carriers, \$30.00 per pair. Also available in double deck lamps, \$990.00 per set. Floor stands for double deck, \$75.00 per pair.

NUARC - MOTOR-DRIVEN

N-50. Produces 1500 foot candles intensity at 3'. Telescoping stand. Uniform coverage of frame. Draws 13 amperes on 110 volts, 60 cycles, single phase, or 6.5 amperes on 220 volts. Price, \$465.00.

N-75. Produces 3000 foot candles intensity at 3'. Will cover frames up to 40 x 60 inches. Draws 12 amperes on 220 volts, 60 cycles, single phase. Price, \$550.00.

N-110. Produces 4300 foot candles intensity at 3'. Will cover the largest frames. Draws 110 amperes through arc, but draws 15.5 amperes on 220 volts, 60 cycles. Price, \$675.00.

ARC LAMPS  
COMMERCIAL TYPE

## NUARC - HI-LITE MODELS

H-24. Thirty ampere printing lamp for frames up to and including 24 x 36 inches. Draws 15 amperes from 115 volts or 8 amperes from 195/250 volts, 60 cycles, single phase line. Complete with stand, transformer and two reflector shields. Price, \$187.00. With built-in 15 minute timer, \$205.00.

H-65. Seventy-five ampere printing lamp for 40 x 50-inch frames. Draws only 15 amperes from 195/250 volts, 60 cycles, single-phase line. Complete with stand, transformer and two reflector shields. Price, \$385.00.

All NuArc lamps FOB, Chicago, Illinois.

VACUUM FRAMES  
COMMERCIAL TYPE

Roberts and Porter Inc.  
555 West Adams Street  
Chicago, Illinois

Prices 1956:

## GOODMAN

Welded tubular vacuum frame with counterbalanced cover glass. Safety catch prevents frame falling accidentally to vertical position until glass cover is closed. Complete with pump, motor, gauge, and regulator valve. Automatic cut-off control, \$50.00 additional. FOB, New York, New York.

Size	Price	Crating
26" x 30"	\$360.00	\$20.00
30" x 40"	415.00	22.00
35" x 45"	455.00	24.00
42" x 52"	515.00	26.00
40" x 60"	610.00	31.00

## GOODMAN CABINET FRAME

Complete with counterbalanced cover, safety catch, vacuum gauge, regulator valve, pump and motor. FOB, New York, New York.

Size	Price	Crating
26" x 30"	\$450.00	\$22.00
40" x 40"	540.00	24.00
35" x 45"	595.00	26.00

## GOODMAN BENCH TYPE VACUUM FRAME

Tilting or darkroom frame complete with pump, motor, gauge, regulator valve, and counterbalanced cover. FOB, New York, New York.

Size	Tilting Type	Non-Tilting	Crating
20" x 24"	\$295.00	\$235.00	\$16.00
22" x 28"	305.00	245.00	17.00
26" x 30"	335.00	280.00	18.00
30" x 40"	350.00	315.00	20.00

VACUUM FRAMES  
COMMERCIAL TYPEGOODMAN PEDESTAL TYPE FRAME

Complete with counterbalanced cover, safety catch, motor, pump, gauge and regulator valve. Mounted on casters for mobility. FOB, New York, New York.

Size	Price	Crating
20" x 24"	\$115.00	\$19.00
22" x 28"	345.00	21.00
26" x 30"	370.00	22.00
30" x 40"	425.00	25.00

GOODMAN ELEVATING TYPE VACUUM FRAME

Complete with motor, pump, gauge, regulator valve, and automatic motor cut-off switch. Glass raises in litho type and blanket raises in gravure type. FOB, New York, New York.

Size	Price	Crating
40" x 60"	\$1,375.00	\$58.00
52" x 72"	1,650.00	60.00
60" x 80"	1,900.00	75.00

VACUUM FRAMES  
COMMERCIAL TYPE

Strong Electric Corporation  
Toledo 1, Ohio

STRONG ELECTRIC - MOTOR-DRIVEN

Challenger - Seventy-five ampere lamp for 220 volts AC. Draws 25 amperes per pair. Light weight. Mounting pins, \$10.00 each; stands, \$25.00 each; pair of lamps and transformer, \$775.00.

Grafarc - Ninety-five amperes, horizontal carbon trim, removable silvered glass reflector for 220 volts, 60 cycles, single phase. Number 32002 camera lamp with No. 33000 continuous duty transformer and stand with transformer platform, \$650.00 per lamp.

STRONG ELECTRIC - MOTOR-DRIVEN

Grafarc - Ninety-five ampere high intensity. For 220 volts, 60 cycles, AC. Uniform illumination for any size frame. Number 32000 printing lamp, No. 33000 continuous duty transformer and stand, \$650.00.

Grafarc - One-hundred and forty amperes. Draws 35 amperes from 220 volts, AC. Number 32500 lamp, No. 33500 transformer and No. 34000 stand, \$700.00.

All Strong Electric lamps, FOB, Toledo, Ohio.

Arc lamps for horizontal frames and photo-composing machines also available.

Prices on Request

LXPOSURE UNITS  
COMMERCIAL TYPE

The Douthitt Corporation  
680 East Fort Street  
Detroit 26, Michigan

DOUTHITT COMPACT PRINTER

Designed to conserve floor space. Arc lamp is placed directly under the vacuum frame. Complete with motor, pump, reserve tank, automatic motor cut-off, and timer. Choice of arc lamp as listed.

Prices 1956, complete

Size, inches	35 Ampere, With Rheostat	100 Ampere Constantarc	Grating
22 x 28	\$ 925.00	\$1,220.00	\$22.00
26 x 30	965.00	1,260.00	24.00
28 x 36	995.00	1,290.00	25.00
30 x 40	1,030.00	1,325.00	26.00

EXPOSURE UNITS  
COMMERCIAL TYPE

NoArc Company, Inc.  
824 South Western Avenue  
Chicago 12, Illinois

Vacuum frame for up to 17 x 22-inch press plates. Glass frame is made of solid extruded aluminum and the balance of the unit is all welded steel construction. Complete with 1/15 H. P. quiet motor and pump which maintains 20 inches of vacuum, vacuum release valve, gauge and switch. The N-20 arc lamp is lightweight (28 lbs.) and gives uniform light over the frame area. Draws 8 amperes from 110 volt line.

Price 1956:

Frame and arc light, \$259.00

FOB, Chicago, Illinois.

VACUUM FRAMES  
COMMERCIAL TYPE

W. A. Brown Mfg. Company  
608 South Dearborn Street  
Chicago 5, Illinois

BOX-TYPE VACUUM FRAME

Complete with pump, motor, vacuum gauge and release valve, counterbalanced hinged type glass frame; 115 or 220 volts AC. FOB, Chicago, Illinois.

Prices 1950:

Size, Inches	Price	Crating
20 x 24	\$271.50	\$18.50
22 x 28	294.50	19.50
26 x 30	335.00	20.00
28 x 36	387.00	21.50
30 x 40	404.50	23.00
31 x 43	421.50	24.00
37 x 48	450.50	26.00
40 x 60	502.50	27.50
42 x 54	508.50	28.50
46 x 54	525.50	29.50
50 x 66	774.00	41.00
50 x 70	837.50	47.50

Automatic vacuum control and tank \$50.00 additional

BROWN ELEVATING TYPE VACUUM FRAME

Complete with pump, motor, gauge, automatic vacuum control and reservoir tank; 115 or 220 volts AC. FOB, Chicago, Illinois.

Size, Inches	Price	Crating
30 x 40	\$979.00	\$42.00
33 x 43	991.00	44.00
37 x 48	997.50	47.50

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VACUUM FRAMES  
COMMERCIAL TYPEBROWN ELEVATING TYPE VACUUM FRAME (Continued)

40 x 60	\$1,042.00	\$52.50
42 x 54	1,042.00	52.50
46 x 54	1,048.00	58.00
50 x 66	1,118.50	63.00
50 x 70	1,245.50	68.50
60 x 72	1,474.00	73.50
60 x 80	1,695.00	84.00

BROWN BENCH MODEL VACUUM FRAME

Available in two types: darkroom type for use with overhead lights; or hinged type for tilting to vertical position. Specify type. Complete with pump, motor, gauge and release valve; 115 volts AC. FOB, Chicago, Illinois.

16 x 20"	\$206.50	\$ 9.00
20 x 24"	218.50	10.00
22 x 28"	237.00	11.50
*26 x 30"	286.00	14.50
*28 x 38"	334.00	17.00

\* With counterbalanced cover. Others have Stop Brackets.

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# VACUUM FRAMES COMMERCIAL TYPE

Colwell Litho Products, Inc.  
Minneapolis, Minnesota

## COLIGHT VACUUM EXPOSURE FRAME

A compact vacuum frame unit complete with pump and motor, black light lamps, automatic timer, and directional glass. 110 volts, 60 cycles. FOB, Minneapolis, Minnesota.

### Prices 1956:

Model BV 1016 (max. plate size 10 x 16 inches)	\$289.00
Model BV 1617 (max. plate size 15½ x 20½ inches)	336.00
Model BV 1722 (max. plate area 21-3/4 x 25-3/4 inches)	387.00

# VACUUM FRAMES COMMERCIAL TYPE

The Douthitt Corporation  
680 East Fort Street  
Detroit 26, Michigan

### Prices 1956:

## DOUTHITT MODEL D

Cabinet type frame with reserve tank, vacuum cut-out switch, gauge, interval timer, pump, motor and full size drawer. Electric timer and ready to control arcs can be furnished mounted on the frame at additional cost; 110 volts, 60 cycles AC. FOB, Detroit, Michigan.

20 x 24"	\$435.00	\$20.00
22 x 28"	455.00	22.00
26 x 30"	495.00	24.00
28 x 36"	525.00	25.00
30 x 40"	560.00	26.00
32 x 44"	605.00	27.50
36 x 48"	640.00	25.50
40 x 50"	715.00	31.00

## DOUTHITT MODEL DN

Same as Model D except without vacuum reserve tank, vacuum cut-out switch, drawer and timer. FOB, Detroit, Michigan.

20 x 24"	\$330.00	\$20.00
22 x 28"	350.00	22.00
26 x 30"	375.00	24.00
28 x 36"	390.00	25.00
30 x 40"	430.00	26.00
32 x 44"	465.00	27.50



VACUUM FRAMES  
COMMERCIAL TYPE

DOUTHITT ELEVATING TYPE

With reserve tank, vacuum cut-out switch, gauge, pump, motor, and special patented revolving feature which permits either glass or blanket frame to be used up or down. FOB, Detroit, Michigan.

Size	Price	Crating
16 x 48"	\$1,180.00	\$66.00
40 x 50"	1,245.00	66.00
46 x 56	1,335.00	70.00
48 x 60"	1,455.00	77.00
50 x 70"	1,640.00	80.00
55 x 74"	1,820.00	88.00
60 x 80"	1,945.00	93.00

DOUTHITT WALL TYPE FRAME

Mounts on a wall and folds up when not in use to save space. For darkroom use with an overhead light. Complete with pump, motor, and gauge. FOB, Detroit, Michigan.

16 x 20"	\$240.00	\$11.00
20 x 24"	280.00	14.00
22 x 28"	310.00	15.50
28 x 36"	340.00	16.50
30 x 40"	375.00	22.00

VACUUM FRAMES  
COMMERCIAL TYPE

Robertson Photo-Mechanix, Inc.  
7440 Lawrence Avenue  
Chicago 31, Illinois

ROBERTSON MODEL F

Enclosed floor type vacuum frame complete with pump, motor, gauge and release valve. FOB, Chicago, Illinois.

Automatic motor control \$50.00 additional

Size	Price	Crating
20 x 24"	\$270.00	\$20.00
22 x 28"	296.00	20.00
25 1/2 x 36"	340.00	25.00
28 x 36"	378.00	25.00
30 x 40"	385.00	25.00
32 1/2 x 43"	402.00	25.00
37 x 48"	450.00	27.50
39 x 50"	485.00	27.50

ROBERTSON BENCH MODEL FRAME

Tilting or non-tilting types. Counterbalanced cover with support arms, pump, motor, gauge and release valve. FOB, Chicago, Illinois.

Size	Tilting Type	Non-Tilting	Crating
20 x 24"	\$245.00	\$215.00	\$15.00
22 x 28"	250.00	240.00	15.00

OFFSET DUPLICATING  
PROCESS CAMERAS

Process cameras are designed primarily for offset and lithographic use; however, some of them may also have other secondary uses. They may be useful as a photocopier, for photographing small objects, as a visualizer, or as a light table. Some are designed for use entirely inside a darkroom, some for use partially inside, and some for use outside of a darkroom. They differ from photocopy cameras in a number of ways. They do not have facilities for integral developing and fixing, or provision for making right-reading copy. They use special color corrected process lenses, and they have provision for mounting halftone screens.

PROCESS CAMERAS  
DARKROOM  
CONSOLIDATED, 18" x 22"

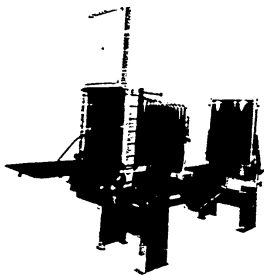
Consolidated International Equipment & Supply Company  
1112 North Homan Avenue  
Chicago 51, Illinois

This is a horizontal, non-portable, darkroom type camera featuring versatility in producing negatives for both duplicators and offset presses. Has a 12' precision machined lathe bed.

Floor space	4' x 12'
Max. exposure area	24" x 32"
Max. copy size	18" x 22"

Basic Price

18" x 22" process camera \$1,695.00

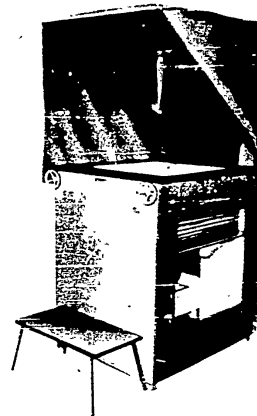


Accessories

Adjustable upper and lower screen bars, for screens up to 17" x 21" per set . . . . .	\$275.00
Vacuum back, with film dial selector valve, pump, and motor . . . . .	595.00
Flash lamp, manual, fixed position, swing type . . . . .	95.00

PROCESS CAMERAS  
OFFICE TYPE  
GOODKIN, "CAMERA LUCIKON"

M. P. Goodkin Company  
Newark, New Jersey



Vertical type, lightweight, (25 lb.) portable camera designed specifically for use as both a light table and camera for photocopying. Recommended for use alongside a desk or art table.

Floor space	29" x 36"
Max. exposure area	27" x 32"
Max. copy size	24" x 24"

Finished copy size can be varied continuously from 25 to 400% of original size.

Basic Price

Model A, process camera with 8-1/4" color corrected and coated lens . . . . . \$545.00

PROCESS CAMERAS  
DARKROOM OR OFFICE  
KENRO, "VERTICAL 18"

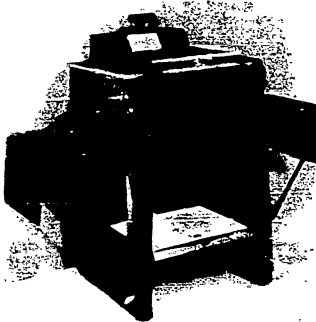
Kenro Graphic, Inc.  
25 Commerce Street  
Chatham, New Jersey

Carpenter Procter, Inc.  
605 Broad Street  
Newark 2, New Jersey

This is a compact vertical type camera best used in a darkroom, but by using a special lightweight film holder it can be used outside. It is small enough to be moved through doorways.

Floor space (open)	26" x 63"
Max. exposure area	18" x 33"
Max. copy size (film)	14" x 18"

Finished copy size can be varied continuously from 30 to 300% of original size.



PROCESS CAMERAS  
DARKROOM OR OFFICE  
KENRO, "VERTICAL 18"

Basic Price

"Vertical 18" unit . . . . . \$1,250.00

Accessories

Xerographic head (10" x 14") interchangeable with film holder . . . . .	\$100.00
Vacuum back, complete with pump, for use with 11" x 14" halftone contact screen kit . . . . .	160.00
Contact screen kit, including 11" x 14" Kodak Magenta screen (120 line) and 2 HC Mercury Vapor lamps . . . . .	64.50

PROCESS CAMERAS  
DARKROOM TYPE  
LACEY-LUCI "FOURTEEN"

Lacey-Luci Products Company  
31 Central Avenue  
Newark, New Jersey

Although designed primarily for lithographic and offset use, this camera is also used in making photocopies and as a light table for making layouts or doing lettering. It is small enough to be used entirely inside a darkroom. Auxiliary equipment is necessary for developing, fixing, washing, and drying. To make right-reading copies (stats), the Lacey-Luci "Stat-o-Adapter" must be used.

Floor space	2-1/2" x 21-1/2"
Max. exposure area	21-1/2" x 21-1/2"
Max. copy size	18" x 24"

Basic Unit

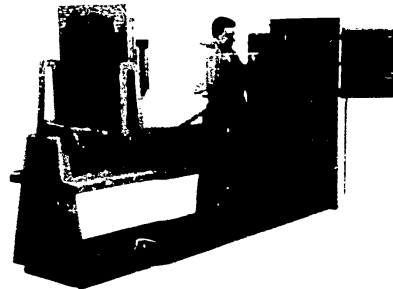
Complete with lens and lights	\$650.00
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Accessories

Adapter for xerography	120.00
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PROCESS CAMERAS  
DARKROOM TYPE  
ROBERTSON, "320"

Robertson Photo-Mechanix, Inc.  
7440 Lawrence Avenue  
Chicago 31, Illinois



This is an all-purpose camera featuring flexibility and ease of operation. It is designed for both offset plate making and photocopying.

Floor space	2' x 6'
Max. exposure area	Glass Covered Copy Board 21" x 25"
Max. copy size	Vacuum film holder 16" x 20"
	Finished copy size can be varied continuously from 20 to 200% of original size.

Basic Price

Model 320 V . . . . .	\$1,980.00
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Accessories

Xerography plate adapter . . . . .	250.00
Vacuum blanket for copy board 17" x 22" . . . . .	135.00

PROCESS CAMERAS  
DARKROOM  
"WESEL 25"

Wesel Manufacturing Company  
1141 North Washington Avenue  
Scranton 9, Pennsylvania

This is a horizontal, darkroom type camera of monorail design. Designed for line and autoscreen offset work, and for photoscreen negatives. It is portable, and has two banks of 4 flood lights which are directionally controlled.

Floor space (lamps extended)	8' x 12'
Max. exposure area	30" x 40"
Max. copy size	20" x 24"

Finished copy size can be varied continuously from 20 to 200% of original size.

Basic Price

Model A	\$2,500.00
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Accessories

A variety of attachments are available including a xerographic plate holder.

COLOR ANALYST

Curtis Laboratories, Inc.  
Los Angeles, California

The Curtis Color Analyst enables the operator to view in full color the three color separated black and white prints made from the color separation negatives. It obviates the need for dye transfer or carbonyl color prints as proofs or as copy for the engraver. The Analyst shows the need for and the extent of color corrections.

Specifications:

Model 9012. For 11 x 14 inch size plates, complete with filters, with Ink Error Window Filter calibrated to customer's inks, a set of copy holders, standard test exhibit, instruction manual and two weeks training course for \$1,800.00.

## COLOR PRINTER

Curtis Laboratories, Inc.  
Los Angeles, California

Color film separation printers are used for making separation negatives from color film transparencies. The models and sizes made by Curtis Laboratories are listed below:

Model	Description	Price
4011B	Curtis Color Film Enlarging Printer to make 4 x 5 negatives from 35mm transparencies, complete with 3 inch Eastman Kodak Enlarging Ektar Lens and all accessories . . . . .	\$ 211.00
4022	Curtis Commercial Printer 8 x 10 on 10 x 12 negative format for making contact negatives from film in any size from 2-1/4 square to 8 x 10 or in pre-registered groups, complete with filters and necessary accessories . . . . .	1,000.00
4015	Curtis Precision Optical Printer to make 4 x 5 separation negatives from 35mm, 2-1/4 square or 2-1/4 x 3-1/4 transparencies, complete with built-in filters, voltage stabilization, 2 lenses, timer and electronic exposure computer for automatic operation . . . . .	975.00

## PROJECTION CAMERA

Photostat Corporation  
Exclusive Distributor  
Princeton Polychrome Press, Inc.  
Princeton, New Jersey

The direct screened halftone negatives used in the Eastman Kodak Short-Run Color Printing System are made in the special Photocolor Model B-3 Projection Camera using Kodak Gray Contact Screens and exposing on Kodalith Pan Film.

## Some of the features include:

Centerless Ground Chromium Plated Steel Column  
Interchangeable Condensers  
Precision Color Transparency Holder  
Turret Lens Holder  
Finger-Touch Raising and Lowering of Projector  
Controlled Flash Lamps  
Triomatic Timer in Control Panel for Exposure Control  
Vacuum Easel Board  
Constant Voltage Stabilizer  
Vertical Design for Economy of Floor Space

Price of standard model which includes above equipment and two days instruction in operation . . . . . \$3,995

Extra Accessories	Price
14 x 18-inch Precision Punch for punching printing plates . . . . .	\$121.50
18 x 20-inch Precision Punch for punching printing plates; variable side guide . . . . .	127.35
5 x 7-inch Register Transparency Holder . . . . .	130.00
Mask Exposing Turntable . . . . .	48.90
Mask Exposing Lamp . . . . .	50.00
Vacuum Easel Exposure Board - 8 x 10-inch . . . . .	146.65
Vacuum Easel Exposure Board - 13 x 13-inch . . . . .	146.65
Table and Mounting Board for Timer Control . . . . .	82.50

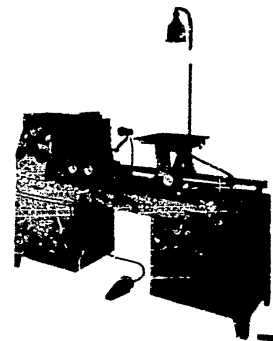
# PROJECTION CAMERA

Photostat Corporation  
Exclusive Distributor  
Princeton Polychrome Press, Inc.  
Princeton, New Jersey

Extra Accessories (Continued)	Price
Extra Glasses for 4 x 5-inch Transparency Holder . . . . .	\$ 5.40
Densichron Densitometer, Complete . . . . .	375.00
Densichron Amplifier Unit . . . . .	225.00
Densichron Reflection Color Head . . . . .	110.00
Kodak Color Densitometer, Model 1 . . . . .	60.00
Kodak Gray Contact Screens, 24 x 24-inch (3 included in Complete Service Package) each . . . . .	121.50

# THREE COLOR PROCESS CAMERA

Short Run Color Corporation  
Cleveland 14, Ohio  
Model 6



The Short Run Color Separation Camera is designed for producing direct screened separations from color transparencies. The camera is adapted to the Kodak three-color process.

The camera is a completely self-contained unit. It will handle transparencies from 35mm up to 4 x 5 inches in size. The maximum printing area from these transparencies is approximately 9 x 13 inches.

Only one set of condensers is needed regardless of the size of the lens, transparency, or enlargement. The mask is exposed directly back through the lens. The air-cooled point source light is automatically positioned as the lens plane is moved.

Voltage control units and timers are built in. The vacuum film hold tilts from horizontal for loading and flashing, to vertical for projection. A unit for projected density readings is included. The filters are mounted in an enclosed turret behind the lens. The Kodak register pin system is used throughout.



**THREE COLOR  
PROCESS CAMERA**Specifications:

Length . . . . . 72 inches  
 Height of Cabinet . . . 30 inches  
 Over-all Height . . . 50 inches  
 Depth . . . . . 20 inches  
 Weight . . . . . 700 pounds

Price:

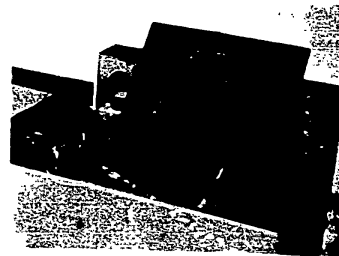
Camera Model No. 6 . . . . . \$3,995.00  
 Model No. 7 . . . . . 2,850.00  
 Model No. 8 . . . . . 3,295.00

Accessories for SRC Camera:

Kodak Matrix Punch . . . . . \$ 84.50  
 Extra 35mm Transparency Holder . . . . . 85.00  
 Extra 4 x 5 Transparency Holder . . . . . 85.00  
 Kodak Gray Contact Screens, 10" x 14" (1 set of 3. Cut to proper Angle,  
 Punched and Mounted) . . . . . 225.00  
 Kodak Gray Contact Screens, 10" x 14" (1 set of 4. Cut to proper Angle,  
 Punched and Mounted) . . . . . 315.00  
 Extra Camera Bulbs (special) each . . . . . 3.75

**COLORSPLITTER**

Roloc Incorporated  
 Milwaukee, Wisconsin



The Colorsplitter is a machine designed to speed production of color separation negatives, masks and positives, and to eliminate many of the registry problems which have been both costly and time consuming in the past.

With the Colorsplitter, one man can produce separation negatives in less time, and at reduced cost.

The Colorsplitter makes separation negatives and color correction masks from color transparencies through the contact printing method.

Transparencies varying in size from 2 1/4 to 2 3/4 to 11 x 14 inches can be separated with the Colorsplitter. However, it is designed to operate as a contact color-separator, enlargements of transparencies cannot be made with it.

A colorsplitter can be set to separate colors from thin transparencies to dense, fully correcting the colors. This is due to the complete controls provided by the Colorsplitter.

Specifications:

**Splitter**  
**Cabinet:** Heavy welded steel; stainless steel top, instrument panel, and access door; gray hammertone finish on exterior, dull black interior. Size 30" wide, 26-5/8" deep, 40" high.

**Controls:** Vacuum, worklight, filter light, power, vacuum pump, intensity, timer light, and timer start, all on instrument panel. Panel also holds vacuum gauge, filter indicator lights, voltmeter, fuse, and timer. Filter control levers are located on work surface. Positions are indicated by colored lights.

COLORSPITTER

Specifications: (Continued)

Voltage  
Regulator: A Sola automatic voltage regulator insures uniform intensity from light source regardless of line voltage variations.

Vacuum  
Contact  
Frame: Extremely rigid printing frame casting supports a sheet of waterwhite glass with register pins inserted.

Light  
Source: Long Life-Low Cost GE No. 211 Enlarging Lamp.

Films  
Stops: Complete set of Wratten gelatin color and neutral density filters furnished, along with set of cover glasses and punched diaphragm stops

Timer: Atcotrol Dial Timer with sixty second dial range.

Auxiliary  
Cabinet: Separate steel cabinet contains vacuum pump to eliminate possible vibration problems.  
Size 14-3/4" wide, 26-5/8" deep, 40" high.

Register  
Punch: Eastman Kodak Matrix Film Punch mounted on cabinet top.

Vacuum  
Pump: Gast vacuum pump with intake filters and muffler.  
110-120 volt, 60 cycle AC operation.

Price: \$2,960.00 FOB, Milwaukee, Wisconsin.

Order  
From: Bridgeport Engravers Supply Company, New York, New York  
California Ink Company, San Francisco, California  
General Plate Makers Supply Company, Chicago, Illinois