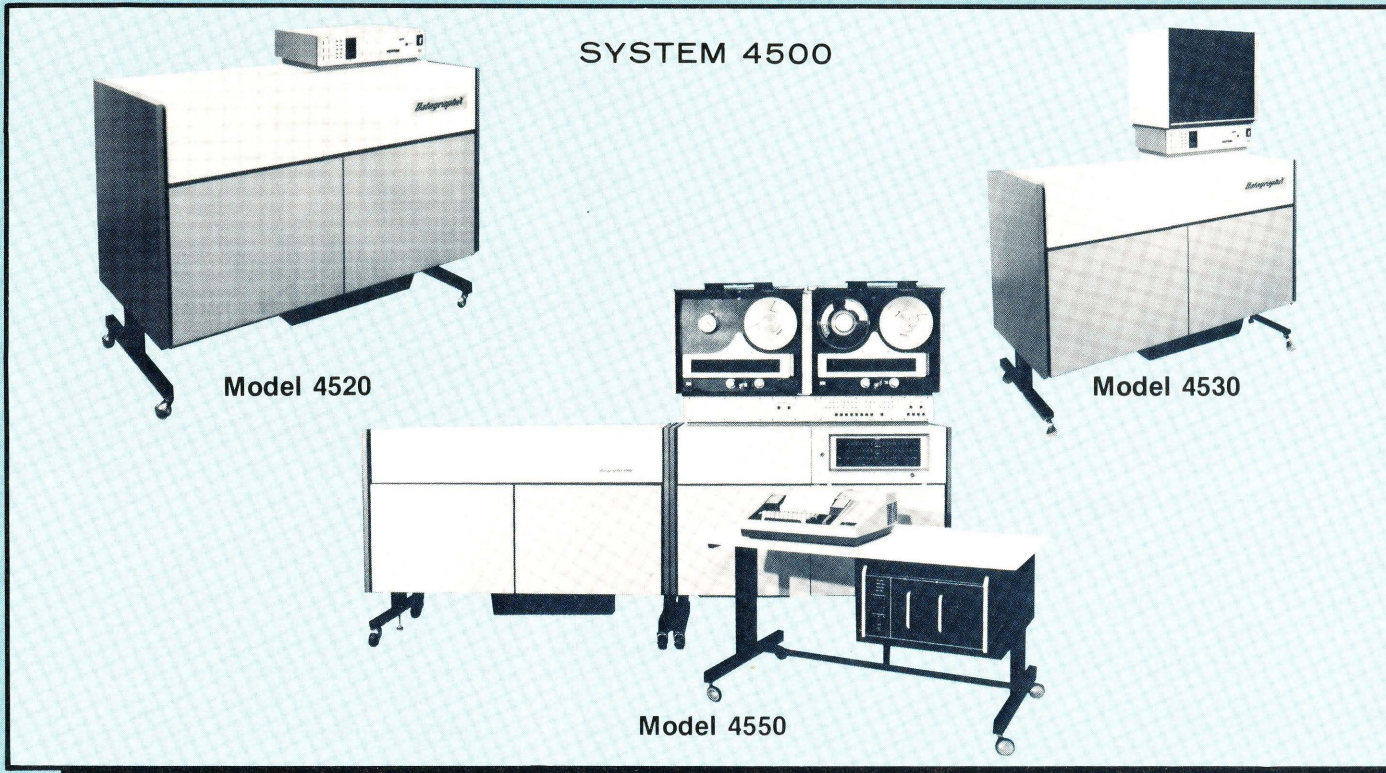**Our third decade of COM leadership**

COM first appeared commercially in 1959 when DatagraphiX delivered their first Model 4020, a system capable of translating computer data into microimages on film in human readable form. The true beginning, however, was in 1951 when we developed our exclusive CHARACTRON® Shaped Beam Cathode Ray Tube — the heart of DatagraphiX' COM Recorders. From this significant breakthrough, we went on to market the most complete line of COM hardware and supplies in the industry. And now, the result of over 20 years experience in COM technology, DatagraphiX has introduced the System 4500, the first truly modular unit allowing expanded capabilities as the user's needs grow. The following is a summary of the family of products that are available from DatagraphiX. For further information, call the DatagraphiX sales office nearest you or call us collect at (714) 283-1038.

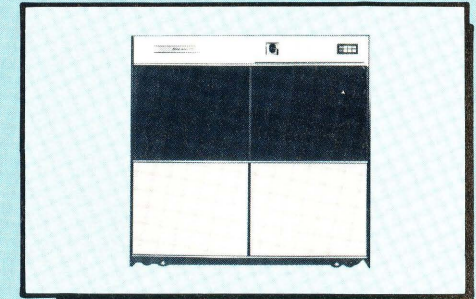# COM systems hardware summary catalog

DatagraphiX

SYSTEM 4500

Model 4520

Model 4530

Model 4550

The Model 4200 Recorder operates on-line from an IBM 360, Model 25 or above, or IBM 370 system and records alphanumeric data in either roll film (16mm/35mm) or microfiche format (105mm) at reduction ratios of 24X, 42X or 48X. Characters are generated and displayed on the Charactron Tube at rates up to 60,000 per second.

The Model 4360 converts seven- or nine-bit parallel computer data from magnetic tape into serially printed text recorded on microfilm. Alphanumeric characters are generated by the Charactron Tube. Transfer rate is 60,000 characters a second. Features include forms projection and retrieval film coding. The optional Universal Camera enables the recorder to output on 16mm, 35mm and 105mm film with a 24X, 42X or 48X reduction lens.

The Model 4440 Recorder converts seven- or nine-bit parallel computer output from magnetic tape into serially printed text recorded on microfilm. Magnetic tape input data is converted to weighted, analog control voltages applied to the Charactron Shaped Beam Tube. Characters thus generated are displayed serially at rates up to 120,000 characters per second and are photographed on microfilm by a shutterless camera. Fitted with a 24X, 42X or 48X reduction lens, the optional Universal Camera enables output on 16mm, 35mm and 105mm film.

The System 4500 is a modular unit allowing expanded capabilities as the user's needs grow. Each of the models incorporate features aimed at ease of operation, high quality output and low maintenance. All models utilize the new "all magnetic" Charactron® tube which produces exceptionally high quality characters with an intensity of up to 12 times that of previous tubes. The System 4500 features a unique camera and lens design that insures precise focus of images at a reduction ratio of 24X, 42X or 48X. The recorders display data pages with up to 160 characters per line and up to 80 lines per page. The camera will record images in horizontal or vertical sequence on 105mm microfiche and in ciné or comic mode on 16mm film.

- **Model 4520** — Online COM Recorder for direct interface on IBM 360/370 computers.

- **Model 4530** — Offline COM Recorder that accepts phase-encoded and NRZI tapes from a variety of computers.

- **Model 4550** — Offline COM Recorder with a mini-computer that supports complete data formatting and microtiche management from print tapes produced by a large number of general purpose computers. Operator communication with the system is provided by the revolutionary all solid-state, non-impact teletypewriter. Repetitive jobs may be run from pre-recorded setup data placed on Diskettes and simply replayed. Additional speed and convenience are achieved through a character translater device utilizing a programmable semi-conductor, Random Access Memory (RAM).
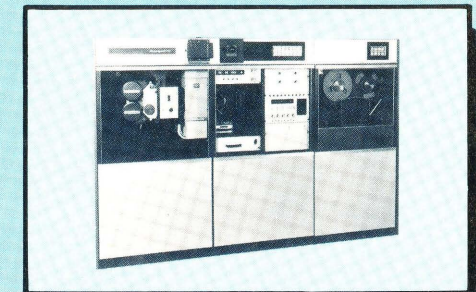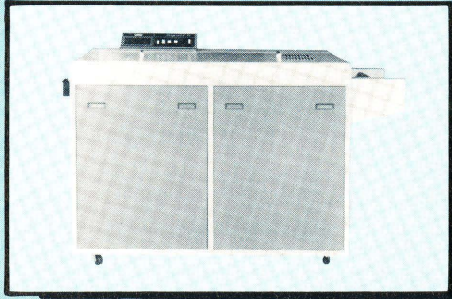
FILM PROCESSORS

The Model 156 Film Processor offers simple reliable and economical processing of film from 16mm to 254mm (10 inches) in width and in any length greater than 4.5 inches. The self-threading unit requires a water input of 2½ gallons per minute at 100°F and a sink or floor drain capable of handling up to 7 gallons per minute. Requiring no leader, the processor may be simultaneously fed with multiple reels of film or it may be fed at irregular intervals as additional reels become available. Transport speed is 5 feet (1.5m) per minute.
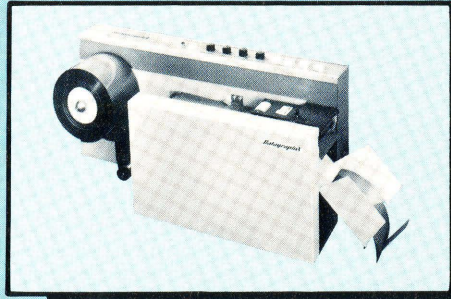

The Model 157 Film Processor is a simple, reliable, and completely self-contained system. No external plumbing required — nonreversal or partial reversal processing of 16mm, 35mm or 105mm silver halide film. The unit employs a five-state (develop, fix, wash, wash, dry for nonreversal) (develop, bleach, clear, wash, dry for partial reversal) system which operates at 5 ft. per minute.

The Model 159 Film Processor features an eight stage system which gives the user the option of processing COM output microfilm to produce non-reversal, partial reversal or full reversal film which is immediately ready for duplication. The Model 159 is self-threading and will accept silver halide roll film widths from 16mm to 105mm at a speed of 2½ feet per minute. The processor can accept one to three stands of film dependent on the input station. The processor may be simultaneously fed with multiple leaderless reels of film or it may be sequentially fed as additional reels become available from the COM unit.
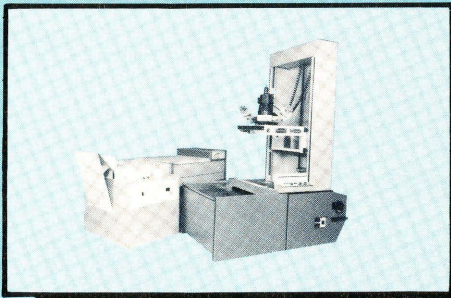
FILM CUTTER

The Model 70 Fiche Cutter is an automatic 105mm roll film cutter capable of accommodating vesicular, diazo or silver films from 2 to 10 mils in thickness and in lengths from 5″ to 8″. Film capacity is up to 1,000 feet of roll microfiche, and operating speed is a nominal 2,500 cut fiche per hour.

ROLL FILM COPIERS

The Model 93/94 Copier is a single unit, dry-process machine capable of producing copies on vesicular film of any suitable 16mm or 35mm roll master. Film capacity is up to 1,000 feet of 3 mil copy film and 500 feet of 5.5 mil silver film. Operation speed is up to 200 feet per minute for the 94 and 120 feet per minute for the 93.
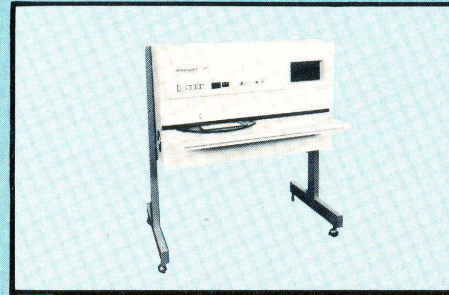
PLATEMAKER

The System 7000 Platemaker produces press ready litho plates from microfilm. At speeds up to 800 plates per hour, the automatic system projects full size images onto Datalith quality plates from which up to 5,000 copies may be reprinted. Plate sizes from 9″ to 12″ through 20″ X 24″ can be reproduced. Features include automatic film advance, capabilities for two-up or four-up plates and manual, semi-automatic or fully automatic modes.
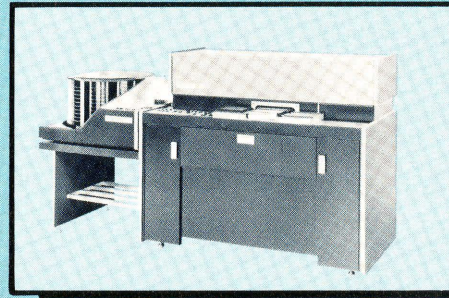
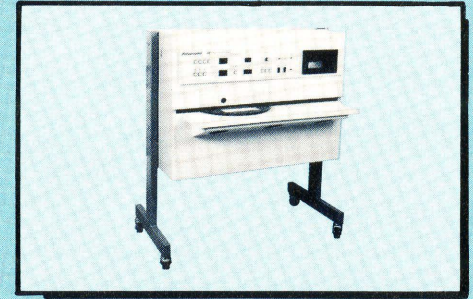## MICROFICHE DUPLICATORS

The Model 71 Duplicator is a compact, portable, table-top unit capable of producing vesicular fiche duplicates from 105mm silver masters in minimum lengths of 5 inches. A two-step duplicating process (exposure and development) is used and results in a nominal operating speed of 360, 4″ X 6″ fiche per hour.

The Model 73 Duplicator is a free-standing automatic cut fiche duplicator which accepts 105mm master microfiche in any length from 5.70″ to 7.40″. Using either vesicular or diazo copy film high quality cut card duplicates are produced of the same size as the master. Full clearing of vesicular film is accomplished and duplicates are provided at a throughput speed of up to 800 copies per hour. Up to 99 copies of each original can be dialed into the control panel.
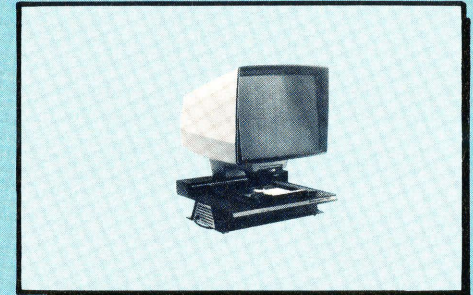

The Model 75 Duplicator is a free-standing automatic cut fiche duplicator capable of accepting master microfiche in 105mm X 148.75mm cut form or in 105mm rolls of up to 250 feet in length. Cut card duplicates (105mm X 148.75mm) are produced from roll vesicular film. An optional automatic collator is available which contains 100 film storage bins in a multi-tiered carousel unit which is electrically connected to the Model 75 and mounts adjacent to it. Throughput speed is in excess of 1,000 copies per hour.
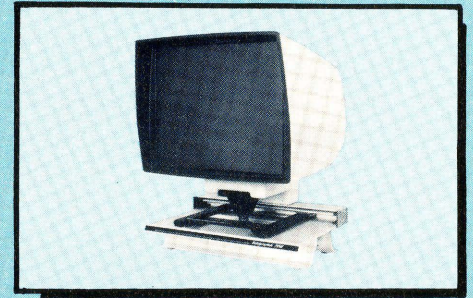
(MICROFICHE DUPLICATORS continued)

The Model 76 Duplicator is a free standing, ventless, automatic cut fiche duplicator which accepts 105mm master in roll or cut form. The duplicator is available in either a diazo or vesicular version and is capable of a copying rate of up to 950 microfiche per hour.

FILM VIEWERS

Model 1410 Series Microfiche Viewers offer unique design, ease of operation, and minimal maintenance in a compact unit. The Model 1410 accommodates two 4″ X 6″ fiche with two independent fiche holders. The Model 1411 accommodates a single fiche up to 7 3/8″ long. The Model 1412 can accept a fiche up to 12″ long or two 6″ fiche with a versatile 12″ fiche holder. All models are equipped with a 9 by 11 1/2″, non-glare acrylic screen having a standard 3/4 blowback. Optional extended screens for all models provides an 87% blowback of 24X, 42X & 48X images.

Model 1460 Series Microfiche Viewers have all of the same design & performance features of the 1410 series described above. The Model 1460 accommodates two 4″ X 6″ fiche with two independent fiche holders. The Model 1461 accommodates a single fiche up to 7 3/8″ long. The Model 1462 (pictured) can accept a fiche up to 12″ long or two 6″ fiche with a single 12″ fiche holder. Screen size is a large 12 X 15 inches, capable of displaying 107% magnification of an original document. Standard lens choices are 24X, 42X or 48X and are operator interchangeable.

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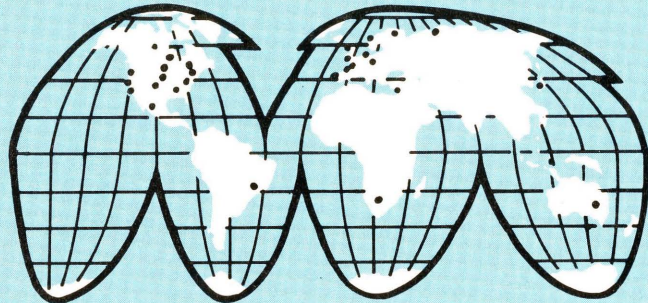
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