

VPC14A

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MODEL 2230 LINE PRINTER



FEATURES

- Low Cost
- 300 LPM
- Simple
- Reliable

The Model 2230 Line Printer provides high-quality, medium-speed impact printing and is ideally suited for small computer systems and terminals.

A print rate of 300 lines per minute is attained when printing a full 64 character set in a 136 column format. The 2230 will produce clear, crisp straight printout on single copy to six-part forms.

All mechanical parts and electronics, including control logic and buffering, are included in the unit's basic low price.

The 2230 is interface compatible with the existing 2000 series.

Operator controls have been designed for easy recognition and operation. A fault indicator

panel provides rapid identification of operator correctable problems. The drum gate swings open to allow ready access for forms loading and ribbon changing. The enclosure has been designed to minimize acoustic noise.

Reliability and maintainability are at the heart of 2230 design. The unique Dataproducts Mark IV print hammer combines with a clutchless paper feed, rugged print drum, and voice coil hammer bank positioner to provide highly reliable elements in the printer system.

The electronics and major subassemblies are of modular construction to aid in rapid fault isolation and repair. Preventive maintenance requirements are minimal due to the inherent stability of the printer subsystems.

MODEL	SPEED (lpm)	CHARACTER FORMAT
2230	300	136
2260	600	136
2310	356 to 1110	80
2440	700 to 1800	132
2470	1250 to 2400	132
2550	1200 to 1500	132
2910 MILITARIZED	356 to 1110	80



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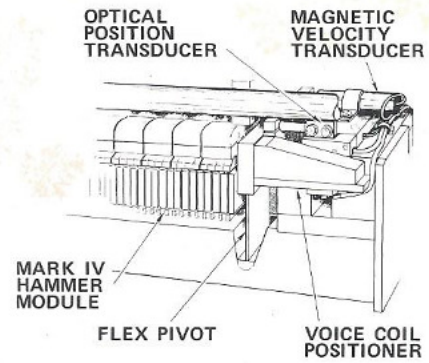
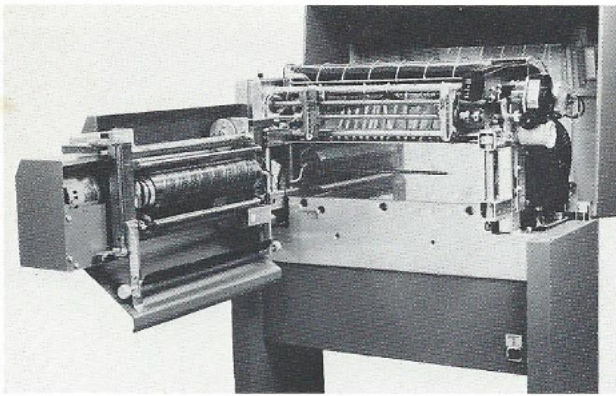


Illustration of Hammer Bank Positioner Mechanism

MODEL 2230 OPERATING PRINCIPLES

Operating principles of the 2230 Line Printer are straightforward. Paper and inked ribbon pass between a row of print hammers and a rotating drum, the surface of which contains all the print characters. Data to be printed is received and stored in a full line buffer. Printing is accomplished by scanning the stored data in synchronization with the rotating drum characters. The appropriate hammers are fired as the characters move into position opposite the print hammer. The hammer bank is mounted on friction free flex pivots and is positioned alternately between odd and even columns by a voice coil positioner. Odd columns are printed during one drum revolution, the even columns on another. A 300-LPM print rate is achieved for a 136-column print line with a single line advance.

MODEL 2230 SPECIFICATIONS

Print Rate:

300 LPM using 64 characters
240 LPM using 96 characters

Character Format:

136 characters/line (10 characters/in)

Character Drum:

64 character standard
96 character optional

Character Set and Font :

Modified ASCII, open gothic DPC-A font with symbols typically 0.095" high by 0.065" wide.

Operator Controls:

Pushbuttons: On/Off line, Paper Step, Top of Form, Alarm / Clear
Lamps: Ready, Power on
Fault Indicators: Gate, Paper, Ribbon, Hammer, Format, Tape
Other: Phasing 6/8 lines per inch, Forms Reset

Paper Feed:

Single set of pin feed tractors, clutchless drive system.
Single Line Advance: 50 milliseconds
Slew Speed: 20 inches/second
Line Spacing: 6 or 8 lines/inch (switch selectable)

Paper Dimensions:

Standard fanfold, edge-punched continuous forms 4 to 16.75 inches wide.

Paper Type:

Single copy, 15 lb. bond minimum multi-copy, to 6-parts with 12 lb. bond and 7 lb. carbon.

Format:

Top of form control, single line advance and perforation step over.

Interface Signals:

Input: 7 Data Lines, 1 Strobe Line
Output: 1 Ready Line, 1 Demand Line, 1 On-Line Line.

Electronics:

Full line buffer, TTL/DTL I/O circuitry, power supplies, and control logic included in standard unit.

Weight:

340 lbs.

Dimensions:

45" high x 33" wide x 26" deep.

Power (Single Phase) :

525 watts; 100, 115, 125, 200, 220 or 240 vac \pm 10%;
50 or 60 Hz \pm 2 Hz

Environment:

Operating: 50 to 100° F (10 to 37°C)
30 to 80% Relative Humidity (excluding condensation)
Non Operating: 0 to 150° F (-18 to 66°C)
5 to 95% Relative Humidity (excluding condensation)

OPTIONAL

12 Channel Vertical Format Units:

Tape controlled VFU utilizes IBM compatible carriage tapes. Direct access VFU allows for direct computer loading via data lines.

Character Fonts:

A variety of character sets and fonts, including EBCDIC, OCR, etc.

Static Eliminator:

Facilitates paper handling under low humidity conditions.

Paper Receptacle:

A free standing basket used to collect paper after it leaves the printer.

Self Test:

A code generator used to drive the printer independent of the user systems.

Elapsed Time Meter:

Used to record ON LINE, POWER ON or PRINT time.

Long Line Interface:

Differential I/O circuits for driving transmission lines.



Dataproducts

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