

SERIES 200

122 PRINTER

The Type 122 Printer is a printed copy output device for the Series 200 Model 120 Computer. This printer can produce single-spaced copy at a rate of 450 lines per minute.¹ Any one of 63 characters — 10 numeric, 26 alphabetic, and 27 special symbols — can be printed in each of the standard 120 print positions. An extended print option (Feature 1034) permits printing in 132 positions. Depending upon the paper stock being used, up to seven carbon copies can be produced.

Printing operations are directed by the printer control which is a part of the Type 121 Central Processor. This integrated printer control regulates the transfer of data between the central processor and the printer so as to reconcile the differing mechanical and electronic speeds and to minimize the interruption of central processor activities by data transfer.

EDITING FOR PRINTING

An editing instruction in the processor enables the programmer to insert spaces and punctuation in alphabetic and numeric data, to suppress leading zeros in numeric data, and to insert identifying symbols such as dollar signs, asterisks, etc. Data can be printed from any area of memory.

PROGRAMMED OPERATIONS

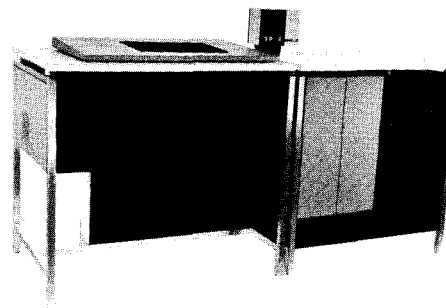
The Type 122 Printer can perform the following operations under program control: (1) print one line and space a specified number of lines from 0 to 15 or to the head of the next form; and (2) advance paper in either of the above ways but without printing. A single print instruction causes the central processor to transfer data to the printer control from a programmer-defined line-image area in memory. The control then directs the printing of the characters and whatever vertical spacing is specified in the instruction. A similar instruction directs the printer control to inhibit printing and initiate spacing. The central processor is free to perform computations and to direct other input/output operations during approximately 85% of a print cycle.

DATA PROTECTION

Operation of the printer is checked automatically to ensure that it responds correctly to control unit printing signals. If this check fails, an automatic halt results.

¹ Rated print speed is based on the use of a standard set of 55 characters. If additional characters are used (up to 63-character set), print speed is 400 LPM.

Specifications remain subject to change in order to allow the introduction of design improvements.



SPECIFICATIONS

PAPER STOCK: Width — 4½ in. to 20 in., pin-to-pin.
Weight — 16 lb., single-part form to 135 lb., continuous card stock.

PROGRAMMED OPERATIONS: Print and space; space only.

PRINTABLE CHARACTERS: 10 numeric, 26 alphabetic, and 27 special symbols.

DATA FORMAT: 120 (optional 132) print positions per line, 10 characters per inch. Vertical spacing is 6 or 8 lines per inch.

DRUM SPEED: 450 RPM (nominal).

PRINT SPEED: 450, 120- or 132-character lines per minute for continuous single-line printing. Line skip speed is up to 50 inches per second.

SIMULTANEITY: The central processor is free for approximately 85% of a processing interval shared with a printing operation.

OUTPUT AREA: Any main memory area.

REPRODUCTION SYSTEM: Hammer stroke against print drum.

DATA PROTECTION: Printer stopped and indicator set if printer not responding correctly to control unit printing signals.

ADDRESS ASSIGNMENT: One.