

3056



The Memorex 3056 Matrix Printer

Highlights

From idea to implementation

It took only one bright idea to create the Memorex® 3056 Matrix Printer; a printer specifically designed to allow users to print and tear off one form at a time.

It took hundreds more to implement it.

Most matrix printers on the market today do not permit immediate access to printed forms. Usually, paper tractors are located above the print line, so forms are still connected to the tractors after they have been printed. In order to release these forms from the tractors, users must advance the paper forward, leaving the printhead in the middle of the next form, and rendering that form useless.

As a consequence, users must either incur the expense of designing specific forms with at least five inches of dead space in-between forms, or waste entire unused forms by advancing them for access to the previously printed forms.

The Memorex 3056, on the other hand, has tractors below the print line. As the form is printed, it advances above the print line, and is released. When complete, the form may be torn off against a rigid metal tear-off bar, leaving the next form with the printhead at the top, undisturbed, and ready to be printed.

Certain special applications require printing a single document or tearing off a form, such as hotel guest invoices, checks, customer invoices, airline tickets, accounts status, bills of lading, and warehouse packing documents. The 3056 not only accommodates all these forms, but also handles continuous printing runs of computer records.

The Memorex 3056 Matrix Printer is a functional replacement with advanced capabilities for the IBM 5256 Matrix Printer. It operates with a System/34 or System/38 via a twinaxial cable attached to the CPU, or through an IBM 5251 Model 12 Cluster Controller.

The 3056 is a perfect example of Memorex peripherals applying the latest technology to provide users with enhanced performance. It features a 9-pin printhead in a 7x9 dot matrix, an approach to print-head engineering which assures the highest print quality, even when using up to 9-part forms.

Operators may select between six or eight lines of copy per inch at the flip of a control panel switch. The printer features a standard pedestal to minimize floor space requirements, and its low noise enclosure allows the 3056 to be operated in a business environment.

Extras are standard

Advanced thru-put is realized due to the 3056 print speed of 200 characters per second. Combined with a spacing rate of 600 characters per second and a vertical paper slew rate of 20 inches per second, the 3056 offers at least twice the thru-put of the fastest 5256 on average jobs.

A metal tear-off bar is located immediately above the print line. This rigid bar can be adjusted from one and one-half inches to less than half-an-inch above the print line, and allows up to 9-part forms to be removed immediately after printing. Various forms widths are possible because the bar extends across the entire print area. Upon completion of printing, a form may be torn-off against the rigid bar while the printhead is at the very top of the next form.

Lower metal tractors below the print line can be adjusted to accommodate up to 9-part forms with widths from 4.75 inches to 15.75 inches. The lower tractors may be adjusted to the left or right to allow exact positioning of the printing on the form. An adjustment knob, located on the side of the tractors, allows infinite vertical paper adjustment.

Upper tractors permit continuous printing runs when the paper is to be stacked after printing. These tractors are fully adjustable, and can be used simultaneously with, or instead of, the lower tractors. A paper rack and forms basket are included with the 3056 for continuous printing applications.

The straight paper-feed path eliminates the need to load forms inconveniently around a narrow typewriter-like platen as in other matrix printers. The printer feeds forms in a path directly from the forms stack below, through the printer and out. The straight paper-feed path also reduces costly paper jams. Various forms thicknesses can be accommodated with a special printhead adjustment lever.

An audible alarm, which is standard, alerts the operator when forms are exhausted, and warns of other system or operator errors.

Compressed printing makes it possible to print a maximum of 132 characters within an eight-inch space. Significant savings could be realized by using smaller forms or by printing more information on existing forms. The standard 10 characters per inch or the compressed 16.5 characters per inch is selected by the operator with a flip of a front panel switch.

A 75-yard nylon ribbon cartridge snaps in or out for easy ribbon changing, and an inkwell for automatic re-inking keeps the print dark throughout the life of the ribbon. The ribbon's longer length, combined with automatic re-inking, results in fewer ribbon changes and consistently readable print.

An underlining capability, provided by the ninth pin on the printhead, makes it possible to underline both lower case and special characters without interfering with the descenders.

Cable-Thru increases the versatility of the 3056. It allows the attachment of additional display stations or printers, daisy-chain style, the first of which is directly attached to the CPU.



3056 Matrix Printer Specifications

Print Mechanism

The print mechanism is a highly reliable 7x9 dot matrix impact print type, featuring a servo-controlled printhead with a maximum speed of 200 characters per second and a vertical slew rate of 20 inches per second.

Character Set

EBCDIC character set is standard in a 96-character configuration.

System Interface

The printer attaches directly to the IBM System/34 or System/38, or to an IBM 5251 Model 12 Cluster Controller, via a twinaxial cable.

Physical Dimensions

Printer:

Depth: 55 cm (22 in.)

Width: 71 cm (28 in.)

Height: 27 cm (11 in.)

Pedestal:

Height: 66 cm (26 in.)

Cabinet

White textured finish with black accents.
The pedestal is blue.

Power

115/230V, 60/50 Hz

Weight

Printer: 34 kg (75 lb.)

Pedestal: 18 kg (40 lb.)

Operating Environment

Ambient Temperature:

0° to 44°C (32° to 110°F)

Ambient Relative Humidity:

10% to 95%

Heat Dissipation

Printing: 683 BTU/h

Non-printing: 410 BTU/h

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