Model DM 50/300
Multifunctional Matrix Printer

OVERVIEW

The Wang Model DM 50/300 Multifunctional Matrix Printer is a perfect partner in business. The DM 50/300 is designed for use on the following systems:

- Wang Professional Computer 200/300 Series
- Wang Professional Computer (PC and APC) Series
- IBM Personal Computer AT, IBM PC XT, and IBM PC Compatibles

NEW SUPER SPEED

The DM 50/300 can print up to 50 characters per second (cps) at 12 pitch in correspondence, and up to 300 cps (12 pitch) in Draft Elite and 250 cps (10 pitch) in Draft Pica. A further time saver is bidirectional printing with logic seeking. Fast and efficient, the DM 50/300 assures unsurpassed convenience for a wide range of applications.

SPECIAL BENEFITS FOR BUSINESS USE

The DM 50/300 is particularly suitable for business use. An extra-wide carriage allows it to print up to 136 characters per line on spreadsheets — a capability especially useful in preparing business documents. This capability allows graphs, charts, tabulations, etc. to be printed with optimum clarity. Another advantage is the ability to produce up to three copies (three-part form including the original). The printer includes an adjustable

built-in push tractor unit and friction feed to handle fan fold and cut sheet paper. Automatic sheet loading is quick and easy — the paper bail lever needs only to be moved forward to feed the paper and then backward to position the paper.

In addition, the DM 50/300 packs in its compact design the following features:
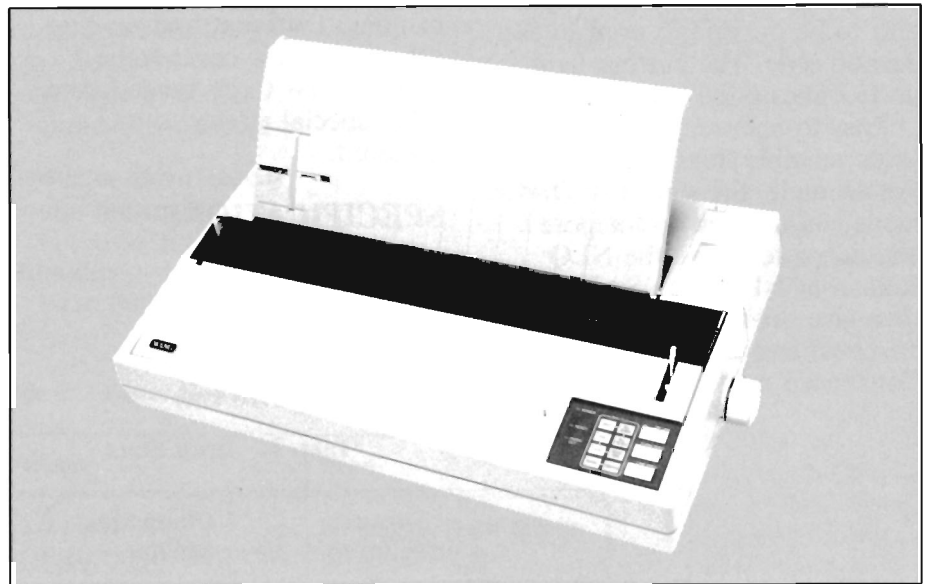
- Near letter quality (NLQ) Roman and NLQ Sans Serif fonts for correspondence quality printouts
- Bidirectional printing with logic seeking
- SelecType one-touch mode selection
- Two types of paper feeds (push tractor and friction)

accepting two types of paper (cut sheet and fan fold)

- Optional color kit
- Ability to make multiple copies
- Zero line tear-off

EPSON® AND IBM CAPABILITIES

The DM 50/300 can operate in either IBM Printer Emulation mode or Epson mode. IBM Printer Emulation mode allows the use of software designed for the Wang PC 200/300 Series systems, the IBM PC, and compatible systems. Epson mode accepts Epson-developed ESC/P™ commands for a

comprehensive range of functions, including the printout of IBM character graphics.

UNBEATABLE CONVENIENCE FROM SELECTYPE

One of the biggest advantages the DM 50/300 has over other printers is the convenience offered by the SelecType mode selection. Located on the printer's control panel, this cluster of push buttons gives quick access to:

- Three fonts — Draft, NLQ Roman, and NLQ Sans Serif
- Two pitches — Pica and Elite
- Proportional spacing
- Choice of Normal and Condensed modes

The appropriate button needs only to be pressed to print in the desired style. The buttons light up to indicate the selected mode.

Easy to operate, SelecType saves valuable time and effort. For example, the superfast Draft mode can be used to compose and edit a text, and the NLQ Roman or NLQ Sans Serif can then give the final printout extra crispness and clarity. The Condensed mode produces more

characters per line by compressing characters to about 60% of their normal width.

SelecType functions can be controlled by the user's software when in Epson mode. When in IBM Printer Emulation mode, SelecType can be used to access features not typically available on IBM printers, such as the NLQ Roman font and proportional spacing. Thirteen international character sets are available to accommodate different languages.

SHARP DEFINITION IN BLACK-AND-WHITE OR FULL COLOR

The DM 50/300's dot matrix printing method creates remarkably clear graphics. An optional, user-installable color kit is all that is needed to shift to color printing. Different built-in character sets allow boxes to be drawn, areas to be shaded, and other special effects to be achieved.

SPECIFICATIONS

Physical Dimensions
Height
    4.8 in. (12.19 cm)
Width
    23.3 in. (59.18 cm)

Depth
    15.3 in. (38.86 cm)
Approximate Net Weight
    25.1 lbs (11.4 kg)

Speed (Maximum)
300 cps (Draft Elite)
250 cps (Draft Pica)
 50 cps (NLQ normal)

Print Characteristics
Character set
    ASCII characters
    13 international character sets
    Graphic characters
    IBM Graphic characters
    (selectable)
Font
    Built-In NLQ Roman and
    NLQ Sans Serif
Character structure
    9 x 9 matrix (Draft)
    18 x 18 matrix (NLQ)
Printing Method
    Impact, 9-pin dot matrix
Print Direction
    Bidirectional printing with
    logic seeking in both text and
    bit image (Unidirectional
    printing can be selected by the
    software)

Print Sizes
Table 1 provides print size specifications.

Tabulations
Horizontal/Vertical

Table 1. Print Sizes

	Character size (mm)	Characters per line	Characters per inch
Pica	2.1 x 3.1	136	10
Condensed Pica	1.05 x 3.1	233	17
Elite	2.1 x 3.1	163	12
Condensed Elite	1.05 x 3.1	272	20

Product Safety
UL
CSA
VDE

FCC Compliance
FCC Class B

Interface
Standard
　Centronics parallel
Input buffer
　8K bytes

Paper Handling
Table 2 provides paper handling
specifications.
Copies
　3 copies (including original)
Paper thickness
　0.006 in. (0.16 mm) or less
Paper path
　Fan Fold - Rear
　Cut Sheet - Top
Vertical Line Spacing
　6 lines per inch (lpi) or 8 lpi
　or incremental to 1/216 in.
　(programmable)

Ribbon Cartridge
Standard
　Black
Optional
　Color: black, cyan, magenta,
　yellow

Type
　Cartridge

Built-In Functions
Buffer-full printing
Hex dump
Self-test printing: NLQ/draft
Input data buffering
Panel setting

Mode Select Switch
SelecType
　Soft-touch control panel (with
　LED)
　Select print mode directly:
　　NLQ Roman/NLQ Sans
　　　Serif/Draft
　　Elite/Pica/Proportional
　　Normal/Condensed

Control Panel
Power Indicator
Ready Indicator
Paper Out Indicator
On-Line Button/Indicator
Form Feed Button
Line Feed Button
SelecType Font Selection
　Buttons/Indicators

Operating Environment
Temperature
　41° to 95°F (5° to 35°C)
Humidity
　10 to 80% noncondensing

Power Requirements
Voltage
　120 Vac (Domestic)
　220/240 Vac (International)
Frequency
　49.5 Hz to 60.5 Hz
Consumption
　120 Vac

Noise Level
Under 60 dB(A) (Running
Continuously)

Reliability
Life of print head
　100,000,000 characters
　(14 dots per character)
Life of ink ribbon
　Black type:
　3,000,000 characters
　Color type:
　2,000,000 characters; black
　1,000,000 characters; cyan
　1,000,000 characters; magenta
　1,000,000 characters; yellow
　(14 dots per character)

Cabling
Interface Cable
　12 ft. (3.7 m) (supplied)
Power Cable
　6 ft. (1.8 m) (supplied)

Standard Warranty Applies

Table 2.　Paper Handling Specifications

	Width	Feed
Fan Fold	4.0 in. to 16.0 in. (10.16 cm to 40.64 cm)	adjustable push tractor (zero tear-off)
Cut Sheet	7.15 in. to 14.40 in. (18.61 cm to 36.58 cm)	friction

WANG

Wang Laboratories, Inc., reserves the right to change specifications without prior notice.