

Printer Applicator Machine (PAM) 3000



PAM 3000

Part Number	Description
PAM 3000 PTR	PAM 3000 Printer
PAM 3000 APP	PAM 3000 Applicator
PAM 3000 AIRSTD	PAM 3000 Air Service Unit Standard

SPECIFICATIONS

PAM 3000

Print resolution	300 dots per inch (12 dots per mm) thermal transfer printer
Printhead	High energy output for improved print performance
Standard memory	2 MB
Maximum memory card	4 MB PCMCIA
Maximum print width	4.200" (106.60 mm)
Minimum label width	0.200" (5.00 mm)
Maximum label width	4.567" (116.00 mm)
Minimum label height	0.138" (3.50 mm)
Maximum label height	3.150" (80.00 mm)
Maximum label roll diameter	7.784" (200.00 mm)
Fonts and Bar Codes	0°, 90°, 180°, 360°
Maximum Character Size	3.150" (80.00 mm) scaleable
Core diameter- Rewinder	1.575" (40.00 mm)
Roll diameter - Rewinder	5.709" (145.00 mm)
Internal Rewinder	Minimal tension
Print speeds	2.600" (66.00 mm) to 7.890" (200.00 mm) per second
Applicator rotation	0° and 90°
Applicator stroke	6.700" (170.00 mm)
Application cycle time	2.5 - 5.0 seconds
Stroke pressure	Automatic or manually

The PAM 3000 combines a 300 dpi resolution thermal transfer printer, pneumatic applicator and options for bar code verification, to create a fully automatic labeling solution for anywhere in or around the production line. The Pam 3000 is designed to help increase efficiency and reduce costs.

PAM 3000 features include zero queue print/apply, an integrated bar code scanner and the ability to print and apply a range of label sizes. It's unique peel-off shuttle system provides extremely high placement accuracy. It's an ideal solution to compliment a real time tracking process.

PAM 3000 has been designed with Brady's patented dispenser system for precision printing, picking and application of labels. The high performance shuttle dispense system does not require airflow to support the label prior to application. By removing the need for air support this innovative system facilitates the use of the smallest Brady labels.

The PAM 3000 provides a scanner interface to connect a fixed bar code reader. The reader can verify each label in real time and reprint flawed or misprinted labels. All scanned bar codes could be classified and verified with a database within the computer software application.

PAM 3000 memory provides zero queue functionality, enabling real time PCB, product or component identification. Labels are not printed in advance of when they are needed, therefore a queue of pre-printed labels is never created. Misprinted labels can be immediately reprinted (up to 3 times) and applied, saving both time and money!

The PAM 3000 offers the versatility of manual or automatic feeding by adding a foot-switch or interfacing to a PLC* to control the print and apply cycle.

The PAM 3000 easy-to-use technology prints and applies on a variety of label materials ranging in size from 0.138" (3.50 mm) to 3.15" (80.00 mm) high, and 0.200 (5.00 mm) to 4.567 (116.00 mm) wide.

The PAM 3000's unique design provides reliability in a machine that consistently prints and accurately positions labels in almost all manufacturing applications.

The PAM 3000 offers precision, versatility and high print quality for a minimal investment. It's a truly unique system that's in a class in a class of its own.

- ▶ 1 axis placement and rotation 90° with standard applicator.
- ▶ Fully automated
- ▶ Multi position when conveyor adapted
- ▶ Very high placement accuracy
- ▶ Manufacturing efficiency readable micro bar codes

*Programmable Logic Controller

► PAM 3000 OPTIONS

Part Number	Description
PAM3000220VCONN	PAM 3000 external connection 220V
PAM300024VCONN	PAM 3000 external connection 24V
PAM3000ALARMLIGHT	PAM 3000 alarm light
PAM3000APPCOVER	PAM 3000 applicator protective cover
PAM3000CABLEPAR	PAM 3000 Interface cable parallel
PAM3000CABLESER	PAM 3000 Interface cable serial 25/9
PAM3000LBSENS	PAM 3000 sensor end labels
PAM3000MANUAL	PAM 3000 operator's manual
PAM3000MOUNTPLATE	PAM 3000 mounting plate
PAM3000PAD1100	PAM 3000 PAD 1100 (0.800" high or greater)

Part Number	Description
PAM3000PAD1200	PAM 3000 PAD 1200 (0.800" high or less)
PAM3000PADADAPTER	PAM 3000 PAD adapter (for PAD 1100)
PAM3000PCMCIA2MG	PAM 3000 PCMCIA card 2 MG
PAM3000PCMCIA4MG	PAM 3000 PCMCIA card 4 MG
PAM3000PTRCOVER	PAM 3000 printer protective cover
PAM3000RBSENS	PAM 3000 sensor end ribbon
PAM3000SCRMONO	PAM 3000 scanner monotram
PAM3000SCRRAST	PAM 3000 scanner raster
PAM3000SUPCOVER	PAM 3000 support protective cover

► PAM 3000 UNIFORM CHARACTERISTICS

Ribbons

- ▶ Outside diameter: up to 3.622" (92.00 mm)
- ▶ Core diameter: 1.000" (25.00 mm)

Programming Language

- ▶ Flexible programming language
- ▶ Controlled via mainframe, mini, PC or PLC
- ▶ CODESOFT™ driver

Fonts (standard)

- ▶ Five bitmap fonts including OCRA, OCRB
- ▶ 2 vector fonts available internally
- ▶ Inverse, bold, italic, underline and outline

Paper Recognition

- ▶ Photo-cell
- ▶ Reflex photo-cell from above or below
- ▶ Sensor position adjustable

Utilities

- ▶ Operational voltage: 115V - 60Hz and 203V - 50Hz
- ▶ Air Pressure: 58-87 psi (4-6 bar)

Electronics

- ▶ 32-bit Motorola MC 68332 printer processor
- ▶ 2MB RAM memory

Bar Codes/ Symbolologies

- ▶ Interleaved 2/5, UPC/EAN add-on 2 digit, Code 39, Code 93, Code 128 A, B, C, Codebar, EAN 8, EAN 13, HIBC, JAN 8, JAN 13, MSI, Plessey, PDF 417, UPC A, UPC E, POSTNET, FIM, UCC-128
- ▶ 2-D bar codes Datamatrix PDF 417
- ▶ Height, module width and ratio can be varied

Physical

- ▶ Height: 15.749" (400.00 mm)
- ▶ Width: 10.630" (270.00 mm)
- ▶ Depth: 19.685" (500.00 mm)
- ▶ Weight: 77 lbs. (35 kg)

Communications Interfaces

- ▶ Serial: RS 232C, RS-422, RS-485: 1200-57600 Baud
- ▶ Parallel Centronics
- ▶ PLC Interface: 6 outputs, 3 inputs
- ▶ Scanner interface: Power supply up to 150 maximum. External trigger and good read

Environment

- ▶ Temperature range: 50°F to 95°F (10°C to 35°C)

Graphics

- ▶ Line, box, circle, ellipse
- ▶ Formats PCX, IMG, BMP, TIF, GIF, JPG and MAC
- ▶ IBM® Codepage 850/852 EBCDIC, ISO 8859-1, Macintosh

Additional Features

- ▶ Show date and time
- ▶ Show labels waiting to print

Materials

- ▶ B-423 - Polyester
- ▶ B-426 - Amber polyimide
- ▶ B-428 - Metallized polyester
- ▶ B-457 - Polyimide
- ▶ B-473 - Static dissipative polyester
- ▶ B-477 - Static dissipative polyimide
- ▶ B-478 - Static dissipative low-profile polyimide
- ▶ B-483 - Ultra aggressive polyester
- ▶ B-486 - Ultra aggressive metallized polyester
- ▶ B-487 - Polyimide
- ▶ B-488 - Polyester
- ▶ B-489 - Ultra aggressive polyester
- ▶ B-495 - Polyethylene Naphthalate (PEN)
- ▶ B-8423 - Polyester
- ▶ Other materials available



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