

DIAMONDBACK™ L



Automatic Textile Press



FEATURES

- Up to 6 colors
- Maximum image area 35 x 28 cm (14" x 11")
- Heavy-duty casters make it easy to move the press around the shop

Designed for high-quality specialty production in a small footprint, Diamondback L prints tagless labels and other substrates quickly and effortlessly. With a 35 x 28 cm (14" x 11") maximum image area, it's also ideal for those who don't want to tie up their larger presses with smaller-format work. Capable of speeds in excess of 1000 cycles per hour, it's the fastest automatic textile press in its category. Diamondback L has an extremely compact 259 cm (8' 6") diameter, allowing it to fit into almost any production area. Heavy-duty casters make it easy to move Diamondback L around the shop—or out of the way when the press is not in use.

Diamondback L is available in base and enhanced configurations. Both feature a servo-driven indexer with exceptional speed, smoothness and control;

pneumatically-driven print carriages; calibrated squeegee pressure adjustment; and three-point pallet leveling brackets with quick release. Also standard are a pivoting control panel with touch-screen display, 15 x 41 cm (6" x 16") aluminum pallets, micro-registration, rear stroke-length adjustment, and M&R's patented Revolver Print Program. Enhanced models have pneumatic frame locks, pneumatic squeegee/floodbar locks, and pneumatic squeegee pressure regulators.

All equipment from The M&R Companies is built with M&R's unsurpassed attention to detail and commitment to quality, durability, innovation, and design excellence, and is backed by M&R's unparalleled 24-hour access to service, support, and premium parts. It's no wonder M&R is the first name in screen printing equipment.

www.mrprint.com
store.mrprint.com

DIAMONDBACK™ L

STANDARD FEATURES

Carousel/Indexer

- Clockwise or counterclockwise rotation available (specify at time of order)

Central Off-Contact

- Permits fast, incremental single-lever adjustment of all stations simultaneously

Certification

- CE & UL compliant: Built to specifications established by the European Committee for Standardization® (CE) and Underwriters Laboratories® (UL)

Control Center

- Countdown program indicates when operator-set index count has been reached
- Independent print-start/print-finish setting automatically activates and stops printheads at the beginning and end of production runs
- Multiple (1-9) print stroke capability
- Multi-print in the up position
- Onboard self-diagnostics
- Real-time production data
- Swiveling control arm with touch-screen display

Design & Construction

- Heavy-duty casters make it easy to move the press around the shop—or out of the way when it's not in use

Index System

- Servo-driven index ensures accurate, smooth travel

Pallet System

- Precise three-point pallet leveling system
- Tool-free pallet locator speeds pallet changeover
- Tool-free quick release pallet locks

Printheads

- Four-point off-contact adjustment
- Independent print/flood speed controls on each printhead simplify press setup
- Pneumatically-driven printheads

Registration

- Compatible with numerous registration systems, including M&R's Tri-Loc® & Double Tri-Loc® and Newman Pin-Lock®
- Enhanced micro-registration adjustments with visual guides

Revolver Print Program™

- Automatically operates individual printheads in programmed sequence and allows multiple flashing without losing a printing position (U.S. Patent No. 5,595,113)

Screen Clamps & Holders

- Adjustable side frame holders accommodate a wide variety of screen sizes
- Clamping system holds roller frames without special adapters
- Manual clamps hold frames tight and allow rapid screen loading (pneumatic clamps on enhanced models)

Squeegee/Floodbar

- Angle and calibrated pressure adjustments are independently set
- Front or rear print carriage stop position allows operator to leave screens clear or flooded (great for water-based inks)
- Independent squeegee & floodbar speed adjustments
- Manual squeegee/floodbar clamps (pneumatic clamps on enhanced models)
- Manual squeegee pressure regulator (pneumatic pressure regulators on enhanced models)
- Visual reference marks every 5 degrees simplify squeegee/floodbar angle adjustments

Stroke Length Adjustment

- Calibrated rear stroke length with tool-free adjustment maximizes print speed

Warranty, Service & Support

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- Parts & supplies are available online at store.mrprint.com
- Two-year limited warranty

OPTIONS

Design & Construction

- Designed & disassembled to fit through a 97 cm (38") doorway

Foot Pedal Control

- Allows indexing of the press using a foot pedal
- Skip-Shirt foot pedal feature allows operators to avoid printing empty pallets

Optical No-Shirt Detector

- Automatically prevents the press from printing on empty pallets (U.S. Patent No. 5,383,400)
- Reduces misprints and minimizes press stoppage because of improperly loaded shirts

Printheads

- Enhanced printhead option includes pneumatic squeegee/floodbar locks with tool-free angle adjustment, pneumatic screen frame locks, and pneumatic squeegee pressure regulator with pressure gauge

SPECIFICATIONS

Diamondback L 8/6	
Air @ 6.9 Bar (100 psi)	566 l/min (20 cfm)
Diameter	259 cm (8' 6")
Electrical Requirements ¹	208/230 V, 1 ph, 10 A, 50/60 Hz, <1 kW
Maximum Frame Size	51 x 61 x 5 cm (20" x 24" x 2")
Maximum Image Area	35 x 28 cm (14" x 11")
Shipping Weight	1295 kg (2850 lbs)
Standard Pallet Size	15 x 41 cm (6" x 16") or 38 x 41 cm (15" x 16")
Stations/Colors	8/6

¹If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations are available: Contact The M&R Companies for details.



The M&R Companies
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