

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

With a 51 x 61 cm (20" x 24") maximum frame size, a 35 x 28 cm (14" x 11") maximum image area, and an extremely compact footprint, Diamondback L is a truly unique press. It's perfect for manual shops with limited space looking to break into automatic printing. At the same time, its high-speed servo and 259 cm (8' 6") diameter makes it ideal for larger shops interested in an automatic press that requires little space—yet turns out tagless labels, pocket prints, and smaller-format images of exceptional quality. Diamondback L's heavy-duty casters make it easy to move around the shop—or out of the way when it's not in use. Capable of speeds in excess of 1000 cycles per hour, it's the fastest automatic textile press in its category.

Diamondback L features 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, tool-free pallet locator,

tool-free quick-release pallet locks, micro-registration, calibrated and tool-free rear stroke-length adjustment, and M&R's patented Revolver Print Program, which automatically operates individual printheads in programmed sequence and allows multiple flashing without losing a printing position.

Other features include central off-contact, multiple print stroke capability, multi-print in the up position, onboard self-diagnostics, and real-time production data. Diamondback L's printheads include pneumatic squeegee/floodbar clamps with tool-free angle adjustment, pneumatic screen clamps, and pneumatic squeegee pressure regulators with pressure gauges. Diamondback L is compact enough to fit into almost any production area, and its high-speed production helps ensure a rapid return on investment. The ability of the press to turn out exceptional images lets it stand in for larger presses on tagless labels and smaller-format projects, and its mobility makes it the perfect addition to almost any shop.

www.mrprint.com
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DIAMONDBACK™ L

STANDARD FEATURES

CAROUSEL/INDEXER

- Clockwise or counterclockwise rotation

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
- Pivoting control panel with touch-screen display
- Real-time production data

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
- Solid-aluminum, low-profile, rubber-coated pallets
- 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
- Printheads include pneumatic squeegee/floodbar clamps with tool-free angle adjustment, pneumatic screen frame clamps, and pneumatic squeegee pressure regulators with pressure gauges

REGISTRATION

- Compatible with M&R's Tri-Loc® Rapid Registration System
- 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

- Clamping system holds roller frames without special adapters
- Pneumatic screen clamps facilitate rapid screen loading and deliver excellent stability on a wide variety of screens
- Side clamps offer easy screen loading

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
- Pneumatic squeegee/floodbar clamps with tool-free angle adjustment
- Squeegee pressure regulator on each printhead offers exceptional control of print pressure
- Visual reference marks every 5 degrees simplify squeegee/floodbar angle adjustments

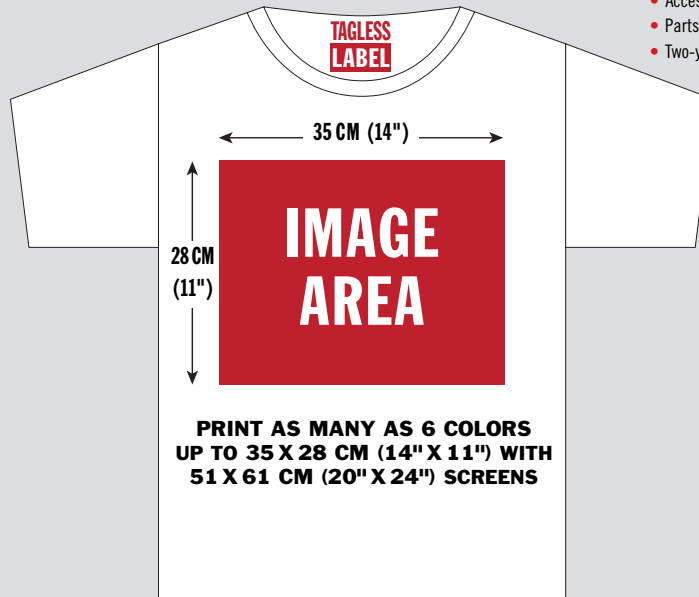
STROKE LENGTH ADJUSTMENT

- 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

PRINT TAGLESS LABELS AT AMAZING SPEEDS



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

SPECIFICATIONS

	Diamondback L 8/6
Air @ 6,9 Bar (100 psi)	566 l/min (20 cfm)
Diameter	259 cm (8' 6")
Electrical Requirements ¹	110 V, 1 ph, 10 A, 50/60 Hz, 0.46 kW 208/230 V, 1 ph, 5 A, 50/60 Hz, 0.46 kW
Maximum Frame Size	51 x 61 x 4.5 cm (20" x 24" x 1.75")
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

¹ If 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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