

DIAMONDBACK™ XL



Automatic Textile Press



FEATURES

- Up to 9 colors
- Maximum image area
51 x 53 cm (20" x 21")
- Patented M&R Revolver Print Program™

Looking for an automatic press with a large maximum image area but at a low cost? Then M&R's Diamondback XL is the press you've been searching for! With its huge 51 x 53 cm (20" x 21") print area and the ability to print up to 9 colors, Diamondback XL offers more versatility for the price than any other automatic press on the market. Its servo-driven indexing system provides outstanding performance, while its pneumatic printheads can accept screens up to 66 x 91 cm (26" x 36"). Also included is M&R's patented Revolver Print Program, which automatically operates individual printheads in programmed sequence and allows multiple flashing without losing a printing position.

Diamondback XL is available in either base or enhanced configuration. Both models feature a pivoting control panel with touch-screen display, side screen clamps

with micro-registration, calibrated squeegee and floodbar pressure adjustment, M&R's three-point pallet leveling brackets with quick release, calibrated rear stroke length adjustment, and 41 x 56 cm (16" x 22") pallets. Enhanced Diamondback XL models add great features, including pneumatic screen clamps, pneumatic squeegee/floodbar clamps with no-tools angle adjustment, and pneumatic squeegee pressure regulators. If you've been waiting for the right price on a large-print automatic press, your wait is over.

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
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DIAMONDBACK™ XL

STANDARD FEATURES

Carouse/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

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 M&R's Tri-Loc® & Double Tri-Loc® Rapid Registration Systems
- Enhanced front 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 clamps 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 (tool-free adjustment on enhanced models)
- 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 pressure regulators (pneumatic pressure regulators on enhanced models)
- Manual squeegee/floodbar clamps (pneumatic clamps 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
- Two-year limited warranty
- Parts & supplies are available online at store.mrprint.com

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 clamps with tool-free angle adjustment, pneumatic screen frame clamps, and pneumatic squeegee pressure regulators with pressure gauges

SPECIFICATIONS

	Diamondback XL 10/8	Diamondback XL 10/9
Air @ 6.9 Bar (100 psi)	906 l/min (32 cfm)	1019 l/min (36 cfm)
Diameter	404 cm (13' 3")	404 cm (13' 3")
Electrical Requirements ¹	208/230 V, 1 ph, 10 A, 50/60 Hz, 0.9 kW 208/230 V, 3 ph, 7 A, 50/60 Hz, 0.9 kW	208/230 V, 1 ph, 10 A, 50/60 Hz, 0.9 kW 208/230 V, 3 ph, 7 A, 50/60 Hz, 0.9 kW
Maximum Frame Size	66 x 91 x 4.5 cm (26" x 36" x 1.75")	66 x 91 x 4.5 cm (26" x 36" x 1.75")
Maximum Image Area	51 x 53 cm (20" x 21")	51 x 53 cm (20" x 21")
Shipping Weight	2159 kg (4760 lb)	2268 kg (5000 lb)
Standard Pallet Size	41 x 56 cm (16" x 22")	41 x 56 cm (16" x 22")
Stations/Colors	10/8	10/9

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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