

# DIAMONDBACK™ R SERIES



## Automatic Textile Press



### FEATURES

- 6-9 colors
- Maximum image area  
41 x 46 cm  
(16" x 18")
- Standard pallet size  
41 x 56 cm  
(16" x 22")

Most owners of manual-press operations are constantly looking for ways to justify upgrading to an automatic press because of the tremendous benefits automation offers. Entry-level automatics can dramatically increase output, giving shops the ability to take on large and last-minute jobs. They also minimize labor costs and they largely eliminate the tedium and hard physical effort involved in hand-pulling squeegees. In shops where the owner does much of the printing, an automatic's high-speed production can free up time to work with existing clients—and seek out new ones.

Unfortunately, those benefits often lost out to the cost factor—until now. By relying on simplicity of design, strong standard-feature sets, highly-efficient manufacturing processes, and volume production, M&R's Diamondback has broken the price barrier between you and your first automatic. The pneumatically-driven Diamondback is available in 6 and 8-color models, with a maximum image area of

41 x 46 cm (16" x 18") and a maximum pallet size of 46 x 56 cm (18" x 22"). Diamondbacks can be ordered with an additional printhead over the unload station, turning the 6-color into a 7-color and the 8-color into a 9-color. The press can also be optionally configured to allow the additional printhead to be added in the field.

Diamondbacks are available in base and enhanced configurations. Both models feature pneumatically-driven print carriages, swiveling control panel arm with touch-screen display, micro-registration, calibrated squeegee pressure adjustment, standard M&R three-point pallet leveling bracket with quick release, rear stroke length adjustment, new composite 41 x 56 cm (16" x 22") pallets, and M&R's patented Revolver Print Program. Enhanced Diamondbacks add pneumatic frame locks, pneumatic squeegee/floodbar locks, and pneumatic squeegee pressure regulators. If you've been waiting for the right price on an entry-level automatic, your wait is over.

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# DIAMONDBACK™ R SERIES

## 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

### Index System

- Pneumatically-driven indexer

### Pallet System

- Composite pallets
- 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® 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

- Adjustable 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
- One-year limited warranty

## OPTIONS

### Design & Construction

- Designed & disassembled to fit through a 78 cm (31") 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

### Warranty, Service & Support

- Additional one-year limited warranty

## ACCESSORIES

### Tri-Loc® & Double Tri-Loc® Rapid Registration Systems

- Dramatically speed setup

### Flash Cure Units

- M&R offers a full range of flash cure units

### Pallets

- M&R offers a wide range of sizes and styles

## SPECIFICATIONS

	Diamondback 8/6	Diamondback 8/7	Diamondback 10/8	Diamondback 10/9
Air @ 6.9 bar (100 psi)	538 l/min (19 cfm)	609 l/min (21.5 cfm)	680 l/min (24 cfm)	736 l/min (26 cfm)
Diameter	328 cm (10' 9")	328 cm (10' 9")	373 cm (12' 3")	373 cm (12' 3")
Electrical Requirements <sup>1</sup>	110 v, 1 ph, 1.8 A, 50/60 Hz, <1 kW 208/230 V, 1 ph, 1 A, 50/60 Hz, <1 kW	110 v, 1 ph, 1.8 A, 50/60 Hz, <1 kW 208/230 V, 1 ph, 1 A, 50/60 Hz, <1 kW	110 v, 1 ph, 1.8 A, 50/60 Hz, <1 kW 208/230 V, 1 ph, 1 A, 50/60 Hz, <1 kW	110 v, 1 ph, 1.8 A, 50/60 Hz, <1 kW 208/230 V, 1 ph, 1 A, 50/60 Hz, <1 kW
Maximum Frame Size	58 x 84 x 5 cm (23" x 33" x 2")	58 x 84 x 5 cm (23" x 33" x 2")	58 x 84 x 5 cm (23" x 33" x 2")	58 x 84 x 5 cm (23" x 33" x 2")
Maximum Image Area	41 x 46 cm (16" x 18")			
Shipping Weight	1415 kg (3120 lb)	1483 kg (3270 lb)	1656 kg (3650 lb)	1724 kg (3800 lb)
Standard Pallet Size	41 x 56 cm (16" x 22")			
Stations/Colors	8/6	8/7	10/8	10/9

<sup>1</sup>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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