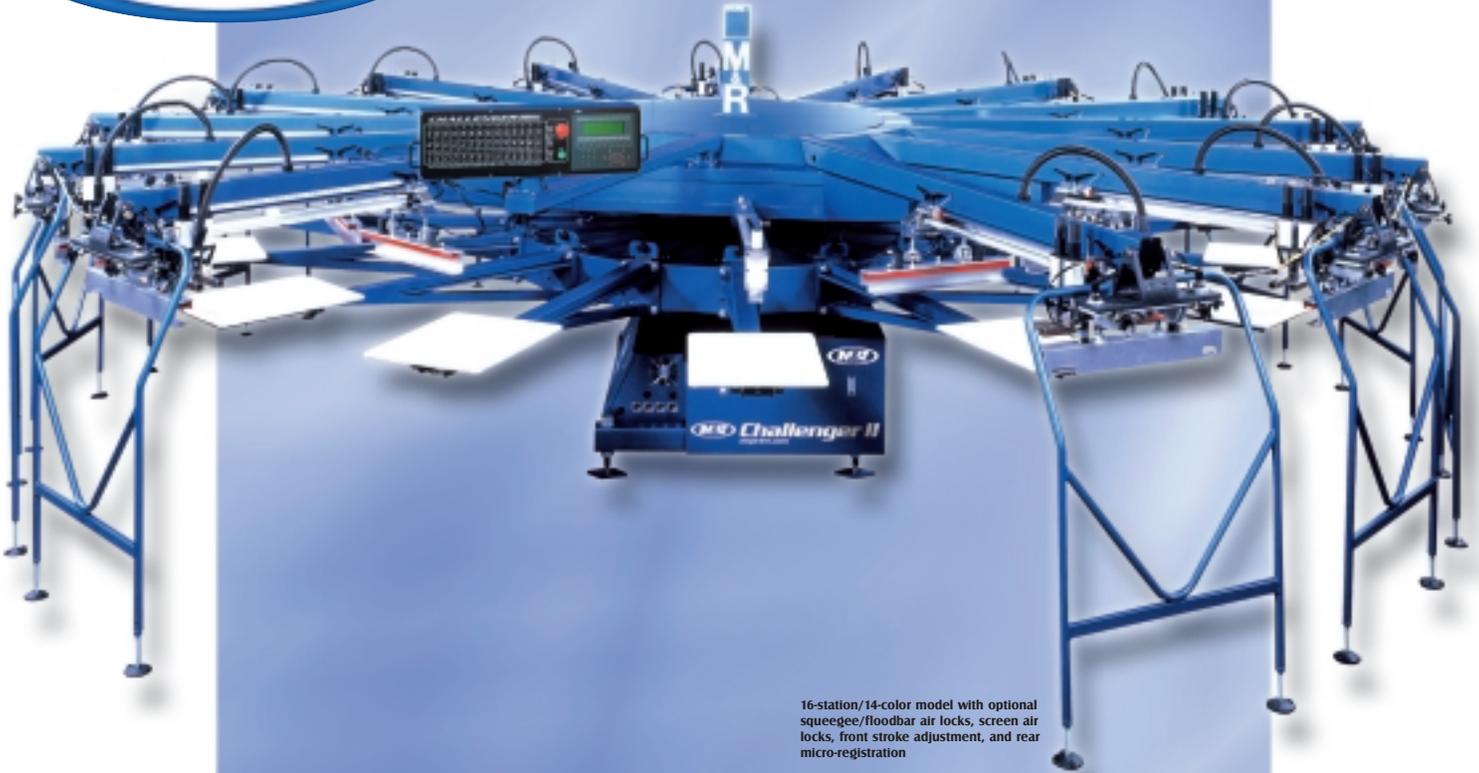




Challenger II

Automatic Textile Press

Eng



16-station/14-color model with optional squeegee/floodbar air locks, screen air locks, front stroke adjustment, and rear micro-registration

Challenger® II

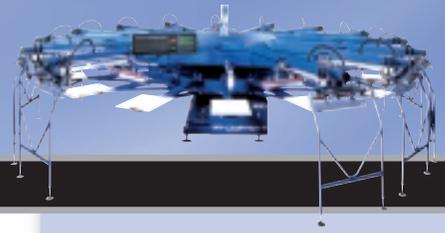
Challenger II is M&R's affordable, high-performance automatic textile press. Designed for quick setups and high-speed production, Challenger II is loaded with timesaving, output-enhancing features. Challenger II incorporates a sophisticated servo-driven index system to ensure accurate, smooth travel, even at top speed. Index speed is adjustable from the control panel, and Challenger II includes double-indexing capability. Bi-directional rotation and freewheel capability are standard.

Standard features include a computerized controller with alphanumeric display, self-diagnostics, and programming and prompts in plain language. A pallet locator synchronizes the print position of all pallets for quick, accurate changeover, and a production speed monitor assures more accurate job costing. Other standard features include independent controls and 4-point off-contact adjustment on each print head, enhanced front micro-registration adjustments, adjustable rear screen holders, flip-up front screen holders, front or rear squeegee/floodbar stop position, adjustable rear stroke length, and a test print setting that turns individual print heads on and off during test print cycles. Printing can be further simplified with M&R's easy-to-use Tri-Loc® and Double Tri-Loc® Rapid Registration Systems, which allow operators to precisely match registration on the exposure unit with registration on the press. Tri-Loc systems, which work on all of M&R's manual and automatic carousel textile presses, can reduce setup time by as much as 95%.

Challenger II options include central off-contact, which accurately changes the off-contact of all print stations in seconds, variable-frequency AC electric printhead drives for the ultimate in print control, and MPR (Management Production Reporting) Software, the innovative M&R program that provides press status and production data in real time. Challenger II is available in 12, 14, 16, and 18-color models and delivers a large 20" x 28" (51 x 71 cm) print area. Like all M&R equipment, Challenger II is built with M&R's unsurpassed commitment to quality, durability, and design excellence, and is backed by M&R's unparalleled service and support. Challenger II is ready to be the star producer in any print shop.

Challenger II

Automatic Textile Press



Standard Features

Carousel/Indexer

- Clockwise or counterclockwise rotation
- Freewheel capability

Certification

- Panel meets Underwriters Laboratories® (UL) standards and carries the UL label

Color Capacity (Stations/Colors)

- 14/12, 16/14, 18/16, & 20/18

Control Center

- Control panel offers easy navigation, with programming and prompts in plain language
- Digital keypad with alphanumeric display
- Digital microprocessor with self-diagnostics
- Independent print start/print finish setting automatically activates and stops print heads at the beginning and end of production runs for operator convenience
- Production speed monitor ensures more accurate job costing
- Single/Double print stroke capability
- Test print setting turns individual print heads on/off during test print cycle

Design and Construction

- Constructed of rigid steel & aluminum and premium components
- Pre-registration performed at the factory
- Print heads and pallet arms provide the stability necessary for exceptional print quality

Index System (Servo Drive)

- Allows quick adjustment of indexing parameters tailored to various pallet sizes
- Offers single and double-index capability
- Sophisticated servo-drive system combines high press speeds with exceptional smoothness, consistency, and longevity

Maximum Image Area

- 20" x 28" (51 x 71 cm)
- Double-index print area: Contact M&R for dimensions

Pallet System

- Three-point pallet leveling system allows easy adjustment
- Tool-free pallet locator synchronizes the position of all pallets to speed up pallet changeover
- Tool-free quick release locking system for rapid adjustment, installation, and removal

Pallets

- Solid-aluminum, low-profile, rubber-coated pallets

Print Carriage

- True close-tolerance linear bearing carriage system for uniform ink deposit

Print Heads

- Four-point off-contact adjustment on all print heads
- Independent print button on each head facilitates test printing
- Independent print/flood speed controls on each head simplify press setup and job proofing
- Independent reset button on each head enables freewheeling of carousel during setup

Registration

- Enhanced front micro-registration adjustments with visual guides

Screen Clamps & Holders

- Adjustable rear screen holders accommodate a wide variety of screen sizes
- Clamping system holds roller frames without clamp adapters
- Compatible with numerous registration systems, including M&R's Tri-Loc® and Newman Pin-Lock®
- Flip-up front screen holders make setup fast and mid-run screen changes easy

Squeegee/Floodbar

- Angle and calibrated pressure adjustments are independently set for superior print quality
- Front or rear print carriage stop position allows operator to leave screen clear or flooded (great for water-based inks)
- Independent squeegee & floodbar speed adjustments

Stroke Length

- Calibrated rear stroke length with tool-free adjustment maximizes print speed and efficiency, and reduces the working of ink

Service

- 24-hour hotline

Training

- Access to M&R's Training Center

Warranty

- Five-year limited

Options & Accessories

Central Off-Contact

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

Certification

- CE Compliant (Built to specifications established by the European Committee for Standardization®)

Control Center

- MPR (Management Production Reporting) Software System™ provides press status and production data in real time, giving facility managers the information they need to maximize efficiency

Flash Curing

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

Ink Dip System

- Retrieval system keeps ink in the print area (U.S. Patent No. 5,649,479) (Available only with AC Printhead option)

Optic Shirt Detector

- Minimizes misprints, facilitates operator training, and allows increased production speed (U.S. Patent No. 5,383,400)

Pallets

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

Print Heads

- AC variable-frequency drive motors are brushless, maintenance-free, and offer the ultimate in print control

Registration

- Locking rear micro-registration provides additional control

Revolver Print Program™

- Automatically operates individual print stations in programmed sequence and allows multiple flashing without losing a printing position (U.S. Patent No. 5,595,113)
- Simplifies hard-to-print jobs

Screen Clamps & Holders

- Pneumatic screen clamps facilitate rapid screen loading and deliver excellent stability on a wide variety of screens
- Side screen clamps

Squeegee/Floodbar

- Pneumatic squeegee/floodbar locks with tool-free angle adjustment
- Squeegee air regulator with a pressure gauge on each print head delivers exacting pressure control

Stroke Length

- Front stroke length adjustment (standard on AC heads)

Tri-Loc® and DoubleTri-Loc® Rapid Registration Systems

- Dramatically speed setup

SPECIFICATIONS

Model (Stations/Colors)	Maximum Image Area	Maximum Frame Size	Standard Pallet Size	Diameter	Height	Pneumatic Heads		AC Heads		Shipping Weight
						Air @ 100 PSI	Electrical Requirements*	Air @ 100 PSI	Electrical Requirements*	
Challenger II 14/12	20" x 28" (51 x 71 cm)	26" x 43" x 2" (66 x 109 x 5 cm)	16" x 22" (41 x 56 cm)	18" (549 cm)	54" (137 cm)	62 cfm	208/230v, 3 phase 17 amps, 50/60 Hz	21 cfm	208/230v, 3 phase 37 amps, 50/60 Hz	(3447 kg) 7600 lbs
Challenger II 16/14	20" x 28" (51 x 71 cm)	26" x 43" x 2" (66 x 109 x 5 cm)	16" x 22" (41 x 56 cm)	19" 6" (594 cm)	54" (137 cm)	72 cfm	208/230v, 3 phase 17 amps, 50/60 Hz	21 cfm	208/230v, 3 phase 40 amps, 50/60 Hz	(3674 kg) 8100 lbs
Challenger II 18/16	20" x 28" (51 x 71 cm)	26" x 43" x 2" (66 x 109 x 5 cm)	16" x 22" (41 x 56 cm)	21" (640 cm)	54" (137 cm)	82 cfm	208/230v, 3 phase 17 amps, 50/60 Hz	21 cfm	208/230v, 3 phase 44 amps, 50/60 Hz	(4586 kg) 10110 lbs
Challenger II 20/18	20" x 28" (51 x 71 cm)	26" x 43" x 2" (66 x 109 x 5 cm)	16" x 22" (41 x 56 cm)	22" 6" (686 cm)	54" (137 cm)	92 cfm	208/230v, 3 phase 17 amps, 50/60 Hz	21 cfm	208/230v, 3 phase 48 amps, 50/60 Hz	(5493 kg) 12110 lbs

* If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly

* Other electrical configurations are available: Contact M&R for details

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