

# GAUNTLET® III



## Automatic Screen Printing Press



### FEATURES

- 10-18 colors  
12-20 stations
- Maximum image areas from 48 x 55 cm (19" x 22") to 114 x 55 cm (45" x 22")—in alternating printheads
- Ultra-high-speed indexing system

Gauntlet III is M&R's versatile, high-production mid-size automatic screen printing press. It's available in 10-18 colors with a maximum standard image area of 48 x 55 cm (19" x 22") and a maximum image area of 114 x 55 cm (45" x 22") in alternating printheads. Gauntlet III automatic screen printing machines feature printheads driven by fast, reliable electric-drive motors. The printheads feature calibrated tool-free click-stop four-corner off-contact settings for fast and accurate screen leveling. The press includes tool-free front and rear print-stroke adjustment for versatility and exceptionally high production rates. Pneumatic screen clamps facilitate rapid screen loading and deliver excellent stability on a wide variety of screens. The squeegee/floodbar park feature facilitates setup and tear-down by simultaneously retracting the squeegee and floodbar and then moving them to the outside edge of the press for easy access. M&R's Laser Locator System speeds pallet positioning and changeover, and it assists operators in the precise positioning of garments and cut-piece goods.

Other standard features include M&R's Revolver Print Program; squeegee pressure regulators; independent squeegee & floodbar speed adjustments; independently-set angle and calibrated squeegee and floodbar pressure adjustments; M&R's electronically adjustable Ink Dip™ ink retrieval system that keeps ink in the screen printing area; and M&R's exclusive Squeegee Dam™ system gently lowers the squeegee blade onto the screen mesh when the press is idle to help prevent thinner water-based and discharge inks from flowing into the

image area. Gauntlet III also includes adjustable rear screen holders. Print, reset, and print/flood speed controls on each printhead further simplify setup. Each printhead also features a socket that makes it easy to position a flash cure unit in any screen printing station. M&R's Automatic Pallet Preheat Mode™ with built-in pallet temperature sensor allows operators to preheat pallets to the desired temperature with any compatible flash cure unit and track those temperatures throughout the print run.

Gauntlet III's large touchscreen control panel with intuitive, icon-based labeling can display information and commands in multiple languages. The control panel also features an independent print-start/print-finish setting that automatically activates and stops printheads at the beginning and end of screen printing runs; jog-left/jog-right controls; onboard self-diagnostics; a production speed monitor; real-time production data; a test-print setting that turns individual printheads on/off during test-print cycles; a stopwatch feature that enables users to capture elapsed time for setup, runtime, shift time, or any other screen printing operation; and a Maintenance Minder™ system that alerts operators when scheduled maintenance is due.

With its large set of standard features and timesaving, output-enhancing exclusives; efficient design; and high production speed, Gauntlet III will enhance any operation. It's an exceptional automatic screen printing press.

[www.mrprint.com](http://www.mrprint.com)  
[store.mrprint.com](http://store.mrprint.com)

# GAUNTLET® III

## STANDARD FEATURES

### CAROUSEL/INDEXER

- Clockwise or counterclockwise rotation

### CERTIFICATION

- CE Certified: Built to specifications established by the European Committee for Standardization® (CE)
- UL Listed: Built to specifications established by Underwriters Laboratories® (UL)

### CONTROL CENTER

- Automatic Pallet Preheat Mode™ with built-in pallet temperature sensor allows operators to preheat pallets to the desired temperature using any compatible flash cure unit
- Digital touchscreen control panel with icon-based labeling can display information and commands in multiple languages
- Independent print-start/print-finish setting automatically activates and stops printheads at the beginning and end of screen printing runs
- Jog-left/jog-right controls
- Maintenance Minder™ system alerts operators when scheduled maintenance is due
- Multiple (1-9) print stroke capability
- Multi-print in the up position
- Onboard self-diagnostics
- Production speed monitor ensures more accurate job costing
- Real-time production data
- Stopwatch feature enables users to capture elapsed time for setup, runtime, shift time, or any other screen printing operation
- Test print setting turns individual printheads on/off during test print cycle

### DESIGN & CONSTRUCTION

- Built of heavy-duty steel and premium components
- Printheads and pallet arms provide the stability necessary for exceptional screen print quality

### INDEX SYSTEM

- Allows quick adjustment of indexing parameters tailored to various pallet sizes

- Servo drives combine higher screen printing press speeds with exceptional smoothness, consistency, and longevity
- The capability to double-index in one uninterrupted motion increases production speed in oversize printing

### INK DIP SYSTEM

- Electronically adjustable ink retrieval system keeps ink in the print area

### LASER LOCATOR SYSTEM

- Assists operators in the precise positioning of garments and cut pieces
- Speeds pallet positioning and changeover

### OFF-CONTACT

- Calibrated tool-free click-stop four-corner off-contact settings allow fast and accurate screen leveling

### PALLET SYSTEM

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

### PALLETS

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

### PRINTHEADS

- Brushless and maintenance-free electric-drive motors deliver smooth screen print strokes and exceptional control
- Independent print and reset buttons on each printhead
- Independent print/flood speed controls on each printhead simplify screen printing press setup

### REGISTRATION

- Compatible with M&R's Tri-Loc® Rapid Registration System
- Enhanced front micro-registration adjustments with visual guides
- Rear micro-registration

### REVOLVER PRINT PROGRAM

- Automatically operates individual printheads in programmed sequence and allows multiple flashing without losing a screen printing position
- Touchscreen display with simplified programming provides easy setup of the Revolver Sequencing Program

### SCREEN CLAMPS & HOLDERS

- Adjustable rear screen holders accommodate a wide variety of screen sizes
- Clamping system holds roller frames without special adapters
- Flip-up front screen holders speed setup
- Pneumatic clamps hold frames tight and allow rapid screen loading

### SQUEEGEE DAM

- Gently lowers the squeegee blade onto the screen mesh when the press is idle
- Helps prevent thinner water-based and discharge inks from flowing into the image area

### SQUEEGEE/FLOODBAR

- Angle and calibrated pressure adjustments are independently set
- Digital squeegee/floodbar speed display
- 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
- Park feature facilitates setup and tear-down by simultaneously retracting the squeegee and floodbar and then moving them to the outside edge of the press for easy access
- 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 front & rear stroke length with tool-free adjustment maximizes screen printing speed

### WARRANTY, SERVICE AND 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](http://store.mrprint.com)
- Two-year limited warranty

## OPTIONS

### CUT-PIECE PALLET ARMS

- Heavy-duty reinforced pallet arms with wider pallet mounting brackets for oversize and cut-piece screen printing

### FOLD-DOWN PRINTHEAD SUPPORTS

- Enable easy loading of screens more than 71 cm (28") wide

### FOOT PEDAL CONTROL

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

### OPTICAL NO-SHIRT DETECTOR

- Automatically prevents the press from screen printing on empty pallets
- Reduces misprints and minimizes press stoppage because of improperly loaded shirts

### PALLETS

- M&R aluminum pallets and platens come in a wide range of sizes and styles

### SQUEEGEE/FLOODBAR

- Pneumatic squeegee/floodbar locks with tool-free angle adjustment

## SPECIFICATIONS

|                                                          | Gauntlet III 12/10                                                             | Gauntlet III 14/12                                                               | Gauntlet III 16/14                                                               | Gauntlet III 18/16                                                               | Gauntlet III 20/18                                                               |
|----------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Air @ 6.9 bar (100 psi)                                  | 481 l/min (17.5 cfm)                                                           | 609 l/min (21.5 cfm)                                                             | 680 l/min (24 cfm)                                                               | 779 l/min (27.5 cfm)                                                             | 878 l/min (31 cfm)                                                               |
| Diameter                                                 | 475 cm (187")                                                                  | 511 cm (201")                                                                    | 554 cm (218")                                                                    | 597 cm (235")                                                                    | 635 cm (250")                                                                    |
| Electrical Requirements <sup>1</sup>                     | 208/230 V, 3 ph, 41 A, 50/60 Hz, 9 kW<br>380/415 V, 3 ph, 24 A, 50/60 Hz, 9 kW | 208/230 V, 3 ph, 44 A, 50/60 Hz, 10 kW<br>380/415 V, 3 ph, 26 A, 50/60 Hz, 10 kW | 208/230 V, 3 ph, 48 A, 50/60 Hz, 11 kW<br>380/415 V, 3 ph, 29 A, 50/60 Hz, 11 kW | 208/230 V, 3 ph, 52 A, 50/60 Hz, 12 kW<br>380/415 V, 3 ph, 32 A, 50/60 Hz, 12 kW | 208/230 V, 3 ph, 56 A, 50/60 Hz, 13 kW<br>380/415 V, 3 ph, 34 A, 50/60 Hz, 13 kW |
| Maximum Frame Size (Alternating Printheads)              | 132 x 91 cm (52" x 36")                                                        | 132 x 91 cm (52" x 36")                                                          | 132 x 91 cm (52" x 36")                                                          | 127 x 91 cm (50" x 36")                                                          | 127 x 91 cm (50" x 36")                                                          |
| Maximum Image Area (Alternating Printheads) <sup>2</sup> | 114 x 55 cm (45" x 22")                                                        | 114 x 55 cm (45" x 22")                                                          | 114 x 55 cm (45" x 22")                                                          | 110 x 55 cm (43" x 22")                                                          | 110 x 55 cm (43" x 22")                                                          |
| Maximum Standard Frame Size                              | 63.5 x 91 cm (25" x 36")                                                       | 63.5 x 91 cm (25" x 36")                                                         | 63.5 x 91 cm (25" x 36")                                                         | 63.5 x 91 cm (25" x 36")                                                         | 63.5 x 91 cm (25" x 36")                                                         |
| Maximum Standard Image Area <sup>2</sup>                 | 48 x 55 cm (19" x 22")                                                         | 48 x 55 cm (19" x 22")                                                           | 48 x 55 cm (19" x 22")                                                           | 48 x 55 cm (19" x 22")                                                           | 48 x 55 cm (19" x 22")                                                           |
| Shipping Weight                                          | 3470 kg (7650 lb)                                                              | 3860 kg (8510 lb)                                                                | 4014 kg (8850 lb)                                                                | 4273 kg (9400 lb)                                                                | 4672 kg (10300 lb)                                                               |
| Standard Pallet Size                                     | 41 x 56 cm (16" x 22")                                                         | 41 x 56 cm (16" x 22")                                                           | 41 x 56 cm (16" x 22")                                                           | 41 x 56 cm (16" x 22")                                                           | 41 x 56 cm (16" x 22")                                                           |
| Stations/Colors                                          | 12/10                                                                          | 14/12                                                                            | 16/14                                                                            | 18/16                                                                            | 20/18                                                                            |

<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.

<sup>2</sup> Custom configurations offer a wide range of maximum image areas. Please contact M&R for details.



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