

Automatic Screen Printing Press



Gauntlet® 4 is M&R's newest, high-production carousel automatic screen printing press. It features printheads driven by fast, reliable, variable frequency-controlled electric motors. The printheads feature calibrated, tool-free, click-stop off-contact settings for fast and accurate screen leveling. The press includes tool-free front and rear print-stroke adjustment for versatility and maximum production rates. Pneumatic screen clamps facilitate rapid screen loading and deliver excellent stability on a wide variety of screens. 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.

Gauntlet 4 also includes M&R's exclusive Tri-Sync™ pallet arm and Tri-Sync pallet, which greatly simplifies the addition of M&R's revolutionary Digital Squeegee® hybrid printing system. Other standard features include M&R's Revolver Print Program; squeegee pressure regulators; 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 that 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.

FEATURES

- Large 15.6" machine-mounted control panel
- Automatic Pallet Preheat Mode™ with built-in pallet temperature sensor
- Advanced pallet leveling system
- Independent squeegee & floodbar speed adjustments
- Ink-Dip™ retrieval system keeps ink in print area
- New membrane switch-based printhead controls enable quicker setup and enhanced repeatability
- Brushless, variable-frequency, electric-drive motors deliver smooth screen print strokes and exceptional control
- Pneumatic squeegee/floodbar locks with tool-free calibrated angle adjustment

Find more information and where to buy at: www.mrprint.com



User-friendly touchscreen interface provides ease of use

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 an enhanced Maintenance Minder™ system with photos and instructions that alerts operators when scheduled maintenance is due.

With its large set of standard features and time-saving, output-enhancing exclusives; efficient design; and high production speed, Gauntlet 4 is the ultimate high-production carousel automatic screen printing press!

Gauntlet 4's print heads include new electronic membrane-switch controls, which enable quicker, more accurate print and flood speed settings, plus incorporate the ability to set these speeds from the main HM! Each printhead also features a socket that simplifies the positioning and controlling of M&R's sophisticated Red Chili DX™ quartz flash cure units. 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 4's new, larger, higher-resolution control panel features revised, intuitive, icon-based labeling for operator convenience. The control panel also features an independent



Individual membrane switch controls enable quicker setups

SPECIFICATIONS	Gauntlet 4 20x20 16/14	Gauntlet 4 20x20 18/16	Gauntlet 4 20x20 20/18	Gauntlet 4 20x28 16/14	Gauntlet 4 20x28 18/16	Gauntlet 4 20x28 20/18
Air @ 6,9 bar (100 PSI)	509 l/min (18 cfm)	580 l/min (20.5 cfm)	653 l/min (23 cfm)	509 l/min (18 cfm)	580 l/min (20.5 cfm)	653 l/min (23 cfm)
Electrical Requirements ¹	208/230 V, 3 ph, 48 A, 50/60 Hz, 11 kW	208/230 V, 3 ph, 52 A, 50/60 Hz, 12 kW	208/230 V, 3 ph, 56 A, 50/60 Hz, 13 kW	208/230 V, 3 ph, 48 A, 50/60 Hz, 11 kW	208/230 V, 3 ph, 52 A, 50/60 Hz, 12 kW	208/230 V, 3 ph, 56 A, 50/60 Hz, 13 kW
	380/415 V, 3 ph, 29 A, 50/60 Hz, 11 kW	380/415 V, 3 ph, 32 A, 50/60 Hz, 12 kW	380/415 V, 3 ph, 34 A, 50/60 Hz, 13 kW	380/415 V, 3 ph, 29 A, 50/60 Hz, 11 kW	380/415 V, 3 ph, 32 A, 50/60 Hz, 12 kW	380/415 V, 3 ph, 34 A, 50/60 Hz, 13 kW
Diameter	564 cm (18' 6")	610 cm (20' 0")	655 cm (21' 6")	600 cm (19' 8")	650 cm (21' 4")	690 cm (22' 7")
Maximum Frame Size	66 x 91 x 5 cm (26" x 36" x 2")	66 x 91 x 5 cm (26" x 36" x 2")	66 x 91 x 5 cm (26" x 36" x 2")	66 x 109 x 5 cm (26" x 43" x 2")	66 x 109 x 5 cm (26" x 43" x 2")	66 x 109 x 5 cm (26" x 43" x 2")
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")	132 x 109 cm (52" x 43")	132 x 109 cm (52" x 43")	132 x 109 cm (52" x 43")
Maximum Image Area	51 x 51 cm (20" x 20")	51 x 51 cm (20" x 20")	51 x 51 cm (20" x 20")	51 x 71 cm (20" x 28")	51 x 71 cm (20" x 28")	51 x 71 cm (20" x 28")
Maximum Image Area (Alternating Printheads)	94 x 51 cm (37" x 20")	94 x 51 cm (37" x 20")	94 x 51 cm (37" x 20")	117 x 71 cm (46" x 28")	117 x 71 cm (46" x 28")	117 x 71 cm (46" x 28")
Shipping Weight	4100 kg (9000 lb)	4540 kg (10000 lb)	5000 kg (11000 lb)	4470 kg (9860 lb)	4950 kg (10900 lb)	5450 kg (12000 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")	41 x 56 cm (16" x 22")
	56 x 63 cm (22" x 25")	56 x 63 cm (22" x 25")	56 x 63 cm (22" x 25")	56 x 76 cm (22" x 30")	56 x 76 cm (22" x 30")	56 x 76 cm (22" x 30")
Stations/Colors	16/14	18/16	20/18	16/14	18/16	20/18

¹ If incoming voltage differs from the voltage(s) listed in the brochure, calculate amperage accordingly. Other electrical configurations are available: Contact M&R Printing Equipment, Inc. for details.

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