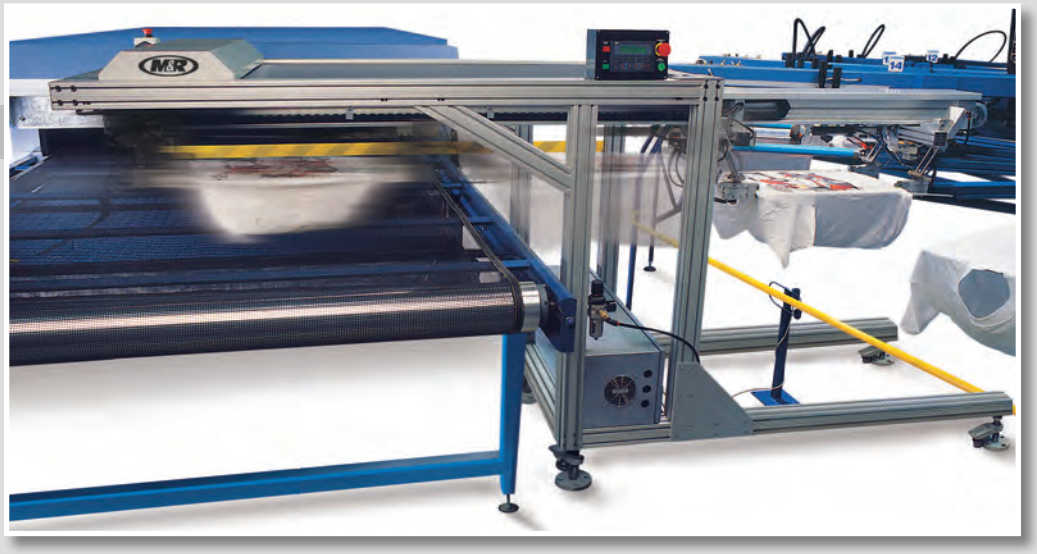
PASSPORT™

Automatic T-Shirt Unloader



FEATURES

- **World's first automatic unloader for textiles**
- **Dramatically reduces labor costs in the operation of automatic screen printing presses**
- **Increases consistency and productivity in the unloading of T-shirts, towels, and other textile substrates**

The phenomenal Passport is M&R's patented automatic textile unloader for automatic screen printing presses. Automatic takeoff systems for graphics have long been a staple of the industry, but the search for a successful automatic takeoff system for T-shirts and other textile substrates remained elusive—until M&R took on the challenge. Passport is the first automatic unloader to remove textile substrates quickly, carefully, and consistently. In addition to revolutionizing the takeoff process, Passport dramatically lowers labor costs by reducing the number of people needed to operate a screen printing press.

Passport minimizes design distortion by gripping the T-shirt, towel, or other textile substrate with four patented grippers on retracting arms (U.S. Patent No. 6,105,494) and lifting it straight up off the pallet. Then Passport deposits the substrate on the belt of the conveyor dryer. Not only does Passport minimize stretching, Passport doesn't tire or lose concentration. Available in inline and side-takeoff versions, Passport works with all M&R automatic screen printing presses and with most gas and electric conveyor dryers. Passport supports pallet and platen sizes between 25 x 25 cm (10" x 10") and 61 x 76 cm (24" x 30"). Standard screen printing pallets can easily be adapted for Passport use by attaching (glue or screw) front and rear brackets. Passports also feature servo drives and solid-state control panels with digital display. And Passports are fast, achieving cycle rates up to 100 dozen per hour.

Passport is compliant with specifications established by the European Committee for Standardization® (CE), and Passport's Industrial Control Panel (ICP) is UL listed (built to specifications established by Underwriters Laboratories®). It's backed by a two-year limited warranty and M&R's unparalleled 24-hour access to service, support, and premium parts. Passport is engineered for dependable performance and low maintenance in demanding, high-production environments. And it can be easily integrated with other M&R and Amscomatic equipment to create a highly automated screen printing and packaging system.

SPECIFICATIONS

	Passport
Air @ 6,9 bar (100 psi)	85 l/min (3 cfm)
Electrical Requirements[1]	208/230 V, 1 ph, 13/12 A, 50/60 Hz, 1.1 kW 208/230 V, 3 ph, 8/7 A, 50/60 Hz, 1.1 kW 380/415 V, 3 ph, 4 A, 50/60 Hz, 1.1 kW
Maximum Pallet Size	61 x 76 cm (24" x 30")
Minimum Pallet Size	25 x 25 cm (10" x 10")
Overall Size (L x W x H)	320 x 97 x 152 cm (126" x 38" x 60")
Shipping Weight	635 kg (1400 lb)

[1] If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations available: Contact The M&R Companies for details

The M&R Companies

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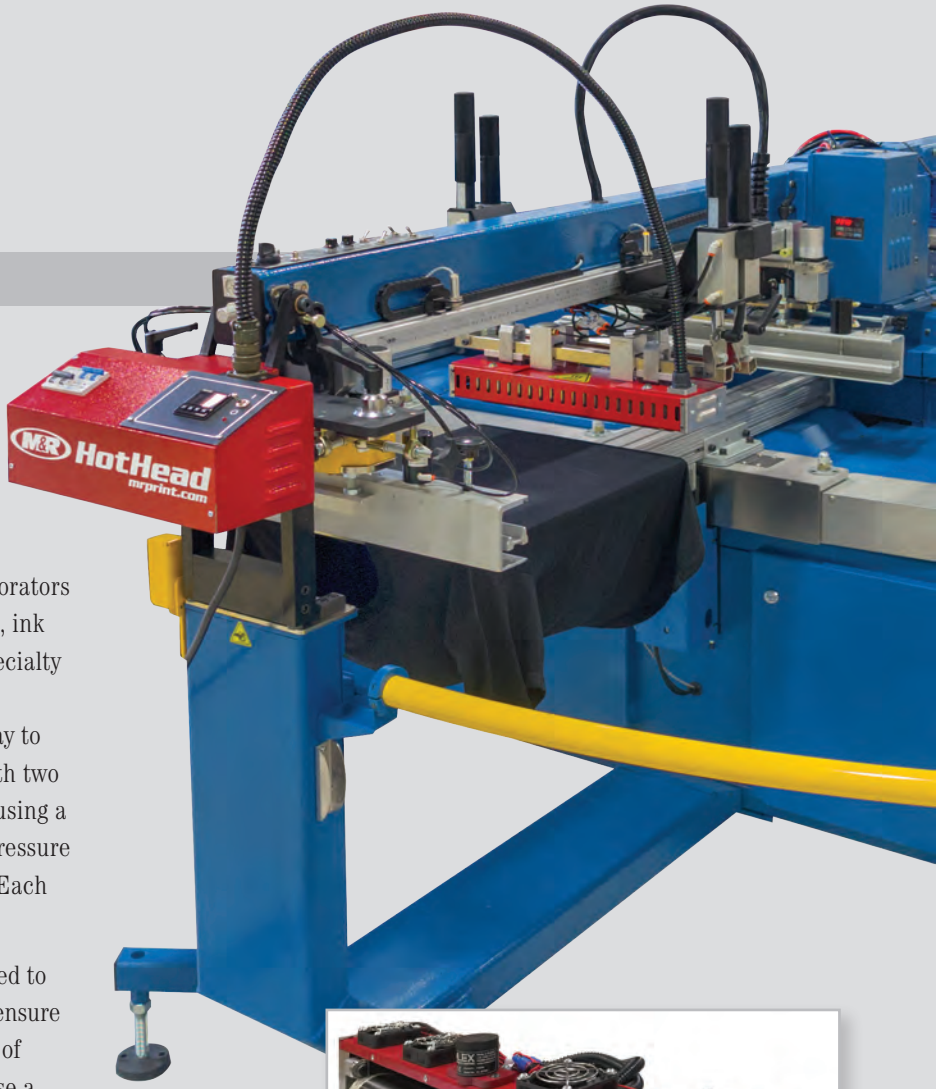
HotHead™

Fabric Compression System



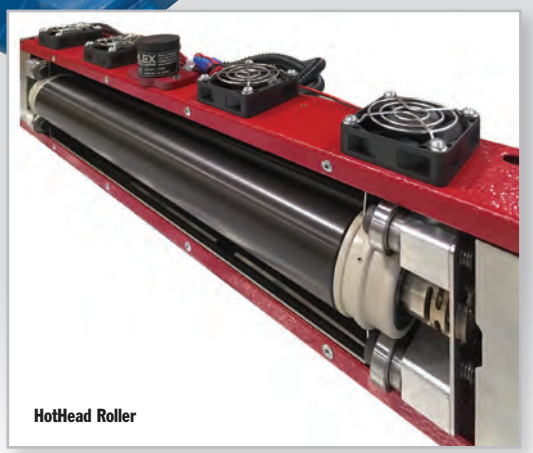
FEATURES

- **Offers two ways to apply heat and pressure to fabrics**
- **Control module mounts on the printhead arm and heat modules attach to squeegee mounting bars**
- **Military-grade wiring and sheathing ensure long life**

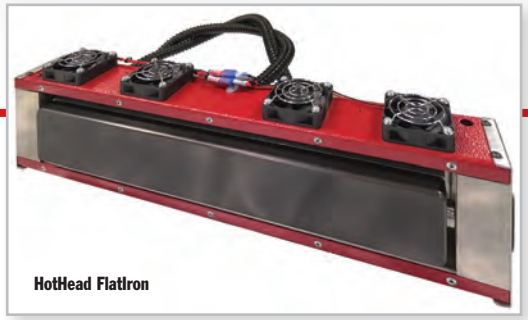
M&R's HotHead™ fabric compression system gives garment decorators two ways to apply heat and pressure to fabrics for fiber matting, ink smoothing, foil transfer, on-press ink discharging, and other specialty processes. HotHead's control module mounts on the front of a printhead arm on the press. It uses a multi-function LCD display to set temperature and heater type. The control module works with two heat modules: the HotHead Roller™ applies heat and pressure using a rolling cylinder, and the HotHead FlatIron™ applies heat and pressure by gliding a flat, smooth heating element across the substrate. Each heat module is sold separately.

The HotHead Roller and the HotHead FlatIron are securely affixed to the squeegee mounting bar by two manual squeegee clamps. To ensure optimal performance, two small controllers allow for adjustment of the up/down travel speed of the squeegee chopper bar. M&R chose a military-grade electrical connector, high-cycle flexible wiring, and a long-life flexible sheath to connect the control unit to the heating units.

The HotHead Roller and the HotHead FlatIron use thermal couples and pre-programmed logic to maintain constant temperatures. The temperature range runs from ambient room temperature to 204° C (400° F). Small cooling fans keep the external skin of the heat modules at a safe operating temperature.



HotHead Roller



HotHead FlatIron

SPECIFICATIONS

	HotHead Roller 14	HotHead Roller 18	HotHead FlatIron 14	HotHead FlatIron 18
Electrical Requirements [1]	208/230 V, 1 ph, 9-10 A, 60 Hz, 2 kW	208/230 V, 1 ph, 11-12 A, 60 Hz, 2.5 kW	208/230 V, 1 ph, 9-10 A, 60 Hz, 2 kW	208/230 V, 1 ph, 11-12 A, 60 Hz, 2.5 kW
Heat Element Width	36 cm (14")	46 cm (18")	36 cm (14")	46 cm (18")
Roller Diameter	5 cm (2")	5 cm (2")	N/A	N/A

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