

ECO-TEX™ MODULAR



Automatic Screen Cleaning and Reclaiming System



FEATURES

- Automates and simplifies one of the least-desirable aspects of the screen printing process
- Recirculates independent chambers of screen-cleaning chemicals to reduce environmental impact and greatly lower operating/chemical cost per screen
- Stainless-steel construction ensures long life and minimal maintenance

M&R's Eco-Text™ Modular automates and simplifies the entire screen-cleaning process on screen frames up to 132 x 97 cm (56" x 38"). In the process, it reduces environmental impact and lowers operating costs by recirculating screen-cleaning chemicals. Although Eco-Text Modular is available as a two-module system that can be expanded in the field to three modules, the most popular model is the three-module system. Typically, the first module is used to remove screen printing ink and apply a degreaser while leaving the screen emulsion intact. The second module is used to remove screen emulsion. The third module is used to power wash the emulsion but leave the screen degreaser from the first module in place. A lighted inspection washout panel is provided at the outfeed.

The entire procedure is kept within the automated modules to provide the lowest chemical cost per chamber, and each chamber recirculates the solution to reduce water consumption. An electric conveyor with stainless-steel rollers moves dirty screens into the chamber and clean screens out. Cleaning solvents drain back into the holding tanks of the modules after each cleaning cycle, reducing chemical use and lowering the cost of operation. A programmable dosing pump automates the addition of fresh chemical/emulsion remover for optimal screen cleaning performance.

The Eco-Text Modular can typically clean up to 450 screens per shift (based on two screens per cycle). The easy-to-clean filtration systems help prevent foreign matter from contaminating cleaning

chemicals and jet nozzles. Eco-Text has no external moving parts, and it eliminates direct employee exposure to the cleaning process. The emulsion-removal pump is managed through the Eco-Text touchscreen controller. Since it only requires a single operator, Eco-Text reduces per-screen labor costs. In addition, the operator is free to perform other tasks while the screens are being cleaned, increasing productivity. All Eco-Text Modular units are supplied with one screen holder per module. Screen holders (chases) are available in numerous sizes, and additional holders can be purchased for added convenience and faster turnaround. Eco-Text is economical to operate, and it helps shops keep screen-cleaning/reclaiming areas clean.

Eco-Text offers user-friendly touchscreen control over all operations, and it includes complete self-diagnostic functionality. The machine's compact footprint makes it easy to place in most shops. A third module can be field-added to the two-module unit to increase versatility and reduce cost by isolating recirculating chemicals in separate chambers. Stainless-steel construction minimizes maintenance and ensures a long, productive life. Low operating costs, versatile design features, and competitive pricing make Eco-Text the ideal addition to any screen printing operation.

www.mrprint.com
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ECO-TEX™ MODULAR

STANDARD FEATURES

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

- Digital touchscreen control panel with onboard self-diagnostics controls all machine functions
- Job Recall™ allows operators to store operational parameters for similar and repeat runs

DESIGN & CONSTRUCTION

- All stainless-steel construction
- Emulsion-removal pump offers touchscreen control over programmable recipe functions
- Modular design allows future expansion
- Programmable dosing pump automates the addition of fresh chemicals

SCREEN LOADING

- Automatic screen loading and unloading simplifies operation

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
- One-year limited warranty

OPTIONS & ACCESSORIES

CLEANING MODULES

- A third module can be field-installed on two-module models

SCREEN HOLDERS

- Screen holders available in numerous sizes

SPECIFICATIONS

| | ECO-TEX MODULAR (Triple Module) |
|--|---|
| Air @ 6 bar (87 psi) | 142 l/min (5 cfm) |
| Electrical Requirements ¹ | 230 V, 3 ph, 105 A, 50/60Hz, 26 kW |
| Exhaust Requirements ² | 10 cm (4") ducts @2 |
| Maximum Screen Frame Size ³ | 142 x 97 cm (56" x 38") |
| Overall Size (W x D x H) ⁴ | 684 x 104 x 206 cm (265.5" x 41.0" x 81.0") |
| Shipping Weight | 2268 kg (5000 lb) |

¹ 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.

² Requires one 10 cm (4") OD duct per Ink Removal Module & one 10 cm (4") OD duct per Reclaim Module

³ Custom configurations may be available: Contact The M&R Companies for details

⁴ Total depth required for installation and operation is 230 cm (90.5")

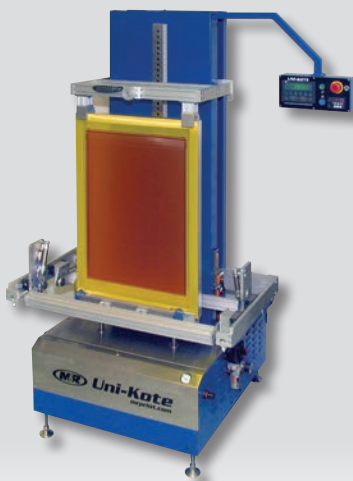
The Digital Screen Room



The traditional screen room often acts as a bottleneck in screen printing operations. The screen-creation process may be less organized than the rest of the operation, and the results may lack the quality required to produce the end product that customers demand. M&R's Digital Screen Room concept is dedicated to dramatically reducing screen-production time while making substantial improvements to image quality and consistency. Low operating costs and versatile design features help make Eco-Tex an integral part of M&R's Digital Screen Room.

Uni-Kote

provides a reliable, low-cost option for automating screen coating. Front and rear screen coaters can apply emulsion in tandem or independently, allowing operators to coat each side of the screen separately, both sides simultaneously, or just one side. M&R's Job Recall™ allows users to save up to five screen coating jobs for added convenience and quick changeover.



i-Image STE I

is the world's first all-in-one computer-to-screen (CTS) imaging/exposure/pre-registration system (patent pending). By quickly generating images on the inward pass and exposing them on the outward pass, i-Image STE I dramatically reduces the time and effort required to prepare images for screen printing. And since screens come out Tri-Loc ready, on-press registration time can be reduced by up to 95%.



The M&R Companies

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