

## Automatic Screen Coating Machine

### FEATURES

- Front and rear screen coaters can operate in tandem or independently
- Heavy-duty frame provides excellent stability during automatic screen coating
- Maximum screen frame size of 79 x 109 x 4.5 cm (31" x 43" x 1.75") or 147 x 132 x 4.5 cm (58" x 52" x 1.75")



Uni-Kote provides a reliable, low-cost option for automating screen coating. The computerized control center, conveniently mounted at the side of the screen coating machine, makes programming simple. Uni-Kote's 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.

Uni-Kote's pneumatic screen coating pressure control, variable frequency brushless electric-drive carriage motor, high-quality linear bearing system, and precision-machined coating troughs ensure smooth travel and uniform emulsion application. Consistent emulsion thickness is critical to the quality of the printed image, as it directly affects ink deposit. Uni-Kote ensures consistency by removing the human element. The manual application process is guaranteed to result in high spots and low spots across the screen, and the thickness of the emulsion can vary from person to person.

And, unlike individuals coating manually, Uni-Kote doesn't tire or lose concentration. Uni-Kote also frees the operator to do other tasks during the coating process, greatly improving efficiency and lowering per-screen costs. In fact, when combined with M&R's i-Image STE I direct-to-screen imaging & exposure system and M&R's Eco-Rinse screen rinsing system, a single operator can coat, image, expose, and rinse up to 400 pre-registered screen in eight hours.

Adjustable frame holders accommodate multiple screen sizes, and self-aligning clamps of solid aluminum secure screen frames independently for fast loading. The heavy-duty frame provides excellent rigidity for stability during screen coating. Maximum screen frame size is 79 x 109 x 4.5 cm (31" x 43" x 1.75") for Uni-Kote 3143 and 147 x 132 x 4.5 cm (58" x 52" x 1.75") for Uni-Kote 5852. Uni-Kote automatic screen coaters are CE Certified, UL Listed, and backed by a one-year limited warranty. Engineered for dependable performance and low maintenance, Uni-Kote is the low-cost way to automate screen coating.

## SPECIFICATIONS

	Uni-Kote 3143	Uni-Kote 5852
Air @ 6,9 bar (100 psi)	28 l/min (1 cfm)	28 l/min (1 cfm)
Electrical Requirements <sup>1</sup>	110 V, 1 ph, 10 A, 60 Hz, 1.15 kW 208/230 V, 1 ph, 5 A, 50/60 Hz, 1.15 kW	110 V, 1 ph, 10 A, 60 Hz, 1.15 kW 208/230 V, 1 ph, 5 A, 50/60 Hz, 1.15 kW
Maximum Screen Frame Size	79 x 109 x 4.5 cm (31" X 43" x 1.75")	147 x 132 x 4.5 cm (58" x 52" x 1.75")
Minimum Screen Frame Size	51 x 61 x 3.2 cm (20" x 24" x 1.25")	51 x 61 x 3.2 cm (20" x 24" x 1.25")
Overall Size (W x D x H)	135 x 79 x 181 cm (53" x 31" x 71.2")	208 x 79 x 198 cm (82" x 31" x 78")

<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.



Uni-Kote 5852

## 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 Uni-Kote an integral part of M&R's Digital Screen Room.



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### 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 the screen with a full-size UV LED exposure panel, 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%.



### Eco-Rinse

automates the tedious process of rinsing exposed screens while ensuring consistency and reducing the chance of blowing out exposed images. Balanced pressure from sprayers on both sides of the screen extends screen life. Since Eco-Rinse processes screens so quickly, per-screen labor costs can be cut by up to half. Eco-Rinse also reduces operating costs by recycling water used in the wash cycle, further lowering per-screen water usage.



**The M&R Companies**  
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