



Advantage™

Inline Multi-Color UV Print/Cure System

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Advantage

Advantage is M&R's electronically advanced Inline Multi-Color UV Print/Cure System. Inline design lets Advantage print and cure up to eight colors at exceptional speeds, without the need to dry and stack between colors. Image areas can be as large as 38"x 50" (97 x 127 cm). Advantage allows operators to easily establish and fine-tune print functions and settings electronically, then use M&R's Job Recall™ to store each of those parameters as one of hundreds of operator-named jobs. Once stored, those settings can be quickly and easily recalled for repeat jobs or for other jobs compatible with those settings. Once recalled, settings can be easily fine-tuned to account for screen, substrate, or other variations from the previous job. At the end of the print run, modified settings can be saved, discarded, or stored under a new name. M&R's patented vacuum system holds substrates securely to a single moving table throughout the print/cure process, helping substrate registration remain consistent from color to color.

The Advantage UV cure system increases lamp output to 400 watts per linear inch and adds infinitely variable adjustment. Advantage is able to use three interchangeable lamp types, adapting automatically to each lamp type. Operators can easily switch back and forth between bulb types. Advantage also increases curing power and helps keep substrates cool with M&R's patented reflector technology. UV energy that would otherwise bounce back onto the curing lamp is directed to the substrate, while the open-top reflector draws ambient air across the substrate and vents heated air and ozone out the top. Since Advantage maximizes curing speed and minimizes substrate temperatures, operators can find a perfect match for virtually every curing requirement.

Like all M&R equipment, Advantage is built with M&R's unsurpassed commitment to quality, durability, and design excellence, and is backed by M&R's unparalleled service and support. Exceptional speed, extraordinary print quality, and unequalled curing have converged seamlessly in this phenomenal 21st Century press.

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Standard Features

Certification

- Panel listed by Underwriter's Laboratories® (UL)

Color Capacity

- 1-8 colors (4 colors standard)

Control Center

- Digital keypad with alphanumeric display
- Digital microprocessor with self-diagnostics
- Flood/non flood setting leaves screen flooded or non-flooded after print cycle
- Foot pedal independently controls press and vacuum for hard to feed substrates
- Head speed and stroke length adjustment electronically controlled from individual head or main control panel
- Job Recall allows storage and recall of numerous standard and optional functions and settings, including electronically controlled dwell time, index speed, off-contact, peel ratio, print and flood stroke and speed, squeegee pressure (electronically adjusted air pressure), and wattage settings on UVs
- Jog left/jog right enables operator to move beds left or right from each head and from the control panel
- Production speed monitor for more accurate job costing
- Squeegee speed, flood speed, and dwell times are independently controlled from control panel

Curing & Bulb Management

- Bulb types available are Mercury Vapor (standard), Ferric (Iron) Oxide (optional), and Gallium (optional)
- Change of bulb type requires no corresponding change of jumpers or fittings
- Delivers optimal cure to heat-sensitive and heat-resistant stock
- Digital elapsed time meter monitors bulb life
- Dual UV lamps are each individually controlled at each print station and at main control panel
- Hinged UV housing for easy bulb access
- Infinitely adjustable UV bulbs
- Switchback technology allows different bulbs for different substrates.
- UV Settings are continuously adjustable electronically from 160-400 watts per linear inch

Design & Construction

- Maintenance-free servo motors
- Print heads maintain machine registration with four-post locking
- Rigid steel and aluminum construction

Index System

- Servo-driven index insures accurate, smooth travel

Ink Dip System

- Retrieval system keeps ink in print area (Patent #5,649,479)

Off-Contact Settings

- Manually adjustable tool-free, four corner off-contact settings allow quick and accurate screen placement at all four corners
- Once set, off-contact can be adjusted by a single knob at the front of the print head
- Zero off-contact capability offers greater control over print quality

Peel

- Automatically synchronized gear-driven peel
- Flat flood feature
- Infinitely adjustable

Print Carriage

- Heavy-duty chatter-free design
- Sophisticated servo-driven carriage insures accurate, smooth travel

Registration

- Inline indexing table maintains excellent registration throughout printing and curing cycles
- Master frame with micro-register adjustments and visual guides allow quick and easy setup
- Patented locator system assures high tolerance printing
- Sheet Locator System with above-table sheet guides that support fast, accurate production

Screen Clamps

- Pneumatic clamps securely lock frame in place

Screen Holders

- Adjustable screen holders accommodate a wide variety of screen sizes
- Front screen loading for fast screen changes

Squeegees/Floodbars

- Calibrated independent and micro-adjustable pressure settings
- Electronic and recallable adjustable pneumatic squeegee pressure equalizer maintains uniform pressure across length of squeegee
- Park position allows flood and squeegee to be raised and moved to front or rear without flooding or printing, and allows easy squeegee and floodbar installation and removal
- Pneumatic squeegee/floodbar air locks (includes tool-free angle adjustment)
- Pressure and angle adjustments independently set for superior print quality

Substrate Management

- Substrates from ultra-thin polyethylene to heavy board stock up to 3/4" (1.9 cm) thick are handled with ease

Vacuum System

- Adjustable blowback at unload station
- CNC-drilled 1 1/8" (2.86 cm) high heavy-gauge anodized aluminum vacuum bed, engineered to stay flat
- High-volume vacuum turbine system easily adjusts to different stock types and thickness
- Vacuum track holds substrates securely during print and high-speed transport operations

Service

- 24-hour hotline

Training

- Access to M&R's Training Center

Warranty

- One-year limited

Options & Accessories

Bulb Types

- Gallium
- Ferric (Iron) Oxide

Certification

- CE Compliant: Built to specifications established by the European Committee for Standardization® (CE)
- CSA listing

Control Center

- Management Production Software
- Modem with cable and module

Electrical

- Other voltages available

Electronics Package

- Electronically driven servo peel
- Electronic servo driven central off-contact
- Electronic micro-registration with zero-out capability

Squeegee

- Dripless squeegee attachment automatically flips to opposite direction against front of floodbar before flood stroke begins, preventing ink from dripping

Takeoff System

- Automatic takeoff

Specifications

Model	Print Stations	Maximum Image	Maximum OD Frame Size	Overall Size	UV Lamps	Length of Add'l Print/Cure Stations	Add'l Colors Available	Electrical Requirements*
ADV-3850-4	4	38" x 50" (97 x 127 cm)	76" x 54" (193 x 137 cm)	54" x 8.5' (16.2 x 2.57 m)	8	8'9" (2.67 m)	4	460v, 3 phase 374 amps, 60 Hz

* If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly

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