

## Oval Automatic Screen Printing Press



### FEATURES

- Designed specifically for cut-piece printing
- The most versatile cut-piece press on the market today
- Oval shape makes more efficient use of available production area than conventional automatic screen printing presses

M&R's Encore oval-shaped automatic screen printing press is designed specifically for the needs of cut-piece operations. Built around a 10-station base module, Encore is available in 18, 26, 34, 42 and 50-station configurations. No cut-piece press is more flexible. It can rotate in either direction, and models can be set up so that each printhead is followed by one open station (print/flash) or by two open stations (print/flash/cool). Since Encore's oval shape takes up less floor space than comparable carousel automatic screen printing presses, it makes more efficient use of available production area. This also allows the Encore to fit into spots no carousel press could. Cleverly designed safety skirting surrounds the press, and the fully enclosed ends can be used to stack substrates or to provide easy access to print-related materials. Encore has a maximum image area of 50 x 70 cm (20" x 28").

Encore's digital touchscreen control panel with icon-based labeling can display information and commands in numerous languages, simplifying press operation and training anywhere in the world. It features a digital microprocessor with self-diagnostics and a production speed monitor to ensure more accurate job costing. The control panel is mounted on a pedestal with casters to give operators the ability to easily change its position. Encore has multiple print stroke capability and an independent print-start/print-finish setting that automatically activates and stops printheads at the beginning and end of production runs.

The Encore automatic screen printing machine incorporates a sophisticated servo-drive indexing system that combines high speed with smooth operation and precise control, making it possible to achieve index speeds up to 780 pieces per hour. Index speed parameters can be adjusted quickly and easily, and Encore also incorporates multiple-indexing capability. Encore's printheads are styled after those used on M&R's popular Alpha 8 automatic screen printing press. The printheads are driven by fast, reliable variable-frequency AC drive motors that deliver smooth print strokes and exceptional control. Simple print-stroke adjustment promotes exceptionally high production rates. Encore's Alpha 8-style printheads also incorporate an elegantly simple method of adjusting off-contact at all four corners of the screen frame quickly and independently—all without tools. There are independent print and reset buttons and independent print/flood speed controls on each printhead to make setup and operation fast and easy. Encore's high-lift mode simplifies screen loading, unloading, inspection and cleaning. The Encore automatic oval press, with its efficient design and high production speed, is simply the most versatile cut-piece press on the market today.

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## 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

- Control panel is mounted on a caster-equipped pedestal
- Digital microprocessor with self-diagnostics
- Digital touchscreen control panel with icon-based labeling can display information and commands in numerous languages, simplifying automatic screen printing press operation and training anywhere in the world
- Independent print-start/print-finish setting automatically activates and stops printheads at the beginning and end of screen printing runs
- Jog-left/jog-right controls
- Maintenance Minder™ System alerts operators when scheduled maintenance is due
- Multiple (1-9) print stroke capability
- Production speed monitor ensures more accurate job costing
- Provides control of multi-print functionality
- Test print setting turns individual printheads on/off during test print cycle
- User-friendly touchscreen control panel

### DESIGN & CONSTRUCTION

- Built of heavy-duty steel and premium components
- Each model can be set up so that every printhead is followed by one open station (print/flash) or by two open stations (print/flash/cool)
- Oval shape takes up less floor space than comparable carousel automatic screen printing presses
- Printheads and pallet arms provide the stability necessary for exceptional screen print quality
- Safety skirting surrounds the press, and the fully-enclosed ends can be used to stack substrates or to provide easy access to print-related materials

### INDEX SYSTEM

- Allows quick adjustment of index speed parameters
- Clockwise or counterclockwise rotation
- Servo drive offers multi-index capability
- Servo drives combine higher press speeds with exceptional smoothness, consistency, and longevity

### OFF-CONTACT

- Calibrated and tool-free four-corner off-contact settings allow fast and accurate individual off contact settings per head

### PALLETS

- Screen printing pallets are 56 x 84 cm (22" x 33")
- Wider pallet supports and fixed solid aluminum pallet provide rock-solid stability

### PRINTHEADS

- Brushless and maintenance-free electric-drive motors deliver smooth screen print strokes and exceptional control
- Independent print and reset buttons on each printhead
- Independent print/flood speed controls on each printhead simplify press setup
- Printhead high-lift mode simplifies screen loading, unloading, inspection and cleaning
- Multi-print without lowering the indexer

### REGISTRATION

- Enhanced front and rear micro-registration adjustments with visual guides
- Innovative pallet registration system provides exceptional accuracy

### SCREEN CLAMPS & HOLDERS

- Adjustable rear screen holders accommodate a wide variety of screen sizes
- Clamping system holds roller frames without special adapters
- Pneumatic screen clamps facilitate rapid screen loading and deliver excellent stability on a wide variety of screens

### SQUEEGEE/FLOODBAR

- Angle and calibrated pressure adjustments are independently set
- Front or rear print carriage stop position allows operator to leave screens clear or flooded (great for water-based inks)
- Independent squeegee & floodbar speed adjustments
- Pneumatic squeegee/floodbar locks with tool-free angle adjustment
- Squeegee air regulator with a pressure gauge on each printhead

### STROKE LENGTH ADJUSTMENT

- Calibrated front & rear stroke length with tool-free adjustment maximizes print speed

### 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](http://store.mrprint.com)
- Two-year or 2,000,000-cycle limited warranty

## OPTIONS

### FOOT PEDAL CONTROL

- Allows indexing of the press using a foot pedal
- Skip-pallet feature allows operators to avoid screen printing on empty pallets

## SPECIFICATIONS

	Encore 18	Encore 26	Encore 34	Encore 42	Encore 50
Air @ 6.9 bar (100 psi) (print/flash/cool configuration)	382 l/min (13.5 cfm)	510 l/min (18 cfm)	637 l/min (22.5 cfm)	892 l/min (31.5 cfm)	1019 l/min (36 cfm)
Air @ 6.9 bar (100 psi) (print/flash/print configuration)	510 l/min (18 cfm)	765 l/min (27 cfm)	1019 l/min (36 cfm)	1274 l/min (45 cfm)	1529 l/min (54 cfm)
Electrical Requirements (print/flash/cool configuration) <sup>1</sup>	380/415 V, 3 ph, 21 A, 50/60 Hz, 7 kW	380/415 V, 3 ph, 22 A, 50/60 Hz, 8 kW	380/415 V, 3 ph, 25 A, 50/60 Hz, 9 kW	380/415 V, 3 ph, 29 A, 50/60 Hz, 10 kW	380/415, 3ph, 33 A, 50/60 Hz, 11 kW
Electrical Requirements (print/flash/print configuration) <sup>1</sup>	380/415 V, 3 ph, 22 A, 50/60 Hz, 8 kW	380/415 V, 3 ph, 28 A, 50/60 Hz, 9 kW	380/415 V, 3 ph, 32 A, 50/60 Hz, 11 kW	380/415 V, 3 ph, 36 A, 50/60 Hz, 12 kW	380/415, 3ph, 40 A, 50/60 Hz, 14 kW
Maximum Frame Size	79 x 109 cm (31" x 43")	79 x 109 cm (31" x 43")	79 x 109 cm (31" x 43")	79 x 109 cm (31" x 43")	79 x 109 cm (31" x 43")
Maximum Image Area	50 x 70 cm (20" x 28")	50 x 70 cm (20" x 28")	50 x 70 cm (20" x 28")	50 x 70 cm (20" x 28")	50 x 70 cm (20" x 28")
Maximum Printheads (print/flash/cool configuration)	6	8	11	14	16
Maximum Printheads (print/flash/print configuration)	8	12	16	20	24
Overall Size (L x W)	317 x 1066 cm (125" x 420")	317 x 1409 cm (125" x 555")	317 x 1752 cm (125" x 690")	317 x 2094 cm (125" x 825")	317 x 2529 cm (125" x 996")
Standard Pallet Size	56 x 84 cm (22" x 33")	56 x 84 cm (22" x 33")	56 x 84 cm (22" x 33")	56 x 84 cm (22" x 33")	56 x 84 cm (22" x 33")
Stations	18	26	34	42	50

<sup>1</sup> If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations are available: Contact M&R for details



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