

SATURN® PLATINUM II



Flatbed Graphic Press



FEATURES

- **Separate motors for lift/lower and print/flood**
- **Automatically synchronized, cam-driven peel**
- **Maximum image areas from 38 x 66 cm (15" x 26") to 76 x 104 cm (30" x 41")**

Saturn Platinum II sets the standard for high tolerance printing in a compact press, with a level of control and quality normally found only in large, expensive presses. It's ideal for applications where absolute precision is critical, delivering exceptional results on circuit boards, nameplates, panels, backlit graphics, flexible membrane switches, glass, ceramics, and four-color halftone printing. Saturn Platinum II uses separate motors for lift/lower and print/flood. The variable-frequency AC electric drive motors are brushless and maintenance-free. Saturn Platinum II's heavy-duty, chatter-free design and flat metal-alloy vacuum bed provide the rigidity and stability necessary for high-quality prints and long press life.

Saturn Platinum II's user-friendly control panel simplifies operation by using icons to identify press functions. Squeegee traverse speed and floodbar traverse speed can be set separately. Saturn Platinum II also features M&R's SoftVac™ whisper-quiet, high-volume vacuum system. Vacuum and blowback are each independent and adjustable. The digital keypad with alphanumeric display simplifies programming, and micro-registration with visual guides makes setup and

adjustment fast and simple. Standard features include automatically synchronized, cam-driven peel; adjustable front and rear print stroke sensors; double-print capability; pneumatic screen clamps; and pneumatic squeegee/floodbar locks. Designed and constructed with M&R's Plug & Takeoff™ technology, Saturn Platinum II is prewired for takeoff equipment with power, air and communications (customer specifies right-side or left-side takeoff at time of purchase), so setting up a takeoff unit is as simple as plugging it into the press.

Options include dripless squeegee attachment; tool-free four-corner off-contact; separate independent foot pedals for hands-free single-cycle printing and for vacuum control of hard-to-feed substrates; and M&R's dripless squeegee attachment, which prevents ink from dripping into the image area during the flooding process. The press can also be configured to operate on 110 volts. Sentry™, M&R's fully adjustable gripper-style takeoff, adapts to virtually any substrate. Saturn Platinum II is the ultimate combination of speed, efficiency, flexibility, and print quality in a small-format press.

www.mrprint.com

USA: 800-736-6431 • Outside USA: +847-967-4461

SATURN® PLATINUM II

STANDARD FEATURES

Certification

- CE & UL compliant: Built to specifications established by the European Committee for Standardization® (CE) and Underwriters Laboratories® (UL)

Control Center

- Control panel simplifies operation by using icons to identify press functions
- Digital microprocessor with self-diagnostics
- Double-print capability
- Dwell and load station vacuum times are independently managed from the control panel
- Flood/non-flood setting allows screens to be flooded or left unflooded after each print cycle
- Production speed monitor ensures more accurate job costing

Design & Construction

- Cycle interruption bars stop press when activated
- Designed for everything from ultra-thin substrates to heavy board stock
- Maintenance-free, brushless AC electric motors with variable-frequency drives
- Plug & Takeoff™ technology prewires the press for takeoff equipment with power, air and communications (customer specifies right-side or left-side takeoff at time of purchase)

Ink Dip System

- Electronically adjustable ink retrieval system keeps ink in the print area (U.S. Patent No. 5,649,479)

Master Frame

- Detaches from raised printhead for easy access

Off-Contact

- Four-corner off-contact settings allow quick and accurate screen leveling
- Zero off-contact capability increases control over print quality

Peel System

- Automatically synchronized cam-driven peel
- Infinitely adjustable within range

Print Carriage

- Adjustable, tool-free front and rear sensors located on the printhead
- Dynamic braking prevents the print carriage from drifting into the printing area
- Independent drives for print carriage and head lift

Screen Clamps & Holders

- Adjustable screen holders accommodate a wide variety of screen sizes
- Pneumatic screen clamps

Squeegee/Floodbar

- Calibrated independent and micro-adjustable pressure settings
- Park position simplifies squeegee and floodbar installation and removal, and allows flood and squeegee to be raised and moved to the front or rear without flooding or printing
- Pneumatic squeegee/floodbar locks
- Squeegee and floodbar traverse speeds can be set individually
- Squeegee pressure equalizer regulator ensures uniform squeegee pressure
- Tool-free pressure and angle adjustments are independently set

Vacuum System

- 3.2 cm (1.25") thick heavy-gauge anodized aluminum vacuum bed is drilled using computerized numerical control (CNC)
- SoftVac™ whisper-quiet, high-volume vacuum system
- Vacuum and blowback are each independent and adjustable

Warranty, Service and Support

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- One-year limited warranty

OPTIONS

Control Center

- Separate independent foot pedals for hands-free single-cycle printing, and for vacuum control of hard-to-feed substrates

Off-Contact

- Tool-free four-corner off-contact settings allow quick and accurate screen leveling

Registration

- Moveable pins for rigid substrates
- Round or square pins with fixed locations
- X & Y direction analog dial indicators

Squeegee/Floodbar

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

Take-Off Lift Pins for Left and Right Option

- Enables takeoff units to operate from either side of the press
- Includes one set of moveable lift-pin cylinders

Voltage Options

- 110 VAC

SPECIFICATIONS

| | Saturn Platinum II 1526 | Saturn Platinum II 2538 | Saturn Platinum II 3041 |
|--|---|---|---|
| Air @ 6.9 bar (100 psi) | 85 l/min (3 cfm) | 85 l/min (3 cfm) | 85 l/min (3 cfm) |
| Electrical Requirements ¹ | 208/230 V, 1 ph, 14 A, 50/60 Hz, 2.5 kW | 208/230 V, 1 ph, 14 A, 50/60 Hz, 2.5 kW | 208/230 V, 1 ph, 14 A, 50/60 Hz, 2.5 kW |
| Maximum Frame Size | 81 x 97 x 5.7 cm (32" x 38" x 2.25") | 106 x 127 x 5.7 cm (42" x 50" x 2.25") | 119 x 135 x 5.7 cm (47" x 53" x 2.25") |
| Maximum Image Area | 38 x 66 cm (15" x 26") | 64 x 97 cm (25" x 38") | 76 x 104 cm (30" x 41") |
| Overall Size | 104 x 128 cm (41" x 50.4") | 131 x 153 cm (51.5" x 60.4") | 131 x 166 cm (51.5" x 65.4") |
| Sentry Takeoff Floor Area | 178 x 84 cm (70" x 33") | 208 x 122 cm (82" x 48") | 208 x 122 cm (82" x 48") |
| Shipping Weight | 544 kg (1200 lb) | 635 kg (1400 lb) | 726 kg (1600 lb) |
| Takeoff Electrical Requirements ¹ | 208/230 V, 1 ph, 3 A, 50/60 Hz, 0.5 kW | 208/230 V, 1 ph, 3 A, 50/60 Hz, 0.5 kW | 208/230 V, 1 ph, 3 A, 50/60 Hz, 0.5 kW |
| Total Length with Takeoff | 282 cm (111") | 339 cm (133.5") | 339 cm (133.5") |
| Vacuum Bed Size | 66 x 81 cm (26" x 32") | 91 x 116 cm (36" x 45.5") | 104 x 116 cm (41" x 45.5") |

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