Saturn Platinum

Saturn Platinum sets the standard for high tolerance printing in a compact press, offering a level of control and quality previously available only in large, expensive presses. Saturn Platinum is ideal for any application where absolute precision is critical. It's ideal for circuit boards, nameplates & panels, backlit graphics, flexible membrane switches, four-color halftone printing, printing on glass & ceramics, and most other high-precision applications.

The Saturn Platinum uses two maintenance-free, brushless AC motors with variable-frequency drives. One motor operates squeegee carriage print/flood, and the other operates head up/down. The drive motor for squeegee carriage print/flood has digital speed readout in percentage format, and delivers exceptionally accurate speed control and extremely smooth squeegee/floodbar carriage traverse. Both squeegee traverse speed and floodbar traverse speed can be set separately. Saturn Platinum also features M&R's SoftVac™ whisper-quiet, high-volume vacuum system. Vacuum and blowback are each independent and adjustable. Saturn Platinum's digital keypad with alphanumeric display makes programming easy. Tool-free off-contact and micro-registration with visual guides make setup and adjustment fast and simple. Automatically synchronized, cam-driven peel and adjustable front and rear print stroke sensors are standard. Saturn Platinum's heavy-duty, chatter-free design and metal alloy (Duralloy™) flat vacuum bed provide the rigidity and stability necessary for high-quality prints and long press life.

Like all M&R equipment, Saturn Platinum is built with M&R's unsurpassed commitment to quality, durability, and design excellence, and is backed by the best service and support in the industry. If you want a small-format graphic press that delivers exceptionally precise parameter control and quality, there's only one choice: Saturn Platinum. It's the ultimate combination of speed, efficiency, flexibility, and print quality in a small-format press.

Saturn® Platinum

Flatbed Graphic Press

Standard Features

Central Off-Contact
- Adjustable tool-free, four-corner off-contact provides for quick and easy setup
- Zero off-contact capability offers greater control over print quality

Certification
- Panel meets Underwriters Laboratories® (UL) standards and carries the UL label

Control Center
- Control panel offers easy navigation, with programming and prompts in plain language
- Digital keypad with alphanumeric display
- Digital microprocessor with self-diagnostics
- Digital readout for print/flood speed adjustments in percentage format
- Flood/non-flood setting leaves screen flooded or non-flooded after print cycle
- Squeegee speed, flood speed, and dwell times are independently managed from the control panel

Design & Construction
- Constructed of rigid steel & aluminum and premium components
- Cycle interruption feature activated by wraparound printhead bar
- Design provides superb operator access
- Maintenance-free, brushless AC motors with variable-frequency drives

Ink Dip System
- Retrieval system keeps ink in print area (U.S. Patent No. 5,649,479)

Master Frame
- Adjustable holder accommodates a wide variety of screen sizes
- Detaches from raised head for easy access

Maximum Image Area
- 15" x 26" (38 x 66 cm), 25" x 38" (64 x 97 cm), and 30" x 40" (76 x 102 cm)

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

Print Carriage
- Dynamic braking prevents the print carriage from drifting into the printing area
- Frequency control AC drive is unsurpassed in delivering smooth squeegee/floodbar traverse
- Heavy-duty chatter-free design
- Independent drives for print carriage and head lift

Screen Clamps & Holders
- Manual clamps securely lock frame in place

Squeegee/Floodbar
- Calibrated independent and micro-adjustable pressure settings
- Independent print/flood speed controls
- Park position controlled from the digital controller
- Pressure and angle adjustments are independently set for superior print quality
- Squeegee and floodbar traverse speeds can be set individually
- Tool-free squeegee/floodbar angle adjustment

Stroke Length Sensors
- Adjustable (tool-free) front & rear stroke sensors located on the print head

Vacuum System
- CNC-drilled 1" (2.54 cm) thick heavy-gauge anodized aluminum vacuum bed
- SoftVac™ whisper-quiet, high-volume vacuum system
- Vacuum and blowback are each independent and adjustable

Service
- 24-hour hotline

Training
- Access to M&R's Training Center

Warranty
- One-year limited

Options & Accessories

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

Control Center
- Separate independent foot pedals for hands-free, single-cycle printing and for vacuum control

Print Bed Registration
- Moveable pins for rigid substrates
- Round or square pins—fixed location
- X & Y direction analog dial indicators

Screen Clamps & Holders
- Pneumatic screen clamps facilitate rapid screen loading and deliver excellent stability on a wide variety of screens

Sentry™ Takeoff
- Fully adjustable gripper-style adapts to virtually any substrate

Squeegee/Floodbar
- Dripless squeegee attachment automatically moves the squeegee over the floodbar before the flood stroke to prevent ink from dripping into the print area
- Pneumatic squeegee/floodbar locks
- Squeegee pressure equalizer regulator ensures uniform squeegee pressure

SPECIFICATIONS

Saturn Model	Maximum Image Area	Maximum OD Frame Size	Vacuum Bed OD Size	Total Floor Area	Air @ 100 PSI	Electrical Requirements*	Sentry Takeoff Floor Area	Total Length with Takeoff	Takeoff Electrical Requirements*	Shipping Weight
Platinum 1526	15" x 26" (38 x 66 cm)	32" x 38" x 2.25" (81 x 97 x 5.7 cm)	25" x 32" (64 x 81 cm)	39.25" x 48" (100 x 122 cm)	3 scfm	208/230v, 1 phase 14 amps, 60 Hz**	82" x 26" (208 x 66 cm)	118" (300 cm)	208/230v, 1 phase 4.0 amps, 60 Hz**	1200 lbs (544 kg)
Platinum 2538	25" x 38" (64 x 97 cm)	42" x 50" x 2.25" (106 x 127 x 5.7 cm)	35" x 44" (89 x 112 cm)	54.25" x 58" (138 x 147 cm)	3 scfm	208/230v, 1 phase 14 amps, 60 Hz**	86" x 36" (218 x 91 cm)	134" (340 cm)	208/230v, 1 phase 4.0 amps, 60 Hz**	1400 lbs (635 kg)
Platinum 3040	30" x 40" (76 x 102 cm)	47" x 52" x 2.25" (121 x 133 x 5.7 cm)	40" x 44" (102 x 112 cm)	54.25" x 63" (138 x 160 cm)	3 scfm	208/230v, 1 phase 14 amps, 60 Hz**	86" x 41" (218 x 104 cm)	134" (340 cm)	208/230v, 1 phase 4.0 amps, 60 Hz**	1600 lbs (726 kg)

* If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly
** Other electrical configurations available: Contact M&R for details

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