



# Renegade LS™

Flatbed Graphic Press

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## Renegade LS

Renegade LS is the largest version of Renegade, M&R's most innovative long stroke graphic press. Renegade LS features cutting edge microprocessor technology and sophisticated operator controls, including digital keypad with alphanumeric display, plain language programming and prompts, production speed monitor, self-diagnostics, and Job Recall. Job Recall allows operators to store settings for numerous Renegade LS functions, including delay, peel ratio, and dwell time. In addition, operators can store start and duration times for blowback and vacuum. These settings can be recalled later for repeat jobs—or for any jobs requiring similar settings—significantly reducing setup times.

Renegade LS also offers front screen loading, multi-print capability, infinite peel adjustment, and dial indicators for vacuum bed registration adjustment in .001" (.0025 cm) increments. The rugged all-steel chassis, 5" (13 cm) diameter lift columns of hardened steel, and heavy-duty print carriage with bearings on hardened steel tracks assure years of smooth, vibration-free printing. Renegade's print heads and master frame are made of extruded aluminum—instead of welded tubular steel—for superior strength and durability. Renegade LS delivers superb print quality on posters, banners, vinyl, fleet marking, glass, metal, display panels, and virtually all large format substrates, all at exceptional speed. Renegade LS is available in a wide range of sizes, from 52" x 98" (132 x 249 cm) to 62" x 148" (157 x 376 cm).

Like all M&R equipment, Renegade LS is constructed of rigid steel and aluminum and premium electronic components, built with M&R's unsurpassed commitment to quality, durability, and design excellence, and backed by the best service and support in the industry.

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# Renegade LS™

## Flatbed Graphic Press



### Standard Features

#### Certification

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

#### Control Center

- Digital keypad with alphanumeric display
- Digital microprocessor with self-diagnostics
- Job recall allows storage and recall of settings for delay, peel ratio, dwell time, and start and duration times for blowback and vacuum
- Multi-print capability
- Production speed monitor for more accurate job costing
- Programming & prompts in plain language
- Squeegee speed, flood speed, and dwell times are independently managed from the control panel
- Two independent foot pedals: one for hands-free single cycle printing and one for vacuum control

#### Design and Construction

- Control panel is track-mounted, allowing it to be positioned anywhere along the front of the press
- Extruded aluminum print heads and master frame for strength and durability
- Rugged all-steel chassis

#### Ink Dip System

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

#### Lift Operation

- 5" (13 cm) diameter lift columns of hardened steel
- Low lift feature speeds cycle time

#### Peel

- Automatically synchronized gear-driven screen peel
- Flat flood feature
- Infinitely adjustable within range

#### Print Carriage

- Adjustable (tool-free) left and right stroke sensors located on the front of the print head
- Dynamic braking to keep the print carriage out of the printing area

- Hardened steel tracks for years of smooth, vibration-free printing
- Independent drives for print carriage and head lift
- Maintenance-free brushless AC motors adjust speed by frequency variation with constant torque

#### Print Sizes Available

- 52" x 98" (132 x 249 cm), 52" x 124" (132 x 315 cm), 52" x 148" (132 x 376 cm), 62" x 148" (157 x 376 cm)

#### Safety

- Infrared light beams and wrap-around safety bar on either side of the head
- Safety system triggers dynamic braking, reverses print head, and stops all movement when activated

#### Screen Holders

- Adjustable screen holders accommodate a wide variety of screen sizes
- Pneumatic screen clamps securely lock frame in place
- Tool-free, four-corner off-contact settings allow quick and accurate screen placement at all four corners
- Zero off-contact capability offers greater control over print quality

#### Squeegees/Floodbars

- Adjustable pneumatic squeegee pressure equalizer maintains uniform pressure across the length of the squeegee
- Flood/non-flood setting leaves screen flooded or non-flooded after print cycle
- Independent print/flood speed controls
- Park position allows flood and squeegee to be raised and moved to the left or right without flooding or printing, and allows easy squeegee and floodbar installation and removal
- Tool-free angle adjustment

#### Vacuum System

- Blowback and vacuum pressure controls easily adjust to different stock types and thickness
- CNC-drilled 3" (7.62 cm) high heavy-gauge anodized aluminum vacuum bed
- Dial indicators for vacuum bed adjustment in .001" (.0025 cm) increments
- High volume vacuum turbine system with blowback
- Up-front access for easy setup and adjustment

#### 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® (CE)

#### Control Center

- MPR (Management Production Reporting) Software System™
- Modem with cable and module

#### Peel

- Stepper motor on peel with single-point fingertip control

#### Registration System

- Registration Pins (round or square pins available)

#### Sentry™ Takeoff

- Fully adjustable gripper-style adapts to virtually any substrate

#### Squeegees/Floodbars

- Dripless squeegee attachment automatically moves the squeegee over the floodbar before the flood stroke
- Pneumatic squeegee/floodbar air locks
- Skewed squeegee holder

### Specifications

Model	Maximum Image	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*	Weight
Renegade LS 5298	52" x 98" (132 x 249 cm)	76" x 132" x 2.5" (193 x 335 x 6.4 cm)	60" x 116" (152 x 295 cm)	162" x 71.5" (411 x 182 cm)	4 scfm	208/230v, 3 phase 30 amps, 50/60 Hz	190" x 65" (483 x 165 cm)	352" (894 cm)	208/230v, 3 phase 4 amps, 50/60 Hz	4500 lbs (2041 kg)
Renegade LS 52124	52" x 124" (132 x 315 cm)	76" x 156" x 2.5" (193 x 396 x 6.4 cm)	60" x 140" (152 x 356 cm)	186" x 71.5" (472 x 182 cm)	4 scfm	208/230v, 3 phase 30 amps, 50/60 Hz	218" x 65" (554 x 165 cm)	404" (1026 cm)	208/230v, 3 phase 4 amps, 50/60 Hz	5500 lbs (2495 kg)
Renegade LS 52148	52" x 148" (132" x 376 cm)	76" x 180" x 2.5" (193 x 457 x 6.4 cm)	60" x 164" (152 x 417 cm)	210" x 71.5" (533 x 182 cm)	4 scfm	208/230v, 3 phase 30 amps, 50/60 Hz	242" x 65" (615 x 165 cm)	452" (1148 cm)	208/230v, 3 phase 4 amps, 50/60 Hz	6500 lbs (2949 kg)
Renegade LS 62148	62" x 148" (157 x 376 cm)	86" x 180" x 2.5" (218 x 457 x 6.4 cm)	72" x 164" (183 x 417 cm)	210" x 81.5" (533 x 207 cm)	4 scfm	208/230v, 3 phase 30 amps, 50/60 Hz	242" x 75" (615 x 191 cm)	452" (1148 cm)	208/230v, 3 phase 4 amps, 50/60 Hz	7500 lbs (3402 kg)

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

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