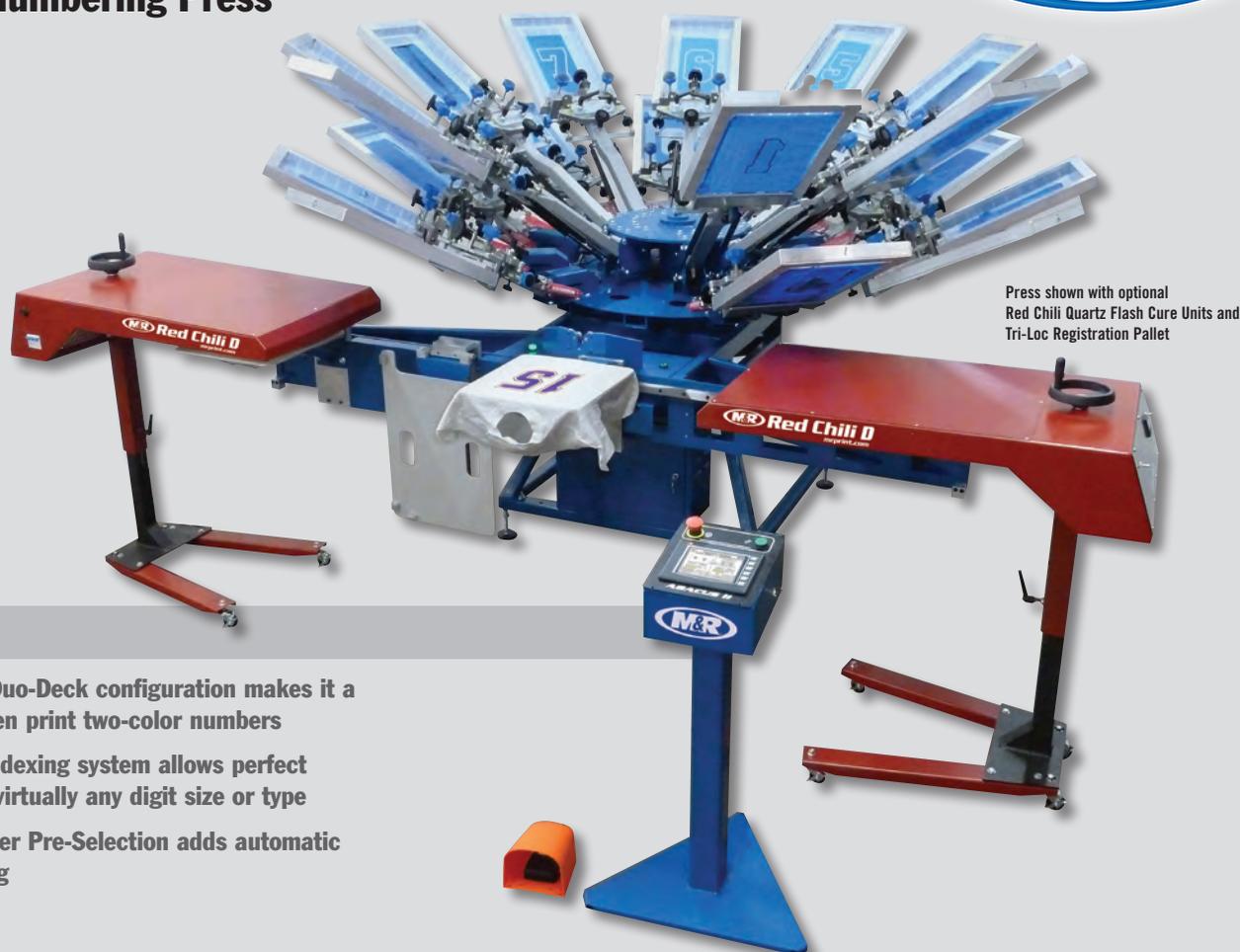


# ABACUS™ II



## Athletic Numbering Press



### FEATURES

- **20-printhead Duo-Deck configuration makes it a breeze to screen print two-color numbers**
- **Servo-driven indexing system allows perfect positioning of virtually any digit size or type**
- **Optional Number Pre-Selection adds automatic screen indexing**

Abacus II athletic numbering press combines M&R's versatile numbering system with the quality, performance, and durability of the unique Chameleon manual screen printing press. This unique two-station athletic numbering system features Chameleon's 20-printhead Duo-Deck configuration, making it a breeze to print two-color numbers. Abacus II's servo-driven indexing system, controlled by an advanced touchscreen user interface, allows perfect positioning of virtually any digit size or type. Unlike competing athletic numbering presses, there's no question about which screen goes where in a master screen chase, nor about how to position an oversize screen containing multiple digits. Instead, users simply enter the dimensions of the digits to be printed and the desired gap between the digits. Abacus II does the rest, automatically positioning each pallet for correct digit placement during the screen print cycle. Even the narrower digit 1 is positioned automatically to center the number on the garment.

The Abacus II athletic numbering press features servo-driven indexing system and foot-pedal control, enabling it to offer greater productivity than competing numbering presses. Abacus II also excels at standard multi-color screen printing. It can simultaneously accommodate screen frames up to 51 x 61 cm (20" x 24") in all 20 printheads—or screen frames up to 58 x 79 cm (23" x 31") in every other printhead. Abacus II

features also include a machine-tooled and polished 7.62 cm (3") center shaft, heavy-duty tapered roller bearings, extra-large knobs, micro-registration with dual off-contact adjustment, and tool-free spring tension adjustment.

Abacus II's optional Number Pre-Selection adds automatic screen indexing. Number Pre-Selection features servo-driven screen carousels that quickly and automatically move the next screen in the production screen printing sequence to the operator's position. The result is reduced operator fatigue and substantially increased production speed. To complement Abacus II, M&R developed a specialized version of the Tri-Loc Rapid Registration System, which allows users to achieve precise registration quickly and easily. The Abacus II numbering press is compatible with many quartz and traditional shuttle-type infrared flash cure units. With revolutionary two-tier design, an exceptionally precise servo-driven indexing system, rugged construction, and optional automatic screen indexing system, Abacus II is the world's finest numbering and manual production press.

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# ABACUS™ II

## STANDARD FEATURES

### CONTROL CENTER

- Advanced touchscreen control panel

### DESIGN & CONSTRUCTION

- Extra-large user-friendly knobs
- Heavy-duty tapered roller bearings
- Hinged arm assembly (U.S. Patent No. 5,881,641) expands color capacity without expanding screen printing press footprint
- Machine-tooled and polished 7.62 cm (3") center shaft

### DUO-DECK™ TWO-TIER SCREEN PRINTING SYSTEM

- Allows setup for two-color numbers (0-9)
- Ten-color upper and lower carousels

### FONT SIZES AND STYLES

- Supports a wide range of number sizes and styles

### INDEX SYSTEM

- Servo-driven indexing system allows perfect positioning of virtually any digit size or type

### PALLET SYSTEM

- Precise three-point pallet leveling system
- Tool-free quick release pallet locks

### PALLETS

- Solid-aluminum, low-profile, rubber-coated screen printing pallets
- Standard sizes are interchangeable with M&R automatic screen printing presses

### REGISTRATION

- Compatible with M&R's Abacus II Tri-Loc® Rapid Registration System
- Micro-registration with zero set point guides
- Multi-axis registration with dual off-contact adjustment
- V-Guide locator system

### SCREEN CLAMPS & HOLDERS

- Rear screen holders offer solid support and holding power

### SPRING TENSION SYSTEM

- Accommodates a wide variety of screen types, sizes, and weights
- Easy to adjust with M&R's exclusive tool-free design

### WARRANTY, SERVICE AND SUPPORT

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- One-year limited warranty
- Parts & supplies are available online at [store.mrprint.com](http://store.mrprint.com)

## OPTIONS

### ABACUS II TRI-LOC REGISTRATION SYSTEM

- Allows users to achieve precise screen registration quickly and easily
- Designed specifically for the Abacus II athletic numbering press

### NUMBER PRE-SELECTION

- Automatic screen-indexing option
- Servo-driven screen carousels move the next screen in the production sequence to the operator's position
- Substantially increases speed and significantly reduces operator fatigue

### PALLETS

- M&R aluminum pallets and platens come in a wide range of sizes and styles

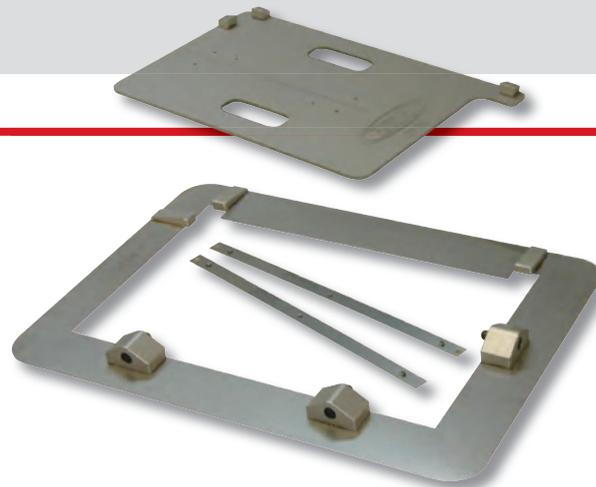
### SWIVEL-PALLET SYSTEM

- Enables users to screen print two-digit numbers without flashing the first digit

## SPECIFICATIONS

	Abacus II 2/20
Dimensions	290 x 295 cm (114" x 116")
Electrical Requirements <sup>1</sup>	208/230 V, 1 ph, 13 A, 50/60 Hz, 1.8 kW
Electrical Requirements with Number Pre-Selection <sup>1</sup>	208/230 V, 1 ph, 13 A, 50/60 Hz, 1.8 kW
Maximum Frame Size	59 x 61 x 5 cm (20" x 24" x 2")
Maximum Image Area	51 x 76 cm (16" x 18")
Shipping Weight	998 kg (2200 lb)
Standard Pallet Size	38 x 41 cm (15" x 16")
Stations/Colors	2/20

<sup>1</sup> 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.



Available Abacus II Tri-Loc® Registration System



**The M&R Companies**  
M&R • NUARC • AMSCOMATIC

**M&R Sales and Service, Inc. 1N372 Main Street, Glen Ellyn, Illinois 60137-3576 USA**

**USA: 800-736-6431 / 630-858-6101 / Fax: 630-858-6134 • Outside USA: +1-847-967-4461 / Fax: +1-847-967-0417**

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