



SIMPLIMATIC AUTOMATION

Keep it smart. Keep it simple.

Magazine Loader Model 3130L

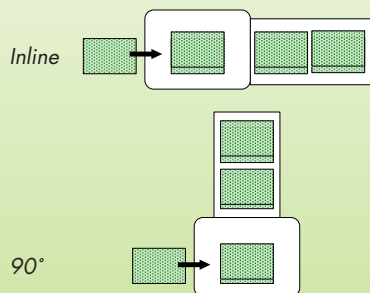
The Model 3130L Magazine Loader is designed to load product into a magazine at the end of a manufacturing line. With standard Simplimatic magazines, the machine can load up to 250 populated boards without operator intervention. The machine can also be customized to handle most third-party magazines types.



STANDARD FEATURES

- Motorized ball-screw carriage system
- High-speed DC stepper motor conveyor
- Five magazine capacity
- Hand crank width adjust
- Touchscreen interface
- Top and bottom pneumatic magazine clamps

There are 2 magazine handling configurations:

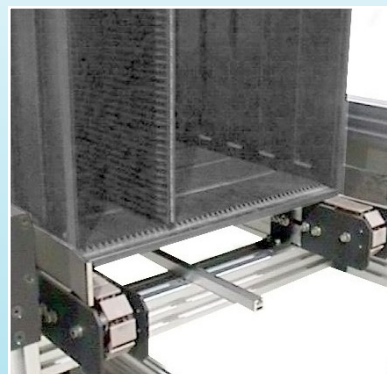
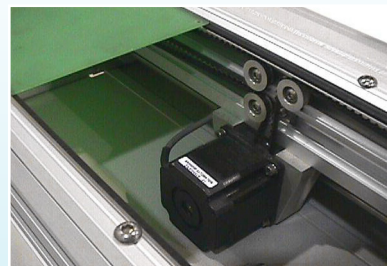


TYPICAL APPLICATIONS

- Removing populated product into a production line, especially where magazines are used elsewhere for management WIP
- Handling large, delicate, or large volumes of product

ADDITIONAL BENEFITS

- Zero-clearance edge guides eliminate the danger of boards becoming jammed under the edge guide.
- Load and unload positions can be taught at the touchscreen, which also provides diagnostic and trouble shooting information.
- Closed-loop servo positioning system delivers a high degree of precision and repeatability.
- Electromagnetic ball screw brake helps maintain a high degree of repeatability.
- Optional, adjustable, low-back pressure magazine conveyors deliver a smooth and reliable magazine transfer.
- Pneumatic locking cylinders on the carriage secure both the top and bottom of the magazine, which reduces transfer errors due to slightly out-of-square magazines.





**SIMPLIMATIC
AUTOMATION**

Keep it smart. Keep it simple.

Magazine Loader Model 3130L

CONSTRUCTION

The Magazine Loader utilizes Simplimatic's trademark sandwich construction, which creates a very rigid machine package by securing large aluminum frame members and load-bearing vanity covers between two 3/8" thick steel top and bottom plates. The result is a very strong, precise, modular frame.

The beefy carriage assembly is designed to support the top and bottom of the magazine. A servo-controlled positioning system, electromagnetic brake, and THK linear guides work together to ensure correct magazine alignment.

The conveyor assembly features ESD belts, DC stepper motors, and a sliding belt take-up.

MAINTAINABILITY

Two hinged, interlocked access doors provide maximum access to the interior of the machine. Maintenance-free pneumatic cylinders are used and maintenance overrides in the software help the technician configure the machine for maintenance.

SAFETY

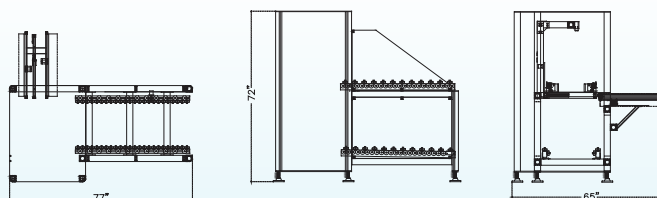
Lexan guards around the magazine loading and unloading conveyors reduce pinch hazards.

Other potential hazards are guarded and marked with SEMI-approved labels. Emergency stops are located in the front and rear of the machine and exhaust air pressure when activated. Machine status lights and audible alarm are standard.

AVAILABLE OPTIONS

- Inline or 90° magazine conveyor orientation (see front)
- Power Width Control
- Good board/bad board magazine sorting
- Large board version – up to 22" x 28"
- Custom magazine handling

SPECIFICATIONS



BOARD HANDLING CAPABILITY

SMEMA 1.2 Compliant

Circuit Board Length	3" (76.2mm) to 20" (508mm)
Circuit Board Width:	2" (50.8mm) to 18" (457.2mm)
Circuit Board Thickness:	0.010" (0.254mm) to 0.125" (3.175mm)
Allowable Warpage/Sag:	0.007 inch per inch, .125" max.
Edge Clearance:	Requires a clear area of 5mm (0.197") on the front and rear edges of the bottom surface of the board (3mm optional)
Component Clearance:	2" (50mm) above and below the conveying surface

Note: Consult factory on PC boards with cutouts, or boards with an aspect ratio where the width is greater than the length, and on boards with specifications outside those listed above.

FOOTPRINT

L	32" (80cm)
W	51" (129.2cm)
H	54" (137.2cm)

FACILITY REQUIREMENTS

Power	110 VAC, single phase, 10A
Air	OFA, 80 PSI, 3CFM

- Tooled Width Adjust – requires tools to adjust
- Magazine Carts
- Conveyorized magazine racks
- CE compliance
- We welcome custom applications

Corporate Office

1046 W. London Park Drive - Forest, VA 24551
800.294.2003 - Sales@Simplimatic.com
Simplimatic.com - Made in USA

Simplimatic Automation has been a leader in material handling systems since 1965. The company is part of the Simplimatic Engineering Holdings family of companies, which also includes Advantage Puck Technologies.