



SIMPLIMATIC
AUTOMATION

Keep it smart. Keep it simple.

Mini Magazine Handler

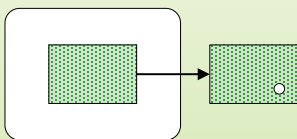
Model 3192

The Model 3192U Mini Magazine Unloader and Model 3192L Mini Magazine Loader are designed to introduce product from a magazine onto the beginning of a manufacturing line and vice-versa. With standard Simplimatic magazines, the machine can handle up to 50 populated boards without operator intervention. The machine can also be customized to handle most third-party magazines types.



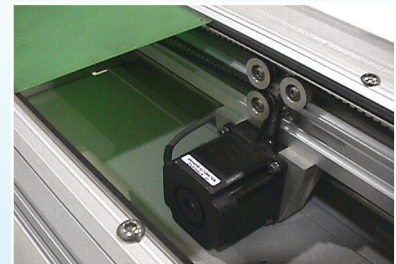
STANDARD FEATURES

- Motorized ball screw positioning system
- High-speed DC stepper motor conveyor
- 18" x 20" (457mm x 508mm) board capacity
- Hand crank width adjust
- Touch screen interface
- ESD conveyor belts



ADDITIONAL BENEFITS

- Zero-clearance edge guides eliminate the danger of boards becoming jammed under the edge guide.
- 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 troubleshooting information.
- Precision THK linear guides and electromagnetic brake system delivers a high degree of precision and repeatability.
- Units can be manually configured to work with most industry standard PCB magazines on the market. Please specify magazine at time of order to have the unit built and tested with your magazines.



TYPICAL APPLICATIONS

- Introducing populated product into a production line, especially where magazines are used elsewhere for management WIP
- Removing populated product from a production line, especially where magazines are used elsewhere for management WIP
- Handling large or delicate product
- Topside/bottomside production



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CONSTRUCTION

The Magazine handler 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

Potential hazards are guarded and marked with SEMI-approved labels. Emergency stops are located in the front and rear of the machine. Machine status lights and audible alarm are standard.

AVAILABLE OPTIONS

- Power Width Control
- Right-to-left transfer
- 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 Warp/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 43" (1.1m)

W 35" (88.9cm)

H 65" (1.6m)

FACILITY REQUIREMENTS

Power 110 VAC, single phase, 10A

Air OFA, 80 PSI, 3CFM

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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.