



SIMPLIMATIC
AUTOMATION

Keep it smart. Keep it simple.

Bare Board Destacker Model 3231

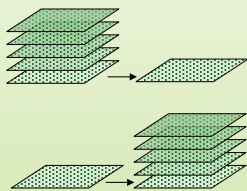
The Model 3231 Stacker/Destacker is a high-speed method of loading and unloading unpopulated boards onto a production line. Each unit can automatically halt its operation so that other boards may pass through.

This is a popular method for high-mix applications, as typically the only changeover is width adjustment.



STANDARD FEATURES

- High-speed DC stepper motor conveyor
- Pass-through mode
- Hand crank width adjust
- Easy board-thickness adjustment
- Holds 10" stack up to 18" x 20"
- Four-second cycle time

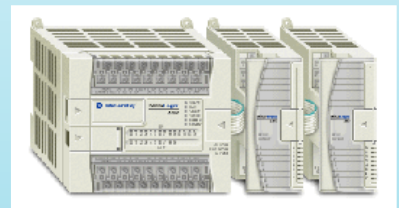


TYPICAL APPLICATIONS

- Introducing unpopulated product into a production line, especially after a magazine unloader
- Removing product from a line, especially before a magazine loader
- We welcome custom applications

ADDITIONAL BENEFITS

- Unit can be fully loaded but still allow product to pass through.
- Dual THK linear guides support the movable tower.
- Automatic cut-off when the width adjust handle is inserted.
- Slide-out electrical panel.
- Accommodating different board thicknesses is as simple as rotating a knob.
- Zero-clearance edge guides eliminate the danger of board becoming jammed under the edge guide.
- Standard Allen-Bradley controller system supports a touch screen interface and can be expanded to include network capability.





SIMPLIMATIC AUTOMATION

Keep it smart. Keep it simple.

Bare Board Destacker Model 3231

CONSTRUCTION

The Stacker/Destacker 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 top and bottom plates. The result is a very strong, precise, modular frame.

The machined aluminum top plate provides a very precise mounting surface for the critical parts of the machine, and results in very smooth and accurate operation of the loading/unloading process.

The dual THK width adjust guides ensure that adjustable tower remains calibrated to the fixed tower.

A knurled knob located on the top of the machine allows the dispensing knife to be precisely and easily located; this is the only adjustment required in order to handle boards of varying thickness.

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

MAINTAINABILITY

A fully labeled electrical panel and open architecture provide maximum access to the interior of the machine. Aside from general cleaning and occasional belt replacement, the unit is maintenance-free.

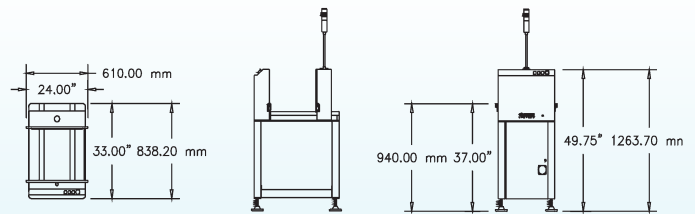
SAFETY

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 – motorized conveyor width, controlled by thumbwheel
- Right-to-left transfer

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 | 24" (60cm) |
| W | 33" (82.5cm) |
| H | 49.75" (107.3cm) |

FACILITY REQUIREMENTS

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

- Tooled Width Adjust – requires tools to adjust
- CE compliance

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.