



**SIMPLIMATIC**  
AUTOMATION

*Keep it smart. Keep it simple.*

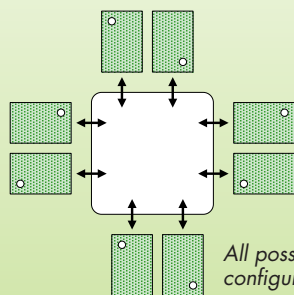
## Turn Unit Model 3040

*The Model 3040 series Turn units are capable of rotating product 270° about a vertical axis. Depending on the type of rotating mechanism, product can be introduced or discharged from any side, including same side in/out transfers.*



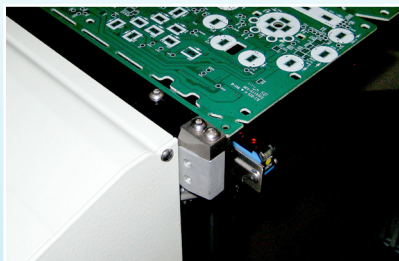
### STANDARD FEATURES

- Pneumatic, motorized, or closed-loop servo positioning system
- High-speed DC stepper motor conveyor
- Interlocked cover with alarm
- User-configurable routing options
- ESD conveyor belts
- Hand crank width adjust

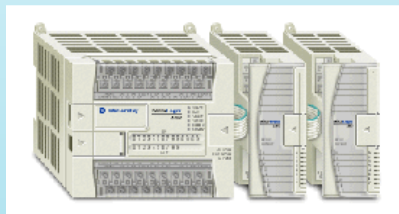


### ADDITIONAL BENEFITS

- Turn units can be reconfigured for different material handling routes.
- Hinged doors, slide-mounted electrical panel, top access door, and easily removable vanity covers improve access to the machine.
- Zero-clearance edge guides eliminate the danger of boards becoming jammed under the edge guide.



- Standard Allen-Bradley controller system supports a touch screen interface and can be expanded to include network capability.



### TYPICAL APPLICATIONS

- Ninety-degree turns
- Production line merging or diverging
- Good board/bad board routing
- Changes in fixed rail orientation



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## Turn Unit Model 3040

### CONSTRUCTION

The Slide and Turn 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 servo-controlled rotator is the fastest and smoothest method of rotating product. In addition, it allows for infinite, software-controlled adjustment, which eliminates the need for additional sensors and hard stops.

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

### MAINTAINABILITY

Aside from general cleaning and occasional belt replacement, the Slide and Turn is maintenance-free. A sliding electrical panel, large Lexan access door, and quick-release vanity covers provide maximum access to the interior of the machine.

### SAFETY

Transfer openings are protected by metal guarding and potential hazards are marked with SEMI-approved labels. Emergency stops are located in the front and rear of the machine and the Lexan cover is safety interlocked. Machine status lights and audible alarm are standard.

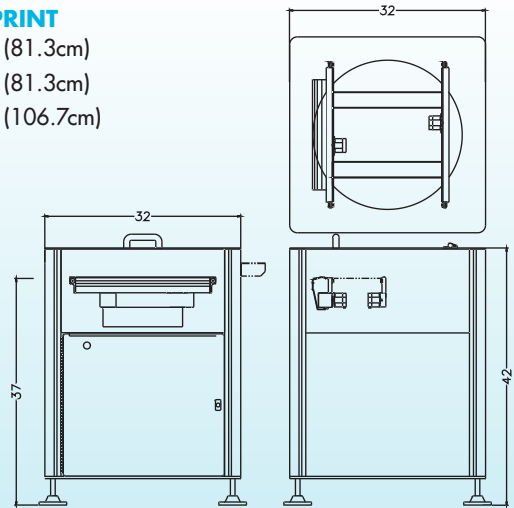
### AVAILABLE OPTIONS

- Power Width Control – motorized conveyor width, controlled by thumbwheel
- Product Scanning
- Dual Lane
- Belt Width – 3mm or 5mm

### SPECIFICATIONS

#### FOOTPRINT

- L 32" (81.3cm)
- W 32" (81.3cm)
- H 42" (106.7cm)



#### 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

#### FACILITY REQUIREMENTS

- Power: 110 VAC, single phase, 10A

### Corporate Office

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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.