



**SIMPLIMATIC**  
AUTOMATION

*Keep it smart. Keep it simple.*

## FIFO/LIFO Buffer Series

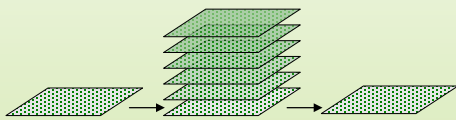
### Model 3080

*The Model 3080 FIFO/LIFO Buffer series is designed to help balance the flow of your production line by temporarily storing work in progress. The 3080 series is available in 10, 20, 30 and 40 slot capacities, each able to hold product from 2" x 3" to 18" x 22" in size. The carriage is designed to take very heavy loads, while the zero-clearance conveyor guides can accommodate very thin product. The buffer can be operated in LIFO or FIFO mode, depending on the needs of the user.*



#### STANDARD FEATURES

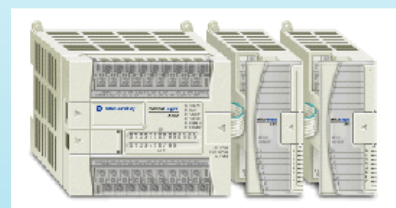
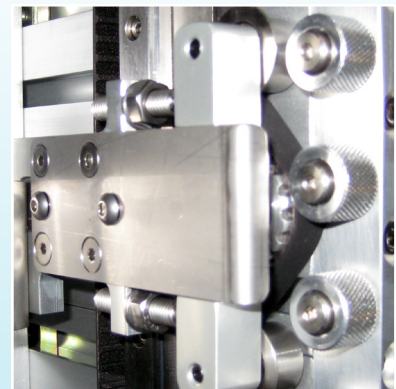
- Closed-loop servo positioning
- High-speed DC stepper motor conveyor
- Individual belt sections
- Patented conveyor drive assembly
- Hand crank width adjust
- Optional Infeed and Discharge Cantilever Conveyors



*The 3080 series is available in 10, 20, 30 and 40 slot capacities.*

#### ADDITIONAL BENEFITS

- Standard upline inhibit software allows the FIFO/LIFO Buffer to regulate transfers at other machines, which can help balance the line and ensures the buffer is never filled.
- Patented floating conveyor drive assembly is reliable and easy to set up.
- Teach positions, carriage pitch, inhibit values, board capacity, and "first slot" variables are easily programmed at the user interface.
- Closed-loop feedback in the carriage positioning system ensures precise and repeatable transfers.
- Standard Allen-Bradley controller system supports a touch screen interface that can be expanded to include network capability.
- Pass-through, stop input, and stop output modes.



#### TYPICAL APPLICATIONS

- In-line buffering before bottlenecks or inconsistent processes, like manual assembly areas
- Evacuating reflow ovens if post-reflow processes slow or stop
- Good board/bad board sorting
- Same side in/out buffering
- We welcome custom applications



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## FIFO/LIFO Buffer Series Model 3080

### CONSTRUCTION

The Model 3080 FIFO/LIFO Buffer series 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 method of buffering allows for infinite, software-controlled adjustment of the carriage position, while the one-piece carriage plates eliminate the variation found in modular carriages. A patented floating conveyor drive assembly is both reliable and easy to adjust.

The conveyor assembly features ESD belts, high-speed DC stepper motors, and automatic belt tensioning.

### MAINTAINABILITY

A full-size access rear door, large Lexan side access doors, and quick-release vanity covers provide maximum access to the interior of the machine. Maintenance override modes help the user maintain the machine.

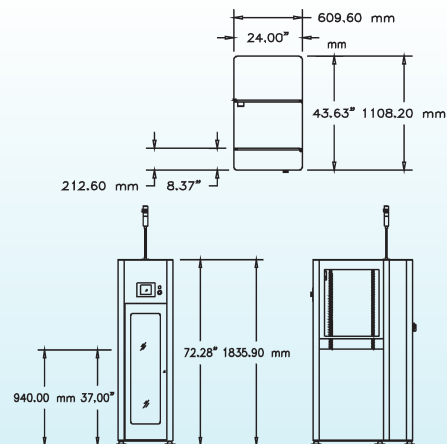
### SAFETY

The operator display indicates error conditions 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
- Tooled Width Adjust – requires tools to adjust
- Large frame version – increases footprint, handles 18" x 24" board

### 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

### FOOTPRINT

- L 24" (600cm)
- W 44" (1100cm)
- H 72" (1800cm) (20, 30, 40 slot versions)

### FACILITY REQUIREMENTS

Power 110 VAC, single phase, 10A

### Corporate Office

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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.