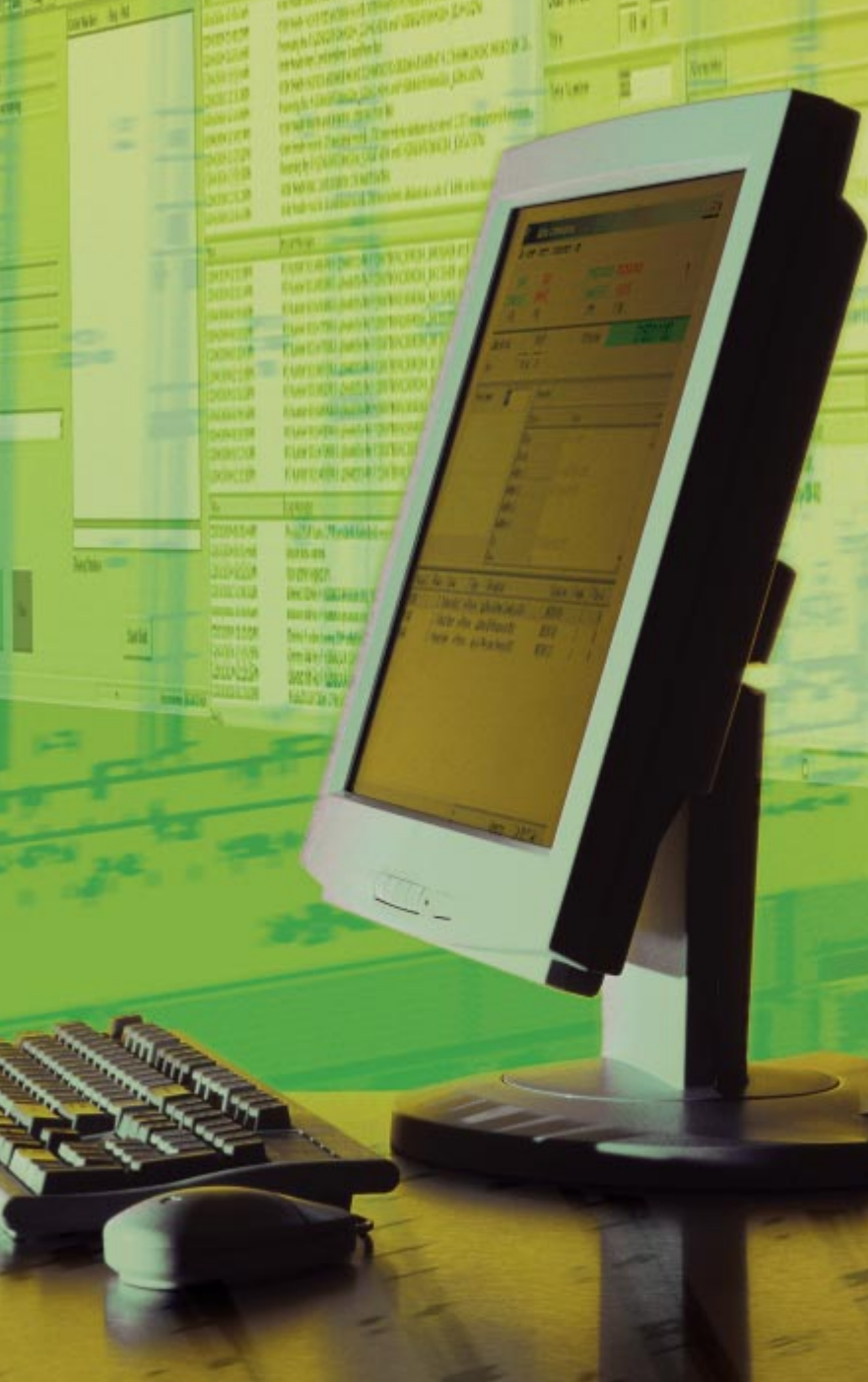




S I | N T H E S I S TM
Software Suite

Automated Order Fulfillment Modules

*See new possibilities in order fulfillment emerge.*TM



Direct high-speed, high-volume, automated fulfillment with the **SINTHESIS**TM Automated Order Fulfillment Modules. More accurate, efficient picking strategies deliver high productivity and throughput from Dispen-SI-MaticTM pick machines, automated storage and retrieval systems, horizontal and vertical carousels, and gantry robots. Inventories and product locations in each machine influence the optimum picking strategy to maximize order fulfillment rates. Correct picks are verified and shortages are reported and rectified at error correction stations. Integrated with a full line of extendible modules, **SINTHESIS** creates dynamic order fulfillment processes, from order receipt through order shipment, for distribution centers that provide full-case and split-case, item-oriented fulfillment. And each of these modules can be further customized to deliver even greater productivity in your particular application.

Automated Order Fulfillment Modules

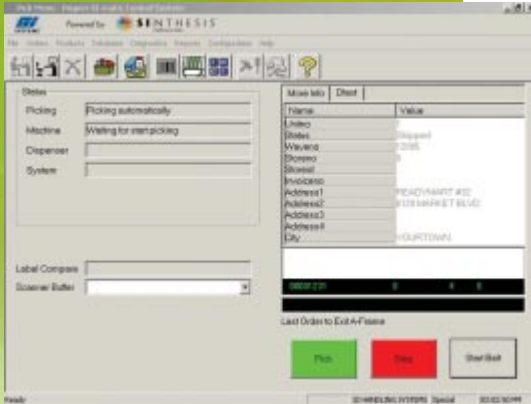
- Dispen-SI-Matic Picking Director
- ASRS Director/Gantry Picking Director
- Carousel Picking Director

SINTHESIS is the software component of total system solutions for order fulfillment and distribution from SI Systems. With over two dozen innovative, extendible software modules, SINTHESIS software complements enterprise planning systems to accurately facilitate and optimize planning, warehousing, inventory, routing, order fulfillment, and distribution processes for sophisticated, high-volume distribution centers performing full- or split-case picking operations.

Dispen-SI-Matic Picking Director

Maximizes the order filling throughput of one or many A-frame automated item picking machines. Controls each channel of an A-frame to dispense the correct number of items to a moving belt or into a passing tote. Diagnoses order progress, shortages, out-of-stock, and other fault conditions in “real time”.

- Maintains inventories of item quantities stored in each lane and A-frame
- Controls electrical and mechanical devices associated with picking actions
- Records performance statistics for each Dispen-SI-Matic
- Tracks orders through each A-frame
- Coordinates injection of items picked to a belt or into totes or cartons



ASRS Director/Gantry Picking Director

Communicates to multiple automated storage and retrieval systems, including gantry robots, and controls processes, optimizing the travel time of ASRS cranes or gantry robots to maximize system efficiency.

- Provides operator directives via terminal displays
- Verifies correct pick via automated or manual barcode scanners
- Coordinates movement of multiple ASRS cranes and gantries
- Groups picks into batches when multiple orders are picked together

Carousel Picking Director

Communicates to multiple vertical or horizontal carousels, including light bars and displays, and controls processes, optimizing carousel rotation times to maximize system efficiency.

- Provides operator directives
- Verifies correct pick via barcode scanners
- Coordinates movement of multiple carousels to improve operator efficiency
- Groups picks into batches when multiple orders are picked together

SYNTHESIS SERVICE AND SUPPORT

SI understands that the success of your business depends on the continuing performance of the systems we build. Therefore, we are committed to providing the highest level of support possible. As part of that commitment, we ensure that the most qualified people are available to answer your questions and assist you during emergencies—whenever and wherever the need arises. Our U.S. base means less travel time—which translates into less downtime for you!