

CASI-SORT - INTELLIGENT SORTATION FOR RECEIVING



CASI's Intelligent Sortation for Receiving, **CASI-SORT**, is the perfect automation solution for any receiving area – large or small. By scanning, manifesting, & sorting incoming products automatically, the CASI-SORT instantly alleviates one of the most time-consuming & highest-turnover areas in retail and warehouse operations – Receiving.

CASI-SORT - INTELLIGENT SORTATION FOR RECEIVING

PRIORITY SORTING – Customize & prioritize sort locations in real-time, to adjust for out-of-stock, high-value, or sensitive merchandise.

LABOR REDUCTION – Automate the most time-consuming and error-prone aspects of receiving – verification, documenting, & sorting.

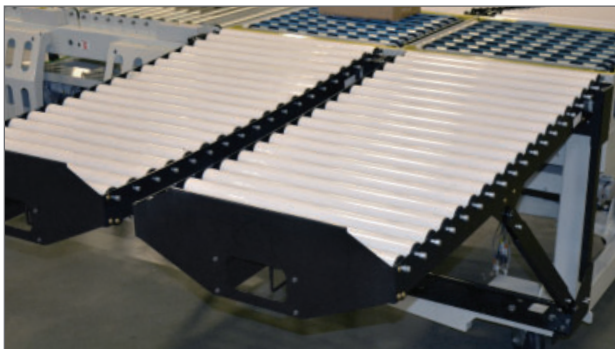
REDUCE SHRINKAGE – Scanning each product on arrival provides a quick & easy way to monitor the expected vs. actual shipments.

SAVE SPACE – When not in use, CASI-SORT’s wings fold up to dramatically reduce the system’s footprint.

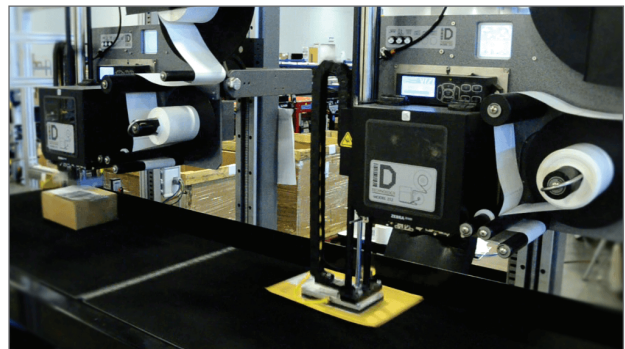


Specifications	CASI-SORT Warehouse	CASI-SORT Retail
Maximum Rate	30 ppm	30 ppm
Minimum Box Size (LxWxH)	6" x 6" x 1" (203mm x 152mm x 25mm)	6" x 6" x 1" (203mm x 152mm x 25mm)
Maximum Box Size (LxWxH)	30" x 21" x 19" (762mm x 533mm x 483mm)	30" x 21" x 19" (762mm x 533mm x 483mm)
Power Requirements	120 VAC / Single-Phase / 30A	120 VAC / Single-Phase / 30A
Air Requirements	2.2 SCFM @ 90 psi	No Air (All Electric)
System Footprint	35' x 12'	35' x 11'
Carton Weight (Min./Max.)	1 lb. / 50 lbs.	1 lb. / 50 lbs.
Scannable Barcode	Omni-Directional (3" min. length x 1" min. height)	Omni-Directional (3" min. length x 1" min. height)
Wing Design	Rigid (1-piece) – Swing up and lock when not in use	Hinged (2-piece) – Fold up and lock when not in use
Mobility	Fixed – Casters not included	Mobile – Locking Casters included
Sortation Wings	7 (more/fewer wings available upon request)	5 (more/fewer wings available upon request)

If you’re going to automate your receiving area - why settle for less than you need? Regardless of which CASI-SORT model you choose, the additional Sort Wings and Inline Print & Apply options will end up saving you valuable time and money after every use. With its plug-and-play architecture, CASI-SORT systems come standard in either a 5 or 7 wing configuration, with the option to add or remove wings as needed. CASI’s optional print & apply system allows for sub-sorting capabilities, by applying a label with additional sort locations within each wing.

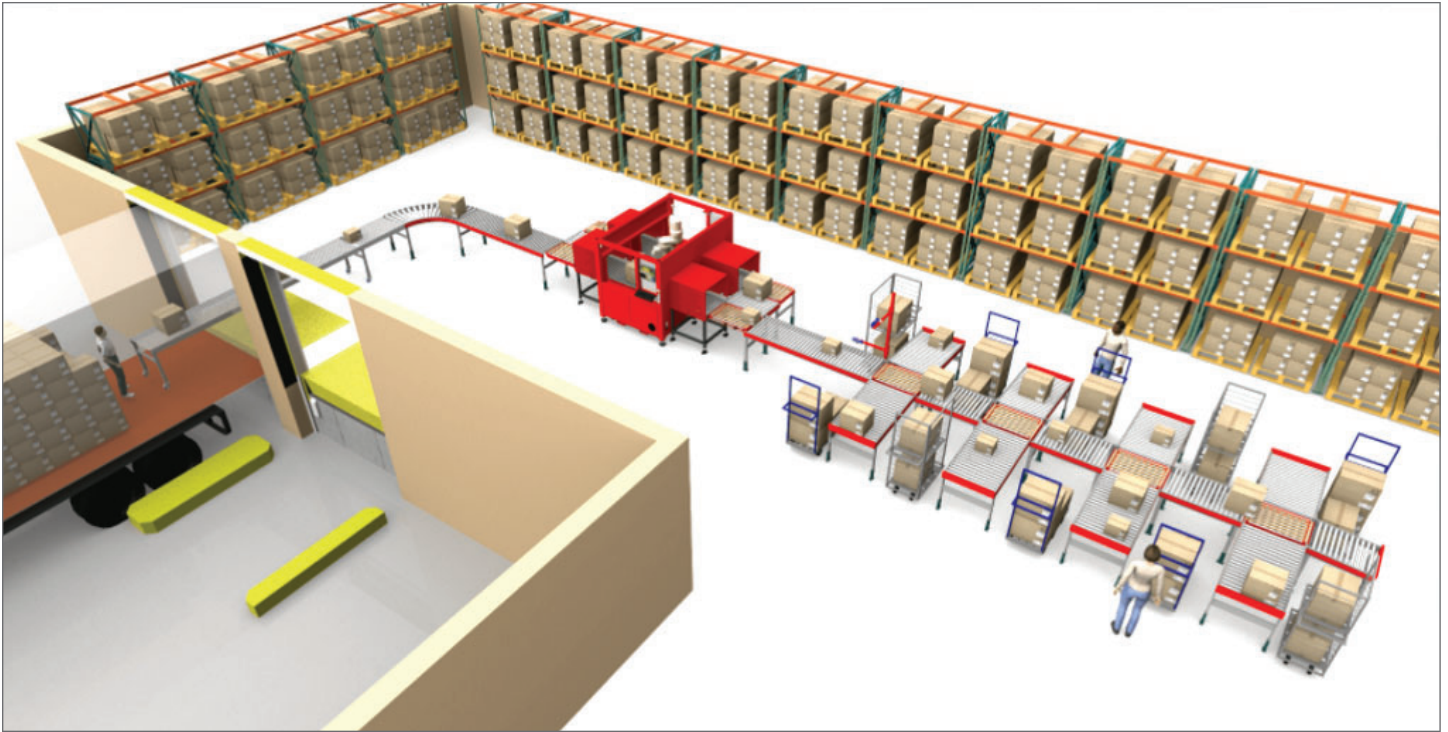


Additional Sort Wings (optional)



Labeling - Inline Print & Apply (optional)

CASI-SORT - SYSTEM OPTIONS



Get the most out of your *CASI-SORT* with the following modular options:

AGILITY - Powered Flexible Conveyor

- BENDABLE – Bends right into the truck, for easy loading & unloading every time.
- MODULAR – Attaching to the IBOD, or another piece of conveyor takes just seconds.
- EXPANDABLE – Reaches the back of the trailer with ease. When you're done, shrink it down for compact storage.
- MOTORIZED – Once boxes are placed on the conveyor in a singulated flow, they'll be fed into the IBOD automatically.
- INTELLIGENT – Programmable features, such as self-adjusting speed, automatic gapping, and other customization options.

IBOD - Intelligent Box Opening Device

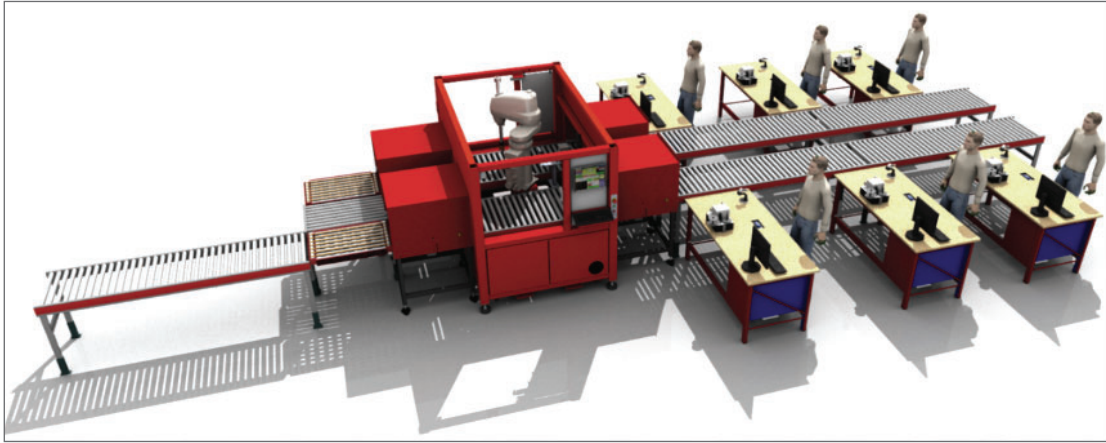
- FAST – Cuts up to 750 boxes per hour.
- INTELLIGENT – Automatically scans each box size and dynamically adjusts to make the correct cut.
- SAFE – The only operator interaction is loading & unloading the IBOD conveyor.
- PRECISE – Fine-tune the cut depth to cut only the box, not the product.
- EFFICIENT – Optional automatic blade changer and automatic lid remover further reduce your labor needs.

Additional Options:

ADDITIONAL SORTATION TEE - 2 Sorters & 2 Wings

LABELING - Inline Print & Apply

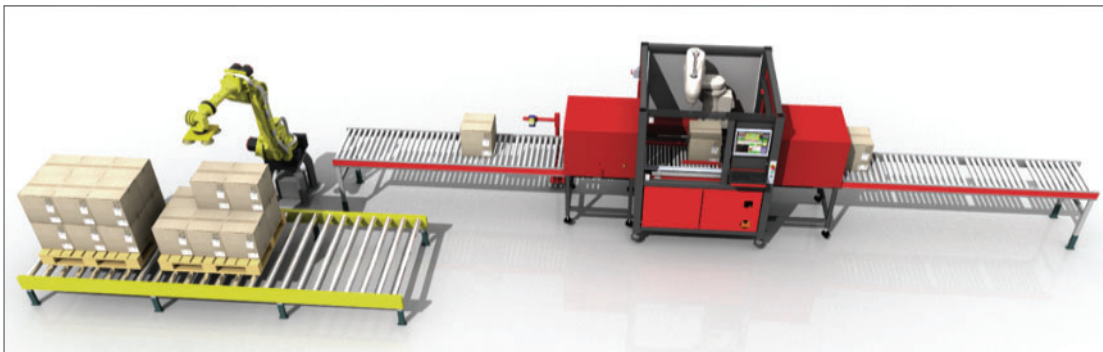
INTELLIGENT RECEIVING DOESN'T HAVE TO END WITH CASI-SORT



Sort boxes directly to operator workstations.



Turn the **IBOD** into a 1-Person job with **AGILITY** Powered Flexible Conveyor.

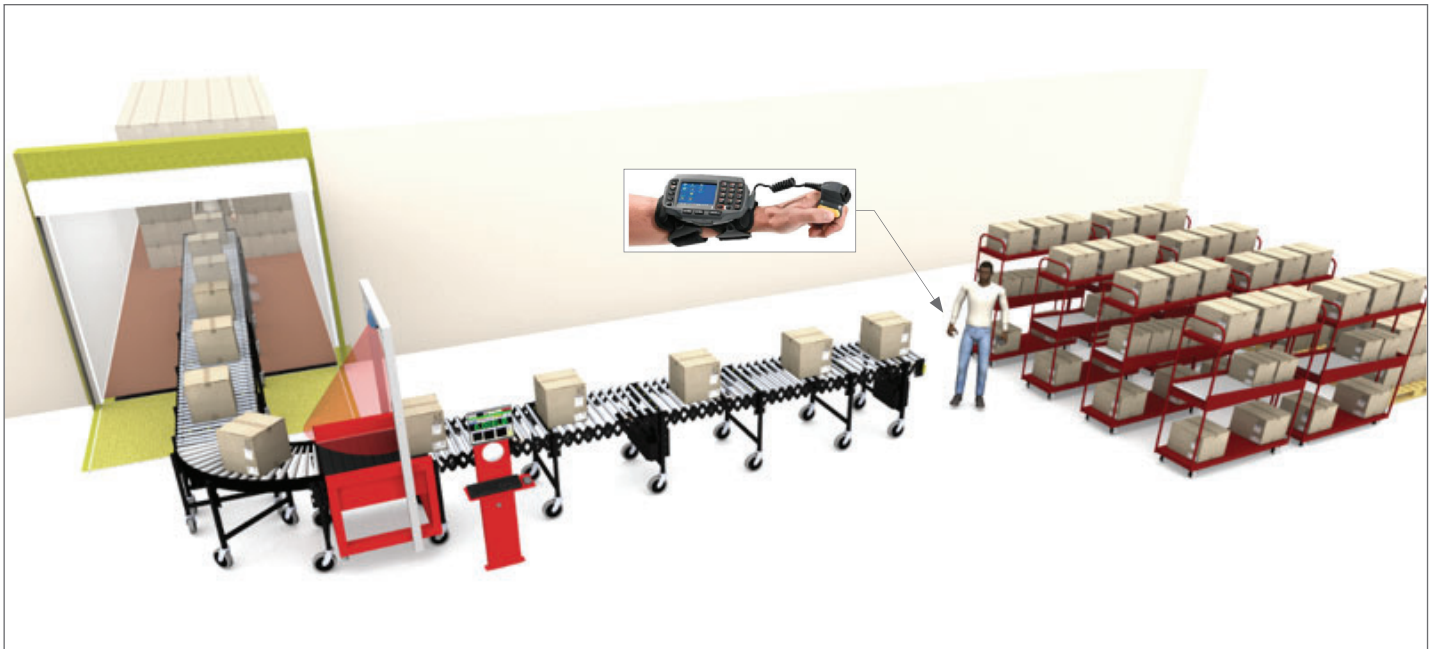


Add palletizing OR de-palletizing to the **IBOD** for complete automation!

CASI-SORT - SMALL FORMAT DESIGN



CASI-SORT distributes complete packages to **WING CARTS** and break-packs (eaches) to **AGILITY** Powered Flexible Conveyor.



CHECKWEIGH SCALE verifies expected box weight matches label. Errors are communicated to mobile operator's **WRIST DISPLAY**.

AGILITY Powered Flexible Conveyor controls workflow for Flexible or Fixed accumulation.

Mobile operator uses **RING SCANNER** & **WRIST DISPLAY** to scan boxes & confirm sort location.

CASi-SORT - BENEFITS



CASi-SORT - System Benefits

- SAFE - Powered conveyor works at the speed of the operators.
- EFFICIENT - Product automatically sorted to stock or aisle location.
- INCREASES SALES - With priority sort for "Outs".
- SMART - Managers receive notification of items received for upcoming promotions.
- INVENTORY ACCURACY - Pick errors at distribution center are reconciled as items are received.
- VERSATILE - Optional inline labeling for additional sub-sorting.
- FLEXIBLE - Sortation Tees may be added or subtracted depending on store size.
- SIMPLE INSTALLATION - Web-based videos for installation, training, & troubleshooting.
- NO TWISTING OR TURNING - Operator simply moves product to upper or lower shelves.
- MULTIFUNCTION - Wing cart disengages and becomes stocking cart.

WALMART GOES ALL-IN WITH INTELLIGENT RECEIVING SYSTEM FROM CASI



“It’s autonomous,” said Tyler Bursey, manager of the 205,000-square-foot Walmart Supercenter in North Richland Hills in northern Tarrant County. The Bossa Nova shelf-scanning robot stood docked to its electrical source in a hallway leading to the store’s back room, where its cohort, the **FAST System** lives. The two machines can communicate – [as the Bossa Nova robot] identifies “true outs,” products that are completely out of stock, it notifies the **FAST System** to prioritize unloading these shipments first. There’s one special cart for all those “true outs” and employees get the message on their handhelds.

The **FAST System** is an intelligent receiving system that scans arriving boxes as they’re manually unloaded from a docked truck. It has a long conveyor extending from it and shorter offshoot shelves come out on either side with carts stationed at the ends. As boxes move down the long conveyor, they are rerouted to their correct cart. The technology for the **FAST System** comes from **Cornerstone Automation Systems (CASI)** in Frisco, where it’s also building the systems for the Walmart rollout.

Without the **FAST System**, it takes nine to 10 Walmart employees two hours to unload 2,500 to 3,000 cases off a truck. With the **FAST System**, it’s done with half as many people. That adds 10 more employee hours on the floor, Bursey said, “instead of being tied up back here.”

After almost a year of programming and testing the robot that checks for empty spots on shelves, Walmart is rolling out 300 of them to stores nationwide. It’s also purchased 1,500 floor cleaning robots, **1,200 FAST Systems** and 900 more pickup towers for national deployment. Walmart is spending \$11 billion this year on its global business.

Upgrades at Texas Stores

Texas, Walmart’s biggest market, is getting its share:

- 25 Bossa Nova automated shelf scanners, 12 in D-FW
- 54 store remodels, 16 in D-FW
- 137 additional **FAST Systems**, 30 in D-FW
- 171 additional automated floor scrubbers, 27 in D-FW
- 82 additional pickup towers, 14 in D-FW
- 74 more stores will get online grocery pickup
- 84 additional stores will get online grocery delivery



“It’s great to see all this,” said Bursey, who has been with Walmart for 10 years. “And we were glad to be paving the way for other stores.”

A SHARED VISION TOWARDS THE FUTURE OF RETAIL & E-COMMERCE AUTOMATION

Lozier Corporation and Cornerstone Automation Systems, LLC (CASI) have combined resources to form the largest team effort in retail automation and e-commerce automation.



Together, we are able to provide smart, tech-enabled solutions that increase capacity and throughput while reducing costs. Additionally, our software expertise provides important visibility into your operations through data - such as real-time tracking of orders and inventory in brick-and-mortar stores, dark stores, and e-commerce fulfillment centers.

ABOUT US

Lozier manufactures products, or components and OEM parts, while CASI provides the technology, testing and assembly, technical support, and service. Lozier manufactured items flow into CASI's 186,000 square foot Texas facility where they are assembled, tested, and shipped.

LOZIER

- Founded in 1956, privately owned
- Over 4.3 million square feet of manufacturing and distribution space
- Headquarters in Omaha, Nebraska with additional facilities in Alabama, Missouri, Pennsylvania and Indiana
- Industry leader in product, quality, and service
- Manufacturing expertise and capability
- Product development and engineering
- Production of components or OEM parts
- Infrastructure to service and scale
- Installation, training, technical support, and ongoing service

CASI

- Delivering turnkey systems since 2002
- 186,000 square feet of manufacturing space
- Headquarters in Frisco, Texas
- FANUC Top Robotics Integrator and Innovation Award winner
- Technology design and integration experts
- Software expertise
- Receiving and fulfillment solutions
- System assembly and testing
- Installation, training, technical support, and ongoing service

PRODUCTS + SOLUTIONS

LOZIER

- Conveyors
- Pallet Racking
- Widespan, S-Series, and Cube Saver storage systems
- Gondola display shelving
- Checkouts and queuing
- Specialty retail displays

CASI

- Automated receiving
- Automated box opening and box-resizing systems
- Order-picking hardware and software
- In-line manifest systems
- Precision robotic labeling
- End-of-line sortation systems
- Robotic palletizing and off-loading systems