



OSARO® Robotic Induction System



Overview




Take sorter induction to the next level using robots powered by OSARO's smarter automation built on AI-driven pick-and-place software.

This drop-in replacement for manual sorter induction stations can demonstrate high throughput rates at human-equivalent performance with less overhead, no labor shortage issues, and superior ROI.




Primary Use Case

Induction of items onto conveyors for downstream scanning and sortation.

Core Features

-  **Pick and place the majority of items without human contact**
Reliably processes a vast range of item shapes, sizes, materials, and packaging — e.g., shiny, reflective, deformable, illustrated.
-  **Handle items without previous registration**
Adapt to changing packaging (type, size, color, print, material) on the fly.
-  **Maximize downstream success**
Optimizes placement of items in a specified orientation into empty spaces on a moving conveyor that is occupied with items.

Benefits

-  **Increase production without increasing headcount**
Unlike manual labor, the system can perform 24/7, without training, breaks, overtime, or injuries.
-  **Seamlessly integrate with current systems**
Enable drop-in replacement for a manual induction station. The system occupies similar floorspace, delivers equivalent throughput, costs less, and requires minimal changes in facility layout, product flow, or WMS.
-  **Completely automate the induction process**
The system picks individual items from a jumbled mix of items and rapidly places them in the desired orientation onto a moving conveyor.

The OSARO Difference



Smarter Automation



Low Risk



Hypercare

Relevant Industries

E-commerce D2C, parcel processing, retail store fulfillment

Cost Savings and Lower Risk

Robot-as-a-service (RaaS) options versus upfront capital investment lower risk to entry.

Return on Investment (ROI): A five cell deployment will return, on average, 20-40% cost savings over five years when compared to an equivalent number of human picking stations (1-2 shifts per day and 24 operating days per month).

Hypercare Service and Support

- 24/7 Support
- Complete system support including software, controls, mechanical, and electrical
- Powerful and personalized help desk system
- Certified technicians, project managers and field engineers
- Guaranteed performance
- Trusted partner focused on continuous learning and customer success
- *Kirei* – we pride ourselves on doing clean and beautiful work

Specifications/System Performance

Expected Performance	Throughput	1,500+ picks per hour*
	Operator Interventions	Less than 1 intervention per 8-hour shift

Item Requirements	Weight	Min N/A Max 11 lbs
	Dimensions	Min 0.4" x 0.4" x 0.4" Max 20" x 20" x 20"
	Product Packaging	Non-porous (air doesn't pass through it) Sealed (doesn't open when picked)
	Item Storage	Single-SKU or mixed-SKU Ordered or jumbled

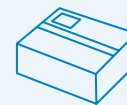
Facility Requirements	Floorspace	Adjustable
	Power	480 v, 3 phase, 50 amps
	Temperature	Min 40° F Max 100° F
	Integrations	Integrates with conveyors and item detection systems (e.g., cameras, light curtains)

*Depending on cell configuration, operations, and item mix

OSARO offers a range of purchase and lease options.

Contact our Sales and Solutions team at osaro.com/contact

Supported Item Types



Boxes



Poly-mailers



Envelopes



Padded Mailers

Supported Integration



AMR



Conveyor