



OSARO[®] Robotic Piece Picking Systems for AMR and ASRS



Overview




Take your operation to the next level using robots powered by OSARO's smarter automation built on sophisticated pick-and-place software.

This drop-in replacement for manual picking stations achieves human-equivalent performance with less overhead, no labor issues, and superior return on investment.




Primary Use Case

- Induction of items into e-commerce inventory bins for storage
- Extraction of items from e-commerce inventory bins for order assembly and fulfillment

Core Features

-  **Pick and place the majority of e-commerce items without human contact**
Reliably process a vast range of item shapes, sizes, materials and packaging — shiny, reflective, deformable, illustrated — no problem.
-  **Handle items without previous registration**
Adapt to changing inventory and new items on the fly.
-  **Avoid item damage**
Picks and places items gently and efficiently.

Benefits

-  **Increase production without increasing headcount**
Unlike manual labor, the system can perform 24/7, without training, breaks, overtime, or injuries.
-  **Integrate seamlessly with current systems**
Drop-in system occupies similar floorspace, delivers equivalent throughput, costs less, and requires minimal changes in facility layout, product flow, or WMS.
-  **Completely automate inventory extraction/induction**
System picks items from a source bin and places it into a destination bin regardless of whether the container is full or empty, jumbled or packed, unstructured or divided.

The OSARO Difference



Smarter Automation



Low Risk



Hypercare

Relevant Industries

E-commerce, manufacturing, distribution, 3PL, CPG

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	800 picks per hour*
	Operator Interventions	Less than 4 interventions per 8-hour shift

Item Requirements	Weight	Min N/A Max 35 oz
	Dimensions	Min 0.4" x 0.4" x 0.4" Max 12" x 12" x 12"
	Barcode	Symbology: Universal Product Code (UPC) Minimum element width 6 mil
	Product Packaging	Non-porous (air doesn't pass through it) Sealed (doesn't open when picked)
	Item Storage	Single-SKU or mixed-SKU Packed, ordered, or jumbled Accommodates dividers

Facility Requirements	Floorspace	7.2 x 8.2 ft – Adjustable
	Power	480 v, 3 phase, 50 amps
	Temperature	Min 40° F Max 100° F
	Integrations	Integrates with bins/boxes, AMR/AGVs, ASRS, conveyors, and barcode scanner

*Assuming typical e-commerce product mix and optimal conditions (cell geometry, lighting, etc.).

OSARO offers a range of purchase and lease options.
Contact our Sales and Solutions team at osaro.com/contact

Supported Item Types



Boxes



Pouches/
Envelopes



Bags



Cylinders/
Bottles



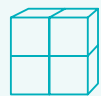
Tubes



Clamshells



Blister Packs



Multi-packs



Apparel
(in bags)