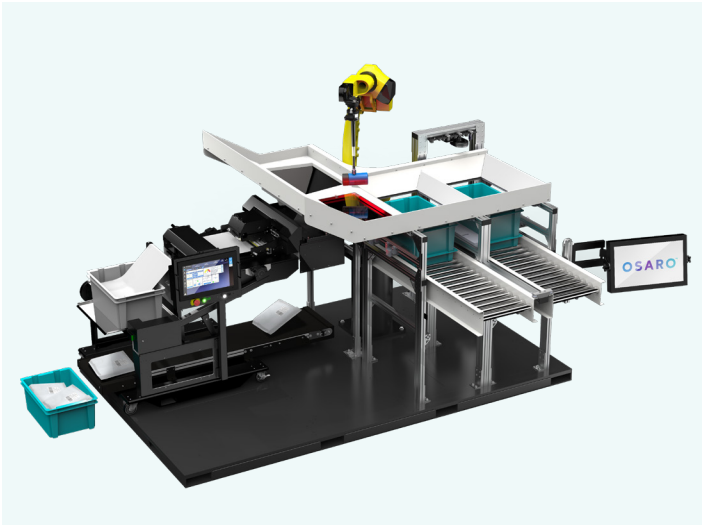




The OSARO™ Robotic Bagging System



Overview




Automate item bagging by pairing industrial robots powered by OSARO's sophisticated pick-and-place software with packaging equipment from leading automatic bagging partners for streamlined order fulfillment.

This replacement for manual bagging stations can package individual items at a rate of 350 parts per hour—human-equivalent performance with less overhead, no labor shortage issues, and superior ROI.




Primary Use Case

Single item order fulfillment in e-commerce applications using polybags.

Core Features

-  **Pack and ship the majority of e-commerce items without human contact**
Reliably process a vast range of item shapes, sizes, materials and packaging — e.g., shiny, reflective, deformable, illustrated.
-  **Handle items without previous registration**
Adapt to changing inventory and new items on the fly.
-  **Scan barcodes quickly and efficiently**
Scan and identify each item to ensure orders are fulfilled and recorded correctly.

Benefits

-  **Increase production without increasing headcount**
Unlike manual labor, the solution can perform 24/7, without breaks, overtime, or injuries.
-  **Fit into your business**
The system occupies similar floorspace, delivers equivalent throughput, costs less, and requires minimal changes in facility layout or product flow.
-  **Completely automate the order-fulfillment process**
The system can pick individual items from a jumbled mix of products, scan a barcode, communicate with the facility warehouse management system (WMS), place the item into a polybag, print and attach a label, and ship.

The OSARO Difference



Smarter Automation



Low Risk



Hypercare

Relevant Industries

E-commerce, 3PL, Factory

Cost Savings and Return on Investment

Up-front purchase or robot rental / robot as a service options available.

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 bagging stations (1-2 shifts per day and 24 operating days per month). Scan and identify each item to ensure orders are fulfilled and recorded correctly.

Service and Support

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

Expected Performance	Throughput (includes barcode scan and bag labeling/sealing)	350 picks per hour*
	Operator Interventions	Less than 3 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) Min element width 6 mil
	Product Packaging	Non-porous (air doesn't pass through it) Sealed (doesn't open when picked) Non-fragile (no protective packaging req.)
	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, ASRS, AMR/AGVs, conveyors

*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

Dry Goods, Boxed Items, Cosmetics



Pouches/ Envelopes

Prepared Foods



Bags

Loosely Packaged Items



Cylinders/ Bottles

Liquids, Aerosols, Food



Tubes

Creams, Pastes



Blister Packs

Pills, Toys, Electronics



Multi-packs

Consumer Packaged Goods



Apparel (in bags)

Shirt in Polybag