



# OSARO<sup>®</sup> Robotic Bagging System



## Overview




Automate and streamline item bagging by pairing robots powered by OSARO's smarter automation software with packaging equipment from leading partners.

This drop-in, pick-and-place replacement for manual bagging stations can package individual items at 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, this 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 items into a polybag, and print and attach a label for shipping.

**The OSARO Difference**



Smarter Automation



Low Risk



Hypercare

## Relevant Industries

E-commerce, manufacturing, distribution, 3PL

## Cost Savings and Lower Risk

**Cost Savings:** 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 bagging 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

<b>Expected Performance</b>	<b>Throughput (includes barcode scan and bag labeling/sealing)</b>	350+ picks per hour*
	<b>Operator Interventions</b>	Less than 0.1% operator intervention rate

<b>Item Requirements</b>	<b>Weight</b>	<b>Min</b> N/A <b>Max</b> 35 oz
	<b>Dimensions</b>	<b>Min</b> 0.4" x 0.4" x 0.4" <b>Max</b> 12" x 12" x 12"
	<b>Barcode</b>	Symbology Universal Product Code (UPC) Min element width 6 mil
	<b>Product Packaging</b>	Non-porous (air doesn't pass through it) Sealed (doesn't open when picked) Non-fragile (no protective packaging required)
	<b>Item Storage</b>	Single-SKU or mixed-SKU Packed, ordered, or jumbled Accommodates dividers

<b>Facility Requirements</b>	<b>Floorspace</b>	7.2 x 8.2 ft – configurable
	<b>Power</b>	480 v, 3 phase, 50 amps
	<b>Temperature</b>	<b>Min</b> 40° F <b>Max</b> 100° F
	<b>Integrations</b>	Integrates with bins, ASRS, AMRs/AGVs, conveyors

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

**OSARO offers a range of purchase and subscription options.**

Contact our Sales and Solutions team at [osaro.com/contact](https://osaro.com/contact)

## Supported Item Types



Boxes



Pouches/  
Envelopes



Bags



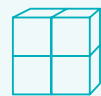
Cylinders/  
Bottles



Tubes



Blister Packs



Multi-packs



Apparel  
(in bags)