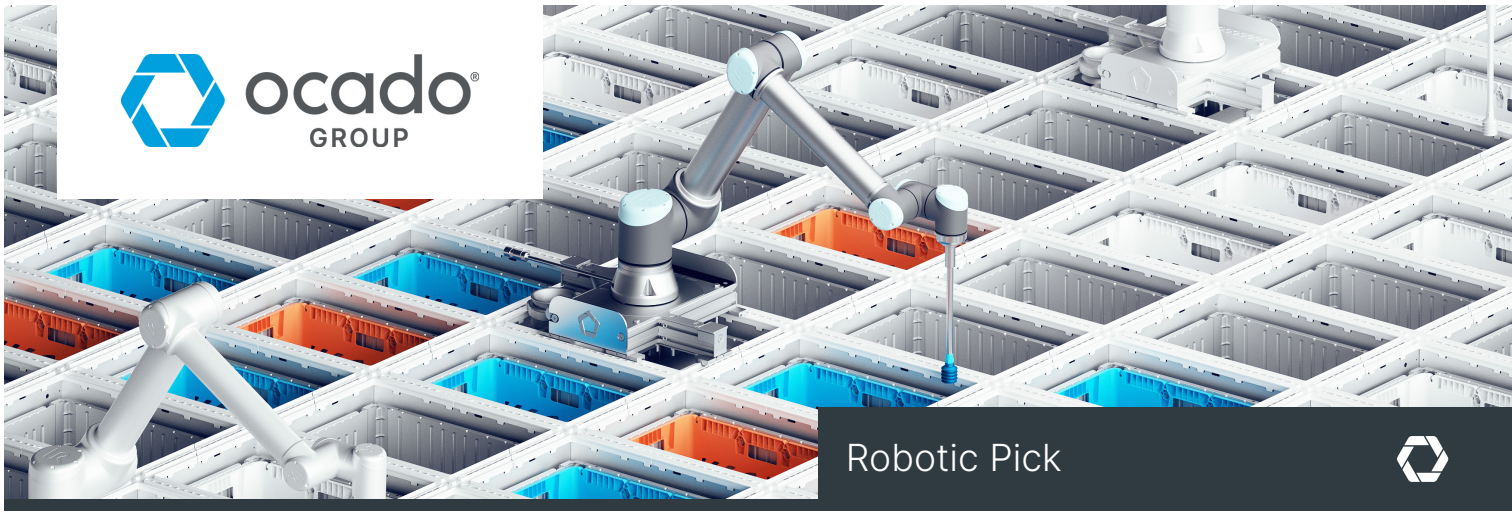


Robotic Pick

Unlock Up to 99% Labor Savings With Robotic Pick, Directly On The Grid.

Today's fulfillment operations face unprecedented challenges from workforce instability: rising wages, inconsistent availability and output, and wasted time re-training staff due to high turnover.

Robotic pick is an automated picking solution available 24/7 to alleviate the effect of labor fluctuations and unlock significant cost savings.

Combining cutting-edge computer vision and advanced sensing, robotic pick identifies, picks and packs items from storage bins without prior knowledge of what they contain. Using deep reinforcement learning, robotic pick trains itself to make faster, more dexterous handling decisions on the fly for new, potentially delicate items—to protect from damage and maximize packing density.

With each pick arm occupying just a single cell on top of the grid, robots are able to coordinate and travel efficiently to fetch and drop off inventory into robotic pick's eight surrounding grid cells. This maintains optimal traffic levels and unlocks a very cost effective solution.

Robotic pick uses cutting-edge computer vision, sensing and machine learning (ML) to pick and pack inventory vastly more efficiently than traditional methods by maintaining consistency, accuracy and availability.

Key Features

ROBOT COLLABORATION:
Coordinates with robots on the grid to pick and pack in up to eight cells

SMART RECOGNITION:
Can be configured to scan and identify items to ensure exceptionally high order accuracy

MACHINE LEARNING:
Quickly adapts to handle new, even delicate, items

HIGH-DENSITY PACKING:
Closely packs items to keep tote space efficiently filled and maximize system economics

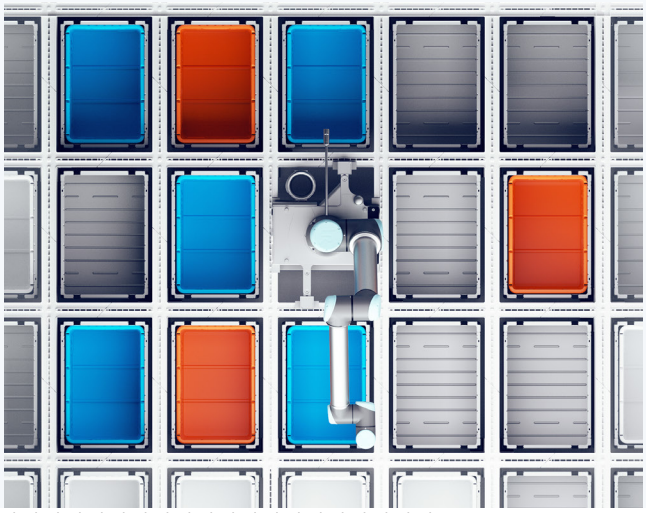
24/7 HUMAN SUPPORT:
Backed-up by a 'remote pilot' to intervene and handle rare exceptions



Visit ocado-ia.com for additional information and to talk to an expert

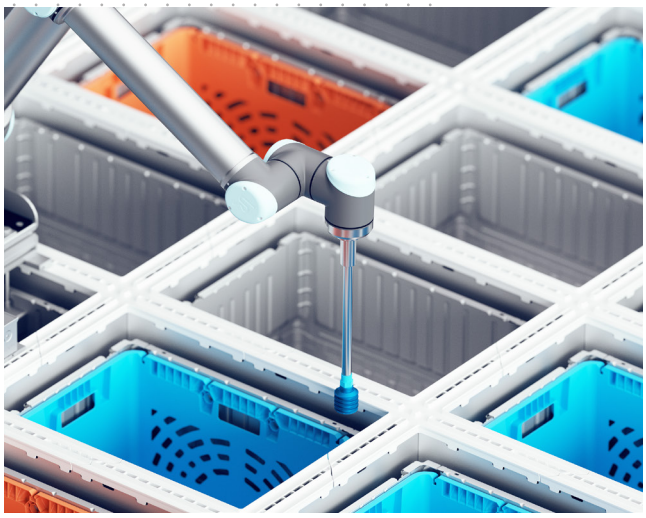
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ROBOTIC PICK:

Unlock Up to 99% Labor Savings With Robotic Pick, Directly On The Grid.



Technical Specifications

PERFORMANCE:

Pick rate: Up to 630 units per hour
Uptime: 98+%
Operating temperature: 0 to +45°C
Operating humidity: 20-80%

ORDER HANDLING:

Payload: 1.5kg
Minimum item dimension: 2.5cm
Maximum item dimensions: Up to 60.7cm x 40.9cm x 40.9cm

RESOURCE REQUIREMENTS:

Power consumption: 5.2amps at 120V
Air: 43.1 l/min (avg. at 6 barg, 20°C)
Network: Single fiber connection

COMPONENTS:

- Robotic arm (UR10e)
- Bespoke end effector
- Passively managed trunking system - Machine vision sensors
- Shared on-premise ML compute
- Grid interface assembly
- Under-grid connection panel

CERTIFICATIONS:

- CE & NRTL Approval

Key Statistics

7x
Simultaneous Order Preparations

~100%
Item Recognition Accuracy

Visit ocado-ia.com for additional information and to talk to an expert

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