



Automated Palletizing

Streamline operations, improve productivity, and enhance safety standards in your facilities with automated palletizing capabilities. As the cost to maintain manual environments continues to grow, so does the risk of employee safety. Automation is the answer.

Robotic Palletizing Solutions

At Plus One Robotics, we believe in employing robots in situations where they provide the greatest impact. Handling packages with the highest ergonomic risk to humans and where humans ‘just don’t want to do that kind of work’ are two areas where automated palletizing supports our customers.

Plus One’s Palletizing solutions leverage AI models trained on the data from over one billion real world picks to support case variability unique to your organization. Plus One’s automated palletizing solution gets better with each and every pick, creating stable, dense pallets to optimize shipping costs across your supply chain.

Harnessing the PickOne™ AI-enabled software, robots can pick from a conveyor and place to an active pallet. When coupled with Yonder™, Plus One’s human-in-the-loop technology, you also gain real-time exception handling and remote supervision.

Palletizing Features:

- Maximize Packing Density
- Pallet Stability
- Optimized Weight Distribution
- Intelligent Gripping Strategy
- Intentional Multi-Picking
- Place Verification
- Prioritized Placement of Shipping Labels
- Offset Picking
- Empty Pallet Detection
- Slip Sheet Placement
- Human-in-the-Loop
- AI-Based Model

Use Cases

MIXED

Efficiently handle diverse packages and containers to build dense, stable pallets. This palletizing solution is designed to accelerate pallet building with “on-the-fly” package sets.

RAINBOW

Simplify the process of building pallets despite their packaging variances. PickOne doesn’t limit your automation to specific package types or colors.

SINGLE SKU

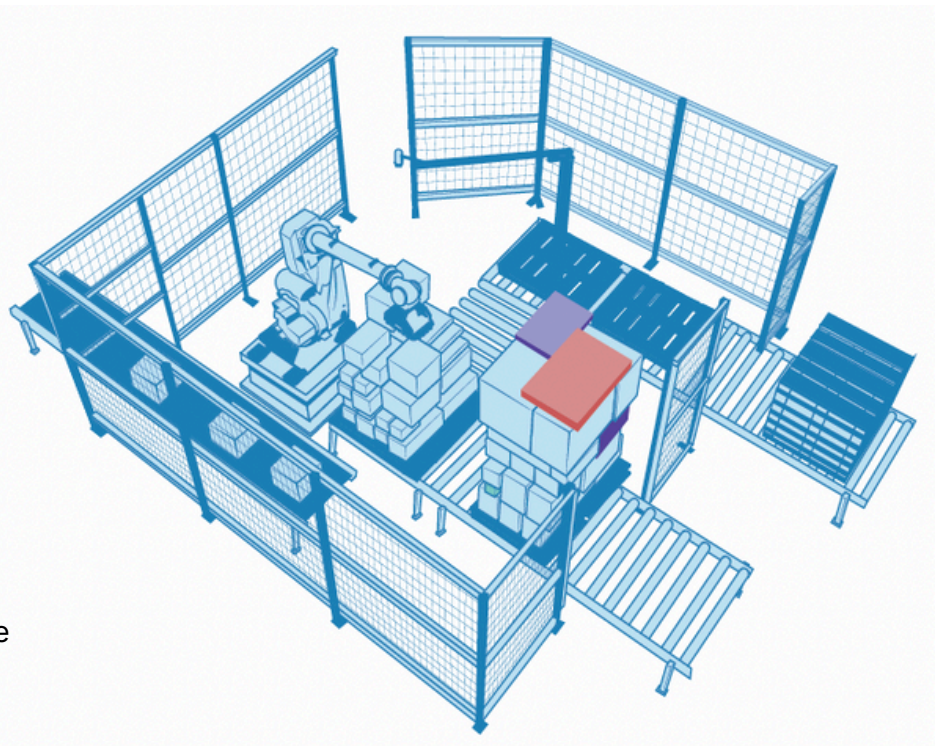
Achieve accelerated truck turnaround time with automated pallet building. Whether heavy, awkward or 8 foot tall pallets, alleviate workers from injury-prone operations.

What to Expect

Initiate operations in less than a month with our pre-engineered, fully integrated hardware and software solutions. Alternatively, tailor a system to meet your specific requirements.

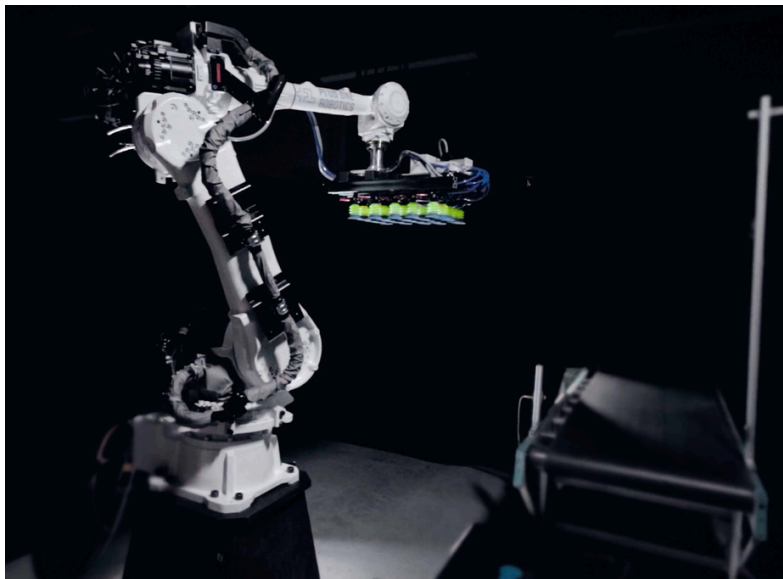
Our pre-engineered solutions are designed for ease of use, the system can be unloaded using standard material handling equipment.

Simply link components to a power source, configure pneumatic systems for optimal performance and you will be palletizing a diverse range of items.



The Application Includes:

PickOne™ Vision Software, Gripper, Robot Arm, Pallet Dispenser, Vacuum System, Lighting, Vision Sensors, HMI, Conveyance, Safety



Specs

Typical Throughput: 350-500 PPH

Max. Parcel Weight: up to 50 lbs.

Min. Parcel Size: 6" x 6" x 6"

Supported Item Types:

Boxes, over-wrapped trays, cartons, bags

Supported edge cases:

- Banded cases
- Cases with gaps
- Oblong packaging



Robots work. People rule.

Plus One Robotics provides the fastest and most reliable parcel handling robotics platform in the world. Founded in 2016 by computer vision and robotics industry experts, Plus One's intelligent solutions combine computer vision, AI, and supervised autonomy to pick parcels for leading logistics and e-commerce organizations in the Global 100.