PalletizUR
A portable, collaborative palletizing system.

palletizur.com

VERSION 2.0
COLLABORATIVE PALLETIZER

A robotic palletizer is a robotic cell that is designed to stack boxes and other standardized products onto a pallet for final shipment. By using robots for palletizing, existing employees are able to work value added tasks - let the robot do the work!

Introducing the PalletizUR™

The PalletizUR combines a robotic palletizing cell with a collaborative robot. This mobile system requires no written code to program and is ready to work in minutes!

Palletizing with a Collaborative Robot

Being collaborative means it works along-side workers, cage-free! This allows a palletizing robot system to be added to an existing line without additional guarding or fencing making set-up simple and non-invasive.

*Recommended: A safety risk assessment performed by end-user

Eliminate Manual Operations

By eliminating the manual processes of stacking boxes, workers are removed from a job where ergonomic injuries are likely to occur. This frees a valuable skilled laborer to work on a higher value-added task.

Position.
The compact design makes it capable of being positioned anywhere within the reach of the out-feed conveyor.

Plug-in.
The PalletizUR requires a single, standard, 115 volt outlet and an airline - no specialty connections!

Production.
After the box detection sensor is mounted to the conveyor the system is ready for production.
**SYSTEM FEATURES**

The PalletizUR is a flexible palletizing system that provides end-users the features needed to quickly setup a robot for packing and palletizing boxes or other standardized products for final shipment.

- **DURABLE AND PORTABLE**
  Easily move with a fork lift or pallet jack.

- **MINIMAL INTEGRATION**
  A plug-and-play system that is ready to work in minutes.

- **CUSTOM END-EFFECTORS**
  Easily swap end-effectors as products change.

- **PALLETIZUR™ SOFTWARE**
  Drag-and-drop pallet configuration.

- **CONTINUOUS OPERATION**
  2-pallet reach for continuous production.

- **AUTO-HEIGHT ADJUSTMENT**
  Auto adjustment to pallet height specs.

**ROBOTIC PALLETTIZING SOFTWARE**

**NEW WITH VERSION 2.0: No teach pendant!**

Using the OEM Version of the Universal Robot 10e cobot, the entire system is controlled through one HMI - creating an easier user-experience for programming.

**PalletizUR™ Software Features**

- Easy-to-use graphic interface
- Drag and drop pallet array building
- Copy and rotate options for layer stacking
- Quickly switch between A/B pallets
- Save hundreds of pallet programs
- Program remotely - load in through USB
MACHINE SPECIFICATIONS

The PalletizUR™ details below are based on a standard shipped unit. Additional safety devices and guarding can be added if your application requires.

### Machine Details
- Maximum reach: 52”
- HMI specs: 12.1” Touch Screen
- Repeatability: ¼”
- Mobility: Fork pockets for pallet jack or forklift
- Safety: Optional guarding, safety scanners, etc.
- Stainless steel enclosure (HMI): not rated
- Digital inputs available for interfacing: 5
- Digital outputs available for interfacing: 1
- Pallet sensors: Photoeyes for pallet presence
- Power: Single phase, 115 VAC, 15 amps

### Pallet Dimensions
- Maximum pallet height: 70” (application dependent)
- Maximum pallet length: 48”
- Maximum pallet width: 40”

### Carton/Payload
- Minimum box size: 8” x 8” x 3”
- Maximum weight: 18 lbs (+/- tooling weight)
- Maximum box size: limited by weight

### Cycle Time
- Average 5 cycles per minute*
* Higher rates can be met with additional safety devices.
* A safety assessment should be performed at installation.

### Conveyor Dimensions
- Height from floor: 24” - 36”
- Placement from base: 12” - 18”
- Optional: single & dual nest conveyor end

### Standard Safety
The PalletizUR runs collaboratively out of the crate with no additional safety required.
*Recommended: A safety risk assessment performed by end-user

### Additional Safety
- Area Scanner (up to 4)*
  Slows robot if someone is in work area
- Hard Guarding*
  Complete guarding for work-cell
* All available for additional cost

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### About PalletizUR™

PalletizUR™ is an off the shelf, palletizing solution designed by ONExia Inc. in Exton, Pennsylvania.

ONExia, a regional integrator of Universal Robots saw an increased demand for palletizing systems in various applications.

By combining their expertise in precision positioning, robotics, and software they were able to create a product that gives end-users the ability add a palletizing solution into their new or existing packaging line with no integration and no programming!

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