



# Attollo Series

Portable End of Line Palletising Cell

# Introducing Attollo

The Active8 Robots Attollo Palletising System has been designed with flexibility in mind and represents the next generation in agility, with a small footprint and portable palletising design.

The Attollo system consists of a light-weight six degree of freedom robot arm (within a fully enclosed cell for maximum safety) that transports products presented to the infeed conveyor onto a variety of pallet formats.

The system incorporates a standard vacuum picking head that handles a wide variety of box types, additionally custom tooling can be provided for special use cases where required.

The castor system adds additional flexibility as the unit can quickly be unlocked and repositioned on other lines / locations to maximise its versatility.

## Deliverables

- Fully Automated Palletiser
- Full training provided
- Operator Manual
- Maintenance Manual
- Installation and Commissioning

## Installation and Commissioning

Setup and Benchmark testing is usually done prior to delivery with final assembly and commissioning on site.

## Able to palletise

**8 Boxes per minute**

**480 Boxes per hour**

**3840 Boxes per shift**



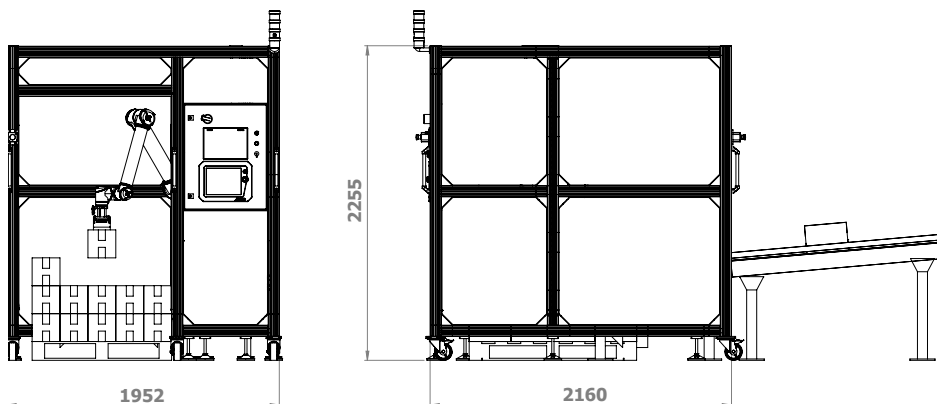
# User Process

A simple intuitive user-friendly graphical (touch screen) interface means you can change product SKUs on the fly, adding new variations and layer formats with ease. Giving full input control of box dimensions; weight; pallet types; number of layers, height and box arrangements without any additional resetting or programming changes.

The robot picks 1 box from the conveyor belt each time and manipulates it using the EOAT to organise it on the pallet.

The robot places the box onto a pallet until the pallet is fully loaded and ready to be removed and replaced by an operator, or even an Automated Intelligent Vehicle (AIV). The process then can be repeated or changed for another SKU or pallet.

- Redeployable: No bolt down required, wheel to end of the line and plugin
- Weight: 550kg aprox.
- Single phase power
- Runs on factory air
- Configure pallet stacks with HMI, no programming needed
- Up to 10 pre-programmed box/pallet stacking patterns
- Easy tool change to swap to alternative tools for varying box types and designs
  - Pallet Size: 1200x1000mm
  - Max pallet height: 1400mm
  - Box Specification HxWxL
    - Min: 100x150x150mm - Max: 400x400x600mm
- Max Box load: 8kg
- Light guarded Pallet and Box entries
- Robot and Vertical Axis are fail-safe so as to remain in place in the event of power loss.
- CE Certified.



# Design Concept

The Attollo Palletiser has been designed to have a minimal effective footprint. It is the smallest footprint mobile palletiser system available on the market.

With all moving parts protected within a fully enclosed cell, system safety does not rely on user software settings and meets all the certification requirements of the machinery directive.

# Cycle Time

Indicative cycle times of 8-10 sec are to be expected. Speed will vary from case to case based on distance travelled to the putdown location and the weights involved. Illustrative product throughput rates are therefore as follows:

- Single picks at 6 - 7.5 units per minute
- Double picks at 12 - 15 units per minute
- Triple picks at 18 - 22.5 per minute
- Quadruple picks at 24 - 30 per minute

Where possible we request that we have 1 or 2 pallets of your product to calibrate the palletiser prior to delivery.

# Timescales

6-8 weeks from receipt of order notwithstanding component and supplier lead-times which may vary.

# Upgrade Options

- Multidrop capability: The ability to pick multiple boxes from the infeed and drop them individually on the pallet with moves or rotations between drops, this allows for faster cycle times in the following situations: complex tessellation patterns, or odd number of boxes per layer.
- Clean room & hygienic versions available.
- Layer boards can be supported.

## Specifications

Average speed	Up to 8 cycles per minute
Box load	Up to 8kg
Max. Pallet stack height	Up to 1.8m
Min. Ceiling height	2.4m
Max. Pallet size	1.2m x 1m
Head	200x120mm foam vacuum head with check valves
Robot	UR10 e-Series 6 axis robot
Z slide	Precision linear slide
HMI	Industrial touch screen PC
Compressed air	6 bar min, oil free, 6mm pipe connection
Power	Single phase 16A, 230V AC, 50Hz
Box size minimum	100x100x100mm
Box size maximum	400x500x600mm
Control circuit	24V DC
Safety features	Fully light guarded on box and pallet entry, CE certified

