

ROBOTICS

# **Robotic Depalletizer**

# ABB's ultimate solution for faster and simpler depalletizing



ABB's Robotic Depalletizer with machine vision enabled by proprietary ABB machine learning software combined with ABB robots. Configurations with 4- and 6-axis robots to solve a wide array of depalletizing tasks with varying box sizes, pallet patterns and heights.

### About the solution

The solution includes pre-integrated software and vision technology allowing customers to solve depalletizing tasks in different layouts with high variation while requiring little engineering efforts.

The solution is integration ready and requires final layout, safety considerations, sensor periphery to allow collaborative use when required.

# Versatility

Can pick any type of box different in size, weight, shape and color. Adapts towards changing pallet patterns and SKUs – achieving robust performance without manual intervention/re-integration.

#### **Performance**

Up to 2.8-meter pallet height; 750 cycles/hr peak; 30 kg max payload.

#### **Digital Twin**

Simulation of real life depalletizing cases and environments enabling virtual commissioning.

## **Customer Segments**

Logistics, Consumer Packaged Goods, Retail, E-commerce, Healthcare.

#### **Applications**

- Depalletizing of mixed item, single item and rainbow pallets,
- · Depalletizing into storage,
- Depalletizing for re-palletizing (mix items on new pallets),
- · Depalletizing for order picking from pallet,
- Depalletizing for sorter infeed.

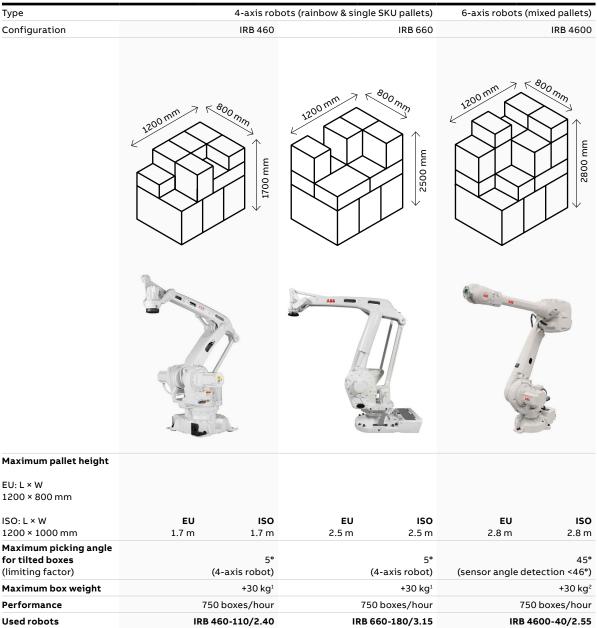
#### Configurations

3 robots covering all possible:

- Pallet types,
- Patterns,
- · Single SKU,
- · Rainbow and mixed,
- Offering required versatility,
- 4- and 6-axis.

#### Additional offering

Mobile robot ready - robotic depalletizing can be integrated with various pallet in-and outfeed methods including standard interfaces to facilitate pallet in-and outfeed with mobile robots, conveyors or manual equipment.



¹scalable modular gripper with 5 kg payload per suction zone

<sup>&</sup>lt;sup>2</sup> standard gripper with 6 suction zones with 5 kg payload each