High speed palletizing -

PalletPack 460 is a package of pre-engineered products designed to make robotic end-of-line and bag palletizing solutions more accessible and easier to use. The IRB 460 robot is the fastest of its kind and its small footprint makes it ideal for fitting into existing packing lines.

**Easy way into automation**

ABB’s PalletPack 460 is a package of pre-engineered products configured for end-of-line palletizing that greatly improves ease of use for integrators and lowers the hurdle to entry into automation. The function package, available for either high-speed bag palletizing or compact end-of-line case palletizing, consists of the IRB 460 palletizing robot, a Flex-Gripper (either the Claw or one-zone Clamp gripper), an ABB PLC, a Jokab Safety PLC, support software, user documentation & a FlexPendant that features a graphical HMI.

**The world’s fastest palletizing robot - the centerpiece**

The IRB 460 robot is a 4-axis robot that is the fastest of its kind. With a reach of 2.4 meters and 110-kilogram capacity, this compact robot’s small footprint makes it ideal for integration into existing packing lines.

**Wizard enabled set-up and programming**

A true provider of value in the PalletPack 460 is the program wizard. The wizard enables PLC programmers to program the robots, so you do not need to learn robot programming to install a robot cell, and you don’t get any of the complications that can arise when special skills are required. Instead the wizard makes it similar or the same as PLC programming.

**Cost efficient and easily integrated**

This function package offers pre-engineered, integrated hardware with full documentation, lowering the integration cost and significantly reduces engineering time since there is no need to prepare additional documentation and drawings. Comes with all documentation as standard and the wizard makes creating new programs really easy. All set-up, programming and operation are done via the standard ABB Robotics HMI, the FlexPendant. This feature is a graphical interface with four user-friendly screens: pallet and pick set-up, pallet pattern set-up, path profile edition and movement edition. The PalletPack 460 ensures that robotic palletizing solutions are cost effective and easy to integrate, program and use.

**Complete palletizing solutions**

By combining the IRB 460 high speed palletizer with the ABB FlexGripper - Claw and RobotStudio with Palletizing PowerPac you get the fastest robotic bag palletizing system in the world. With all elements working together path accuracy is optimized to ensure that your products will not only be handled very fast, but also with the utmost care. With an ABB robot solution palletizing will never be a bottleneck; either now or in the future.
Palletware wizard main functionality
• Create and adjust jobs
• Train robot movements
• Create and adjust pallet patterns
• Control palletizing cell devices
• Control and supervise cell safeties and faults
• Request robot commands
• Handle production changeover
• Pick up items, pallets, and slip sheets and place them according to predefined patterns

Palletware wizard requirements
The PalletWare software is delivered on a CD, which contains all the software needed to install PalletWare and the necessary documentation. PalletWare only supports the IRC5 robot controller. The RobotWare software is pre-installed on the robot controller and is also supplied on a CD with the controller.

The required RobotWare options include:
• FlexPendant Interface
• Profibus or Profinet FieldBus adapter

PalletWare specification
Handling capacity 110 kg
Reach 2.40 m
Number of axes 4
Protection IP67
Mounting Floor
IRC5 controller variants Single cabinet
Integrated signal supply Optional
Integrated air supply Optional

Physical
Dimensions - base 1007 x 720 mm
Robot weight 925 kg

Performance
Position repeatability (RP) 0.20 mm
Path repeatability (RT) 0.11 mm

Working range

FlexGripper - Claw
Handles products 1
Max. weight per lift 50 kg
Gripper weight 60 kg
Finger pitch 80 mm
Bag height range 120 - 250 mm
Bag length range 300 - 750 mm
Bag width range 250 - 450 mm
Cable rotation range ±180°
Air pressure 4 - 6 bar

FlexGripper - Clamp 1-zone
Handles products 1 - 2
Max. weight per lift 40 kg
Gripper weight 45 kg
Finger pitch n/a
Case height range 150 - 330 mm
Case length range 200 - 650 mm
Case width range 200 - 500 mm
Cable rotation range ±180°
Air pressure 4 - 6 bar

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