

FlexGripper - Vacuum

Palletizing gripper



The FlexGripper - Vacuum is a simple plug-and-play extension to the ABB IRB 460 or IRB 660 palletizing robots. For maximum palletizing efficiency, the gripper can handle 40 kilograms and up to 10 products at the same time.

Wide-ranging flexibility

The IRB 660 and the compact IRB 460 palletizing robots can be made even more effective for end-of-line palletizing applications with the addition of the FlexGripper - Vacuum, handling 40 kilograms and up to 10 products at the same time.

Easy to integrate, easy to use

The FlexGrippers are easy to install and program. The robot HMI, FlexPendant, comes pre-configured with FlexGripper input/output signals which greatly reduces both set up and programming time. And the graphical user interface simplifies the testing of palletizing routines. For example a FlexGripper pick-and-place test can be carried out with just a single click.

Faster, more accurate programming

ABB's range of palletizing robots and FlexGrippers are also fully supported by the RobotStudio Palletizing PowerPac. This user-friendly, PC based software, comes pre-configured with all ABB robots and gripper models. It allows users who have little or no robot programming experience to create programs and simulations, and design complete palletizing installations. This enables a palletizing system to be configured rather than programmed, and saves up to 80 percent in commissioning time.

Speed and precision

The FlexGripper - Vacuum uses sensors to verify the presence of cases in 10 separate, programmable zones. The vacuum rails are adjustable for different case sizes, and the gripper includes a built-in pallet gripper as an option. The gripper comes complete with all air hoses and signal cables and is ready to plug-and play on your chosen robot model.

Unrivalled experience and global support

With more than 30 years of experience in the palletizing sector, ABB has sales and service organization in 53 countries and over a 100 locations.

Features and benefits

- 10 separated controlled vacuum zones.
- Sensors to verify presence / absence of cases.
- Adjustable vacuum rails for different case sizes.
- Handles up to 10 products at one time.
- Built-in pallet claw, slip sheet picker, pallet search cylinder as an option.
- Completely assembled with hoses and cables and ready to plug and play.
- Graphical User Interface (GUI) provided on robot FlexPendant for easy gripper setup, tuning, and production monitoring.

Main application

Case palletizing

Specifications

Handled products	1-10
Max. weight per lift	40kg
Gripper weight	70kg
Maximum product size (LxWxH)	1200 x 500 x 300 mm
Minimum product size (LxWxH)	200 x 200 x 10 mm
Number of zones	10
Cable rotation range	+ - 180°
Air pressure	5 - 6 bar

Basic Configuration

Case picking only

Add-on options

Slip sheet picking: 1000 mm x 1200 mm
Pallet picking: GMA/AUS/EUR/ISO
Search Cylinder

Remarks

1. The products to be lifted with the vacuum gripper must have a dense and smooth surface, and a rigid structure (e.g. cardboard case) on which the vacuum cups can grip.
 2. Due to variations in size, weight, design, surface, rigidity, porosity and centre of gravity, an example of the type of product to be palletized should always be sent to LPG Robots and Applications in order to secure functionality.
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