

# FlexGripper - Claw

## Palletizing gripper



The FlexGripper-Claw is a simple plug-and-play extension to the ABB IRB 460 or IRB 660 palletizing robots for high-speed bag palletizing applications. Stainless steel parts make it perfect for use even in the harshest conditions.

### Wide-ranging flexibility

The IRB 660 and the compact IRB 460 palletizing robots can be made even more effective for bag palletizing applications with the addition of the FlexGripper-Claw. Ideal for use in even the harshest conditions involving chemicals and salt, the FlexGripper-Claw can handle bag weights up to 50 kilograms and varying bag shapes and contents - from rice to gravel, and from plastic to cement.

### 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 RobotStudioPalletizing 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-Claw uses pressure plates to ensure the bags are moved with speed and precision. It 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

- For high speed bag palletizing up to 50 kg payloads.
- Pneumatically actuated mechanism to clamp a bag from the sides for easier control and better palletizing pattern.
- Bag centering plates provided with 100 mm adjusting stroke for different bag heights.
- Clamp pads that contact the top of the bag to hold it in position.
- Product contacting parts made of stainless steel
- Dresspack package for easy plug and play
- Graphical User Interface (GUI) provided on robot
- FlexPendant for easy gripper setup, tuning, and production monitoring.

### Main application

Bag palletizing

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**Technical information**

**Specifications**

	IRB 460 With Side Guide	IRB 460 Without Side Guide	IRB 660 With Side Guide	IRB 660 Without Side Guide
Handled products	1	1	1	1
Max. weight per lift	30 kg	40 kg	50 kg	50 kg
Gripper weight	80 kg	66 kg	80 kg	66 kg
Finger pitch	75 mm	75 mm	75 mm	75 mm
Bag height range	90 - 200 mm	90 - 200 mm	90 - 200 mm	90 - 200 mm
Bag length range	300 - 750 mm	300 - 750 mm	300 - 750 mm	300 - 750 mm
Bag width range	250 - 500 mm	250 - 500 mm	250 - 500 mm	250 - 500 mm
Cable rotation range	+ - 180°	+ - 180°	+ - 180°	+ - 180°
Air pressure	5 - 6 bar	5 - 6 bar	5 - 6 bar	5 - 6 bar

**Configurations**

Default	Claw gripper without side guide
Add-on option	Side guides

