

FlexGripper - Clamp Palletizing gripper

The FlexGripper - Clamp is a simple plug-and-play extension to the ABB IRB 460 or IRB 660 palletizing robots for high-speed case palletizing applications. For maximum efficiency, the gripper is available in one or two zone versions.



Two versions for maximum efficiency

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 - Clamp. There are two versions of the gripper. For a lean configuration handling light-weight products, the one-zone clamp gripper version is ideal; the two-zone version is ideal for full-row palletizing of up to 60 kilograms.

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

Both FlexGripper-Clamp versions use sensors to verify the presence of cases, and their wide clamping strokes are adaptable to different case sizes. The included hook units ensure secure handling of the cases when moving at high speeds. 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 25 years of experience in the palletizing sector, ABB has a sales and service organization in 53 countries and over 100 locations.

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Highlighted features

- Targeting for heavy single case.
- Lean configuration with light weight.
- Sensors to verify presence / absence of one case provided.
- Hook unit provided to ensure case clamping with high moving speed.
- Wide clamping stroke to adapt to different case size.
- Robot mounting plate for IRB 460 and IRB 660 included.
- 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 applications

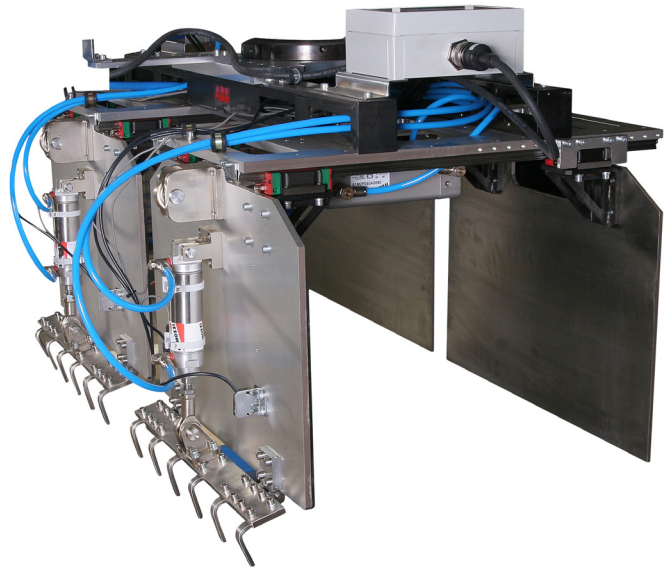
Case palletizing

Specification

Version	1-zone	2-zone
Handled products	1-2	1-5
Max. weight per lift	40 kg	60 kg
Gripper weight	45 kg	80 kg
Case height range	150 - 330 mm	150 - 330 mm
Case length range	200 - 650 mm	200 - 1200 mm
Case width range	200 - 500 mm	200 - 500 mm
Cable rotation range	+- 180°	
Air pressure	4-6 bar	



1-zone version



2-zone version