

RPL SERIES
Robot palletizer

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The CHRONO-PAL™ **RPL SERIES robot palletizers** are the most efficient robotic cells for virtually any palletizing need. We have combined our innovative engineering and control capabilities with our leading edge bag preparation and pallet handling technology to offer the best solution for a diverse range of palletizing applications.

The gripper manufactured by Chronos BTH allows the **RPL SERIES** to satisfy the many different palletisation requirements of modern packaging.

Our robots can palletise up to 2200 bags per hour in a multi pick-up configuration and the heavy duty robotic cell can simultaneously gather bags, bales or containers from many different incoming product lines. It can be

configured to fit in confined spaces to palletise incoming product. The easy-to-clean system is characterised by its wide flexibility of use and low maintenance requirements. Infeed conveyors are designed to be supported with a single framework, thereby ensuring optimised and easy cleaning.

The Chronos BTH product line is compatible with all common standard industrial pallets. All our equipment is PLC controlled with user-friendly human machine interfaces (HMI). Key features include: quick changeover of palletizing patterns via stored recipes, different layer pattern versatility and compliance with CE regulations.



Applications

Boxes, bundles, cases, cans, drums, trays, bags, bales, etc.

Features and benefits

- Automatic bag width adjustment to automatically palletise multiple bag sizes with finger or multi pick-up gripper
- Ideal solution for high capacity requirements in highly corrosive environments
- Versatility in layout configuration: multiple stack positions, pallet position pick-up, inter-layer sheet (paper, PE) pick-up, bag reject (metal, weight) and depalletizing with vacuum gripper
- Minimised/flexible footprint
- Quick changeover of palletizing patterns via stored recipes
- User-friendly operator interface (colour touch screen)
- Empty pallet and slip sheet handling by the robot itself
- Secure robotic cell including safety fences with interlocked access door and light curtains
- Numerous layout configurations
- Gripper (tool) to handle bags and boxes at the same time
- Automatic pattern configurator (boxes/bundles)
- Low noise environment
- Ultrasonic sensor to measure the pallet load height during palletizing cycles for controlled discharge height from bag to pallet*

* This feature is important for applications where bag thicknesses change due to variations in the bagging process.

Options

- Bag gripper with empty pallet pick-up device
- Device to deposit slip sheets on the pallet and also in between the layers



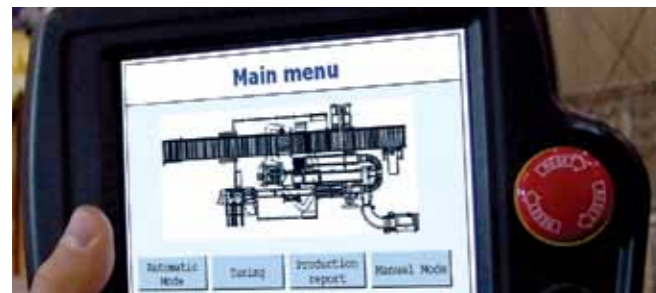
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Several grippers are available for rigid and flexible palletizing

Vacuum gripper: Gripper for bales, bags or boxes/ bundles using suction cups

Finger gripper: Gripper for bags supplied with automatic bag width adjustment system

Multi pick-up gripper: Servo motor driven gripper, with the motor providing the fifth axis of the robot system. This gripper provides optimum alignment of the bags on the external side of the pallet



User-friendly operator interface (colour touch screen) used as main interface on standard cell



Special finger gripper with bag deposit by pusher



Vacuum gripper for bales, bags or boxes

Bundle gripper: Gripper for bundles with integral height measuring system to automatically compensate for product density variations

Bucket gripper: Servo motor driven finger gripper, with the motor providing the fifth axis of the robot system

Drums and bags gripper: Innovative mechanism incorporating a ring gripping system for drums and finger gripper for bags



Finger gripper equipped with optional automatic bag width adjustment system



Bundle gripper with bundle height measuring system to compensate product density variations



Dual function gripper: finger for palletizing and vacuum for depalletizing

Production rate

Up to 2200 bags per hour*

* Depending on bag, characteristics, pallet height, layout configuration, etc.

Technical data

Bag sizes:	Length: 300 to 1000 mm Width: 200 to 500 mm Thickness: 70 to 300 mm
Bag weights:	Up to 150 kg
Layer dimensions:	Up to 1300 x 1100 mm
Full-pallet load height:	2800 mm (including pallet)
Load weight:	2500 kg
Operating pressure:	6 bar
Electrical requirements:	3 AC / 400 V / 50 Hz
Ambient temperature:	+5°C to +40°C
Noise level:	< 75 dB (A)



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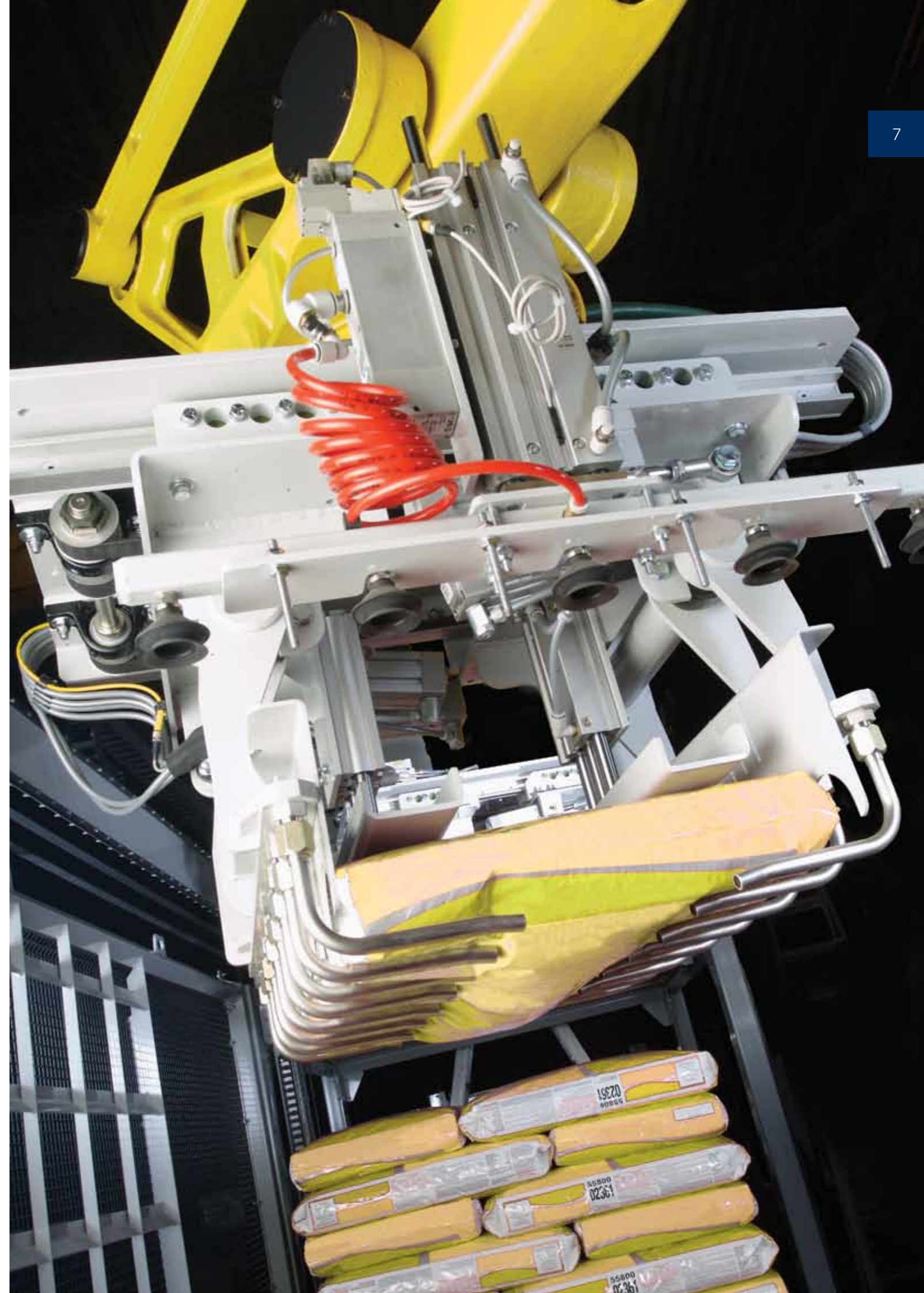
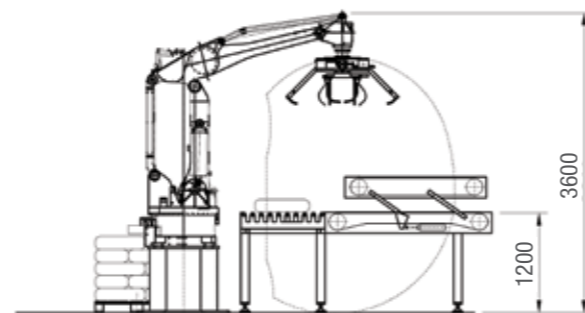
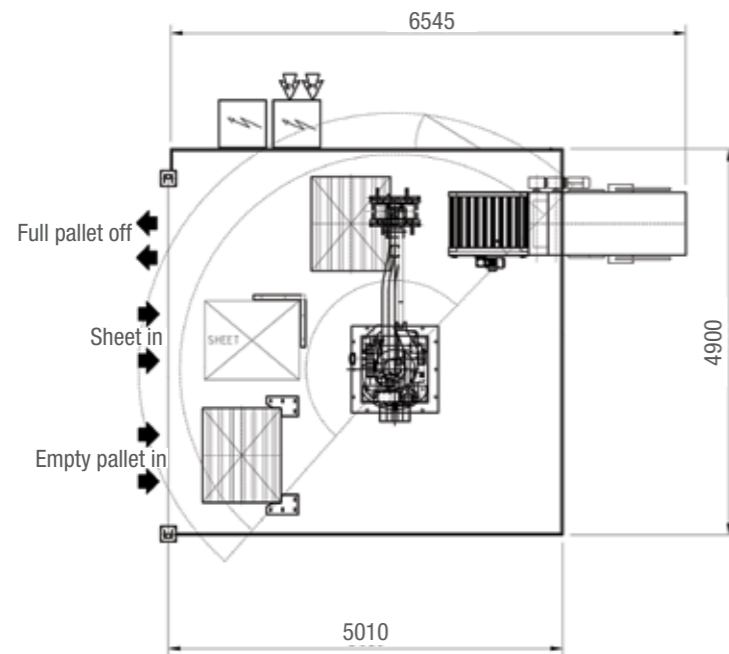
PALLETIZING
SYSTEMS

FANUC Robotics

Premier Tech's Industrial Equipment Group (IEG) has developed a strategic partnership with component supplier FANUC Robotics, an international leader in the manufacturing of intelligent robotic solutions. Indeed, FANUC Robotics officially announced in 2008 that IEG was now a member of the **Elite Group of Strategic Market Specialists**. A few of the criteria that have placed IEG at this high level are its market leadership, its high degree of customer satisfaction, its cutting-edge designs, its superior quality, its innovative approaches, its out-of-the-box thinking, its compliance with all safety standards, and record sales.



Typical layout



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