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AR SERIES

Robotic palletizing cell



PALLETIZING
SYSTEMS

Robotic Palletizing Cell

The **AR Series Robotic Palletizing Cell** is a flexible palletizing system offering the best solution to any palletizing need. Premier Tech has deep mechanical, electrical and software designing and manufacturing capabilities, all under the same roof (more than 40 technicians and engineers), and offers the widest range of bag palletizing solutions in the industry. Premier Tech has combined its innovative engineering and control

capabilities with its state-of-the-art bag preparation and pallet handling technology. This robotic palletizing cell includes the industry-leading FANUC Robotics models M410iB or R2000iB. This heavy-duty robotic cell can simultaneously gather from up to four different incoming product lines. It can just as easily be configured to fit in tighter layouts to palletize one incoming product.

AR-215 Model: Basic robotic bag palletizing cell with manual pallet handling that uses FANUC's R-2000iB/100H Robot. Reaches speed up to 18 BPM.

AR-220/225 Model: Standard bag palletizing cell using FANUC M-410iB/140H robot with automatic pallet handling and other options. Reaches speed up to 24 BPM.

AR-240 Model: Dual robot bag palletizing cell using two FANUC M-410iB/140H robots with automatic pallet handling and other options. Reaches speed up to 40 BPM.

Depalletizing: Uses FANUC vision system to recognize the bag position and can be fitted into standard finger gripper with automatic tool changing system. Reaches speeds up to 20 BPM.

Several grippers are available for flexible and rigid palletizing: flexible finger gripper, bundle gripper, vacuum gripper, fork gripper, clamp gripper, magnetic gripper for cans, etc.

Applications

Bags, bales, boxes, bundles, cases, cans, drums, trays, totes, etc.





Robotic Palletizing Cell

Features and benefits

- Custom grippers for bags, bundles, bales, boxes, cases, etc.
- Quick changeover of palletizing patterns through stored recipes
- Numerous layout configurations
- Collision guard software to prevent accidental damage to robot gripper or other equipment
- User-friendly operator interface (color teach pendant) on robot controller with equipment and layout drawing for easy operation
- 8 ft (2.4 m) high safety fences with interlocked access door
- Premier Tech FANUC Robot Systems are custom programmed for each unique layout to achieve optimum performance
- System compliant with ANSI/RIA 15.06, CSA Z-434-03 and ANSI B155.1-2006 safety standards

Options

- Automatic bag width adjustment system available on finger gripper for simultaneous palletizing of multiple bag sizes
- Automatic changeover (no mechanical adjustments) when combining the optional bag width adjustment system on finger gripper and motorized guides on alignment conveyor
- FANUC's unique DCS Speed and Position Check used to limit robot motion for safety
- Vision system for "intelligent" palletizing and depalletizing
- External operator interface
- Empty pallet and slip sheet handling by the robot itself
- Servomotor drive

PATTERN EXPERT – State-of-the-art user interface

Modifying pallet patterns or creating new ones can be a struggle if the integrator doesn't provide the right tool with its palletizer. The AR-225 Robotic Palletizer for bags comes with a state-of-the-art user interface called "Pattern Expert," which solves this problem. This intuitive and user-friendly interface allows users to modify existing palletizing patterns easily

and to create new ones with very accurate bag positioning. Pattern changeover can be carried out quickly through only one point in the HMI, which makes the operator's life a lot easier. This interface is available in English, French and Spanish, and if support is required, Premier Tech Chronos can access the interface remotely.





Lateral gripper



Vacuum gripper for bales, bags or boxes



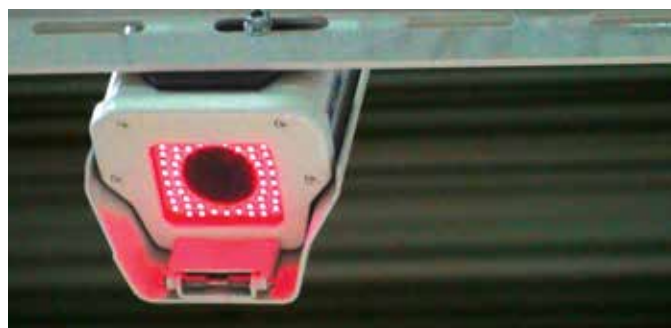
Finger gripper equipped with optional automatic bag width adjustment system



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



One end effector including ring gripping device for drums and finger gripper for bags



Vision system to recognize units for "intelligent" palletizing and depalletizing



Vacuum gripper with pallet handling option



Dual function gripper: finger for palletizing and vacuum for depalletizing

Robotic Palletizing Cell

Production rate

Up to **40 BPM** depending on bag characteristics, pallet height, layout configuration, etc.

Technical data

Bag dimensions (for finger gripper)*:	Width: 9" to 23" (230 to 585 mm) Length: 13" to 39" (330 to 990 mm) Thickness: 1,5" to 6" (40 to 150 mm) Weight: Up to 176 lb (80 kg)
Layer:	Up to 60" x 72" (1525 x 1830 mm)
Full-pallet load:	Height: Up to 104" (2640 mm) with 40"x 48" (1000 x 1200 mm) layer Weight: Up to 4400 lb (2000 kg)
Air consumption:	Up to 6 scfm (170 NI/min)
Electrical requirements:	460 V / 3 Ph / 60 Hz (other voltages available)
Operating pressure:	90 psi (6 bar)
Ambient temperature:	32°F to 105°F (0°C to 40°C)

* Other dimensions available

FANUC Robotics

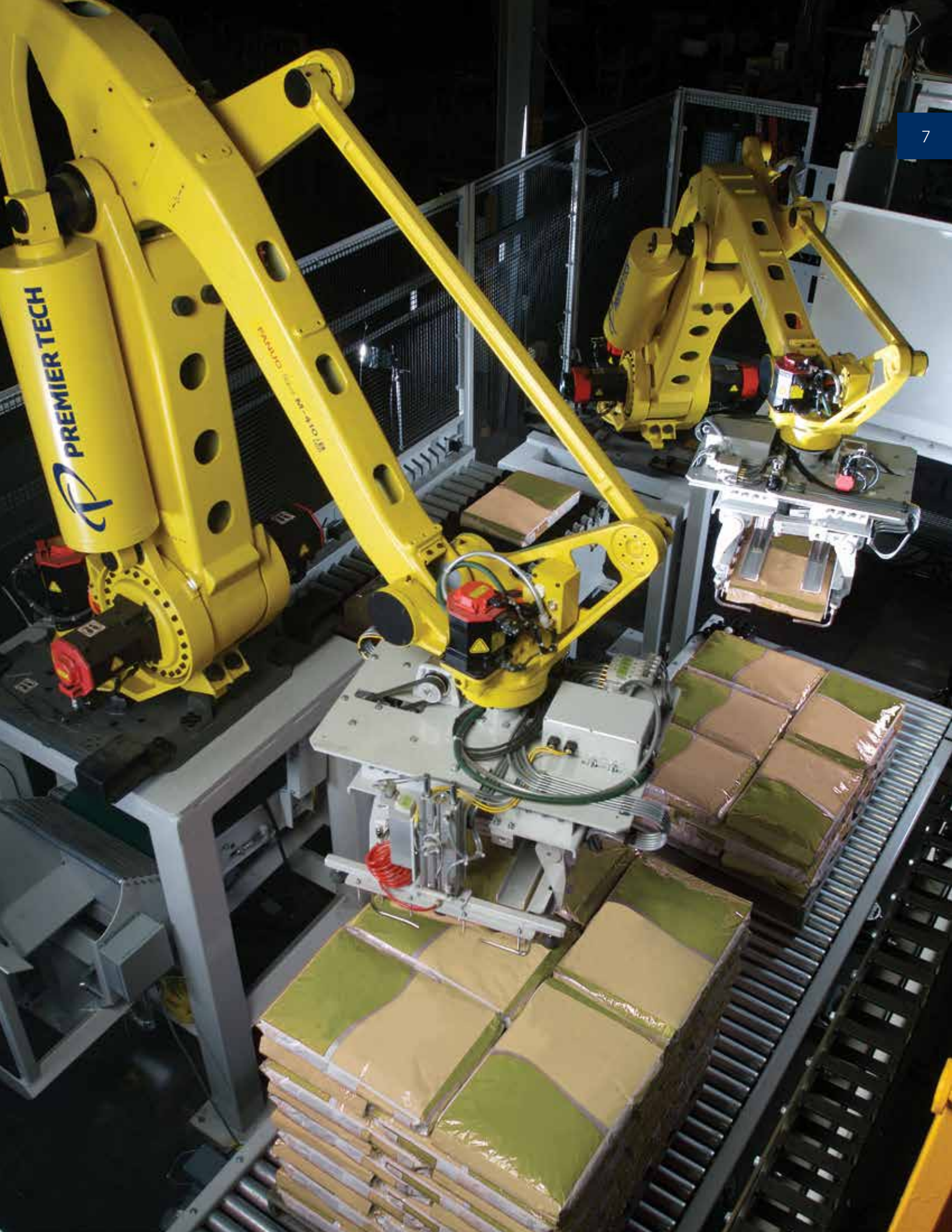
In order to offer the most reliable line of packaging and palletizing equipment on the market, **Premier Tech Chronos (PTC)** has spent 15 years developing a strategic partnership with component supplier FANUC, an international leader in the manufacture of intelligent robotic solutions. In 2009, **PTC** earned the prestigious integrator status of Market Specialist and in early 2014, earned its second stripe (red) as Certified Service Integrator (CSI). In fact, **PTC** has exceeded FANUC's many rigorous requirements for installation and commissioning, service, training and troubleshooting intelligent robotic solutions. **PTC** innovation continues to expand robotics to new packaging applications.



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