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RPW SERIES

Robotic Pal-and-Wrap

Robotic palletizer and stretch wrapper

The RPW-520/525 Robotic Pal-and-Wrap combines two essential end-of-line technologies: a flexible robotic palletizing cell and a turntable stretch wrapper. This solution minimizes floor space by palletizing and wrapping a wide variety of products (cases, trays, totes, bundles,

pails) with a pre-engineered solution. Loads are built and secured directly on the pallet on the stretch wrapper turntable creating ready-to-ship loads. This user-friendly robotic load assembly cell fulfills both production needs and ships on a single mounting base.

Applications

Cases, trays, totes, bundles, pails, etc.

Features and benefits

- Secure load in place
- Integrated wrapping equipment
- Small footprint
- Low cost
- HMI via Allen-Bradley Panel View Plus 1000
- Color touch screen with user-friendly operation



- Allen-Bradley MicroLogix 1200 Programmable Logic Controller (PLC)
- All required safety included (fences and light curtains)
- Quick and simple installation and start-up
- Quick changeover of palletizing patterns via stored recipes

Included

- FANUC R-2000iB/100H robot
- FANUC robot DCS option*
- Robot sub-base
- Vacuum end-of-arm tool
- Powered infeed conveyor
- Turntable stretch wrapper
- Programmable logic controller

- Panel view
- Light curtains
- Safety fences
- Cables and cable trays
- Main electrical panel and junction boxes
- System integration and testing

*See detail on safety page.

Options

- Upgrade to M-410iB/140H FANUC robot for higher loads and/or rates.
- Upgrade to servo lateral fork-type gripper for bottom support of products.
- Second zone on vacuum gripper for double pick to increase rates
- Slip/tier/top sheet handling by robot
- Pallet accumulation conveyor
- Empty pallet handling by robot

Production rate

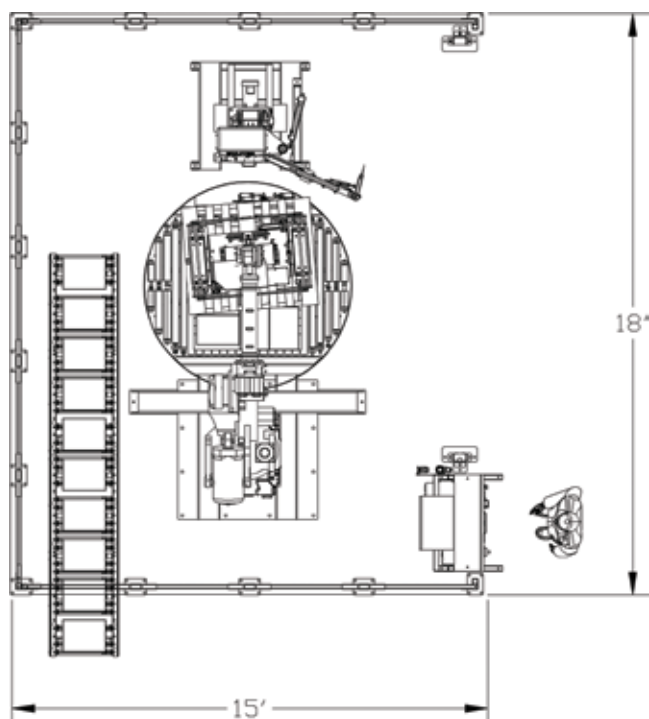
12 to 24 products per minute
Up to 12 cycles per min. (1 or 2 units/pick)



Technical data

Dimension foot print:	RPW-520: 15'-0" x 18'-0"	RPW-525: 15'-0" x 24'-0"
Full-pallet load:	Height: Up to 80" with 40" x 48" load	
Operating pressure:	80 psi (6 bar)	
Electrical requirements:	460 V / 3 Ph / 60 Hz b (other voltages available)	
Ambient temperature:	40°F to 95°F (5°C to 35°C)	
Meets Robotic Safety standards:	ISO 10218 (2011), Robots and robotic devices—Safety requirements for industrial robots* (Supersedes RIA 1.5.06)	
	*See details on safety page.	

Typical layout



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.





Premier Tech Chronos is proud to deliver robotic solutions that meet industry safety standards. Our commitment to safety is not an option and each system is independently analyzed to ensure all human interaction with machinery is free of risk.

Each electrical control panel is cULus certified and includes dual-channel safety components. All safety functions are accomplished via safety-rated software and hardware. The use of hardware and software increases overall reliability of the system, while meeting the safety performance required under the current standards.

The robotic cell perimeter is enclosed with 8 ft fences, interlocked doors with trapped key switches, light curtains or safety tunnel. All robotic cells comply with safety standards ISO 10218-1, ISO 10218-2 and ANSI B155.1-2006 (Which supersedes ANSI/RIA 15.06-1999 and CSA-Z434 standards)

The FANUC DCS option is included in every robotic palletizing cell. This option is third-party-certified to meet the performance requirements outlined in the latest robot safety standard ANSI/RIA/ISO 10218-1:2007. The use of the software based Speed and Position monitoring in robot systems is supported by the release of the Robotics Industries Association (RIA) technical report TR R15.206-2008. The

new technical report clarifies the proper application of safety-rated software such as DCS Position and Speed Check relative to the ANSI/RIA 15.06-1999 Safety Standard for Industrial Robots.

The DCS Speed and Position Check option offers 4-key advantages over conventional methods used to limit robot motion (limit switches, hard stops, etc.):

1. Motion limits can be defined in a rectangular (Cartesian) shape, convenient for establishing the location of traditional perimeter guarding and potentially helping to reduce the floor space of a robotic work cell.
2. Limits can be placed on individual axes including the wrist axes, which is not practical using conventional hardware means. Properly applied, DCS can help prevent the possibility of unintended motion of large end-of-arm tooling and parts, again potentially reducing both hazards and the footprint of a system.
3. Speed of the robot can also be restricted, functionality impossible to achieve with a simple limit switch or hard stop.
4. Reduced cost by eliminating peripheral devices.



Premier Tech World Headquarters

Premier Tech Chronos
1, avenue Premier
Campus Premier Tech
Rivière-du-Loup (Québec)
G5R 6C1 CANADA

☎ 1 418 868-8324

☎ Toll-free (USA/CAN) : 1 866 274-1287

Regional Offices and Manufacturing Plants in America

1881 West North Temple
Salt Lake City, UT 84116
United States

3101 Hayneville Rd
Montgomery, AL 36108
United States

35, boulevard Industriel, C.P. 5617
Caraquet, NB E1W 1A9
Canada

Avenida José Alves de Oliveira, 710
Jundiaí - SP
Brazil

