



PASCO

PRODUCTIVE AUTOMATED SYSTEMS CORPORATION



Integrated **Palletizing** Solutions

Since 1976, PASCO has designed and manufactured custom palletizing systems. Our deep understanding and hands-on experience in conventional palletizers has provided us a solid foundation to quickly become a leading robotic palletizing integrator for **Fanuc Robotics NA**. If there are bags, bales, bundles, cases, drums, pails and/or trays to be palletized, PASCO has the engineering expertise and practical knowledge to develop cost-effective, sensible solutions for our customers' palletizing needs.

PRODUCTIVE AUTOMATED SYSTEMS CORPORATION
2600 S. Hanley Rd. #450
St. Louis, MO 63144
800-489-3300—Phone
www.pascosystems.com—Website



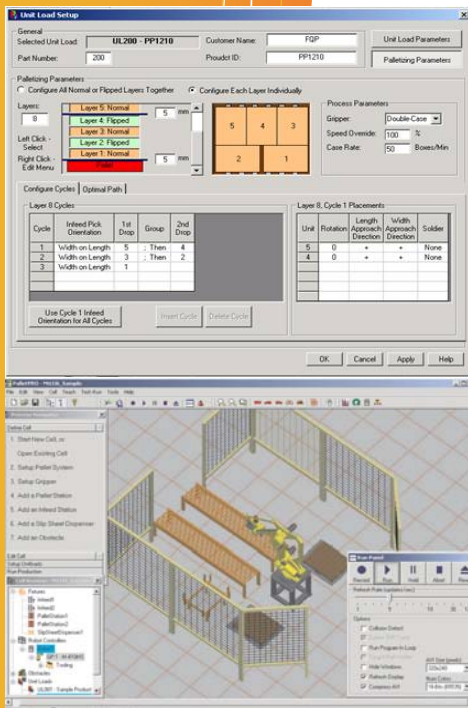
PASCO ROBOTIC SYSTEMS - A CAPACITY TO ENDURE

For over 34 years **PASCO** has developed a reputation for providing rugged and reliable palletizing equipment that is highly customized to suit the needs of each production facility or process. Our manufacturing capabilities combined with extensive robot integration experience has provided a solid foundation in the design and development of flexible robotic solutions.

FEATURES & BENEFITS

- The Fanuc 410iB robot is a 4 axis, electric servo driven robot engineered for precision high-speed/high-payload operation, user friendly set-up, and maximum reliability supported by an extensive service and parts network. Documented MTBF rate of over 80,000 hours.
- Turn-key palletizing solutions with PASCO manufactured ancillary equipment including product infeed and pallet discharge conveyors, bag flatteners, slip sheet dispensers, pallet dispensers, and shuttle car systems.
- Multiple product lines can be palletized simultaneously utilizing minimal floor space.
- Extensive library of standard and custom end of arm tools capable of handling a vast variety of products, including bags, bales, bundles, cases, drums, pails and totes to fit the unique needs of each application.
- Custom designed palletizing cells for harsh and caustic environments.
- Web-based software tools for remote connectivity, diagnostics and production monitoring.
- Full system integration capabilities offering both upstream and downstream equipment.

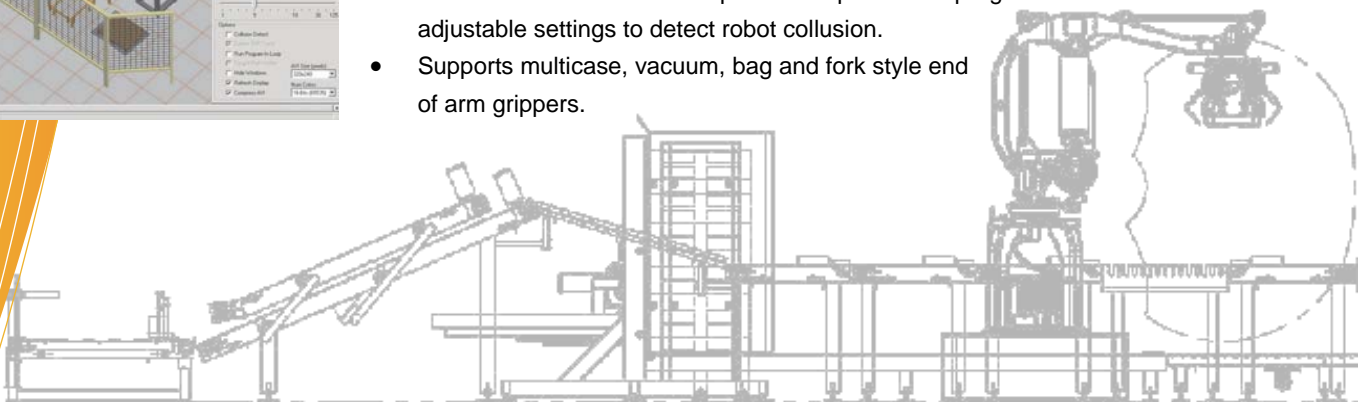
ROBOGUIDE—PALLET PRO/PALLET TOOL SOFTWARE

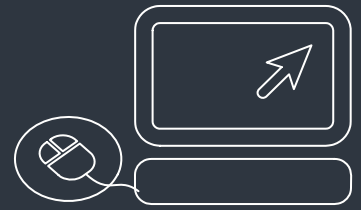


PalletPRO simulation software offers a graphical user interface allowing new and experienced palletizing operators to build, debug and test palletizing applications offline on a laptop or personal computer. The data created in **PalletPRO** can then be downloaded to a real robot controller containing the **Pallet Tool** software, which has many features designed for ease of running production with a PLC.

Pallet PRO/Pallet Tool Benefits:

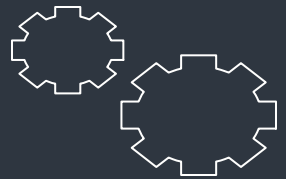
- Offline simulation reduces time, cost and effort of creating/editing new and/or existing unit loads configurations.
- Optimize palletizing cell by verifying optimal path sequences, cycle times, robot reach, and collision avoidance.
- Create hundreds of unit loads utilizing built in library of industry standard patterns including user-defined patterns, configuration of normal & flipped layers, and slip sheet placement.
- Collision Detection software provides a programmable means with adjustable settings to detect robot collision.
- Supports multicase, vacuum, bag and fork style end of arm grippers.





NETWORKING SOFTWARE

FANUC Robotics R-30iA controller offers advanced networking software tools to connect robots and remote computers over an Ethernet network making it simple for users to transfer robot programs, monitor robot operation, collect production data and troubleshoot robots from a remote location.



Transfer Robot Programs

PC File Services software allows users to transfer robot programs, variable files, data files and system files to and from FANUC robots.

Remote Monitoring

Provides the capability of displaying and monitoring current I-Pendant screens and operations on a PC using Microsoft Internet Explorer

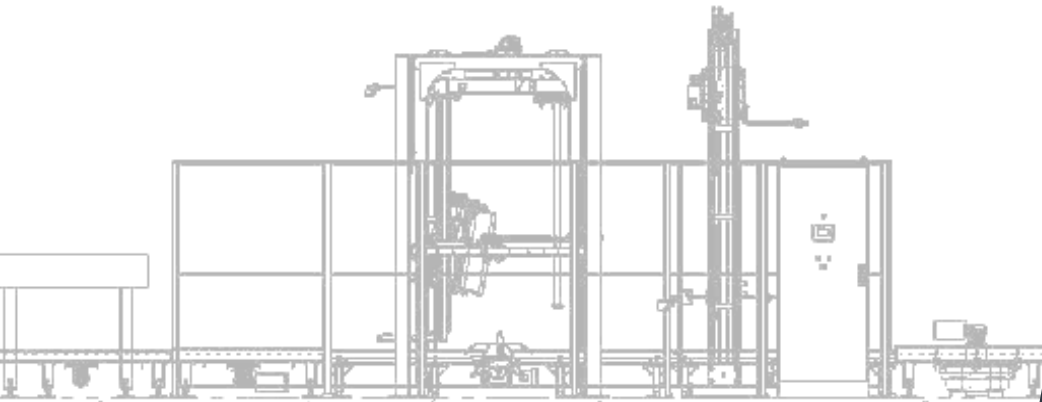
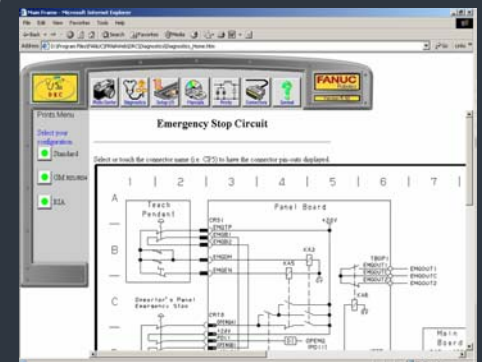
Remote Diagnostics

Monitor robot programs and data, including robot alarms, input/output status, program variables, and system parameters using standard browser software. Application specific information.

iPENDANT — HAND HELD OPERATOR INTERFACE



- The Fanuc iPendant is a hand held operator interface device from which all robot functions can be performed by making selections from the displayed software menus.
- Color highlighting, fly-out menus and a split-screen display to make important information easier to find.
- Easy to use navigation system provides all the choices on a single screen for fast menu navigation.
- Integrated help and diagnostics provide instant help to recover from production interruptions.
- Includes 3 position deadman switch for operating safety when operating in manual mode.
- 6.4" color TFT backlit LCD display.



DEPALLETIZING SOLUTIONS

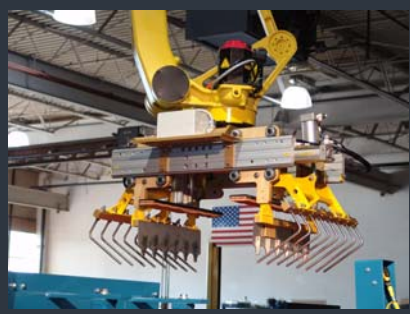


The **FANUC R-30iA** controller comes standard with *iRVision* hardware. By loading the vision software and connecting a camera directly to the R-30iA controller, the robot can be integrated to depalletize bags, bundles, cases, pails or totes. No additional processing hardware is required.

CUSTOM DESIGNED END EFFECTORS



PASCO designs and develops standard and custom end of arm tools to handle a variety of different products, including bags, bales, bundles, cases, drums, pails and totes. Our End of Arm Tools (EOAT) are engineered to grip, hold and position single or multiple products securely providing highly consistent and efficient palletizing operations.



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