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**FANUC Robotics Demonstrates  
Intelligent R-2000iB/100H  
Compact Palletizing Robot  
at 2008 Pack Expo**

**For Immediate Release**

**ROCHESTER HILLS, Mich., Nov. 9, 2008** – FANUC Robotics America, Inc. will demonstrate high-speed, compact palletizing featuring its intelligent R-2000iB/100H palletizing robot equipped with *iRVision* and Dual Check Safety (DCS) Speed and Position Check Software during Pack Expo International at McCormick Place, Nov. 9-13, in booth #N4336.

The R-2000iB/100H robot offers FANUC Robotics' world-renowned performance, reliability and maintainability, and has the speed and payload to make it an ideal fit for palletizing bags, boxes, bundles, trays and other products. It offers a 100 kg nominal payload (120 kg if wrist is kept parallel to the ground), a 2655 mm reach, and is capable of handling product at rates of 20 cycles per minute.

"We saw a growing demand in the packaging industry for a mid-size palletizing robot, and the R-2000iB/100H fulfills that need," said Jay Strybis, product manager, FANUC Robotics. "It offers the throughput of our M-410iB palletizing robot, but it is significantly smaller and will help customers with compact work spaces or lower ceiling heights."

At the show, the R-2000iB/100H will palletize and de-palletize boxes and bags from two in-feed conveyors. It will pick bags from the lower level conveyor and palletize them using FANUC's standard bag handling end-of-arm tool. The robot will then pick cases from the upper conveyor and palletize on a separate pallet. In addition, the robot will perform vision-guided de-palletizing using 2D *iRVision* (built-in) to locate and de-palletize the boxes at high-speeds. The compact cell highlights the importance of Dual Check Safety (DCS) Speed and Position Check software, particularly in tight workspaces. By utilizing DCS, the footprint of the cell is considerably reduced by limiting the work envelope of the robot.

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The R-2000iB/100H robot offers customers a wide range of benefits for compact palletizing applications, including:

- Requires less floor space than the M-410iB robot
- High-speed operation
- Comparable case-per-minute rates to the M-410iB
- Performance optimized for a single in/single out configuration
- PalletTool software compatibility

“The R-2000iB/100H palletizing robot has a five-axis configuration, which helps maximize the robot’s speed,” added Strybis.

The new R-2000iB/100H is the latest member of the popular, heavy payload, high performance family of robots typically used for heavy-duty industrial applications such as spot welding, and machine tending.

The R-2000iB family of industrial robots includes pedestal, invert, and rack mount versions with a variety of payloads and reaches. A slim arm and wrist assembly helps minimize interference with system equipment and allows the robot to operate in small workspaces.

### ***iR*Vision - Integrated Vision in the R-2000iB/100H Palletizing Robot**

FANUC Robotics’ *iR*Vision is an easy-to-use, integrated robot vision option for the FANUC R-30iA Controller. The *iR*Vision System is the company’s first built-in vision package that is available on all R-30iA Controllers, providing customers a single source for robot guidance or process feedback.

The FANUC *iR*Vision system is a ready-to-use robotic vision package, requiring only a camera and cable – no additional processing hardware. It has a 2D robot guidance tool to accomplish part location, error proofing, and other operations that normally require special sensors or custom fixtures.

### **Dual Check Safety (DCS) Speed and Position Check Software**

Prior to the application of safety rated robot software, all safeguarding of the robot needed to be external, either as a safety rated limit switch or cam system, safety rated area scanners, or other devices to limit robot travel or enhance protection. DCS safety rated robot software allows the safety design of the robot system to use the robot itself for some of the safety functions.

The most significant benefit of DCS Speed and Position Check is in applications where the travel of the robot needs to be restricted due to floor space or process limits that are less than the full reach of the robot. Restricting the robot motion in Cartesian space means the robot can be restrained to exactly the area in which it works; something that is not possible with the current systems that limit robot motion externally using limit switches.

“By moving some of the safety functions to within the robot, customers will realize significant savings in floor space, flexibility in system layout, reduced hardware costs, and improved reliability,” said Claude Dinsmoor, general manager, controller product development, FANUC Robotics.

In addition, safe "zones" can be enabled and disabled from an external source such as a safety PLC. Designing a system with multiple zones means an operator can safely enter and leave the workspace of the robot.

“This streamlines the design of robot cells because it prevents the robot from entering the load area when an operator is present,” added Dinsmoor. This type of application is possible with existing technology, but it is typically difficult to setup, expensive to implement, and requires more floor space than a system using DCS.”

FANUC Robotics America, Inc. designs, engineers and manufactures industrial robots and robotic systems for a wide range of applications including arc and spot welding, material handling (machine tending, picking, packing, palletizing), material removal, assembly, paint finishing and dispensing. The company also provides application-specific software, controls, vision products, and complete support services. After 26 years of success, FANUC Robotics maintains its position as the leading robotics company in the Americas. A subsidiary of FANUC LTD in Japan, the company is headquartered in Detroit, and has facilities in Chicago; Los Angeles; Charlotte, N.C.; Cincinnati and Toledo, Ohio; Toronto; Montreal; Aguascalientes, Mexico; and Sao Paulo, Brazil. Over 200,000 FANUC robots are installed worldwide. Contact FANUC Robotics at [www.fanucrobotics.com](http://www.fanucrobotics.com) or by calling 1-800-iQ-ROBOT, option 5.

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