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**FANUC Robotics Demonstrates
ARC Mate 50iC/5L and M-1iA
Educational Cells at IMTS 2010****For Immediate Release**

ROCHESTER HILLS, Mich., Sept. 13, 2010 – FANUC Robotics America will showcase its ARC Mate 50iC/5L robot with *iRVision*[®] in a compact welding education cell and the M-1iA parallel-link robot with the FANUC FS-10iA force sensor in an assembly education cell at IMTS 2010, Sept. 13-18, at McCormick Place, Chicago, booth S-8919.

At the show the ARC Mate 50iC/5L robot uses *iRVision* to locate the weld joint on a demo coupon, and the robot traces a weld path. An operator shifts the position of the demo coupon to show how *iRVision* corrects for changes made to a program.

A second educational cell will feature the M-1iA parallel-link robot equipped with the FANUC FS-10iA force sensor to pick and assemble gears using the force sensor.

ARC Mate 50iC/5L Robot

“The ARC Mate 50iC/5L offers the education market high-speed operation with optimum path performance and wrist load capacity, making it ideal for most robotic welding torches,” said Joe Hoffman, Materials Joining segment, FANUC Robotics America. “These and other features make it the most powerful and affordable mini-robot in its class.”

The six-axis, ARC Mate 50iC/5L robot is extremely light and compact, and rates ‘best in class’ for its wrist load capacity, repeatability, work envelope, and speed.

The intelligent ARC Mate 50iC/5L is designed to meet the materials joining application needs of a variety of industries including automotive, agricultural, furniture, recreational, and many more. Its design enhancements and flexibility to quickly adapt to small lot sizes, new styles, and other modifications provides manufacturers an affordable solution for small part, flexible production.

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FANUC Education Cells

Ideal for high volume applications or small batch production, the new slim and lightweight robot can be mounted in a variety of positions including floor, tabletop, inside machines, angle and invert, which maximizes flexibility for small and narrow workspaces.

The ARC Mate 50*i*C/5L robot offers a wide range of benefits, including:

- Greatest reach and stroke in class
- High wrist load capacity – utilizes standard robotic welding torches
- Higher rigidity for smooth motion and improved weld quality
- Slim arm to allow operation in narrow spaces
- Enhanced motion performance for 'best in class' speed
- 'Best in class' work envelope
- Slim wrist allows for improved motion range and torch accessibility
- Single-phase power input with an available 115 VAC option
- *i*RVision, a ready-to-use, built-in robotic vision package.
- ROBOGUIDE-WeldPRO, Vision Shift, and Collision Guard

M-1*i*A Intelligent Robot

The M-1*i*A is a lightweight and compact six-axis, parallel-link robot designed for small part handling, high-speed picking, packing, and assembly applications. The unique parallel-link structure provides higher speeds and accuracy compared to traditional handling robots. The robot can be installed in a variety of orientations, and has a three-axis wrist, making it extremely flexible. The M-1*i*A also offers a four-axis model for simple operations such as part picking or kitting. A single-axis wrist offers speeds up to 3000 degrees per second.

“Our customers require higher speeds and accuracy to meet their production goals,” said Raad Asmaro, product manager, FANUC Robotics America. “The M-1*i*A’s flexibility and speed far exceed the capabilities of other vertically-articulated or SCARA-type robots.”

The M-1*i*A, like all FANUC robots, operates with the company’s latest R-30*i*A controller with integrated intelligent functions such as *i*RVision[®], Force Sensing and Robot Link.

The M-1*i*A offers a wide range of benefits, including:

- Lightweight (14kg for 4-axis model; 17kg for 6-axis model), compact size allows operation in small spaces.
- Six-axis design enables part feeding from the sides of a work zone, increasing the useable workspace.

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- Multiple installation orientations accommodate a wide range of work areas.
- Unique parallel-link design maximizes speed.
- Supports a multiple arm configuration of up to four robots.
- A camera for *iR*Vision (built-in) can be integrated into the robot.
- New R-30*i*A Mate rack-style controller provides intelligent robot functions.
- Robot Link controls and coordinates up to ten robots through a network exchange of robot positional data.
- FANUC Force Sensor is available for intricate assembly applications.

FANUC Force Sensing

FANUC's Force Sensors are fully integrated into the CPU of every FANUC R-30*i*A controller. Available in four models ranging from 10kg to 250kg, FANUC Force Sensors provide the most robust and reliable solutions in the market. A single source solution developed and supported by FANUC, the FANUC Force Sensors offer easy setup and operation for factory operations requiring part matching, meshing, inserting, force loading and deburring.

FANUC *iR*Vision

FANUC's *iR*Vision is a truly integrated, plug-and-go vision system that runs on the standard CPU of every FANUC R-30*i*A controller without any additional hardware. A single source solution developed and supported by FANUC, *iR*Vision offers easy setup and operation for factory environments requiring 2D and 3D guidance, error proofing, visual tracking, and quality control – all with FANUC's world-renowned reliability.

FANUC Robotics America 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 28 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; Cincinnati; Toronto; Aguascalientes, Mexico; and Sao Paulo, Brazil. Over 220,000 FANUC robots are installed worldwide. Contact FANUC Robotics at www.fanucrobotics.com or by calling 1-800-iQ-ROBOT, option 5.