



**Media Contact:**

Cathy Powell  
Marketing Communications  
FANUC Robotics  
Phone: (248) 377-7570  
cathy.powell@fanucrobotics.com

**FANUC Robotics Introduces  
R-1000iA/80F Intelligent High-Speed  
And Compact Robot at 2009 Fabtech  
& AWS Show**

**For Immediate Release**

**ROCHESTER HILLS, Mich., Nov. 15, 2009**— FANUC Robotics America, Inc. will introduce its new R-1000iA/80F high-speed, compact robot and *iRVision*<sup>®</sup> Tip Inspection, the company's latest vision feature, in a flexible welding cell at the 2009 Fabtech International and AWS Welding Show at McCormick Place, Chicago, Nov. 15-18 in booth #33003.

"The new R-1000iA/80F is our latest robot designed for spot welding and material handling processes," said Mike Eckert, senior staff engineer at FANUC Robotics America, Inc. "It's compact, and offers FANUC's world-renowned motion performance, making it an ideal solution even in high-density work cells with space constraints."

The new R-1000iA/80F has an 80kg payload and features a slim design, allowing easy access to adjacent robots, fixtures and work pieces. In addition, it can be floor or invert mounted, and has a large work envelope.

At the show, an M-710iC/70 robot equipped with *iRVision* 2D locates a door assembly then grips and positions the part for welding. The new R-1000iA/80F and ARC Mate 100iC robots perform simulated welding operations. The M-710iC/70 repositions the part for additional welding, and transfers the completed part to a delivery rack. The R-1000iA/80F and ARC Mate 100iC robots then run through the new *iRVision* Tip Inspection to verify the condition of the tips, and the sequence repeats.

"*iRVision* Tip Inspection software verifies that welding tips are in good condition, and properly aligned to help arc and spot welding customers reduce product issues and scrap/rework costs caused by poor tip conditions," added Eckert.

-more-

### **R-1000iA/80F Features and Benefits**

- Compact size enables operation in high-density work cells with space constraints.
- High-speed operation minimizes processing times.
- Upright or invert mounting accommodates a wide range of work areas.
- Optional Solution Arm dressout package with internal cable routing for spot welding processes.
- IP67 rated wrist allows operation in wet conditions.
- The latest R-30iA robot controller offers a variety of intelligent functions including *iR*Vision, ROBOGUIDE, Robot Link, and Collision Guard.
- Serial-link configuration enables large operating space (including rear and downward side).

### ***iR*Vision Tip Inspection Features and Benefits**

*iR*Vision Tip Inspection error proofs weld tips to reduce product issues and scrap/rework costs caused by poor tip conditions. It offers a variety of advantages for arc and spot welding, including:

#### **Arc Welding:**

- Measures contact tip wear
- Maintains an accurate tool center point (TCP)
- Calculates maintenance cycle
- Improves weld quality

#### **Spot Welding:**

- Measures tip wear
- Measures and verifies alignment
- Verifies tip dress
- Verifies new cap and cap type

### **ARC Mate 100iC intelligent welding robot**

FANUC Robotics' six-axis, ARC Mate 100iC intelligent welding robot features a compact design, class-leading operation efficiency, speed, load capacity, and enhanced performance for welding parts of all shapes and sizes.

Compared to traditional dress packages, which are mounted externally on the robot's arm, the ARC Mate 100iC's internal routing allows the dress package to follow the motion range of the robot, simplifying programming and eliminating the worries of bending, snagging or breaking cables.

### **M-710iC Intelligent Robot**

The M-710iC robot features six axes of motion, an extremely large work envelope, slim profile and small footprint. The versatile M-710iC robot offers nine model variations with payloads ranging from 20 kg to 70 kg., and a reach of 1360 mm to 3110 mm. Multiple mounting methods including floor, ceiling, angle and wall, make it possible for users to have better access to unusual work pieces.

In addition, the M-710iC robot's FoundryPRO option makes the entire robot IP67 protected for operation in harsh environments. Also, the SE option (Severe Environment option) enables the robot to endure the rugged conditions in washing booths such as high humidity and exposure to high pressure water jets. With this option, the entire robot, also rated IP67, can tolerate water submersion.

### **Integrated (built-in) Vision**

The FANUC iRVision system is a ready-to-use robotic vision package, available on all FANUC robots, 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. For robotic vision processes that exceed the capability of 2D vision systems, FANUC Robotics offers an integrated 3D vision system.

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 27 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 210,000 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.

###