



Media Contact:

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

**FANUC Robotics Demonstrates
Intelligent Assembly at 2009
Robots & Vision Show**

For Immediate Release

ROCHESTER HILLS, Mich., June 9, 2009 – FANUC Robotics America, Inc. will demonstrate intelligent assembly with its F-100*i*A programmable positioning robot, LR Mate 200*i*C/5L mini-robot equipped with an FS-10*i*A force sensor, and the LR Mate 200*i*C robot with *i*RVision® during the 2009 International Robots & Vision Motion Control Show at the Donald E. Stephens Convention Center in Rosemont (Chicago) IL, June 9-11, booth #1411.

At the show, an F-100*i*A robot picks up a tray of randomly located metal cranks and connecting rods from a storage rack and presents it to an LR Mate 200*i*C/5L robot equipped with the new FS-10*i*A force sensor. A second F-100*i*A presents an assembly fixture to the LR Mate 200*i*C/5L. The first LR Mate 200*i*C/5L robot with *i*RVision 2D picks up randomly located metal crank plates and connecting rods and assembles them to the assembly fixture held by the second F-100*i*A robot. A second LR Mate 200*i*C with *i*RVision 2D, picks crank pins and bushings from a visual parts feeder and presents them to the LR Mate 200*i*C/5L. The LR Mate 200*i*C/5L then uses the FS-10*i*A force sensor to assemble the components. The second F-100*i*A transfers the completed assembly to a rack and the process repeats itself.

-more-

The F-100iA Intelligent Robot

The F-100iA is an accurate and compact, four- or five-axis robot with a 136 kg payload at the center of the faceplate. The first axis is a linear slide with a range of 250 or 500 mm, depending on the model. Attached to the slide is a column that can rotate 190 degrees and move up or down 270 mm. The wrist is available in various configurations and can swivel in the horizontal plane, the vertical plane or both. The unit can be equipped with locating pins, clamps and other devices for holding parts. One R-30iA controller can manage multiple F-100iA units.

“This compact layout provides significant cost savings for precision assembly applications,” said Ray Moran, product manager, FANUC Robotics. “We’re using the F-100iA to transfer and hold the parts, which helps eliminate the need for costly fixtures. “

Integrated (built-in) Vision and Force Sensing

FANUC Robotics’ intelligent robots with integrated force sensors provide 3D assembly with six degrees of freedom. The new FS-10iA force sensor is an ideal solution to automate small-part assembly, or for testing products requiring delicate force sensing. Small, but tough and accurate, the FS-10iA is suitable for the LR Mate 200iC mini-robot.

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.

-more-

LR Mate 200iC Intelligent Robot

The popular LR Mate 200iC robot, offers maximum performance in a light, efficient, accurate and nimble (LEAN) package. It is designed to meet the automation needs of a variety of industries including electronics, medical devices, food, metals, plastics, and packaged and consumer goods. Its compact design and flexibility to quickly adapt to small lot sizes, new styles and other modifications provides manufacturers an affordable solution for small part, flexible production.

The six-axis, LR Mate 200iC robot rates 'best in class' for its wrist load capacity, repeatability, work envelope, and speed. Ideal for high-speed part handling, machine tending, assembly and material removal, the 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.

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 200,000 FANUC robots are installed worldwide. Contact FANUC Robotics at www.fanucrobotics.com or by calling 1-800-iQ-ROBOT, option 5.

###