

**FANUC America Demonstrates  
Intelligent ROBODRILL Machine Tending  
with an LR Mate 200iD Robot  
at Fabtech 2015**

**For Immediate Release**

**ROCHESTER HILLS, Mich., Nov. 9, 2015** – FANUC America demonstrates ROBODRILL machine tending with a high-speed FANUC LR Mate 200iD robot during Fabtech, Nov. 9-12 at McCormick Place, Chicago, booth #N-14025.

## **ROBODRILL Machining**

A FANUC LR Mate 200iD robot equipped with *iRVision*<sup>®</sup> loads raw parts into the high-speed ROBODRILL α-D14SiA5 machine tool. *iRVision* checks for part presence, or if a slot is occupied. The raw part is a rectangular aluminum block that is fed into the ROBODRILL system, which then is cut with a specific program to form a business card holder. The LR Mate 200iD then unloads the part and places it back into the designated slot.

## **FANUC LR Mate 200iD Robots**

The family of LR Mate 200iD robots is a versatile solution for a wide range of manufacturing operations that require access into small spaces. A very slim arm about the same size as a human arm, and a bottom cable exit option minimize interference with peripheral devices. The LR Mate 200iD robot offers a “best in class” work envelope for both upright and invert mount installations. The LR Mate 200iD robot is also available with ISO Class 4 clean-room and food-grade variants for food handling and healthcare packaging applications.

## **LR Mate 200iD Features and Benefits**

- Slim arm and compact foot print minimizes interference to peripheral devices in narrow spaces
- Available in three variations: standard, short, and long arm
- Four to seven kg wrist load capacity with six-axis articulation
- Best in class work envelope simplifies system layout
- Fastest joint axes speeds maximize system throughput
- Integrated 24VDC power, signal and air for easy end-of-arm-tool connection
- Integrated thru-arm cable option for *iRVision*, force sensing, Ethernet and auxiliary axes
- Flexible mounting (upright, invert, angle)
- High rigidity and the most advanced servo technology enable smooth motion at high speeds

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- Easy integration into machines
- Features lightest mechanical unit in its class
- IP67 rating allows operation in factory environments with dust and oil mist

**FANUC *i*RVision**

FANUC *i*RVision is a truly integrated, plug-and-go vision system that runs on the standard CPU of every FANUC R-30*i*B controller without any additional hardware. A single source solution developed and supported by FANUC, *i*RVision 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.

**Next Generation R-30*i*B and R-30*i*B Mate Controller**

The FANUC R-30*i*B and R-30*i*B Mate Controller use high-performance hardware and the latest advances in network communications, integrated *i*RVision, and motion control functions. The R-30*i*B Controllers feature FANUC's exclusive and easy-to-use *i*Pendant with 4D graphics. The *i*Pendant displays process information and the actual process path directly on the *i*Pendant screen, enabling easier setup and troubleshooting.

Based on the latest FANUC Series 30*i*B CNC Controller, the R-30*i*B and R-30*i*B Mate Robot Controllers are compact, providing customers a significant space savings. The R-30*i*B Mate Controller, available with a compact rack-style open-air controller cabinet, or an industrial grade standard Mate cabinet, is very energy efficient and requires less power consumption due to its availability in both single-phase and three-phase versions. The R-30*i*B Controller offers an optional power regeneration feature.

**FANUC ROBODRILL Features & Benefits**

- Highest quality and shortest machining times for all industries requiring ultra high precision and surface quality
- Available in three models for multiple part types including 300 mm, 500 mm and 700 mm table length models
- Dynamic spindle options with high-speed tool change reaching up to 24,000 RPM
- Optimal acceleration and deceleration control for shorter cycle times
- Direct drive axes enable high speed and acceleration and high precision machining
- Large table load capacity – Up to 300 kg

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- Safe operation features including thermal compensation and fast self-diagnosis
- Automatic fault recovery and tool breakage control for consistent quality without downtime
- Through tooling coolant for continuous drilling
- Contour control, automatic thermal compensation and machine mode setting options for high precision and accuracy
- Standard FANUC CNC installed
- Variety of intelligent software functions for fast, high-precision machining with ultra exact position reproducibility
- Complete turnkey systems with FANUC CNC and easy robot integration for machine tool load/unload with single or multiple robots
- Integrated communication protocols for operation of robots and ROBODRILL from the same controls
- Large color LCD with compact operator panel with USB port and memory card slot for easy file transfer
- ROBODRILL PMC for peripheral equipment control
- Spindle power up to 26 kW (35 hp) and torque up to 80 Nm (59 lb-ft)
- 4<sup>th</sup> and 5<sup>th</sup> axis options for simultaneous machining and cutting through high-speed indexing with additional one and two-axis rotary table options
- Rigid cast iron c-frame design with high-speed automatic tool change
- Intelligent design for overall energy conservation and efficiency

### **About FANUC America Corporation**

FANUC America Corporation is a subsidiary of FANUC CORPORATION in Japan, and provides industry-leading robotics, CNC systems, and factory automation. FANUC's innovative technologies and proven expertise help manufacturers in the Americas maximize efficiency, reliability and profitability.

FANUC America is headquartered at 3900 W. Hamlin Road, Rochester Hills, MI 48309, and has facilities in: Atlanta; Boston; Charlotte; Chicago; Cincinnati; Cleveland; Dallas; Indianapolis; Los Angeles; Minneapolis; Montreal; Pine Brook, NJ; San Francisco; Toronto; Buenos Aires, Argentina; Sao Paulo, Brazil; and Aguascalientes, and Mexico City, Mexico. For more information, please call: 888-FANUC-US (888-326-8287) or visit our website: [www.fanucamerica.com](http://www.fanucamerica.com). Also, connect with us on [YouTube](#), [Twitter](#), [Facebook](#), [Google+](#) and [LinkedIn](#).

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