## **PRESS RELEASE**

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**Yaskawa Motoman DX200 Robot Controller Provides Enhanced Safety and Energy Efficiency**

**Dayton, OH (September 2016)** — The DX200 robot controller builds on the robust process capabilities of the DX100 controller, including: patented multiple robot control technology with coordinated motion between devices (up to eight robots/72 axes), award-winning ergonomic teach pendant, built-in PLC cell control capability, and optimized path and process control capability. The energy-saving DX200 features faster processing speeds, enhanced control-reliable safety and improved maintainability. The DX200 takes advantage of Yaskawa’s Sigma-5 motor technology to optimize acceleration characteristics and reduce cycle time.

Depending on application and robot size, the DX200 conserves power consumption by as much as 38-70 percent over previous generation robots/controls. Additionally, a static load reduction function reduces motor torque by 10 percent when the robot maintains a static position (patent pending). The DX200 also conserves power during robot idle time by idling motors and fans, providing up to 25 percent energy savings.

An enhanced Functional Safety Unit (FSU) provides control-reliable zone and tool position monitoring, standstill monitoring and speed limiting. This can reduce costs for safeguarding hardware, while providing new capabilities such as collaborative tasks. The FSU can define multiple zones and monitor if the robot is inside or outside the zone. A graphic utility on the robot teach pendant aids in the setup of robot, tool and work zones. User-defined zones are displayed on the visual read out and are colored by work zone and type. The DX200 controller is compliant to ANSI/RIA R15.06-2012 and other relevant safety standards.

The DX200 has reduced cabling connections and improved layout to reduce the Mean Time to Repair (MTTR). Alarm troubleshooting information on the pendant, monitoring of motor torque to predict reducer wear and alerts when major power components reach designed life are some of the enhanced maintenance features.

Its extensive I/O suite includes integral PLC and HMI pendant displays, built-in ladder logic processing, 4,096 I/O and a graphical ladder editor that can provide an efficient system level control. The DX200 supports all major fieldbus networks and offers easy connection to an information infrastructure through standard network options for Ethernet/IP, DeviceNet, Profibus-DP and many others. A high-speed Ethernet server and MotoPlus™ developer tools allow partners to produce higher level connectivity (HMIs from Proface) or new capabilities (Robotiq Kinetiq Teaching™) with Motoman® robots.

Yaskawa Motoman also offers the compact FS100 controller designed for use in small parts handling and assembly applications. To program robots directly through a PLC, the MLX200 platform is available.

# About Yaskawa Motoman

Founded in 1989, the Motoman Robotics Division of Yaskawa America, Inc. is a leading robotics company in the Americas. With over 300,000 Motoman® robots installed globally, Yaskawa provides automation products and solutions for virtually every industry and robotic application; including arc welding, assembly, coating, dispensing, material handling, material cutting, material removal, packaging, palletizing and spot welding. For more informationplease visit our website at [www.motoman.com](http://www.motoman.com) or call 937.847.6200.

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