## **PRESS RELEASE**

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**Yaskawa Motoman Compact Series Robots: Optimized for Spot Welding Applications**

**Dayton, OH (September 2016)** — The high-speed MS165 and MS210 robots are designed to deliver unmatched performance and reliability in spot welding applications. The use of a gas spring and Yaskawa’s Sigma-5 motor technology result in a lighter weight and a reduced-profile design to allow higher robot density around a car body or a smaller workcell for Tier 1 applications. The MS-series robots use the energy-efficient DX200 robot controller that includes several features to optimize robot and servo spot gun performance.

The MS-series also includes the MS100 and MS80W II robot models. These robots are designed to take advantage of lighter weight Mid-Frequency Direct Current (MFDC) spot guns. They are more compact than traditional spot robots to allow for higher robot density in a workcell or around a car body. These arms are up to 30% faster than traditional size spot welding robots.

To increase cable life, enhance safety and reduce teaching time, the servo gun cables and air and water lines are routed through the robot’s base and upper arm to the wrist. The streamlined design enables the   
MS-series robots to reach into confined spaces, thus reducing cycle time and improving system productivity.

Yaskawa introduced integrated spot harness technology over a decade ago. This technology has been improved on the MS-series robots with an expanded wrist working range of up to 17 percent, and back-integrated control for spot guns with servo motor drives improves weld quality.

The six-axis MS165 and MS210 models feature increased payloads of 165 kg and 210 kg respectively.   
Both models have a 2,702 mm reach with a repeatability of ±0.2 mm. The MS100 and MS80W II have payloads of 100 kg and 80 kg. Both robots have a reach of 2,236 mm and repeatability of +/- 0.07 mm.   
The high-speed spot and Advanced Robot Motion (A.R.M.®) control functions can provide up to 35 percent cycle time reduction and improve quality by providing consistent electrode force with optimum arm and gun motion control.

The DX200 controller features patented multiple robot control technology to easily handle multiple tasks and control up to eight robots (72 axes). The DX200 has been designed to improve process capability, reduce energy usage, and improve maintainability and safety. 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, and it provides capabilities such as collaborative tasks. It is compliant to ANSI/RIA R15.06-2012 and other relevant ISO and CSA safety standards.

# 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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