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**MOTOMAN® MS120 “MASTER SPOT” WELDING ROBOT
FEATURES SLIM, LOW PROFILE FOR HIGH-DENSITY LAYOUTS**



DAYTON, OH (AUGUST 27, 2010) — Quick and agile, the six-axis MS120 “Master Spot” welding robot features a 120 kg (264.6 lb) payload and is more than 43 percent faster than a traditional heavy-payload robot, resulting in shorter takt times and higher throughput. Specifically designed to optimize automotive applications using DC spot guns with compact servo actuators, the slim-profile MS120 robot can be placed in close proximity to workpieces and other robots to create flexible, high-density layouts. These configurations can eliminate multiple stations, resulting in shorter production lines and smaller spot welding workcells.

Because it uses a lighter gun, the MS120 robot uses 33 percent less power even at its faster speeds. When combined with the improved efficiency of the smaller DC guns, the MS120 robot offers a 50 percent power savings.

With a streamlined body less than 500 mm (19.7”) wide, including the integrated spot harness, the compact MS120 robot has a 1,623 mm (63.9”) reach with a repeatability of ± 0.2 mm (0.008”). The short-reach MS120 robot is designed to be mounted close to car bodies or other parts, and its low profile allows larger robots to reach over it to work. Spot utilities (power, water, air, motor and signal lines) are integrated into the profile of the robot arm preventing interference and reducing programming time. Integrated harnesses also last more than six times longer than traditional harnesses, reducing maintenance and improving uptime.

Fast processing of the DX100 robot and system-level controller speeds commands for the MS120 robot, while Motoman Robotics’ patented multiple robot control (up to 8 robots/72 axes) provides superior collision avoidance features and facilitates programming. Advanced control functions optimize robot acceleration characteristics, reducing cycle time. Featuring a robust PC hardware architecture, the DX100 controller uses a Windows® CE programming pendant with color touch screen.

About Motoman Robotics

Founded in 1989, the Motoman Robotics Division of Yaskawa America, Inc. has grown to become the second largest robotics company in the Americas with an installed base of over 30,000 units. Its products include robotic automation solutions for virtually every industry and robotic application, including arc welding, assembly, coating, dispensing, material handling, material cutting, material removal and spot welding operations. For more information please visit our website at www.motoman.com.

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