MOTOMAN launches the DX-generation of robots and controller

Allershausen/Germany, June 9, 2009 – MOTOMAN, the robotic division of Yaskawa Electric Corporation, launches the new DX-generation of robots and controller. With numerous technological innovations, such as the DX100 controller with the capability of synchronous control of up to 8 robots (72 axes) and the high-speed MPK2 picking robot capable of 133 picks/minute.

The new MOTOMAN DX-robot range has new and improved robots for picking, packing and handling including the:

High-speed picking robot MPK2: the 5-axis MPK2 robot provides superior performance in food handling, picking, packing and other high-speed material handling applications, particularly in environments where cleanliness is important. The MPK2 robot features an IP-67 rating that permits wash down, and a hollow arm design that allows cables and hoses to be run internally throughout the entire robot from base to wrist. This high-speed robot with 2 kg payload allows for increased productivity with up to 133 picks/minute.

- The robot is wash-down (IP67) ready (wrist and body) for applications where cleanliness is important
- Space saving with minimal footprint
- High-speed robot for increased productivity
- Hollow wrist with through-the-arm cabling reduces interference, maintenance and facilitates programming
- Optional vision and conveyor tracking

High-speed packing robot MPK50: the fast and powerful 4-axis MPK50 robot offers superior performance and reliability in a wide variety of packing and handling applications. The MPK50 robot features a 50 kg payload and a wide 360-degree work envelope, combined with best-in-class motion, speed and wrist ratings. A slim manipulator design enables it to reach into confined spaces, reducing cycle time and improving system productivity.

- Large, 360-degree work envelope with minimum interference radius
- Hollow-arm provides internal path ready for fieldbus cable
- Heaviest payload in its class with highest axis speeds, wrist ratings
- IP54 arm with IP67 wrist (IP65-rated body optional)

General handling robots MH5-series: compact, powerful and economical, the new 6-axis MH5 and MH5L robots require minimal installation space and offer superior performance in a variety of applications such as packaging, material handling, machine tending and dispensing, where versatility is required. Internally routed cables and hoses maximize system reliability, reduce interference and facilitate programming. The MH5 (max. reach 706 mm) and MH5L (max. reach 895 mm) robots yield extraordinary production results while requiring minimal capital investment.

- Slim, powerful and economical
- Compact design allows maximum performance using minimal floor space
- Yields extraordinary production results while requiring minimal capital investment
- Internally routed cables and hoses maximize system reliability

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The new robots are all controlled by the open communication, dynamic next-generation DX100 robot controller:

**DX100**: Using patented multiple robot control technology, MOTOMAN's next-generation DX100 controller easily handles multiple tasks including control of up to eight robots (72 axes), as well as I/O devices and communication protocols. The DX100 features faster processing speeds, advanced robot arm control for smoother interpolation, built-in collision avoidance, and quicker I/O response. These advanced control functions take advantage of Yaskawa's Sigma V motor technology to optimize acceleration characteristics and reduce cycle time. Connections to the controller cabinet are made through the back of the unit, optimizing floor space. The DX100 conserves power during robot idle time, providing up to 25% energy savings. Featuring a robust PC architecture, the DX100 uses a Windows® CE, lightweight programming pendant with colour touch screen. Multiple window display capability and a unique cross-shaped navigation cursor considerably reduce teaching time. A convenient compact flash slot and USB port facilitate memory back-ups. All operator controls are located on the pendant, allowing the control cabinet to be mounted remotely.

- Patented multiple robot control (up to 8 robots/72 axes)
- Controller connections through back of unit optimize floor space
- Dynamic interference zones protect robot arm and provide advanced collision avoidance
- Faster processing, high performance
- Reduces teaching time
- Provides up to 25% energy savings

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About MOTOMAN
MOTOMAN, the robotic division of Yaskawa, is the world’s largest robot manufacturer with more than 200,000 robots installed world-wide. We provide the widest range of robots, including application dedicated robots for welding, palletising, handling, painting and clean-room applications, as well as turnkey welding systems with the highest possible quality of operations. MOTOMAN is dedicated to continuously improving productivity and output quality in various industries all over the world.

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