

MOTOMAN NEWS RELEASE

Photo filename: DX100controller.jpg

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CONTACT: Sally Fairchild
937.847.3202

NEW! NEXT-GENERATION MOTOMAN DX100 CONTROLLER PROVIDES ENHANCED MULTIPLE ROBOT AND SYSTEM-LEVEL CONTROLS



Dayton, Ohio — 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 energy-saving 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.

Featuring a robust PC architecture, the DX100 uses a Windows[®] CE programming pendant with color touch screen. Multiple window display capability and a unique cross-shaped navigation cursor reduce teaching time by 30 percent, and program files can now be up to 32 characters long. 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. Connections to the controller cabinet are made through the back of the unit, optimizing floorspace. The space-saving control cabinet allows for up to three external axes and can be remote-mounted. Top- or side-mount expansion options are available. The DX100 conserves power during robot idle time, providing up to 25 percent energy savings.

Its extensive I/O suite includes integral PLC and HMI pendant displays, 2,048 I/O and a graphical ladder editor that can provide an efficient system level control. The DX100 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.

The DX100 controller is compliant to ANSI/RIA 15.06-1999, ISO 10218-1-2007 and other relevant safety standards. It includes dual-channel E-Stop functionality, integrated speed monitoring, and manual brake release for the robot. An optional third-party certified Functional Safety Unit provides user-defined zone control and axis limits, plus speed and stopped-state monitoring. By minimizing the robot's restricted space, these features can be used to reduce the cell floorspace requirements.

By often eliminating the need for a separate PLC and human machine interface (HMI), the DX100 controller delivers significant cost savings at the system level, while also decreasing workcell complexity and improving overall reliability.

The DX100 has a reducer status check function that facilitates predictive maintenance. It also provides enhanced troubleshooting and alarm recovery, and a 20 percent improvement in MTTR (Mean Time To Repair).

For more information on Motoman products and services, visit the corporate web site at www.motoman.com, or call 937.847.6200.

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