

# MOTOMAN NEWS RELEASE

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## **MOTOMAN'S UNIQUE DUAL-ARM DA9IC ROBOT MAXIMIZES FLEXIBILITY IN MULTI-PROCESS APPLICATIONS**

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Dayton, Ohio — Motoman's unique, dual-arm DA9IC manipulator is another robot industry first. The DA9IC robot features coordinated and independent control of up to 11 axes of motion (12 axes with optional linear track). The two manipulator arms move up and down independently on the vertical lifting axis which has a turning axis at its base. This innovative design provides unmatched flexibility and the ability to perform multiple processes, such as small parts assembly, handling and machine tending.

The DA9IC robot can minimize capital equipment cost by eliminating the need for conveyors and expensive part fixturing, and maximize flexibility by using one arm as a part positioner for the other arm. Using one arm to unload a machine while the other arm simultaneously loads it can minimize cycle time. One dual-arm DA9IC robot takes up less space than two single-arm robots, and a single, integrated NXC100 robot controller coordinates the movement of both arms while automatically preventing collisions.

The DA9IC features a 9 kg (19.85-lb) payload per arm, maximum horizontal reach of 1,512 mm (59.5") and a repeatability of  $\pm 0.1$  mm (0.004"). The overall system working envelope can be adjusted by changing the length of the optional linear track. Additionally, multiple DA9IC robots can be installed on the same linear track.

Electrical and pneumatic lines are internally routed, and the NXC100 robot controller is built into the base of the robot. Simply connect the power supply and programming pendant, and the manipulator is ready to move.

The NXC100 controller features a Windows® CE programming pendant with color touch screen, high-speed processing, unmatched memory (60,000 steps, 10,000 instructions), built-in Ethernet, and a robust PC architecture. The NXC100 controller uses the same INFORM III programming language as the Motoman NX100 controller. It also includes an on-board graphical ladder editor, which can eliminate the need for a PLC, reducing overall system cost and complexity. The NXC100 features four levels of password protection for up to 100 individual users. It interfaces with vision systems in the same way as the NX100 and XRC controllers – minimizing program development time.

Dual-channel safety features include enhanced E-stop functionality, integrated speed monitoring, manual brake release switch, and compliance with the ANSI/RIA R15.06-1999 safety standard.

The NXC100 offers unmatched connectivity through standard Ethernet and other network options, including DeviceNet, ControlNet, Profibus-DP, and EtherNet/IP.

For more information on the DA9IC robot or other Motoman products and services, visit the corporate website at [www.motoman.com](http://www.motoman.com), call 937.847.6200 or write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449.

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