

# MOTOMAN NEWS RELEASE

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## MOTOMAN'S "HANDS ON THE HIGHWAY" CELL FEATURES DUAL-ARM ROBOT WITH INTEGRATED VISION: DEMONSTRATES ASSEMBLY TASKS, ENDLESS POSSIBILITIES

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Dayton, Ohio — Motoman's unique DA20 (dual-arm) robot featuring 13 axes of movement and human-like flexibility uses Motoman's MotoSight 2D integrated vision powered by OMRON vision components, to locate and identify randomly oriented parts of varying shapes on a table. A PC-based Human-Machine Interface (HMI) allows users to interactively select the order the robot uses to pick up uniquely shaped parts. The robot then picks up individual parts with one gripper, directly transfers the parts to the gripper on the other arm, and inserts them into the appropriate fixture location for that part's unique shape.

The DA20 robot is ideally suited to perform assembly or other independent tasks. The two arms also can work together to perform interdependent tasks and/or double the payload for handling heavy or unwieldy loads. The application possibilities are endless.

The DA20 robot is controlled by the Motoman NX100 robot controller that features a robust PC architecture, Windows® CE programming pendant, and easy-to-use INFORM III programming language.

The NX100 offers unmatched multiple axes control capability to maximize flexibility while minimizing cost of integration and eliminating risk of robot collisions. Dual-channel safety features include enhanced E-stop functionality, integrated speed monitoring, manual brake release switches, and compliance with both ANSI/RIA R1506-1999 and Canadian safety standards. The NX100 controller offers unmatched connectivity through standard Ethernet and other network options, including: DeviceNet, ControlNet, Profibus-DP, and EtherNet/IP. The programming pendant features a color touch-screen display that can be configured as a custom HMI (Human Machine Interface) with buttons and status indicators.

For more information on the DA20 robot, integrated vision or other Motoman products and services, visit our corporate web site 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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