

MOTOMAN NEWS RELEASE

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NEW! MOTOMAN DA20, DUAL-ARM ROBOT FEATURES INNOVATIVE, 13-AXIS DESIGN AND “HUMAN-LIKE” FLEXIBILITY OF MOVEMENT A QUANTUM LEAP IN ROBOT TECHNOLOGY



Dayton, Ohio — Motoman’s new DA20 dual-arm robot provides high-speed motion with two six-axis arms that provide enhanced, human-like flexibility of movement. This unique, innovative design makes the DA20 robot ideally suited for a wide variety of assembly, part transfer, machine tending and other handling tasks that formerly could only be done by people. The revolutionary DA20 features 13 axes of motion (6 axes per arm, plus a single axis for base rotation).

The DA20 robot has a 20 kg (44.1 lb) payload per arm, a 756 mm (29.8”) reach per arm (from centerline of base rotation to tool mounting surface), and a repeatability of ± 0.1 mm (0.004”). Both robot arms can work together on one task or the two manipulators can work independently to perform separate tasks. The DA20 robot can transfer a part from one of its arms to the other with no need to set the part down temporarily. It also provides “jigless” operation with one robot arm holding part while the other performs operations on the held part.

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 or other Motoman products and services, visit the corporate web site at www.motoman.com, call 937.847.6200 or write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449.

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