

MOTOMAN NEWS RELEASE

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NEW! MOTOMAN IA20 ROBOT FEATURES REVOLUTIONARY 7-AXIS DESIGN WITH AMAZING FREEDOM OF MOVEMENT A QUANTUM LEAP IN ROBOT TECHNOLOGY



Dayton, Ohio — Motoman's new IA20 robot features a revolutionary 7-axis actuator-driven design that enables amazing freedom of movement coupled with the ability to maneuver in very tight areas. Its advanced, innovative design opens up a wide range of industrial applications to robots. The agile, versatile IA20 is ideal for assembly, machine tending, insert molding, inspection, and a host of other operations.

Featuring a space saving design, the IA20 robot can straighten out vertically to take up only one square foot of floorspace or straighten out horizontally at a height of about two feet above the floor. Its minimized footprint and motion flexibility allow the manipulator to be positioned between machines or out of the normal working area (floor-, ceiling, wall-, incline- or machine-mounted).

The IA20 robot has a 20 kg (44.1 lb) payload, a 1,140 mm (44.88") reach (from centerline of base rotation to tool mounting surface), and a repeatability of ± 0.1 mm (0.004"). It 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 IA20 robot or other Motoman products and services, visit the corporate website 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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