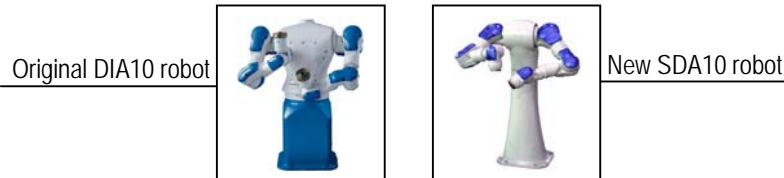


MOTOMAN NEWS RELEASE

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NEW! SLIM, DUAL-ARM MOTOMAN SDA10 ROBOT PROVIDES NEXT-GENERATION SPEED, APPLICATION FLEXIBILITY



Dayton, Ohio — Slim and agile, with “human-like” flexibility of movement, Motoman’s new dual-arm SDA10 robot is slimmer, stronger and has significantly faster acceleration than the previous (DIA10) model. With a shorter link distance between the P-point and flange, the SDA10 provides more flexible tool motion and a higher load carrying capacity. Its arms are set forward to maximize work envelope. This unique, innovative design makes the SDA10 robot ideally suited for a wide variety of assembly, part transfer, machine tending, packaging and other handling tasks that formerly could only be done by people. The revolutionary SDA10 features 15 axes of motion (7 axes per arm, plus a single axis for base rotation). Internally routed cables and hoses reduce interference and maintenance, and also make programming easier.

The SDA10’s actuator-based design means that the motor, encoder, reducer and brake for each robot axis are combined in one small, lightweight yet powerful package that is significantly smaller than a traditional AC servo motor drive. Advantages include a slim arm profile, lightweight robot body and high wrist moment and inertia ratings.

The space-efficient, highly flexible SDA10 robot features a 10 kg (22.1 lb) payload per arm, a 1,970 mm (77.6”) horizontal reach and 1,440 mm (56.7”) vertical reach per arm, with a repeatability of ± 0.1 mm (0.004”). Both robot arms can work together on one task to double the payload or handle heavy, unwieldy parts, trays or pallets. The two manipulators can perform independent operations at the same time. A Motoman dual-arm robot can hold a part with one arm while performing operations on the part with the other arm, and can also transfer a part from one of its arms to the other with no need to set the part down. The ability to use dual independent arms to process parts reduces the need for expensive custom fixturing and allows end-of-arm tooling to be simple and less costly.

The SDA10 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. 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 SDA10 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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