

MOTOMAN NEWS RELEASE

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MOTOSWEEP™ O: OVERHEAD ROBOT SOLUTIONS WITH EXTENDED-REACH FOR HIGH PRODUCTIVITY



Dayton, Ohio — Motoman's pre-engineered MotoSweep™ O solutions are ideal for robotic applications requiring extended reach, including: machine loading, material handling, welding, deburring, trimming, deflashing, and load/unload of injection mold machines. MotoSweep features the Motoman HP20 robot with a 20-kg payload or UP50N robot with 50-kg payload.

The robot can be C-frame or pedestal-mounted, with three different configurations available: servo, manual and fixed. The seventh-axis servo motor controls the sweep of the moveable boom in the servo configuration. For the manual configurations, operators move the boom by hand and locate it using pins. The fixed boom configuration does not sweep.

MotoSweep O features a 7-axis design (single-axis robot transporter and 6-axis robot) with a 6.7 rpm beam velocity and 0.1 mm (.004") total repeatability of both the robot transporter and robot. The HP20 robot has a 20-kg (44.1-lb) payload, and a repeatability of 0.06 mm (0.002"). When wall-mounted, the maximum reach is 4,387 mm (172.72"). When ceiling-mounted, the maximum reach is 4,072 mm (160.31").

The advanced new NX100 controller controls the robot and robot transporter. MotoSweep O solutions are easily deployed, and can often use existing machine layouts. MotoSweep O reduces floorspace requirements and allows better access to parts through machine tool front doors or tops. This configuration also provides easy access for tool changes and part setups.

An example of the flexibility of this configuration would be MotoSweep O loading/unloading three machining centers. The UP50N robot would load the part into the first machining center for Operation 1, transfer the part to the second machining center for Operation 2, transfer the part to the third machining center for Operation 3, and then transfer the valve to an outgoing part station.

MotoSweep's extended reach allows one robot to service multiple workstations located in linear, cluster/star configurations, maximizing productivity and use of capital equipment.

Robotic handling increases yield, and reduces handling damage to parts. It can also reduce repetitive motion injuries to human operators, which results in reduced worker compensation claims.

For more information on Motoman products and services, call 937.847.6200, write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449, or visit the corporate website at www.motoman.com.

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