

# MOTOMAN NEWS RELEASE

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## **MOTOMAN DEMONSTRATES HIGH-SPEED SMALL PARTS HANDLING WITH INTEGRATED VISION SYSTEM AND CONVEYOR TRACKING**

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Dayton, Ohio —Motoman will exhibit a new four-axis HM-10-700 SCARA robot and six-axis SV3J robot performing small parts handling with integrated vision and conveyor tracking at the Robot & Vision show June 3-5 at the Rosemont Convention Center in Rosemont, Illinois.

An integrated Cognex Insight 4000 vision system will detect the X, Y, and Theta (rotational) position of the parts on a moving conveyor for pickup by the HM-10-700 SCARA robot equipped with a vacuum gripper, which will then transfer the parts to a second conveyor. The compact, high-speed SV3J robot equipped with a vacuum gripper will pick parts off of the second conveyor and randomly place them onto the first conveyor.

Motoman's new HM-10-700 SCARA robot is one of a full line of four-axis SCARA robots offering ultra high-speed performance in a compact form that requires minimal installation space. The versatile HM-10-700 model features a 10 kg payload and a 700 mm (27.6") reach and a system repeatability of 0.02 mm (0.0008"). Motoman's HM-10-700 robot and other HS- and HM-series robots are ideal for small part assembly and handling, lab automation, case packing, magnetic media and semiconductor processing, or part kitting.

Motoman offers 11 basic SCARA robots with reaches ranging from 350-1000 mm, and Z-axis strokes from 200-320 mm. With payload ratings of 5, 10, and 20 kg, these robots feature high-powered motors, enhanced harmonic drives, and super strong structural designs to handle high moments of inertia. A hollow quill provides easy tool integration.

The HS and HM-series robots are available in standard (IP40), splash-resistant (IP65), and clean room (ISO4/Class 10-USFED 209E) versions to meet application requirements in a variety of conditions, including harsh, damp, or ultra-clean environments.

Weighing 30 kg (66.2 lbs.), the super-compact SV3J robot is a low-cost solution that provides superior performance for small part applications, such as kitting, packaging, material handling, and inspection. The fully articulated, six-axis SV3J robot features a 3-kg (6.6-lb.) payload capacity, a reach of 677 mm (26.7"), and a repeatability of  $\pm 0.03$  mm ( $\pm 0.001$ "). Due to its small footprint, the SV3J robot can easily be mounted on a table, track, or other mounting platform. The SV3J robot features brakes on all axes and can be floor-, ceiling, or wall-mounted to provide additional flexibility.

The JRC 2001 controller is one of the smallest controllers in its class. Its compact, but sturdy construction minimizes footprint requirements. It can be mounted easily under conveyors, in control cabinets, or in other small spaces. The Motoman SCARA robots feature the same compact JRC 2001 controller as Motoman's small six-axis robots (UPJ, CRJ, SV3J and CR3J).

Two lightweight, easy-to-use programming pendants are available -- a compact version for simple programming operations, and an enhanced version with a 6.5-inch color touch-screen for more complex programming. The JRC's easy-to-use programming language also allows robot programs to be created off-line on a PC. Libraries of subroutines are also available to enhance programming. JRC 2001 options include: EtherNet, DeviceNet (Master and Slave), floppy-disk drive, and vision sensor interface.

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](http://www.motoman.com).

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