

MOTOMAN NEWS RELEASE

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MOTOMAN SV3J ROBOT LIGHT-WEIGHT, LOW-COST ASSEMBLY and HANDLING SOLUTION



Dayton, Ohio —Weighing 30 kg (less than 70 lbs.), the compact SV3J robot is a low-cost solution ideal for small part assembly, machine tending, and material handling. The SV3J can also be integrated with vision systems for inspection and testing applications.

The fully articulated, six-axis robot features a 3-kg (6.6-lb.) payload capacity, a reach of 677 mm (26.7"), and a repeatability of ± 0.03 mm (± 0.001 "). The small footprint of the SV3J robot allows it to be easily mounted on a table, track, or other mounting platform. The SV3J moves at faster speeds than other robots in its class.

The SV3J robot comes with Motoman's PC-based, microminiature JRC controller that is only 430 mm W x 357 mm D x 149 mm H (16.9" W x 14" D x 5.9" H) and weighs only 17 kg (37.5 lbs.). The super-compact controller can be mounted under conveyors, in control cabinets, or in other small spaces. The JRC also features simplified programming language; 56 inputs (20 open/36 fixed by system); and 65 outputs (32 open/33 points fixed by system). RS232C and optional Ethernet connectivity allow programming to be done on a PC.

The SV3J has two programming pendant options – an economical one for simple operations and a full capability enhanced version – both used to teach manipulator positions. The enhanced programming pendant weighs about 1 kg (2.2 lbs.) and features a 6.5" color touch screen, jog dial, two deadman switches, scrolling options, and many enhanced navigational keys and functions.

The JRC's programming language is easy to use. Programs can be created using the enhanced robot teach pendant option; using the simplified teach pendant option in conjunction with additional PC application software; or off-line on the PC using the enhanced programming pendant. Library options are available to enhance programming.

Robot programs can be created almost completely offline, including I/O, logic, robot motion type, etc. Cycle time calculations and robot motion confirmation can be displayed on the PC without moving the actual robot. Only the actual robot points in the program are added using one of the two types of programming

pendant. Once the robot positions have been taught, the programming pendant can be disconnected. A dummy plug is then inserted into the JRC controller. This allows one programming pendant to be shared between multiple JRC controllers.

The JRC also includes Ethernet, DeviceNet Master, DeviceNet Slave, and vision sensor function as options.

For more information on the SV3J robot and additional 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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