

MOTOMAN NEWS RELEASE

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MOTOMAN'S MODULAR, PRE-ENGINEERED PACKWORLD™: STANDARD SOLUTION FOR ROBOTIC PACKAGING OF CONSUMER PRODUCTS



Dayton, Ohio — Motoman continues its modular, flexible concept for robotic packaging solutions with PackWorld, now available with HP-series “High-Performance” robots. This modular cell is designed to handle packaging applications that require low cost, high functionality, and quick delivery. Pre-engineered modules are integrated with the robot to achieve desired functionality and packaging throughput. Standard components include a Motoman high-speed, 6-axis robot, NX100 controller and menu-driven application software, an integrated gripper package, divider rack, powered conveyor(s), operator interface, and total safety environment.

Benefits of a standard solution include:

- Low engineering costs
- Productivity increased through highly reliable operation
- Reduced lost production time and worker’s compensation claims resulting from back injuries and carpal tunnel syndrome

Motoman's high-speed robots are ideal for packaging applications. Depending on payload and reach requirements, the SV3X, HP6, HP20 or UP50N robots can be integrated in a PackWorld solution. Each flexible robot has six degrees of freedom for easy placement of products in non-partitioned cases. These robots can be equipped with various grippers (i.e. mechanical or vacuum), depending upon the application. Reconfigurable grippers can accommodate a complete range of consumer products, including plastics, bottles, small boxes, bags, or irregular shapes, and can make multiple picks at a time.

PackWorld's flexible, add-on modules allow for customizing or upgrading system capabilities. Packaging configuration and options include:

- conveyors
- conveyor
- programming
- Case erector
- Partition inserter
- Label printer/applicator
- Bar code reader
- Multiple product infeed
- Belt or two-strand
- Off-line

PackWorld reliability, especially important for automation, is a major factor for its high performance. Motoman robots are highly reliable and feature an average MTBF (Mean Time Between Failure) of over 62,000 hours for both the robot and controller. PackWorld is fully safeguarded from power loss with special power failure recovery processing and absolute encoders that require no homing operation after power loss. Users can now avoid costly start-up delays after power failures, emergency stops, or planned shutdowns.

The new NX100 robot controller builds on Motoman's patented multiple robot control technology, making it even faster and easier to use, and adds a revolutionary user interface, based on industry-standard Windows® CE, that reduces system complexity. The pendant features a larger 6.5" color touch-screen display with built-in compact flash card slot for easy back-up. The use of a unique cross-shaped navigation cursor reduces teaching time by 30 percent. The NX100 has been transformed from a robot controller into a robust system-level cell/robot controller. It features an integrated "soft PLC" with increased I/O (1,024), faster scan time, and support for larger ladder programs (10,000 steps), and a graphical ladder editor that runs on the pendant. The NX100 controller also offers unmatched connectability, including a standard Ethernet port, with TCP/IP and FTP protocols. The NX010 readily connects to a variety of Fieldbus networks, including DeviceNet, ProfiBus, EtherNet/IP, etc.

For more information on PackWorld or other Motoman products, call 937.847.6200, write to Motoman Inc., 805 Liberty Lane, West Carrollton, Ohio, USA 45449, or visit www.motoman.com.

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