

# MOTOMAN NEWS RELEASE

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## **MOTOMAN'S ARCWORLD® V-1000 SERIES: HIGH-PERFORMANCE WORKCELL REQUIRES 40% LESS FLOORSACE**

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Dayton, Ohio — Motoman's pre-engineered ArcWorld V-1000 series family of integrated robotic solutions is tailored to meet the arc welding needs of high-end fabricators or Tier-One automotive production. The ArcWorld V-1000 cell features one overhead-mounted six-axis EA1400TN "Expert Arc" welding robot. The ArcWorld V-1200 delivers HyperProductivity® with two overhead-mounted EA1400TN robots controlled by a single NX100 controller to provide programming simplicity. Overhead mounting the robots improves access to the work piece(s) and reduces floorspace requirements by up to 40 percent over a similar cell with floor-mounted robots.

The ArcWorld V-1000 series includes a Motoman MR-300 rotary positioner that indexes 180-degrees in just four seconds and handles a payload of up to 300 kg (661.5 lbs) per side. An MSR-500 positioner with 500 kg (1,102.5-lb) capacity and two-second index time is also available. The H-frame tabletop design features simple fixture supports, a hollow through-hole for easy routing of fixture utilities, and threaded holes and dowel pins for easy installation of fixtures. Motoman offers two sizes of fixture plates as options: 350 mm x 500 mm (13.8" x 19.7") and 650 mm x 1,000 mm (25.6" x 39.4").

The advanced EA1400TN welding robot features an integrated cable design that improves cable life, reduces programming time by eliminating cable interference, and facilitates circumferential welding on large parts. The compact EA1400TN robot has a 3-kg (6.6-lb) payload, a 1,390-mm (54.8") horizontal reach, and a repeatability of  $\pm 0.08$  mm ( $\pm 0.003$ "). An EA1900TN robot with a 1,904 mm (75") horizontal reach is available as an option for the ArcWorld V-1000 cell. The NX100 controller is capable of Multiple Robot Control of up to FOUR robots (36 axes of motion) with a single point of control.

The ArcWorld V-1200 demonstration at the 2005 International FabTech and AWS Welding Show in Chicago will feature a side-by-side comparison of a general-purpose Motoman HP6 robot and an EA1400TN "Expert Arc" welding robot, highlighting the advantages of the integrated torch cable on the application-specific EA1400TN model.

The ArcWorld V-1000 series includes a *total safety environment* with dual-channel safety-rated, tamper-resistant interlocks; complete barrier guarding; single point of operator control (for all robots); and dual-channel light curtains at the front of the cell – all in compliance with the ANSI/RIA R15.06-1999 safety standard.

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

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