

# MOTOMAN NEWS RELEASE

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## ARCWORLD IV-6200 SOLUTION PROVIDES HYPERPRODUCTIVITY® WITH DUAL ROBOTS, FASTER POSITIONER

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Dayton, Ohio — The Motoman ArcWorld® IV-6200 solution features dual EA1900N or SSA2000 “Expert Arc” welding robots with multiple robot control, a high-speed trunnion positioner, integrated welding package, operator interface and a total safety environment. Independent drive on each of the three positioner axes enables the operator to index the load station or allows both stations to turn while the positioner sweeps, saving cycle time.

Designed to optimize arc welding, application-specific Motoman “Expert Arc” models include six-axis EA-Series and SSA-series robots that feature integrated through-the-arm torch cabling, which allows access into tight spaces, eliminates cable interference, simplifies programming, and reduces cable wear. The newest member of the “Expert Arc” family is the SSA2000, the world’s fastest arc welding robot, featuring cutting-edge motor control technology that increases the motion speed of the robot up to 40 percent. The SSA2000 can reduce welding cycle time 15%, greatly enhancing productivity.

### **MRM2-250M3X and MRM2-750M3X TRUNNION PART POSITIONERS**

The MRM2-250 and MRM2-750M3X positioners feature the fastest indexing time in their class. They are available with 250 kg (551.3 lb) or 750 kg (1,653.8 lb) payloads. The 250 kg payload version indexes in 1.5 seconds; the 750 kg payload version indexes in 2.25 seconds.

These positioners are available in standard lengths of 2.0 and 3.0 meters between mounting surfaces, but can easily be extended. They provide a turning diameter of 1.3 meters (51.2”) to accommodate large parts and tooling.

The MRM2-250/750M3X positioners utilize independent servo motor drives on each of its three axes for high-speed positioning. This reduces cycle times by allowing fixtures to rotate into working position while the main sweep axis indexes between stations. Application flexibility is also a benefit because the load station can be programmed to a more ergonomic orientation. The operator can also jog the load station if manual tack welding is required.

The positioners utilize the MotoMount™ fixture mounting system. This patent-pending design eliminates stresses from poor fixture alignment from being transferred into the bearings or servo drives. MotoMount also provides a horizontal mounting surface with locating pins for easier fixture changeover.

### **ARCWORLD IV-6000 SERIES OPTIONS**

The workcell is available with Motoman's leading multiple robot control technology. Two, three or even four welding robots can be incorporated into the cell and controlled from a single teach pendant. In addition, the single and dual robot AWIV variations are available with the longer-reach EA1900N robot.

The ArcWorld workcell is available with an optional tip change window. This provides an interlocked door on the workcell where operators can service consumables on the welding torch without the need to enter the workcell.

It can also be combined with automatic tip checking devices such as ToolSight or ToolSight6D. ToolSight is designed to automatically detect variation in wire position (TCP) before parts are produced.

For more information on ArcWorld solutions or other 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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