

MOTOMAN NEWS RELEASE

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**Contact: Sally Fairchild
937.847.3202**

MOTOMAN'S NEW HYPERFEED II WIRE FEEDER PROVIDES FASTER ARC STARTS/STOPS FOR MORE PARTS PER HOUR



Dayton, Ohio — Saving milliseconds per weld adds up to significant cost savings over time. Designed around the philosophy that optimizing application uptime and throughput results in producing more parts per hour, Motoman's new HyperFeed II wire feeder system has been engineered to start and end welds faster, and interface more efficiently with a variety of semi-automatic power sources. The HyperFeed II system can be interfaced to Motoman ERC, MRC, XRC, and NX100 robot controllers.

Customers who currently utilize Motoman MotoArc or Hobart power sources in their robotic workcells can opt to keep their existing power source and simply upgrade their wire feed system to the new HyperFeed II. This state-of-the-art feed system replaces the PWF wire feeder, KXA motor control, and the UWI interface. Benefits include similar or improved wire feed speed regulation, faster arc starts and arc ends, state-of-the-art motor control technology, and future upgradeability.

For those looking for a new power source and feed system, Motoman offers the HyperFeed II system packaged with a variety of power sources, from simple and cost-effective CV SCR welders to highly efficient inverter power sources. The Miller DeltaWeld family of welders includes rugged SCR machines that offer cost-effective, high-quality CV welds on parts requiring heavy-deposition. The XMT-series welders are inverter-style machines that are better suited for thinner-gauge, lower-current applications. The inverter is more efficient and features Miller's AutoLine™ self-tapping power line. When Motoman's HyperFeed II wire feed system is paired with these semi-automatic welders, the user can expect fast, low-spatter starts, precise speed regulation while welding, and fast arc-ends, resulting in minimal ball size at the end of the wire.

Regardless of which power source is selected, two main components of the HyperFeed II feeder/interface system are the HyperFeed II open-frame wire feeder and the "Motoman Welder Interface" (MWI), both of which are detailed below.

The HyperFeed II open-frame wire feeder is equipped with four geared feed rolls, and is rated at 500 Amps at 100% duty cycle with a maximum speed of 750 inches per minute. It is equipped with 0.035"/0.045", (1.2 mm/1.6 mm) feed rolls as standard.

The wire feeder is engineered for use with Motoman EA1400N/EA1900N “Expert Arc” welding robots, and requires a Motoman Welder Interface (MWI) to the robot controller. The feeder is equipped with a low-inertia drive system, smaller diameter drive rolls, and a high-performance, solid-state motor control board. Locating the motor control board inside the feeder ensures maximum motor performance. Higher weld system productivity requires faster response wire feeding. High-performance wire feeding means improved arc starting and reduced spatter at arc end, which means higher weld system productivity. The unit has an LED wire feed speed display and outputs for optional air blast and wire brake solenoid.

The multi-purpose MWI circuit board located within the robot controller cabinet passes I/O status signals between the robot controller to the welding power source. It measures and digitizes the commanded wire feed speed and voltage generated by the robot controller and sends the digitized value to the HyperFeed II wire feeder. Digital communication allows long distances between the robot controller and wire feeder and provides remote I/O (for shock sensor, purge, inch, etc.) with minimal wiring.

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

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