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**PERFECTEDGE ROBOTIC FINISHING SOLUTION PERFORMS
TIGHT TOLERANCE CHAMFERING AND DEBURRING**



DAYTON, OH (SEPTEMBER 13, 2010) — PerfectEdge™, a complete, full function robotic solution, meets the challenges of tight tolerance chamfering, deburring or finishing processes, while offering a non-touch teach method of programming. Designed in collaboration with Arrow Gear, it includes a six-axis Motoman® DX1350D industrial robot and a precision indexer with hollow chuck controlled by a Yaskawa Sigma-5 servo motor for fixturing shafted gears.

The cell has an eight-slot protected tool holder, and an Alfred Jaeger spindle that provides the muscle, speed control and holding torque to perform the most demanding tasks. PerfectEdge has the capacity to process 20 inch diameter by 10 inch cylindrical parts. Designed on a common base with fork pockets, PerfectEdge can easily be deployed or relocated.

Programming is easy with menu-driven material removal software. Motoman Robotics' powerful G-Code/Points Importer off-line programming software drives the robot from your part data. G-Code converter translates the CAM file into programs that are downloaded to the robot controller. PerfectEdge then provides consistent, predictable results, part after part.

The PerfectEdge cell features a polycarbonate and aluminum full safety enclosure with electrically interlocked access doors. A particle and fume extraction system is included, making PerfectEdge easy to connect to an air handling system. Repetitive stress injuries and operator fatigue are eliminated, reducing scrap rates and improving safety. It is compliant to ANSI/RIA R15.06-1999 and other relevant ISO and CSA safety standards. A CE compliant version is available upon request.

About Motoman Robotics

Founded in 1989, the Motoman Robotics Division of Yaskawa America, Inc. has grown to become the second largest robotics company in the Americas with an installed base of over 30,000 units. Its products include robotic automation solutions for virtually every industry and robotic application, including arc welding, assembly, coating, dispensing, material handling, material cutting, material removal and spot welding operations. For more information, please visit our website at www.motoman.com.

About Arrow Gear

Arrow Gear is one of the leading high precision gear manufacturers worldwide. With 75 years experience in manufacturing high tolerance gears for the aerospace and commercial aircraft industry, Arrow Gear has developed patented finishing tools and methodologies that are incorporated into the PerfectEdge platform. For more information, please visit our website at www.arrowgear.com.

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