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Productivity in Motion



KMT Robotic Solutions' Quarterly eNewsletter

June 2008

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New RoboTrim® DRT-502 Trims Plastic and Composite Parts



The new RoboTrim® DRT-502 is perhaps one of the most unique robotic router trimming systems offered by KMT. Like many of KMT's other enclosed systems, the DRT-502 has a rotating wall that indexes large plastic or composite parts between the robot work area and the operator station for increased throughput. Unlike other systems, however, each side of the rotating wall has a

built-in coordinated motion table where the part fixture can be mounted. The coordinated motion work tables allow the part to be rotated in front of the robot during trimming, which enables the AccuTrim® robot to effectively trim all sides of the work piece without having to reach around the part.

For additional information on the RoboTrim DRT-502, [please click here](#) to send an inquiry.

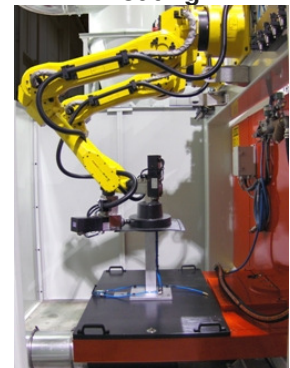
KMT's Waterjet Stripping System Helps General Electric Reduce Costs and Improve Productivity

General Electric's Engine Services facility in Strother, Kansas, is responsible for repairing, overhauling, and performing general maintenance on new and used aircraft engine components. For the past 12 years, GE Strother used a waterjet stripping machine with a closed loop filtering process to remove thermal sprayed coatings from jet engine components. Although this process was effective, the closed-loop waste filtering process was expensive.



"KMT worked hand-in-hand with GE Engineering to develop an efficient, open-loop filtering system for stripping process waste," said GE Engine Services Special Process Engineer John Segovia. "This included great outside of the box

Routing



Waterjet Cutting



Waterjet Cleaning



Laser

thinking and simple ideas for a complex problem.”

KMT manufactured a customized Stationary IV Stripping system with an overhead rail-mounted ABB IRB-2400 robot, CleaningWare software, and a Streamline SL-V 100R Plus intensifier from KMT Waterjet. According to Segovia, the new open-loop filtering system reduced filter costs by 75% and improved production by 25%.

To read the complete story, [please click here](#).

No More Rubber Mallets! System Calibration Tools Make Life Easier for Thermoformers and Blowmolders



Manufacturers that use CNC machines are typically forced to spend an average of 30-40 minutes setting up a new fixture and aligning the spindle. Even when it seems as though everything is in place, they may have to run three to five parts to “dial in” their equipment. System Calibration Tools, when used on a KMT RoboTrim or JetTool robotic trimming system, can detect tool center

points and automatically offset the trimming program to match the fixture position in an average of 15 minutes. If your robotic system is also set up with a Tag or Bar Code Reader, the trimming program will also be called up automatically.

System Calibration Tools are not only more convenient, but they also produce great results. Customers report having a usable first part immediately after the machine is set up. [Click here](#) to learn more about how KMT’s System Calibration Tools can help improve your manufacturing operations.

KMT Robotic Solutions GmbH Teaches Customers How to Improve Productivity and Overall Equipment Effectiveness

KMT Robotic Solutions GmbH in Wetzlar, Germany, conducted a one-day seminar to teach customers how [offline programming](#), KMT’s Total Production Concept and Sponder would help them improve productivity and Overall Equipment Effectiveness. Offline programming reduces the time required to develop and optimize part programs, which results in improved uptime and productivity. The Total Production Concept combines KMT’s simulation, programming and fixture development services to ensure exceptional part quality. The 19 attendees from seven different companies also learned how Sponder Information (a tool that measures production parameters) and Sponder Remote (a tool that helps reduce downtime) could assist them with continuous process control, system maintenance planning and system documentation storage.



Thomas Klimanietz, KMT Aftermarket Sales, said he felt the seminar was beneficial to both KMT and its customers. “It was great to be able to have direct dialog with our customers. We’ve planned to have at least one or two events like this each year.”

If you’d be interested in attending one of KMT Robotic Solutions GmbH’s customer seminars (recommended for European manufacturing facilities), or would like additional information, please send an e-mail to robotic.eu@kmtgroup.com.

KMT Pumps Up its High-Pressure Maintenance Support

KMT is known for its exceptional field service, so it’s no surprise that KMT’s North American High-Pressure Pump maintenance service has gotten even



Knife



Welding



Material Handling



Dispensing



better! Several members of KMT's Field Service team are now cross-trained to perform maintenance on KMT, H2O Jet and Flow pumps. What does this mean to you? More KMT service professionals to serve you when you need it most.

"We knew that having more technicians trained in high pressure was crucial to being able to better support our customers," said KMT Aftermarket Services Manager James Wogan. "We now have several fully-trained technicians in the field that are exceptionally talented in repairing anything from on/off and check valves to coils and high pressure cylinders on any equipment we sell or have sold in the past."

For additional information on KMT's North American Aftermarket services, [please click here](#).

KMT Robotic Solutions Inc. Offers Summer Training Special

KMT Robotic Solutions in Auburn Hills, Mich., is offering the following specials for each of its regularly scheduled training courses:

Buy (1) 5-Day Class, get (1) 3-Day Class FREE, or Buy (2) 5-Day Classes, get (1) 5-Day Class FREE!

The free training credits earned in association with this offer must be used within 90 days of completing the initial, regularly priced class. This offer is not valid in combination with any other offers.



[Click here](#) to view the training schedule or to enroll online. If you have any questions, or would like additional information, [click here](#) to contact Scott Blaylock, KMT's Training Coordinator.

The offer is valid through Sept. 30, 2008.

Ask the Experts: KMT Answers your Technical Questions

Q: Why should I invest in a block and bleed on my new or existing waterjet system?

A: The block and bleed protects the intensifier pump from having to be stopped frequently to allow personnel safe entry into the work cell. Depending on certain conditions and frequency, using the intensifier pump to discharge system pressure significantly impacts the life of the intensifier and electrical components. In many instances, we have been able to correlate higher operating costs and down time to machines that are stopped or turned off multiple times per hour because of light curtain infractions and other common causes of fault conditions.



Q: My JetVac vacuum system clogs up with material and I have to take the ducting apart frequently. What can I do to prevent it?

A: First, make sure the JetVac is turned off when the robots are not running (during breaks, lunch, shift change, etc.). When water isn't being added to the air stream, the material inside the ducting will dry out, stick to the walls, and continue to cause clogs. If this is already your operating condition and you're still having problems, you may need to add or recirculate more water into your system to provide a continual flush. For more details, call Jim Wogan at +1 (248) 829-2825 or contact your sales engineer.

To submit a question to KMT's experts, or for additional information regarding the topics above, please send an e-mail to robotic.na@kmtgroup.com.

**KMT Robotic Solutions provides easy-to-use,
flexible automation systems that improve productivity,
increase safety and maximize quality.**

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