

[<Back](#)[Print](#)

Productivity in Motion



KMT Robotic Solutions' Quarterly eNewsletter

September 2008

Articles:

- [New RoboTrim RT-1402 Trims Parts 75 Percent Faster than 5-axis CNC](#)
- [KMT Robotic Solutions Sells First H2O Jet Pump in China](#)
- [KMT RoboTrim System Helps Medallion Plastics Increase Production and Reduce Scrap](#)
- [KMT Robotic Solutions 2008 Tradeshow Lineup – Visit us!](#)
- [Produce More Parts Per Hour with KMT's AccuTrim® Robots](#)
- [Ask The Experts: KMT Answers your Technical Questions](#)
- [KMT's Legendary Customer Service - Another Quality that Sets Us Apart from our Competitors](#)

New RoboTrim RT-1402 Trims Parts 75 Percent Faster than 5-axis CNC



KMT's new RoboTrim® RT-1402 is a cost-effective, turnkey robotic router trimming system that provides plastics and composite manufacturers with a flexible and reliable means to trim medium and large parts. The RT-1402 system provides more than 75 percent higher throughput than traditional 5-axis CNC's (depending on the number of tool changes required), enabling it to

produce more quality parts per hour.

The RT-1402 standard model features two riser-mounted KMT AccuTrim R-110 robots inside a steel enclosure. The system's two-sided 14-foot rotating table can accommodate parts up to 4 feet long and 10 feet wide. The two position table allows for higher throughput by giving operators the ability to load or unload parts on the outside of the cell while the robot is trimming on the inside.

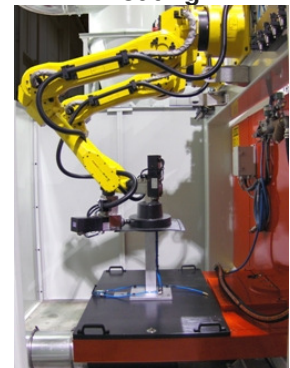
For more detailed information about the RoboTrim RT-1402, including additional features and options, please [contact us](#).

KMT Robotic Solutions Sells First H2O Jet Pump in China

KMT Shanghai recently sold the first KMT H2O pump in China. The ADVANTAGE 50 HP Redundant was sold as part of a KMT Original V Waterjet system to longtime customer GSK Group for use in their new Wuhan plant. The Original V, to be manufactured by KMT Robotic Solutions AB in Sweden, is the sixth KMT robotic system operated by the Taiwan-based company. GSK Group moved very early in the Chinese market to become one of the major sub-suppliers of automotive interior trim parts.



Routing



Waterjet Cutting



Waterjet Cleaning



Laser

KMT's relationship with GSK in Wuxi started in 2003 when KMT was asked to

upgrade 3 existing waterjet gantry systems with newer generation ABB robots, KMT robot tubing kits and KMT's exclusive WaterjetWare software. The customer was very satisfied with the shorter part cycle times and the productivity gains achieved with that upgrade and since then, GSK Group has been regularly investing in KMT Robotic Solutions systems.

For additional information on this article, please [contact us](#).



KMT RoboTrim System Helps Medallion Plastics Increase Production and Reduce Scrap

Medallion Plastics, one of the premier thermoformers in the Midwest, needed a trimming solution with the flexibility to process the variety of custom parts it manufactures for the automotive, transportation, and recreational vehicle industries (among others). Medallion wanted the new system to not only be more productive, cost-effective and reliable than the 5-axis CNC it was using, but also wanted a repeatable solution that would reduce scrap and labor costs.

KMT (then RPT) developed a large capacity, custom RoboTrim® router trimming system with an R-2000 robot and a servo-controlled 2-position rotating table that accommodated a part as large as 100" x 49" x 21". The system is flexible enough to run hundreds of different parts, yet efficient enough to process an instrument panel in less than four minutes (versus the nine minutes it took the 5-axis CNC machine).

Because the large capacity RoboTrim system increased production by 35%, improved part quality, and reduced scrap and labor costs, Medallion soon purchased a RoboTrim RT-1000 system shortly after.

To learn more about Medallion Plastics' automation implementation, please [click here](#).

Knife



Welding



KMT Robotic Solutions 2008 Tradeshow Lineup – Visit us!

2008 SPE Thermoforming Conference; Minneapolis, Minn., USA; Sept. 20-23

Visit the KMT Robotic Solutions North American team in Booth 540 at the 2008 SPE Thermoforming Conference from Sept. 20-22. You'll see a live trimming demonstration of our most popular RoboTrim® system – the RT-1002. KMT will showcase the RoboTrim® RT-1002 router trimming system and revolutionary CAMpro® offline programming software. Visit us to see a live demonstration and learn firsthand how our production solutions and improve your productivity and profitability.



Material Handling



International Boatbuilders' Expo; Miami, Fla., USA; October 6-8

Also be on the lookout for us at the 2008 International Boat Builders' Exhibition and Conference (IBEX) in Miami, Fla. Oct. 6-8 in Booth 1949 with FANUC Robotics. Stop by to see KMT's variety of trimming solutions for large and small composite, carbon fiber and fiberglass reinforced plastic products.

Dispensing



FAKUMA; Friedrichshafen, Germany; Oct. 14-18

Visit the KMT Robotic Solutions European team at FAKUMA 2008 – Europe's number one trade fair for injection molders. KMT will exhibit in Hall A1, Booth A1-1416 with router bit supplier Hufschmied. KMT will show live trimming demonstrations of a thermoformed aircraft component and showcase software tools like Collision Guard, TCPCal and CellCal on its RoboTrim RT-

1002 routing system.

Produce More Parts Per Hour with KMT's AccuTrim® Robots



Have you ever stopped to think about how many parts per hour you could produce if your robotic trimming system ran 8 percent faster? The latest version of KMT's AccuTrim® WJ-44 (waterjet) and R-44 (routing) brand robot can move 8 percent faster while still maintaining quality trim path performance. This means that upgrading your robots that are more than seven years old could save you tens and even hundreds of thousands of dollars each year!*

[Contact us](#) for a free review to determine whether your system will benefit from an upgrade.

*This factor depends on whether you have demand for more productivity, the amount of time it currently takes to trim a part, the number of hours per year that you run production and how much each part is worth to your company.

Ask The Experts: KMT Answers your Technical Questions



Q: What can I do to improve the life of my routing spindle?

A: The following steps can be taken to improve system uptime and to make sure you get the most out of your routing spindle:

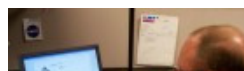
- Pay attention to the balance of your router tooling set-ups on spindles with tool change capability. Balanced tool holders and cutters are critical to spindle life.
- Develop a system to track the wear of your cutters. Determining whether you get a consistent number of parts trimmed on each cutter can lead to a better understanding of process variance, how to save money getting cutters reconditioned and how to protect the spindle bearings from excess loads.
- Follow the warm-up recommendations for your particular spindle.
- Make sure the cutters you're using are the correct size and length for the spindle
- Since it is recommended that spindle bearings be rebuilt after 5,000 hours, it is helpful to track spindle run time

Q: Should I replace both sides of my intensifier when only one side fails?

A: Yes. Typically, if all is well with the tolerances in your hardware, the seals should fail pretty close together in time. Because it's a dual-acting machine, what happens on the left also happens on the right. If you only replace one side, the other side could fail shortly afterward and over time it could seem as though your intensifier needs continuous maintenance – especially in a high-volume application. We like to use the car tire analogy: If you've driven over the rated mileage on your entire set of tires and one tire fails, do you only replace the failed tire?

KMT's Legendary Customer Service - Another Quality that Sets Us Apart from our Competitors

[KMT's legendary field service](#) and hotline support is unmatched in the industry. Our staff of dedicated service



professionals is available to help with any issues concerning the robot, tooling, controls, or any part of the entire system. KMT has earned the confidence of world-class robot manufacturers. Let us show you why we're the best choice in robotic automation.

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

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