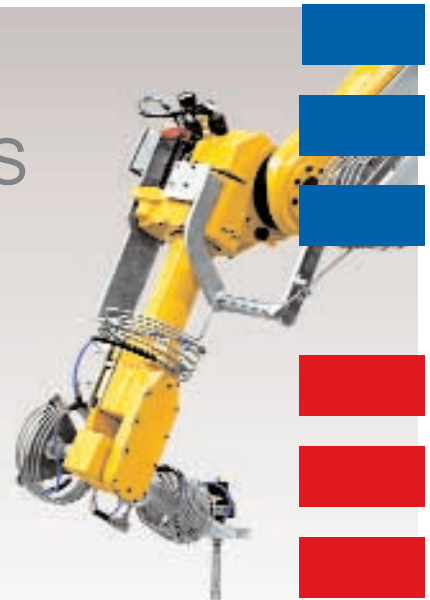


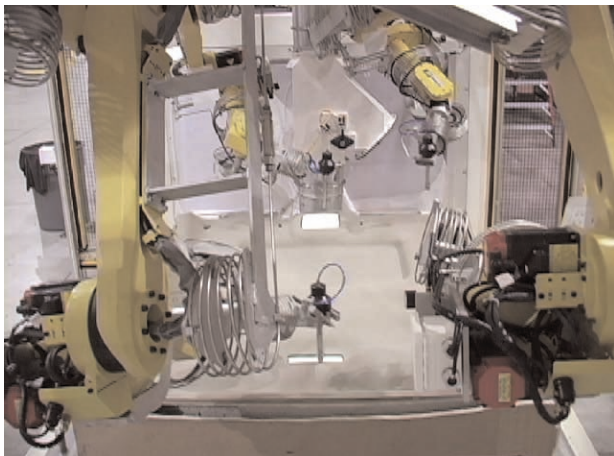
# KMT Robotic Solutions ACCU TRIM ROBOT SERIES

## KMT's AccuTrim® Robots Improve Trimming Performance and Reduce Programming Time



Today's demanding, path-intensive trimming applications require a new approach to optimizing path accuracy, minimizing cycle time and reducing programming time.

FANUC Robotics America and its exclusive waterjet cutting and non-metallic routing partner, KMT Robotic Solutions, have addressed this challenge with the introduction of revolutionary AccuTrim® robots. The WJ-series models (configured specifically for path-intensive waterjet cutting) and the R-series robots (configured specifically for high-speed spindle routing) are available exclusively through KMT.



The four AccuTrim robots (shown above trimming a headliner) are optimized to trim the small holes and larger slots quickly and accurately.

The AccuTrim models are beneficial whether programming is done manually or using a CAD model of the part. In manual mode, KMT's JetWare® and RouterWare® programming interfaces streamline the teaching of standard features like circles, rectangles and slots. Many other proprietary software features optimize the robot's performance in trimming continuous paths and small features. In the offline programming mode, the CAD-to-path programming interface provided by KMT's TrimPro® package enables the near automatic path generation of complex cuts simultaneously optimized for path accuracy and cycle time.

Additional specially developed FANUC motion analysis tools running on a PC connected to the robot controller allow for further path, small feature and cycle time optimization.

KMT research reveals that AccuTrim robots reduce programming time up to 30 percent in manual teach mode and up to 70 percent in offline programming mode. Cycle time can also be reduced by up to 20 percent while still maintaining satisfactory part quality.

AccuTrim robots are configured to provide the highest motion performance possible for small shapes such as circles, rectangles and slots. They also have highly accurate perimeter path trimming capabilities.



KMT Robotic Solutions is a FANUC  
Robotics Authorized Integrator.

[www.kmtrobotic.com](http://www.kmtrobotic.com)





Whether you're using a waterjet cutting or routing process, an AccuTrim robot-executed trimming process can significantly improve part accuracy while reducing cycle and programming time.

### KMT JetWare® and RouterWare®

AccuTrim configurations include proprietary, user-friendly software packages that provide many utilities for creating and adjusting cut paths for trimming applications. These programming interfaces allow users to dramatically reduce the time required to develop and adjust programs when teaching a part. Each package includes online, menu-driven development of geometric shapes by teaching one-to-three points versus the six-to-fifteen normally required. The shapes are generated mathematically, saving time and robot memory.

Configurations	WJ-44	WJ-22L	WJ-44L	R-44	R-110	R-363
FANUC M-20iA/20	✓			✓		
FANUC M-20iA/10L		✓				
FANUC M-710iC/50					✓	
FANUC M-710iC/20L			✓			
FANUC R-2000iB/165						✓
High Pressure Plumbing	✓	✓	✓			
Routing Pkg. Hardware				✓	✓	✓
KMTJetWare® Software	✓	✓	✓			
KMT RouterWare®				✓	✓	✓
Unique FANUC Software	✓	✓	✓	✓	✓	✓

### AccuTrim Robot Benefits:

- ✓ Optimized performance for path accuracy, repeatability and cycle time
- ✓ Faster and higher quality small feature trimming
- ✓ Significantly reduced teaching and touch-up time
- ✓ Improved ability to run CAD-to-Path generated programs with minimal touch-up
- ✓ AccuTrim robots can cut circles to a roundness of +/- 0.002"
- ✓ Cloning of robot programs from one work cell to another with minimal touch-ups

### TrimPro® Software

TrimPro® software provides offline simulation for FANUC robots in waterjet and routing applications. TrimPro offers several benefits, including work cell monitoring tools, CAD mode import, path teaching, reach check, cycle time estimation, collision detection and AVI file generation. TrimPro enables robotic waterjet and routing systems to be validated in a virtual environment, saving valuable production time. When running on a PC interfaced to the robot controller, TrimPro automatically detects small shape programs on the AccuTrim robot, the PC automatically collects the data and analyzes the motion performance. The user can study the differences between actual vs. expected shape and use automatic or manual parameter adjustments to make the necessary modifications.

[www.kmtrobotic.com](http://www.kmtrobotic.com)



KMT Robotic Solutions.  
Creating value through automation.

KMT Robotic Solutions Inc.  
1255 Harmon Rd.  
Auburn Hills, MI 48326 USA  
Phone: (248) 829-2800  
Fax: (248) 829-2750  
Email: [solutions.na@kmtrobotic.com](mailto:solutions.na@kmtrobotic.com)

KMT Robotic Solutions GmbH  
Schanzenfeldstraße 14b  
D-35578 Wetzlar, Germany  
Phone: +49 6441 44 596 0  
Fax: +49 6441 44 596 66  
Email: [solutions.eu@kmtrobotic.com](mailto:solutions.eu@kmtrobotic.com)