

# KMT Robotic Solutions RoboTrim® RT-502 ROUTER TRIMMING SYSTEM

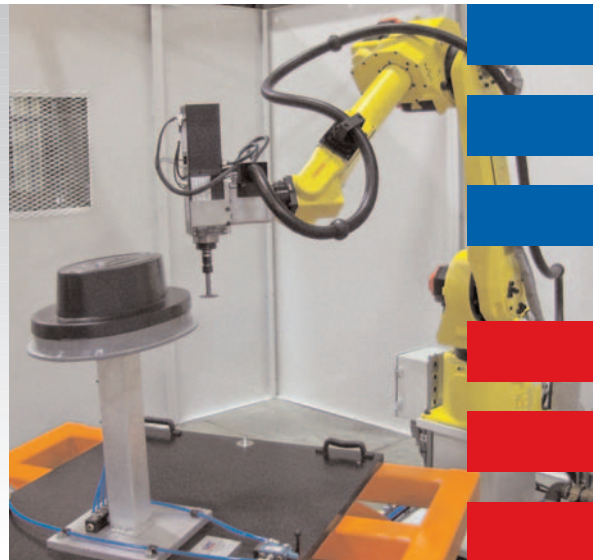
## Designed to trim large plastic and composite parts

### System Benefits

KMT's RoboTrim® RT-502 is a pre-engineered, flexible router trimming solution designed specifically for the plastics and composites industries. The RT-502's riser-mounted robot is strategically positioned to trim a wide range of part sizes. The servo-controlled rotating table rotates the part as the robot is trimming, allowing each side of the part to be trimmed in a compact work cell.



The RoboTrim® RT-502 with the front doors open.



### Robot

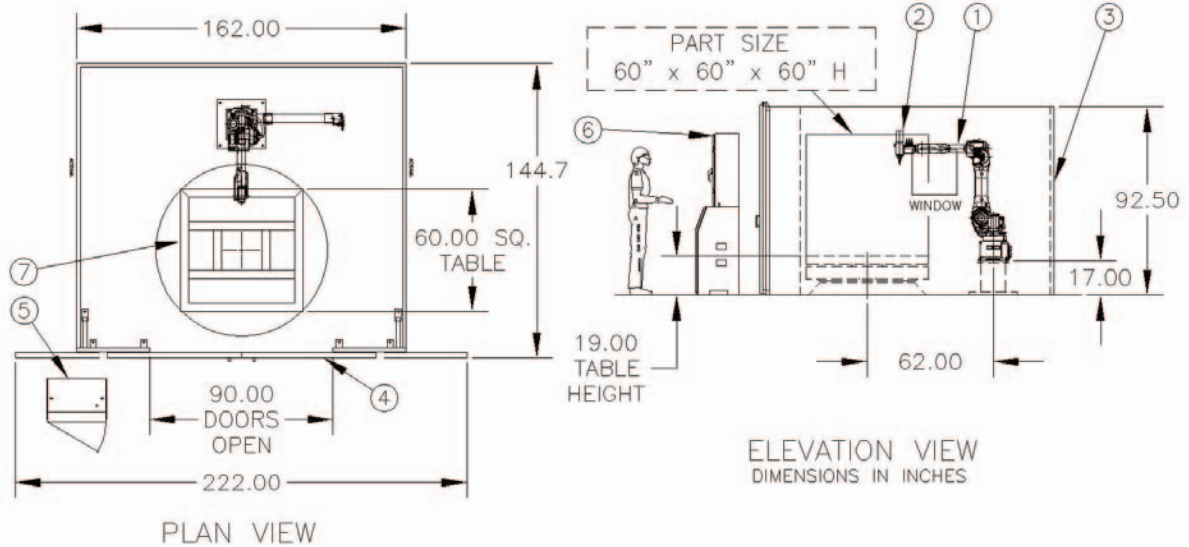
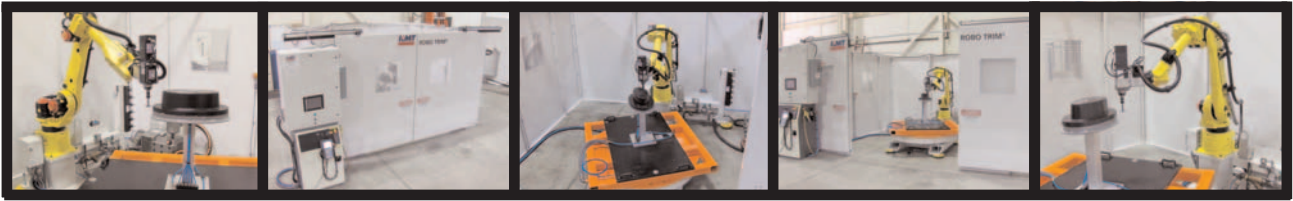
Each RoboTrim® RT-502 system comes standard with a KMT AccuTrim R-44 robot and FANUC R-30iA robot controller for optimized path and feature trimming performance. The FANUC iPendant color teach pendant provides a means to conveniently operate system controls, program parts and access important system documentation. A single-ended, 3 horsepower (18,000-24,000 rpm), fan-cooled spindle is mounted to the end of the robot.

### Software

The RoboTrim® RT-502 comes with a variety of software tools to make programming and setup quick and easy. KMT's RouterWare® application software reduces the time it takes to develop and adjust part programs. If problems arise, FANUC's Collision Guard software will protect the robot and tooling in the event of a collision and KMT Remote Administration ability will enable KMT System Technicians to troubleshoot issues via a phone line or Ethernet connection.

### System Structure

The RoboTrim® RT-502's servo-controlled rotating table is equipped with a high-speed reducer to rotate large plastic and composite parts. The steel enclosure with manual front access doors and built-in safety features protects operators from debris and enables them to move large parts into and out of the cell easily.



#### Optional System Features

- AccuTrim® R-44 robot spindle options include: 1 horsepower, 3 horsepower, single-ended, double-ended, automatic tool change
- The AccuTrim® R-110 robot can be equipped with higher horsepower spindles and can trim parts up to 60" (1524mm) high
- Automatic Tool Change spindles enable 10 second chip-to-chip tool change time
- KMT/FANUC System Calibration Tools to minimize setup time
- 10" color touch screen HMI
- Fixture ID or Tag Reader to automatically call part program
- Integrated 5 or 10 horsepower vacuum pump for part hold down
- AccuFind™ system to detect part variation
- KMT composite fixtures
- Automatic Front Doors
- Saw blade sensor
- Part programming assistance by KMT's skilled technicians
- KMT/FANUC TrimPro® offline programming software
- KMT training classes

#### Drawing Legend

- |                         |                                  |
|-------------------------|----------------------------------|
| 1. AccuTrim® R-44 Robot | 5. FANUC R-30iA Robot Controller |
| 2. Routing Spindle      | 6. Main Electrical Panel         |
| 3. Steel Enclosure      | 7. Rotating Fixture Table        |
| 4. Front Access Doors   |                                  |

#### AccuTrim® R-44 Robot Part Size Ranges

Part Length	Part Width	Part Height
45 in. (1143 mm)	45 (1143 mm)	40 in. (1016 mm)
60 in. (1524 mm)	60 in. (1524 mm)	36 in. ( mm)
80 in. (2032 mm)	36 in. (914.4 mm)	Part Dependent

#### AccuTrim® R-110 Robot Part Size Ranges

Part Length	Part Width	Part Height
45 in. (1143 mm)	45 in. (1143 mm)	72 in. (1828.8)
60 in. (1524 mm)	60 in. (1524 mm)	60 in. (1524 mm)
80 in. (2032 mm)	36 in. (914.4 mm)	Part Dependent



## KMT ROBOTIC SOLUTIONS

*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) 289 - 2750

**KMT Robotic Solutions AB**  
Box 529  
372 25 Ronneby Sweden  
Phone: +46 (0)457 345 00  
Fax: +46 (0)457 345 99

**KMT Robotic Solutions Shanghai Ltd.**  
No. 251 Ri Ying Nana Rd., Waogaoiao Free Trade Zone  
Shanghai 200131 P.R. of China  
Phone: +86 (0) 21-5048-1965(218)  
Fax: +86 (0) 2-5048-3965