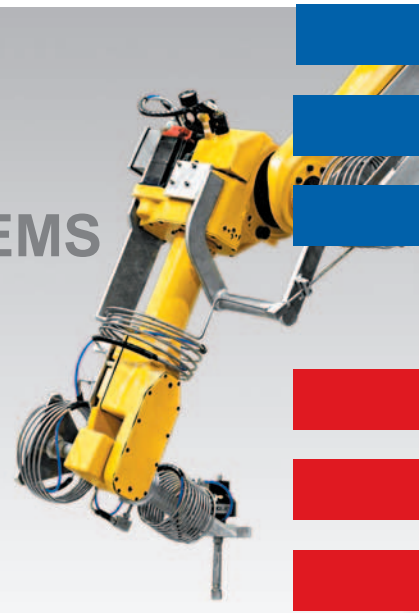


KMT Robotic Solutions JetTool® FT- Series WATERJET TRIMMING SYSTEMS

Designed to Trim Fabric and Nonwoven Materials, Composites and Plastics



KMT Robotic Solutions' JetTool FT-Series waterjet systems are preengineered, flexible waterjet systems designed specifically for fabric, plastic and composite parts.

System Benefits

JetTool FT-Series Waterjet Cutting Systems can be programmed to trim a variety of part sizes and shapes. State of the art software allows the robots to move quickly and accurately, while KMT's System Calibration features drastically reduce downtime.

Safety is our number one priority. Each system is equipped with a variety of safety features designed to remove the operator from the trimming area. This results in a more ergonomic operating environment and a reduction in workplace injuries.



The JetTool FT-800 waterjet system shown above is equipped with two AccuTrim WJ-44 robots and a high-powered JetVac® vacuum system for water and debris removal and part hold down.

Robot

Each FT-Series waterjet features a wall-mounted 6-axis KMT AccuTrim® robot plumbed for high pressure waterjet delivery and equipped with a high performance waterjet nozzle. KMT's exclusive 6th-axis coil gives the robot unhindered access to all reachable areas of the part. FANUC Robotics' iPendant color teach pendant provides a user-friendly means to control the system, program parts and access FANUC troubleshooting documents.

Software

System Calibration Tools allow for quick and accurate Tool Center Point identification and fast fixture changeover, while KMT's JetWare® Application Software makes programming quick and easy. If problems arise, FANUC's Collision Guard software will protect the robot and tooling in the event of a collision. Also, KMT's Remote Administration ability allows KMT System Technicians to troubleshoot system issues via a phone line or ethernet connection.

System Structure

KMT's turnkey robotic systems are easy to install and maintain. The single base, A-Frame system structure supports the robot, fixture table and robot controllers, while the forklift pockets make the system easy to relocate. The Cycle Start, E-Stop and Robot Start buttons are located conveniently at the operator position, while the safety fencing and light curtain system keep the operator out of harm's way.



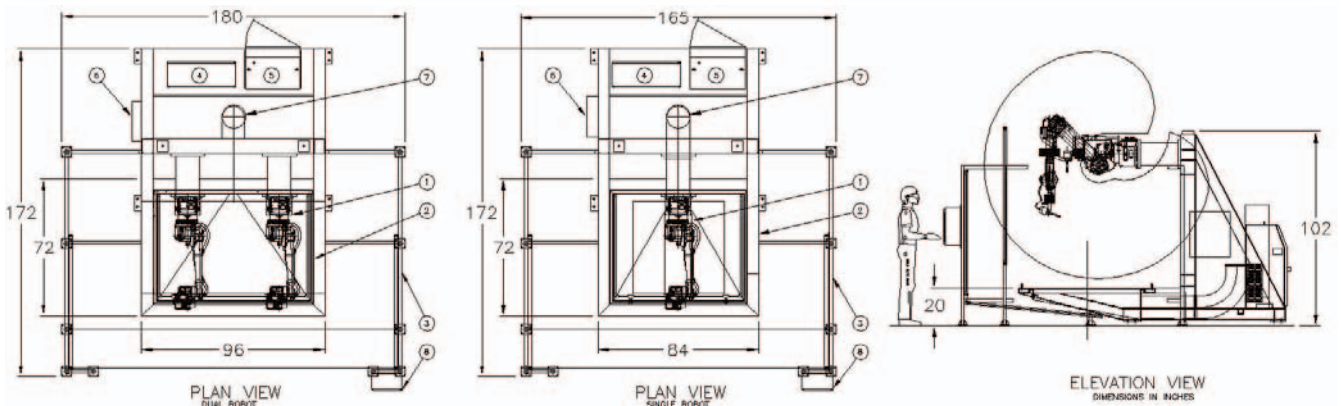
System Options

KMT offers a variety of system options to improve the productivity and flexibility of your FT-Series Waterjet system.

- Second AccuTrim WJ-44 robot for increased throughput with DualArm™ controller configuration*
- Add a JetVac® vacuum system for improved part hold-down, water and debris removal
- Diamond orifices last 10 times longer and reduce system downtime
- Add a 10" touch-screen HMI
- Pick from a selection of high-pressure intensifiers
- Add a Block & Bleed interface to the high pressure water system
- Add a fixture ID system to ensure the fixture matches the selected part program
- Switch to a laser scanner-based layout to save space and eliminate the need for safety fencing
- Add KMT fixtures for improved durability and noise abatement
- Add TrimPro® software to program your system offline or to create virtual workcells
- KMT System Calibration Tools Software

LEGEND :

- | | |
|--|-----------------------------|
| 1. AccuTrim® WJ-44 Robot | 5. Robot Controller |
| 2. Fixed Table with Stainless Steel Tank | 6. Block & Bleed (optional) |
| 3. Safety Fencing and Light Curtains | 7. JetVac® Interface |
| 4. Main Electrical Panel | 8. Operator Panel |



JetTool FT-700 (Single Robot)	Length	Depth	Height
Trimming Perpendicular to TableTop	84 in. (213.36 cm)	72 in. (182.88 cm)	20 in. (50.80 cm)
Trimming Parallel to TableTop	60 in. (152.40 cm)	40 in. (101.60 cm)	12 in. (30.48 cm)
Trimming Parallel to TableTop	70 in. (177.80 cm)	35 in. (88.90 cm)	18 in. (45.72 cm)

JetTool FT-800 (Dual Robot)	Length	Depth	Height
Trimming Perpendicular to TableTop	96 in. (243.84 cm)	72 in. (182.88 cm)	20 in. (50.80 cm)
Trimming Parallel to TableTop	82 in. (208.28 cm)	50 in. (127 cm)	12 in. (30.48 cm)
Trimming Parallel to TableTop	86 in. (218.44 cm)	40 in. (101.60 cm)	18 in. (45.72 cm)

*DualArm™ is a trademark of FANUC Robotics



*KMT Robotic Solutions.
Creating value through automation.*

KMT ROBOTIC SOLUTIONS

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