

# FANUC

## ROBOT MACHINE TENDER

MTEC - MACHINE TENDING EDUCATIONAL CELL

### PATHWAY To CSM™ CONNECTED SMART MANUFACTURING

**Industry 5.0**  
People, robots, and  
smart machines  
working together



Shown with  
machine tender  
LR Mate

- FANUC ROBODRILL Interface between robot and CNC for seamless integration
- 120 VAC power connection to MTEC
- Fits through 36" door (without ROBODRILL) and includes four side pick up and transport
- Optional iRVision 2D for error proofing and guidance
- Optional built-in toolbox for convenience

Shown with FANUC ROBODRILL D14MiB5

- Students familiar with CNC and/or robots have the opportunity to learn real world advanced automation integration
- Fenceless or fully-guarded safe work envelope
- Preconfigured with load and unload program templates for simple build with no complex programming needed
- Drawer load for blank parts is safe and can be configured for other parts in the future



Optional machine tender  
CRX on mobile base



Optional machine tender  
CRX on mobile cart



# MTEC Features



- Fold-up work table for laptop, textbook, etc.
- Safety area scanner for fenceless robot operation or safety interlocked access door to robot work area
- 3-color beacon operation indicator light
- Swivel casters with brakes and rotation lock
- Part locating template for NIMS mill block or dual conveyor in/out for parts blanks
- Single 2-jaw EOAT for NIMS mill block (3/4" x 2 1/2" x 3 1/2" aluminum, 50 pcs included)

## FANUC ROBOTICS

- FANUC LR Mate 200iD/7L or CRX-10iA/L long arm 6-axis robot
  - FANUC R30iB Mate Plus robot controller
  - 2D iRVision optional
- FANUC's new R30iB Mate Plus robot controllers feature the new *iPendant* with enhanced screen resolution and processing capability.

The new user interface, *iHMI*, can display guides for setup and programming, as well as tutorials from the main home page which is a design common to FANUC CNCs, enabling easier use of robots.

## FANUC CNC

- Standard CNC D14Mi-B5
- Smart Trouble Shooting Function
- Memory card slot plus USB port
- Built-in interlock function for safety
- Enables robot operation and system status display on the robot operation screen
- Custom PMC to create, read, and write ladder programs

## CERTIFICATIONS, CURRICULUM & SOFTWARE

*\*Ask your reseller about FANUC education grant offerings before purchase.*

## FANUC

*\*CRX version not eligible for CERT program*

### Material Handling (MH) CERT Instructor Training and Toolkit:

- (1) online seat for CERT Cart Safety Features
- (1) online seat for Robot Operations
- (1) online seat for HandlingTool
- (1) online seat for HandlingPRO
- (1) seat for live HandlingTool at a FANUC facility
- (1) ROBOGUIDE Simulation Software license
- (1) FANUC Robot Operations Manual
- (1) FANUC HandlingTool Manual
- (1) FANUC HandlingPRO (ROBOGUIDE Simulation) Manual

### Material Handling (MH) CERT School Comprehensive Educational Package:

- (25) online seats for Robot Operations
- (25) online seats for HandlingTool
- (25) online seats for HandlingPRO
- (25) ROBOGUIDE Simulation software licenses

### CNC:

- FANUC CNC industry-recognized certification
- School instructor receives FANUC training using FANUC-approved curriculum
- FANUC CNC Simulators and FANUC CNC controller for student's certification
- Student will receive letter of completion and instructor can issue student certificates from provided template



### Integration Project-Based Learning (PBL) Curriculum

- Daily lesson plans
- Assessment and grade charts