

MTEC

MACHINE TENDING EDUCATIONAL CELL

PATHWAY To CSM™ CONNECTED SMART MANUFACTURING



- 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 *iR*Vision 2D for error proofing and guidance
- Optional built-in Kennedy toolbox for convenience

- 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



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 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 as a design common to FANUC CNCs, enabling easier use of robots.

FANUC CNC

- Standard CNC 31i-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

FANUC

Material Handling (MH) CERT Instructor Training and Toolkit:

- (1) online seat for CERT Cart Safety Features web course
- (1) online seat for Robot Operations web course
- (1) online seat for HandlingTool or ArcTool Operation and Programming web course
- (1) online seat for HandlingPRO or WeldPRO web course
- (1) seat for live HandlingTool or ArcTool Operation and Programming class at a FANUC facility
- (1) ROBOGUIDE Simulation Software license
- (1) FANUC Robot Operations Manual
- (1) FANUC HandlingTool or ArcTool Operations and Programming Manual
- (1) FANUC HandlingPRO (ROBOGUIDE Simulation) Manual

Material Handling (MH) CERT School Comprehensive Educational Package:

- (25) online seats for Robot Operations web course
- (25) online seats for HandlingTool or ArcTool Operation and Programming web course
- (25) online seats for HandlingPRO or WeldPRO web course
- (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



FOR ADDITIONAL INFORMATION:



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