

# MTEC-SIM

MACHINE TENDING EDUCATIONAL CELL WITH CNC SIMULATOR

## PATHWAY TO CSM™ CONNECTED SMART MANUFACTURING



- FANUC ROBODRILL Interface between robot and CNC simulator for integration training
- 120 VAC power connection to MTEC-SIM with on-board air compressor for self-contained cell operation
- Fits through 36" door
- Optional *i*RVision 2D for error proofing and guidance
- Built-in Kennedy toolbox for storage

- Students have the opportunity to learn real world advanced automation integration
- Preconfigured with load and unload program templates for simple build with no complex programming needed
- 3-axis mill and 2-axis lathe simulation



# MTEC-SIM Features



- Modular robot cart
- Welded steel construction
- Fits through standard doorway
- Single 2-jaw EOAT for mill blank and lathe blank
- Fold-up work table for laptop, textbook, etc.
- Safety area scanner for fenceless robot operation or safety interlocked guarding around robot work area
- 3-color beacon operation indicator light
- Swivel casters with brakes and rotation lock

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

## FANUC CNC

FANUC's CNC simulator is designed specifically for educational purposes, ensuring affordable access to the latest FANUC CNC platform in a compact and portable package, easily integrated into any classroom.

- Switchable mill and lathe system in one simulator
- 3-axis milling / 2-axis turning system + 1 spindle
- Conversational programming and 3D simulation (MGi)
- Inch / metric switchable
- 32 tool offset pairs
- Work piece coordinators G52-G59 + 48 additional on mill

## 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

INTEGRATED BY



FOR ADDITIONAL INFORMATION:



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