

FANUC

INTEGRATED BY
APT
MANUFACTURING solutions

MTEC-SIM MACHINE TENDING EDUCATIONAL CELL



- 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 *iR*Vision 2D for error proofing and guidance



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

MTEC-SIM Features

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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

ROBOTICS

FANUC ER4*i*A 6-axis robot

- R30*i*B Mate Plus controller

OR FANUC CRX-5*i*A collaborative 6 Axis robot

- R30*i*B Mini Plus robot controller

Optional 2D *i*RVision Available

FANUC's new R30*i*B Plus robot controllers feature the new *i*Pendant with enhanced screen resolution and processing capability.

The new user interface, *i*HMI, 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.



- Modular robot cart
- Welded steel construction
- Fits through standard doorway
- Single 2-jaw EOAT for mill blank & lathe blank
- Fold-up work table for laptop, textbook, etc.
- Safety area scanner for fenceless operation of ER4*i*A robot work area
- FANUC CRX operates in collaborative mode without safety area scanner
- 3-color beacon operation indicator light
- Swivel casters with brakes & rotation lock

CERTIFICATIONS, CURRICULUM & SOFTWARE

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

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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

FOR MORE INFORMATION CONTACT:

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