

MTEC MACHINE TENDING EDUCATIONAL CELL



Shown with FANUC ROBODRILL D14MiB5

- Students familiar with CNC and/or robots have the opportunity to learn real world advanced automation integration
- FANUC CNC controller Interface between robot and CNC for seamless integration
- Preconfigured load and unload program templates for simple build with no complex programming needed

MTEC FEATURES	ROBODRILL CNC α-D14MiB5 FANUC 31i-B5	FANUC LR Mate Machine Tender	FANUC CRX Machine Tender
Pricing	\$\$\$	\$	\$
Integrated industrial production line	✓	✓	✓
Industry 4.0	✓	✓	✓
FANUC Certification	✓	✓	✓
FANUC CNC controls	✓		
Machine actual parts	✓		
CNC tool holder type	BT-30		
Coolant	✓		
Spindle RPM	10000		
FANUC robot machine tender	✓		
FANUC iRVision for inspection and sort		✓	✓
Fenceless robot cells with safety area scan		✓	
Fluid power pneumatics		✓	✓
Portable (fits in classroom)		✓	✓
Fault insertion		✓	✓
Robot end-of-arm tool		gripper	gripper
APT integration curriculum	✓	✓	✓
120V 20 amp		✓	✓



MTEC Features

FANUC ROBOTICS

FANUC LR Mate 200iD/7L long-arm 6-axis robot

- R30iB Plus robot controller

OR FANUC CRX-10iA collaborative 6 Axis robot

- R30iB Mini Plus robot controller

Optional 2D iRVision Available

CNC

- 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, & write ladder programs



- Fold-up work table for laptop, textbook, etc.
- Safety area scanner for fenceless operation of LR Mate 200iD/7L robot work area
- 3-color beacon operation indicator light
- FANUC CRX operates in collaborative mode without safety area scanner
- 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)

CERTIFICATIONS, CURRICULUM & SOFTWARE

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

FANUC

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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