

MTEC

MACHINE TENDING EDUCATIONAL CELL

PATHWAY TO CSM™ CONNECTED SMART MANUFACTURING



LR Mate
 machine tender

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 with load and unload program templates for simple build with no complex programming needed



Shown with Levil CNC

MTEC FEATURES	Levil CNC LMV-400 O:-MF Controls	ROBODRILL CNC α-D14MiB5 FANUC 31i-B5	FANUC LR Mate Machine Tender
Pricing	\$\$	\$\$\$	\$
Integrated industrial production line	✓	✓	✓
Industry 4.0	✓	✓	✓
FANUC Certification	✓	✓	✓
FANUC CNC controls	✓	✓	
Machine actual parts	✓	✓	
CNC tool holder type	S20T ER-16	BT-30	
Coolant	✓	✓	
Spindle RPM	14000	10000	
FANUC robot machine tender	✓	✓	
FANUC iRVision for inspection and sort			✓
Fenceless robot cells with safety area scan			✓
Banner safety controller			✓
Fluid power pneumatics			✓
Portable (fits in classroom)	✓		✓
Fault insertion			✓
Robot end-of-arm tool			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
- 2D iRVision optional

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, and write ladder programs



- Tabletop machine
- 120V power
- FANUC robot load/unload
- Qualifies for FANUC CNC Cert
- Qualifies for FANUC Robot Cert



- 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)

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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