

MECHATRONICS CERT CART



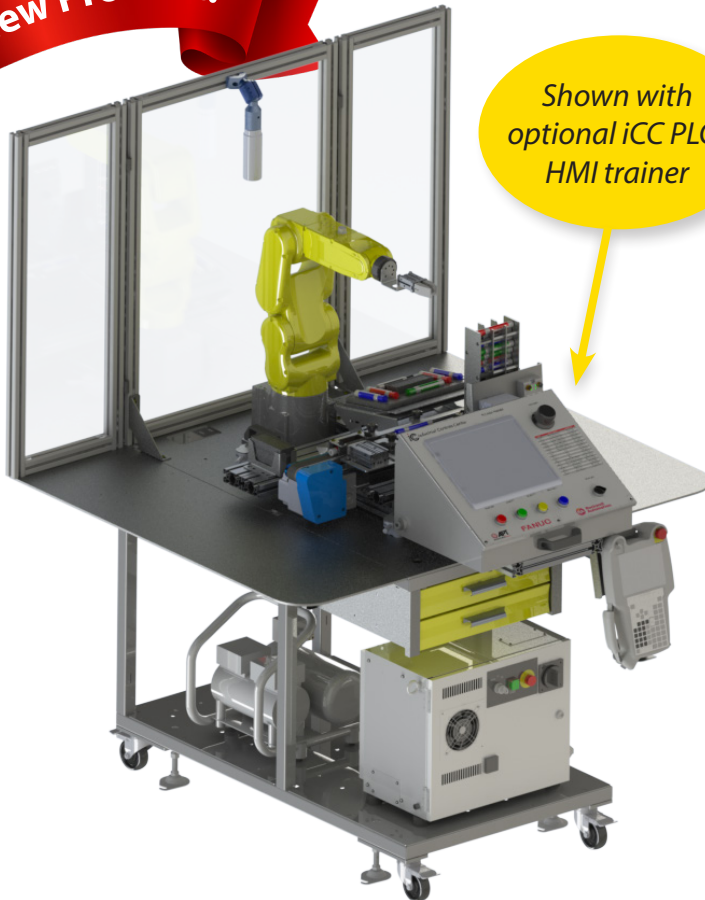
iM5.0 - INDUSTRIAL-INTEGRATED
MECHATRONICS TRAINER



PATHWAY TO CSM™ CONNECTED SMART MANUFACTURING

Industry 5.0
People, robots, and
smart machines
working together

New Product!

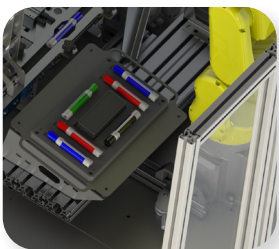


FEATURES:

- FANUC LRMate ER4iA 6-axis robot
- Brushless DC motor and drive
- Power transmission via belt drive
- Conveyor part transport
- Fluid power (pneumatics)
 - Direction control valves
- Rotary actuator
- Escapement actuator
- Guided linear actuator
- Sensor technology
 - Optic
 - Laser
 - Solid state hall effect
 - Proximity
 - Inspection
- *Optional iCC PLC/HMI trainer*

PBL (Project-based Learning)

- Product manufacturing with sortation and package assembly
 - Bulk material infeed
 - Color Sortation
- Robotic packaging/assembly



Mechatronics Features



- Fold-up work table for laptop, textbook, etc.
- Safety area scanner for fenceless robot operation
- 3-color beacon operation indicator light
- Swivel casters with brakes and rotation lock
- Dry-erase marker PBL
- On-board air compressor
- Plugs into 20 amp 120vac power



- FANUC LR Mate ER4iA 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.



- NEMA 12 steel industrial enclosure
- 120V, 24 VCD power supply
- 5 port ethernet switch
- Wireless ethernet bolt

PLC: Compact Logix 5000 Series

- Dual IP mode (2 diff network connections)
- DLR, start and linear topologies supported
- 16 ethernet node connections max
- 32 socket connections max
- 2 CIP drive axis connections
- Ladder structured text, function block diagram
- Sequential function chart programming interfaces
- 8 local I/O Modules max

HMI: Panelview 5000

- 10.4" SVGA TFT color touch display

CERTIFICATIONS, CURRICULUM & SOFTWARE

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



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



INCLUDED

- 1 year subscription of Rockwell Automation EDU Toolkit Bundle
 - Studio 5000 Logix Designer®
 - Studio 5000 View Designer,
 - plus over 100 more pieces of Rockwell software
- Renewable each year through your local distributor.*

OPTIONAL

- (10) seats of Learning+ course content
- Renewable each year through your local distributor.*

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



Integration Project-Based Learning (PBL) Curriculum

- Daily lesson plans
- Assessment and grade charts