OP10	OP20	OP30	OP40
MTEC	*Laser Etching*	*Assembly*	*Packaging*
MTEC-SIM	*Serialization*		

CONFIGURATIONS

CSM Features

- All stations utilize FANUC LR Mate robots with iRVision
- FANUC ROBODRILL 3-axis vertical CNC machining center
- Vision inspection of machining operation
- Laser etching of machine part blank for custom logo with Keyence laser
- Vision inspection of etching
- Vision-guided picking and sorting at assembly and packaging
- Packaging of complete kit in logo printed box with choice of colors
- Fully-integrated PLC and robotic cell operation mimicking industrial automation processes

- Rockwell Logix 5000 series PLC programming
- Fault insertion for system training
- Rockwell HMI PanelView interface touch screens
- Fenceless robot cells with safety area scan
- Smart sensor technology over Balluff I/O link with diagnostics
- Project-based mechatronics at each operation
- Dual purpose EOAT on robots with vacuum and mechanical gripping
- Conveyors with VFD variable speed drives
- RFID manufacturing process tracking
- Modular robot work cells that can be used independently
- Materials included for all manufacturing

CERTIFICATIONS, CURRICULUM & SOFTWARE

Ask your reseller about gift-in-kind offerings before purchase.

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

Rockwell Automation

Rockwell Automation EDU Toolkit Bundle with 1 year subscription
- (1) Studio 5000 Logix Designer®
- (1) Studio 5000 View Designer
- Plus over 100 more

(2) 1-year e-learning subscription
- CompactLogix™ 5000 System Fundamentals
- Basic Ladder Logic Project Development
- Plus many more

APT MANUFACTURING solutions

Integration Project-Based Learning (PBL) Curriculum
- Daily lesson plans
- Assessment and grade charts