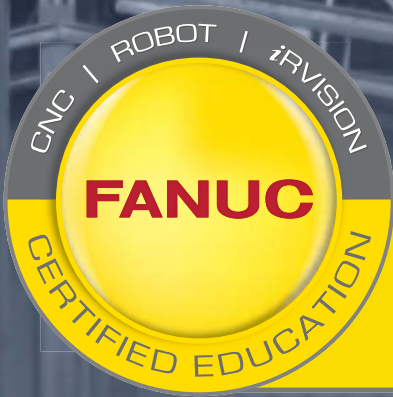


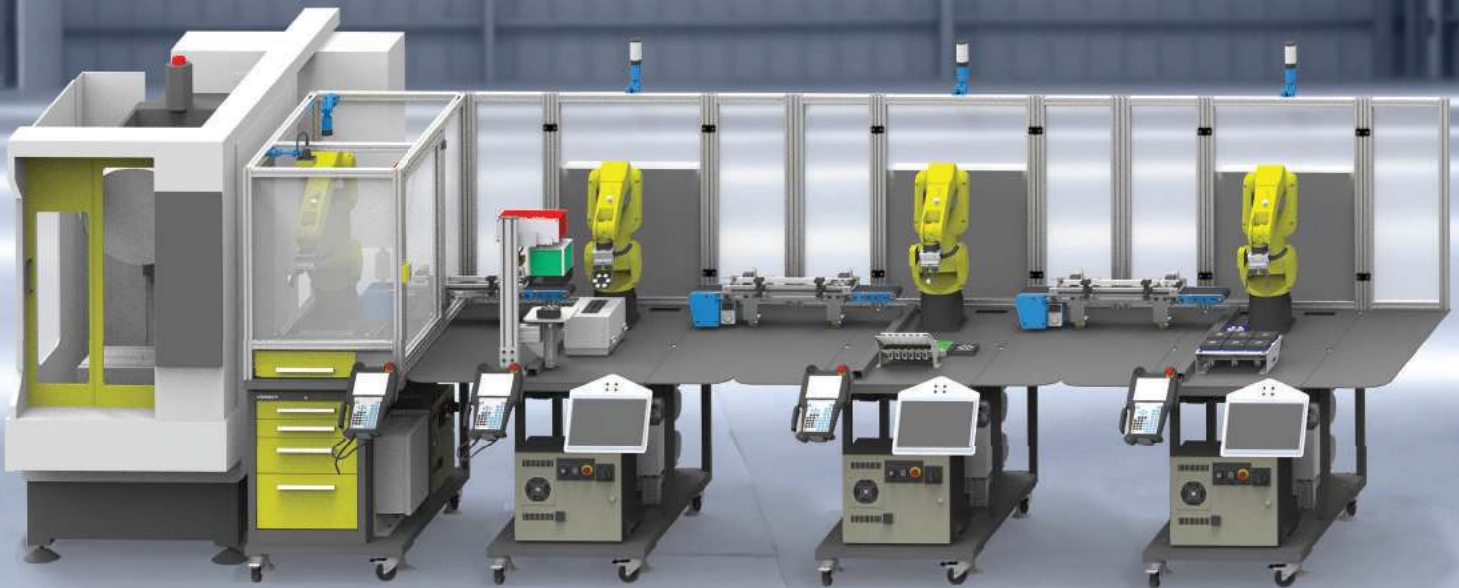
# CSM

## CONNECTED SMART MANUFACTURING



### IIoT 4.0 MANUFACTURING, ASSEMBLY, & PACKAGING

MODERN MANUFACTURING TECHNOLOGY WITH A FULLY INTEGRATED AND INTELLIGENT CELL.



Integration Provided by:



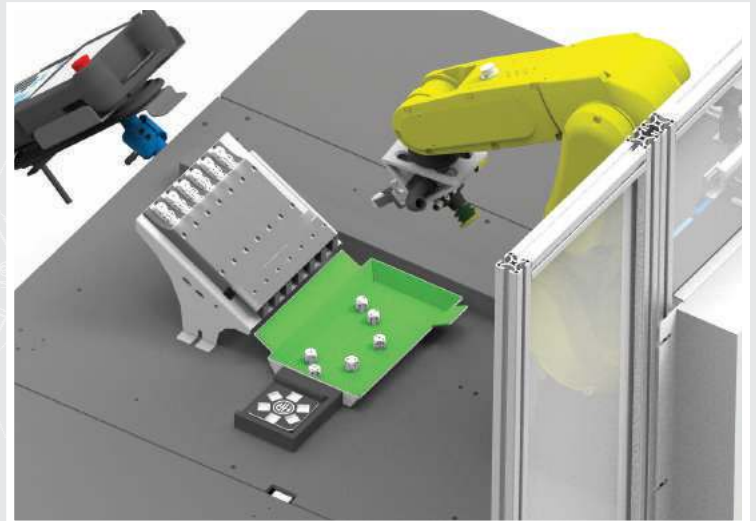
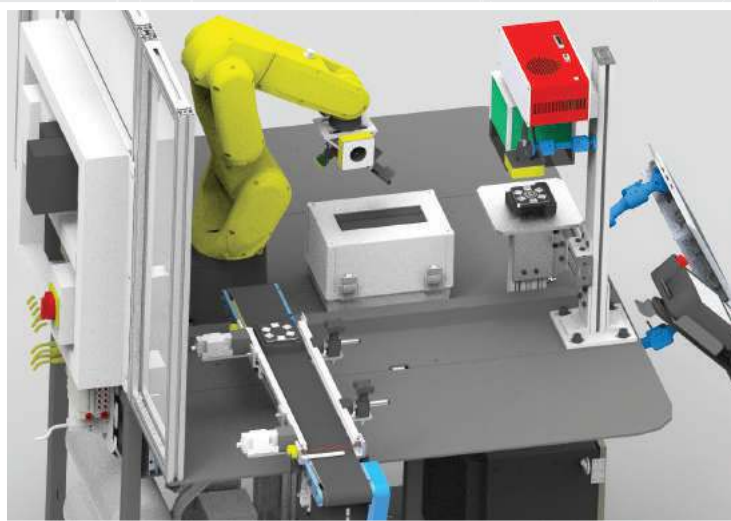
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# CSM FEATURES

- FANUC LR Mate 200iD/7L robotic machine tender to load and unload the CNC vertical machining center
- Automated manufacturing work holder for CNC machining center
- Vision inspection of machining operation
- Laser etching of machined part blank for custom logo
- Vision inspection of etching
- Vision guided picking and sorting at assembly and packaging
- Packaging of complete kit in logo printed box in choice of colors
- Advanced PLC to robot control
- Rockwell Logix 5000 series PLC programming
- Fault insertion for system training
- Rockwell HMI PanelView interface touch screens
- Fencelless 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



	TRAINING AREAS	LEVELS
CSM	PLC, Robot, Vision, Safety, IIoT, Pneumatics, Vacuum, Motors, VFD, Laser, Machining, CNC programming, Process Engineering, Manufacturing	I,II, III, & Mechatronics

Integration Provided by:



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