C S M  F e a t u r e s

- 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
- 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

<table>
<thead>
<tr>
<th>Training Areas</th>
<th>Levels</th>
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<tbody>
<tr>
<td>CSM PLC, Robot, Vision, Safety, IIoT, Pneumatics, Vacuum, Motors, VFD, Laser, Machining, CNC programming, Process Engineering, Manufacturing</td>
<td>I, II, III, &amp; Mechatronics</td>
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</tbody>
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Integration Provided by:  
APT Manufacturing Solutions  
FANUC

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