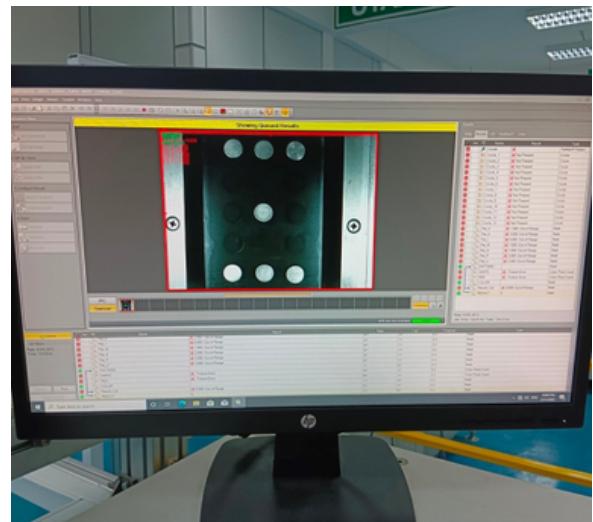


# INDUSTRIAL 4.0 FLEXIBLE MANUFACTURING SYSTEM FMS5000

The Flexible Manufacturing System (FMS) training set is to integrate various automation process to enhance educational learning in automation technologies. The learning process to study the networking system of automated storage and retrieval system, close loop free flow conveyor, robotic assembly station and vision inspection for quality assurance. The aim to integrate, monitor and data sharing the entire process via SCADA and cloud monitoring

## Able to learn : -

- FMS system mechanical design and parts
- Automated conveyor system
- Servo Motor programming & application
- Sensor detection technology
- Automatic storage & retrieve system
- PLC control system
- Analog and digital processing
- Network system with PLCs
- Different protocol of communication
- Process monitoring system
- Cloud computing, OEE and IoT
- Material process and quality inspection system
- Fault findings in FMS process error and problem solving
- PM and prediction of FMS system



# FLEXIBLE MANUFACTURING SYSTEM FMS5000

## Technical Specification : -

No	Component	Qty
1	Free flow conveyor system	1
2	Station motorized ejector	5
3	AC motor drive	1
4	Conveyor Slade PLC/HMI controller	1
5	ASRS station	1
6	3 Axis ASRS robot system	1
7	ASRS Slade PLC/HMI controller	1
8	Storage work piece	20
9	Conveyor pallet unit	5
10	Collaborative Robot Arm	1
11	Robot Controller	1
12	Robot Teach Pendant	1
13	Round material work piece	200

No	Component	Qty
14	Material motorized elevating system	1
15	2 Axis Servo motor drive system	1
16	DC motorized material feeder	1
17	2 Axis Slade PLC/HMI controller	1
18	Vision material inspection system	1
19	Light Source unit	1
20	Vision PC Workstation	1
21	Main PLC Controller	1
22	IoT Gateway	1
23	Webaccess SCADA software	1
24	Dashboard Monitor	1
25	Industrial PC Workstation	1