COMPUTER INTEGRATED MANUFACTURING LABORATORY

About Laboratory:

- Computer Integrated Manufacturing (CIM) System is an integrated, computer controlled, automated manufacturing system for training that covers material handling system, CNC machine tools, processing station, quality inspection and robotics.

Laboratory Equipments/Instruments:

Sr. No.	Name of Equipment/Instrument	Specifications	Qty.	Figure
1	Automated Guided Vehicle (AGV)	Rover is an automated guided vehicle (AGV) used for handling material between stations in FMS/CIM setup. Built-in guidance and routing for material flow and obstacle sensing to avoid accidents.	1	
2	Automatic Storage & Retrieval System (ASRS)	ASRS is a floor standing automated material handling system. It emulates industrial storage and retrieval application. Using offline programming software, the ASRS functions can be programmed by a PC and transferred to the controller.	1	

3	ARISTO XT ROBOT	Aristo is a 6 axis articulated robotic arm for doing various type of jobs like loading unloading and handling the work piece conditions.	1	
4	ASSEMBLY STATION	The station consists of linear conveyor, pick & place units, pneumatic process control for bearing and shaft assembly	1	
5	VISION INSPECTION SENSOR	Inspection of assembly by taking image and comparing with standard image.	1	
6	FLEX TURN	With SINUMERIC 828D Controller. Capable of Handling up to 8 axis. 8 Station programmable turret.	1	

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7	FLEX MILL	With SINUMERIC 828D Controller. Capable of Handling up to 8 axis. 8 tool programmable Hydraulic Automatic Tool Changer.	1	
8	Dell Precision T1700 Work Station	Intel(R) Xenon(R) CPU E3-1226 v3 @3.30 GHz, 16 GB RAM	3	