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Product Name :
Computer Integrated Manufacturing And Handling System

Product Code :
LBNY-0005-1090006



Description :

The training system presented here represents a fully functional CIM cell (CIM = Computer Integrated Manufacturing). An overhead robot on a linear drive supplies two CNC machines with raw parts taken from a magazine. The machined dimensions of the finished workpieces are checked in an inspection jig before the items are placed in a finished parts store. The system allows an automated manufacturing process to be created. The demonstration shows the basic processes of handling (robots), manufacturing (CNC machining), and control (PLC). Defined planning and control data is used to control various machines. The manufacturing cell is equipped with all necessary sensors and control devices. The control and programming software for the CNC machines, the robot, the linear drive and the software for the PLC (monitoring and control) are installed on two PCs. The relevant data is stored in a software program, and is processed by the control units of the individual machines. A PLC system monitors and controls the process.

Technical Specification :

CNC lathe with automatic tool changer, pneumatic chuck and pneumatic safety guard opening
Parts dispenser with gravity feed for spherical material, capacity dependent on diameter of part
Demonstration of automated processes in a CIM cell
Robot with linear drive as overhead system
CNC milling machine with pneumatic vice
Finished parts store with self-centering pallets and interchangeable part mounts
Parts inspection station, e.g. for checking workpiece diameter.



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