

Product Name :
Computer Integrated Manufacturing and Handling System-
CIM and Material Handling System**Product Code :**
ELABHTOOLSUK480003**Description :**

Computer Integrated Manufacturing and Handling System- CIM and Material Handling System

Technical Specification :

An overhead robot on a travel unit supplies two CNC machines with raw parts taken from a magazine. The machined dimensions of the parts are checked in an inspection station before the parts are placed in a finished parts store.

Defined planning and control data is used to control various machines.

The relevant data is stored in a software program, and is processed by the control units of the individual machines.

Demonstration of automated processes in a CIM cell

5-axis Robot with linear drive as overhead system, all 5 axes can be moved simultaneously, 2 finger gripper, gripping force programmable

CNC milling machine with pneumatic vice

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

Parts inspection station, e.g. for checking work piece diameter

Finished parts store with self-centering pallets and interchangeable part mounts

Sequence control of the individual manufacturing steps by PLC and process control software

Communication between PLC and PC via ProfibusDp

Programming software for CNC machines, robot, PLC, linear drive under Windows XP

PLC with 40 digital/2analogue inputs and 38 digital/1 analogue output

Required compressed air supply: 8 bar

Voltage: 230V,50Hz,1 phase, 1 CIM Cell, 2 PCs.

 **LAB ENGINEERING**

Elab Engineering Equipments Manufacturers