

DESIGN OF SPECIAL PURPOSE MANIPULATOR FOR HANDLING COMPONENT

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ABSTRACT

Robotics is an advance technology, which is widely used across all over the world. In this paper we discuss how the problem in the company can be solved by using this technology. The problem is, to pick up the component from the conveyor and to place it on the bed of the CNC machine worker use the overhanging crane and to hold the component they use V-belt. It is wrong way to handling of component and not safe to worker. At this location in company the automation is required. The solution is hydraulic manipulator. In this paper we discuss design parameters of manipulator, design of manipulator and its parts and some required calculations.

KEYWORDS: Robotics, Hydraulic Manipulator, Manipulator Design, Hydraulic Calculations