

“AUTOMATED SEQUENTIAL CONTROLLING OF MODULAR WORKSTATIONS”

SHANMUKHA NAGARAJ¹ & RAMESH S²

¹Professor, Department of Mechanical Engineering, R V College of Engineering, Bangalore, Karnataka, India

²Assistant Professor, Department of Mechanical Engineering, R V College of Engineering, Bangalore, Karnataka, India

ABSTRACT

Simplification of engineering and precise control of manufacturing and assembly process can result in significant cost efficiency. A planned approach towards integrated control systems using PLC can solve industrial problems. Due to its low cost, PLC's are used widely in and electro-pneumatic technologies for automating the production processes. This work is carried out to develop a design methodology for a automated flexible assembly line to perform a simple cube assembly and develop a configuration for the workstation components to form the layout to achieve maximum output.

KEYWORDS: Programmable Logic Controllers, Electro-Pneumatics, Indralogic PLC Software, Cylinder, DCV-Directional Control Valves, Automated Workstations Modules