

## **PNEUMATIC INDUSTRIAL ROBOT FOR PICK AND PLCA APPLICATION**

### **ABSTRACT**

The key elements of modern industrial automation are robots which are playing a vital role in boosting productivity, reducing cost and improving precision. Robots are deployed to perform repetitive, high speed tasks that were labor intensive for humans. As industries continue to demand for faster, more reliable, and cost effective solutions, the role of robots has expanded with innovation in both hardware and control system making them to be used in wide scale applications. This literature paper focuses on the robots gripper mechanism, degree of freedom, actuation methods, control algorithms, and automation strategies. The paper concludes with a discussion on the future direction of pick and place robots, considering autonomous operation, and collaborative robotics for more versatile use in industries