

# **AUTOMATIC BOTTLE FILLING SYSTEM USING MICROCONTROLLER**



**Fig 10:Automatic Bottle Filling using Microcontroller**

# Automatic Bottle Filling System Using Microcontroller Project

**Fawad Hassan**



### **Automatic Bottle Filling System Using Microcontroller Project:**

**Plc Based Automatic Bottle Filling System** Fawad Hassan,2013 Industrial application of PLC is widely appreciated. The PLC that has been used in the industrial automation process is usually to control a mechanical movement of a machine in order to improve signal processing. In this project we have designed a plant on small scale which makes a pre defined color from three basic colors RGB by controlling their percentages using PLC. Two gear motors are used to control the bidirectional movement of gates which are located at outlet of the keeves containing pigment and viscous supplies. These supplies ultimately fall down in the processing mixer tank for a specified time. The mixer tank is specially designed to shake well all the supplies for a particular time to achieve the desired color with optimum parameters. The outlet of the processing mixer is dependent on the signal from IR sensor. A gear motor controls the cyclic rotation of conveyer belt and a series of IR sensors perform the function to fill the bottles. This whole system is also integrated with PIC Microcontroller to display the corresponding operation on LCD.

**Automatic Pneumatic Bottle Filling System** Waleed Safdar,2012-11-17

**Pneumatic Automated Bottle Filling Machine** Rao Farhan Irshad,Omaisr Ali,Rana Samiullah,2012 This project involves automated filling, under filled bottles removal, capping of bottles without any human intervention. It involves PLC to control the whole process to be followed in the project. Firstly the bottle will be placed on the conveyer belt and be started to move on to the first station i.e. the filling station. The conveyer belt in this process will keep on running but it would have no effect on the undergoing process. Then the filling will be done. Now after the bottle has been filled they will move on to the next station i.e. under filled bottle removal. Here the bottle will be checked for the level of liquid in them with the help of level sensors. Now the bottles will move on to the next station i.e. the capping station. Here the bottle will be capped with the help of pneumatic actuators.

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