

AUTO WEIGHT SORTING CONVEYOR USING PLC

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ABSTRACT

The purpose for the project is to sort the items into 2 different ranges of weight which is more than 1kg and less than 1kg. The prototype will have the conveyor which rotates with the certain speed and sending the item from the beginning to the end of the conveyor. During the sending process, the weight of the item will be measured. Then, the item will be dropped at the end of the conveyor. Finally, with the help of sorting part, the item will be sorted according to their weight. The project is divided into 2 main parts:

- i. Software-CX-Programmer
- ii. Hardware-Conveyor, Sorting Part, Electronic Circuit

In the software part, the programming language which is the ladder diagram will be used to control the process of the whole project step by step according to the correct input data.

The hardware part consists of a conveyor using to transport the item, a sorting part which is used to sort the item and the complete circuit used to perform few of the operations.

The theoretical knowledge that I have learnt during my diploma program was out into full use when construction this project. Many of the difficulties were faced and successfully solved and this may prove to be useful in the future.