

Scan & Sort Robotic Arm

Robot Product Info Sheet



Product Description

A robotic arm with coded ability to scan and sort inventory in order. It is able to scan and detect wrong positioning of items and sort them in desired order. It can cater to different applications and ideal in inventory areas, such as library spaces.

It has an antenna to scan the order of the books and a hook to identify any wrong positioning. With its 2-finger gripper, it will grab the specific book and sort it to the correct order. The robotic arm has a motorized base which allows it to be mobile and able to reach substantial areas of the book shelf.

Features & Benefits

- ▶ Improve job productivity
- ▶ High accuracy and durability
- ▶ Quick scanning and error detection
- ▶ Reduced Job Time and Labor
- ▶ Flexible designing of antenna coil
- ▶ Minimum to almost no noise

Technical Specifications

The robot will first scan the order of the books with the antenna and pinpoint any incorrect orders. Once the scanning is done, the system will send signal to the robot on the specific book that is in the wrong order.

When an incorrect position is identified, the robot will pick up the hook to shift out the targeted book. Then using its 2-finger gripper, it will pull out the book and insert it to the right order sequence. The robot will do a last antenna scan to confirm the shelf is well sorted.

Product Element	Width	Length	Height
Robot Base with wheels	656.33	905.29	735.53

*Dimensions are in millimeters

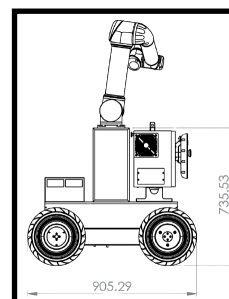


Figure I: Full side-view

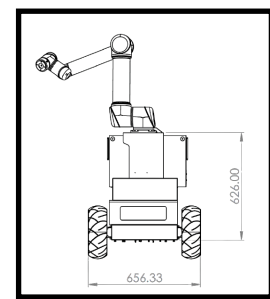


Figure II: Full back-view

