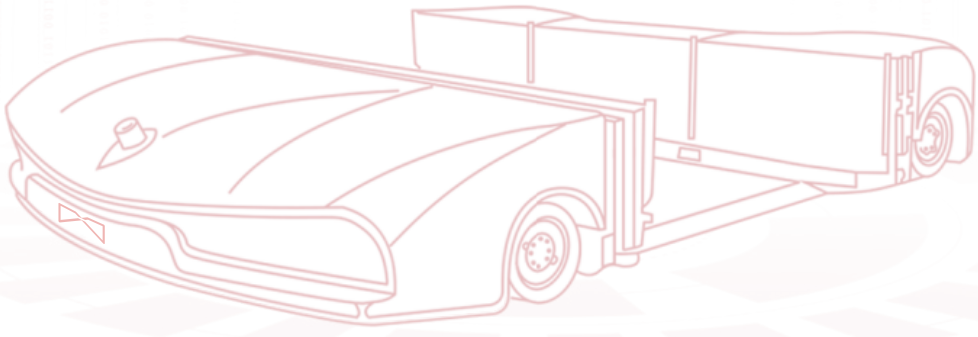
HWArobotics

Customer case

Joyson Automotive safety system Ningbo Intelligent Warehouse project



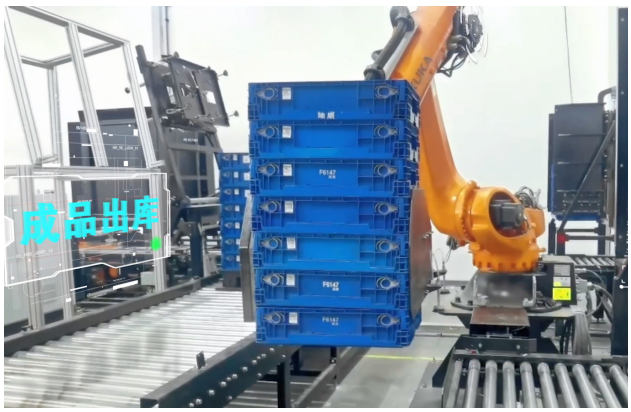
HWArobotics PTE. LTD.

Customer Profile

Established in 2004, Joyson Electronics was formerly a parts manufacturing enterprise focusing on automotive functional parts. Since 2011, Joyson Electronics has successively acquired Preh GmbH (a German automotive electronics company), IMA GmbH (a German robotics company), Quin GmbH (German), Key Safety Systems (KSS) (an American global supplier of automotive safety systems), and Takata (excluding PSAN business). Joyson Electronics has achieved its strategic goals of globalization, transformation, and upgrading through sustaining innovation and upgrading and multiple international mergers and acquisitions.

Pain Points

1. As businesses continue to expand, the storage capacity of the warehouse has increased, whereas its utilization rate is low.
2. With diverse product specifications, the picker faces heavy picking workload when handling small orders and large volume of goods.
3. Warehouse personnel faces heavy workload, so their work efficiency is low.



Featured Solution

HWArobotics has configured the warehouse equipment control system (WCS), crate storage and control system (SCS), and other intelligent logistics systems for the customer to create the "strongest brain" for intelligent logistics. Featuring high stability and strong scalability, this project supports comprehensive management tasks such as multi-warehouse, multi-organization, multi-shipper, and multi-format, and realizes highly informationalized operation of the logistics center, which allows monitoring the operating status of equipment in real time and timely giving an alert.

1. Improved storage density: space utilization tripled.

The upgraded logistics center improved to 23,760 locations across 3 aisles of automation with a storage capacity of more than 30,000 pieces. The system accommodates raw materials, WIP and finished products for automobile passive safety systems.

2. Low cost, fast deployment, "goods to person" picking scheme

The selection method of goods determines the efficiency of warehousing, which is the key to the efficient operation of warehousing operations. Hwachang Intelligent provides a comprehensive "goods to person" picking solution for the Ningbo smart warehouse, to achieve a more accurate and convenient operation.

3. Intelligent equipment can achieve 90% unmanned storage

The intelligent system includes multi-layer shuttles, goods lifts, cross-floor lifts, automatic stacking robot, automatic labeling, etc., to liberate the labor force from handling, stacking, labeling and other heavy operations, and realize 90% unmanned storage.

4. Configure a variety of logistics systems to create an "intelligent logistics brain"

HWArobotics Intelligent smart logistics systems includes a WCS storage control system, an SCS turnover totes access control system, self-monitoring of operational status and early-warning systems to create the strongest logistics brain. Rugged stability and expandability support multi-warehouse, multi-organization, multi-owner and multi-business comprehensive management tasks, to realize the highest level of logistics center operation.

Project Benefits

1. High storage density: An efficient dual-tote position design is adopted, with dense storage positions.

2. High capacity of handling a large number of orders: Multiple shuttles can jointly handle the items in storage units in parallel.

3. High equipment utilization: This allows rapid inbound and outbound operations, improving the operational efficiency.

4. Flexible layout: The layout can be customized to suit customer needs.

5. Flexible expansion: The number of shuttles can be customized to meet the efficiency needs of customers at different phases.

6. Low power consumption: This project uses energy-efficient components and energy-saving drive solutions to save energy and reduce consumption.

7. High reliability: average failure rate ≤ 2 times/10,000 cases.

8. Modular design: fault maintenance time ≤ 15 min.

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