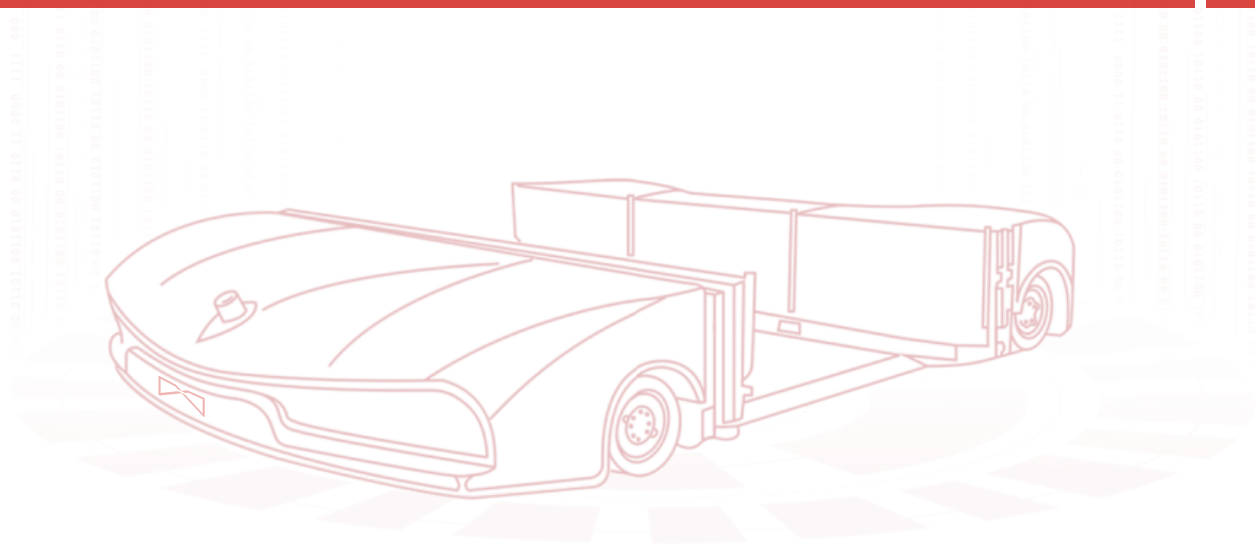


JD.COM “Asia No 1” Fully-unmanned Intelligent Warehouse Project





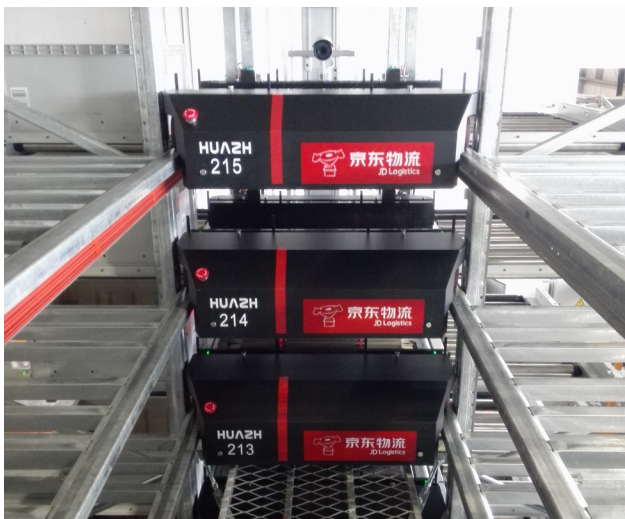
Customer Profile

JD (stock code: JD) is a self-operated e-commerce enterprise in China listed on NASDAQ Stock Exchange in the United States. As a professional comprehensive online shopping mall, JD features tens of thousands of brands and 40.2 million products of 13 major categories, including household appliances, mobile phones, computers, mother and baby products, and clothing.

HWArobotics has undertaken the phase III project for JD's "Asia No.1" logistics center to implement fully automated systems in processes including receiving, storage, picking, packing, sorting, and dispatching in this completely unmanned warehouse.

Project Introduction

The fully unmanned warehouse project for JD's "Asia No.1" in Shanghai ("unmanned warehouse") covers an area of 40,000 m² with the main body of the logistics center composed of four operating systems for receiving, storage, picking, and packing. It is the first fully unmanned warehouse constructed and put into large-scale use in the world. HWACHANG undertook most of the construction of this unmanned warehouse, such as the entire warehouse equipment control system (WCS), partial functions of the order processing system (OPS), eight AS/RS shuttle systems (including 120 shuttles), conveyors, and robotic receiving, picking, and packing systems. This project was put into operation in January 2018. This warehouse handles over 100,000 e-commerce orders per day.



Project Highlights

1. The unmanned warehouse handles the receiving, storage, packing, sorting, and dispatching of 200,000 orders of 3C and other products in East China every day with

everything running seamlessly and smoothly. Handling these orders require 300 people to sort goods at the same time. After the unmanned warehouse is put into use, those work can be completely automated by machines.

2. Overall, the storage efficiency of the unmanned warehouse is over 5 times that of traditional pallet racks. The picking speed of a parallel robot can reach 3,600 times/hour, which is equivalent to 5 to 6 times the speed of manual picking.



HWARobotics, a leading supplier of core products and solutions in the internal logistics technology industry, always insists on combining innovative technologies with diverse scenarios to develop digital and intelligent internal logistics technology products and solutions that integrate software and hardware. The aim is to assist more industries and customers in benefiting from the digital dividends under the new development dynamic, with the domestic economy and international engagement reinforcing each other, and achieve high-quality growth.



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