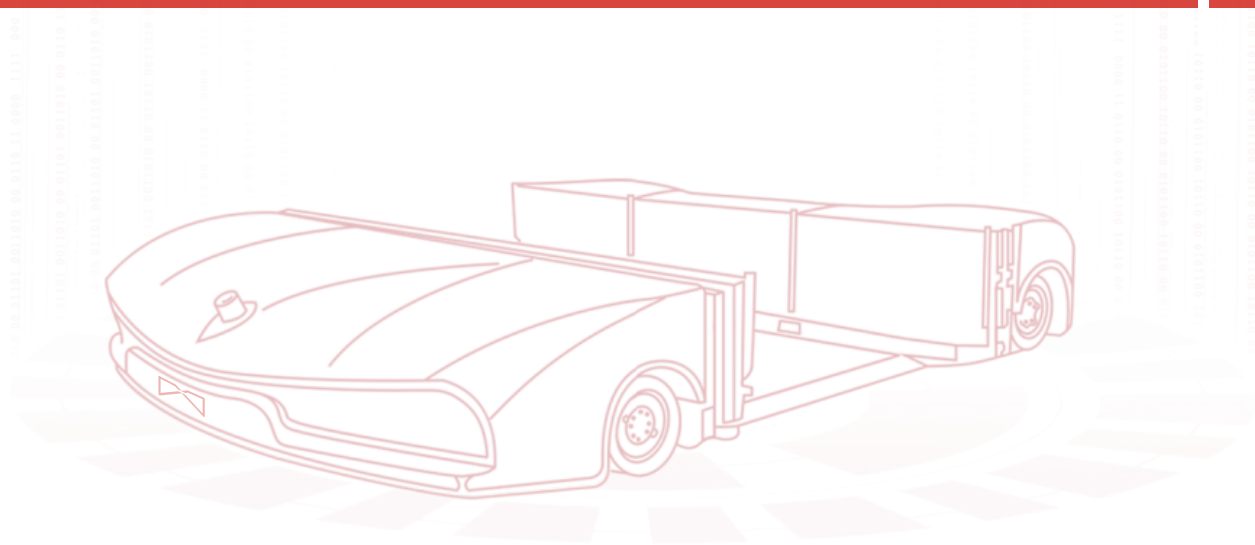


Customer case

Masterwork Technology Group Intelligent Logistics Center Project





Project Background

Masterwork Group Co., Ltd., established in 1995, is a leading printing equipment manufacturer in China and a global recognized provider of high-end printing equipment.

Masterwork has independently researched and developed seven product series, including bronzing machines, die-cutting machines, inspection machines, folder-glueers, digital inkjet printers, laser die-cutting machines, and gravure printing machines, with more than 100 products. Several products are pioneered in China and have attained a global advanced level. Masterwork products are marketed and sold in over 80 countries and regions worldwide. It has always ranked first in the market share of printing and packaging equipment segment in China.

As an industry leader, Masterwork has always been committed to intelligent development and efficiency improvement, to continuously elevate its own equipment manufacturing capability and drive the industry's growth.

As a general integrator of "Masterwork Printing Equipment Intelligent Manufacturing Center Project", HWArobotics has provided Masterwork with a one-stop total solution that covers solution consultation, planning and design, project integration, logistics equipment supply, installation and commissioning, training, after-sales services, and other aspects, to assist Masterwork in completing intelligent logistics modernization. Recently, this project has been successfully accomplished.



Pain Points

1. Major Challenges Masterwork is facing of the industry such as rising production costs, limited storage space, and tough environmental protection restrictions.
2. Masterwork has a huge number of SKUs, with varied specifications of parts.



Project Highlights

1. Mixture of tote and pallet for products with different specifications

This project involves products of different specifications and sizes. Considering the characteristics of Masterwork products, HWArobotics designed a mixture of tote storage and pallet storage system. The storage area of the tote AS/RS system contains a total of four aisles and 24,000 tote locations. The pallet AS/RS system contains a total of

5,536 single depth pallet locations total four aisles, considering the varied weight of goods, HWArobotics properly matches light and heavy loads in storage to ensure stable operation of the warehouse.

2. Random storage for tackling the problem of numerous SKUs and categories

There are many product categories in this project, with over 50,000 SKUs. HWArobotics adopts random storage in design to store

different SKUs in the same tote or pallet, which greatly increases the storage utilization rate.

3. Flexible combinations of software and hardware that allow switching between picking and receiving operation as needed

According to Masterwork's storage needs, HWArobotics has changed the "4+2" mode (4 picking areas and 2 receiving areas) to the "5+1" mode (5 picking areas and 1 receiving area), providing flexible combinations of software and hardware for both the tote AS/RS system and the pallet AS/RS system.

Each "goods-to-person" platform can be used as a picking or receiving area, and picking and receiving areas can be switched at any time.

4. Single-sided lift and single-sided staging module to save costs and enhancing efficiency

In view of overall budget, HWArobotics introduced the single-sided lift and single-sided staging module with bi-direction movement to this project. In the logistics industry, the operating efficiency of the shuttle lift is generally 60-80 sets/hour. HWArobotics can achieve an efficiency of 120 sets/hour. In Masterwork's project, this parameter is set to 96 sets/hour to meet the required level changing efficiency.



HWArobotics, a supplier of core products and core solutions in the internal logistics technology industry, has been focusing heavily on intelligent manufacturing in recent years. With its innovative solutions, HWArobotics has been assisting customers in their digital transformation and production upgrading

journey, and has won high recognition from its customers. In the future, HWArobotics will continue with its effort to help its customers in their upgrading journey.



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