



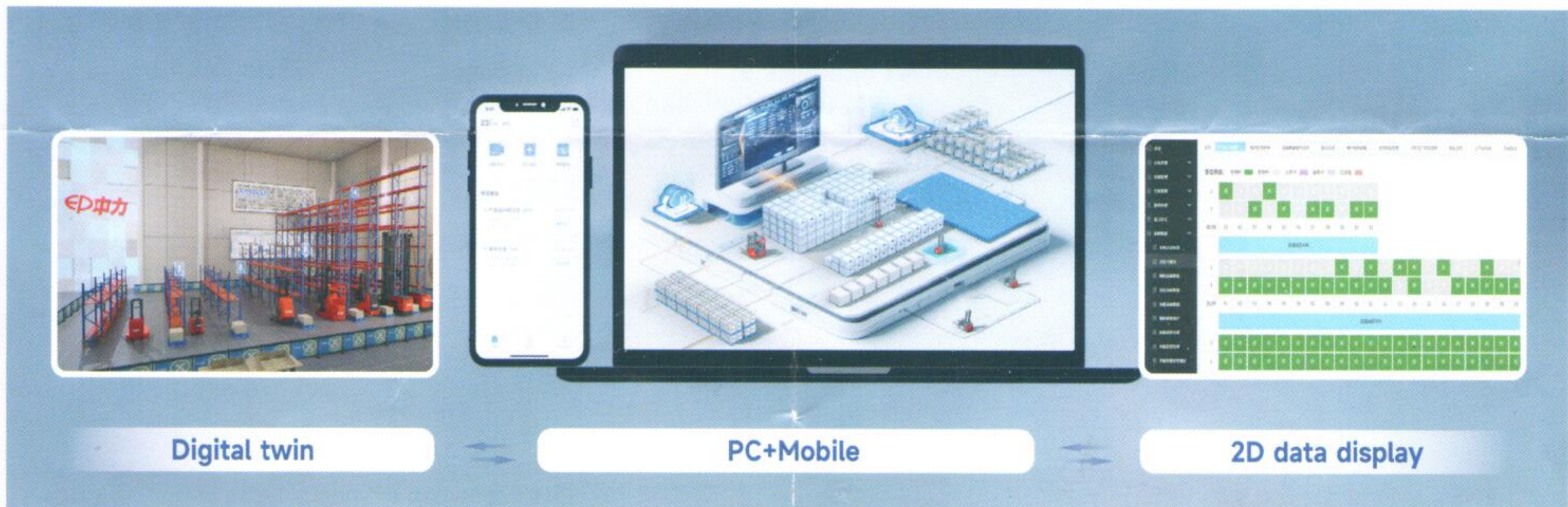
DAS Digital Autonomous System

01 Introduction

This material-flow-centered software system manages all aspects of warehouse operations, including storage, movement, planning, receiving, inspection, shelving, cycle counting, order processing, manufacturing, picking, and packaging. DAS enhances inventory transparency, optimises warehouse space utilisation, and reduces operating costs. When integrated with barcode, RF, and PTL technologies, it significantly improves operational efficiency, accuracy, and overall productivity.

Interface interaction

Provides customised functional configurations tailored to factory supply chain management needs.



Digital twin

Based on advanced digital twin technology, the DAS Digital Twin System creates an intelligent management platform that integrates virtual and physical environments to support modern warehouse operations. By using high-precision modeling and real-time data fusion, the system accurately mirrors the physical warehouse, continuously updating the digital twin to ensure consistency between the virtual and physical spaces.



Core Advantages of the Digital Twin

1. End-to-End Visual Monitoring

Real-time tracking of the entire process of robotic inbound and outbound operations.

2. AGV Intelligent Scheduling Management

Precise monitoring of AGV status and task execution.

3. Lifecycle Tracking of Goods

Digital management from inbound, storage, to outbound processes.

4. Dynamic Path Planning and Optimization

Intelligent analysis and optimization of vehicle operation routes.



Scan for video

02 Benefit

⊙ Robot Control System + DAS = Standalone Solution

Robot

The robot's built-in system includes a single-vehicle control system (path planning, obstacle avoidance, etc.)

DAS

Upper-level docking: Can seamlessly connect with ERP (Enterprise Resource Planning) and MES (Manufacturing Execution System), connecting the information flow of production and warehousing
Internal management: Fully covers the refined and digital management of warehousing materials, storage locations, operation logic, handling paths and inventory
Equipment linkage: Supports efficient collaboration with third-party automated equipment to build a complete intelligent logistics solution

Dimension

Automatic (robot)

Autonomous (robot +DAS)

Dimension	Product	Good	Core value	Customer value
Automatic (robot)	Hardware product	Equipment	Replacement of manual handling	Procurement of automation tools
Autonomous (robot +DAS)	Hardware + software + service integration package	An operational digital intelligence management system	Reengineer business processes and extract value from data	Production/ warehousing model upgrade

⊙ Supports multi-port docking without modifying

DAS supports docking with various types of standard carriers



Box

Gitterbox

Cage

And More!

DAS supports integration of various types of automated equipment



AGV

Robotic Arms

Stackers

Goods-to-Person Picking Stations

And More!

DAS supports various applications in different types of warehouses



No-aisle Stacking



High-level Racking



Flat stockpile warehouse

Rotating Cabinets

And More!