



W@W

DASP Order Picking System

Material Handling to Material Moving

WAREHOUSE
@ANYWHERE

Goods-to-Person &
Small Parts Storage





EP Autonomous Order Picking Solution

EP's autonomous order picking solution is a modular system built around two core components: DAS (Digital Autonomous System) and DASP.

The DAS autonomous factory functions as the central decision-making hub, while the DASP autonomous order picking system and robots carry out warehouse operations such as material inbound and outbound handling, picking, sorting, and internal transport.

With its modular and scalable design, the system is especially well suited for small and medium-sized companies, allowing automation to be introduced step by step and tailored to specific operational needs. It enables autonomous material management functions including real-time inventory tracking, stock monitoring, FIFO control, and automated warehouse rotation.

Designed to address the challenges of small materials, high SKU variety, and complex inventory management, this solution provides a flexible and cost-effective path to warehouse automation.



Use Cases

- Production facilities with high material turnover
- Spare parts warehouses



Flexible and minimal deployment

- No infrastructure: the ground is level without modification
- Quick deployment: 3-5 days



Worry-Free Service

- Enjoy lifetime worry-free digital after-sales service with wireless expansion anytime, anywhere



Space Saving

- Extremely high storage density: 20m² can accommodate more than 1000 storage positions
- Ultra-fast container handling speed: 180 containers/hour with fully automated high-speed entry/exit system
- The rotary box can be mixed with large and small boxes: suitable for small parts of multiple sizes



Management Return

- Digital and transparent management of goods information: accurate and real-time traceability of goods information
- Break down information barriers between supply and demand: link the supply and demand sides, and efficiently connect production plans
- Supports integration with various external systems, including ERP, WMS, MES, and WCS.

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Holistic
Coordination

Real-Time
Driving

Data
Empowerment

DAS Factory Digitalization is the intelligent command center and decision engine for DASP, going beyond the capabilities of traditional warehouse management systems. DAS enables holistic coordination, real-time execution, and data-driven decision-making, transforming static warehouses into dynamic, responsive smart logistics environments. Its modular architecture makes it especially suitable for small and medium-sized companies, allowing digitalization and automation to be implemented step by step and scaled as operations grow.

DAS provides DASP with true intelligence and perception, enabling stable, efficient autonomous operations while unlocking data value across the entire supply chain. It serves as a core digital foundation for smart manufacturing and lean logistics.

Core Value

01

The dispatching revolution from "passive execution" to "active command"

Millisecond-level task optimization
Plan the optimal path
Effectively improve work efficiency

As the command hub, DAS enables millisecond-level dynamic task planning. When massive inbound and outbound warehouse instructions surge in, DAS analyzes equipment status, locations, and task queues in real time to compute globally optimal solutions rather than local optima. This effectively prevents equipment congestion and path conflicts, ensuring absolute smoothness in warehouse "traffic" flow. By maximizing cluster coordination efficiency, it precisely matches production rhythms and achieves uninterrupted continuous operations.

02

Transparent management from "information island" to "digital twin"

Material information is visible in real time to facilitate accurate decision-making

As a digital twin platform, DAS achieves 1:1 real-time replication of the entire warehouse's operational status in the virtual environment through data acquisition. Every container's location, status (inbound, in storage, outbound pending), batch, and expiration date are clearly visible. This not only visualizes inventory management but also operational workflows, providing managers with unprecedented transparency that serves as the foundation for making precise decisions.

03

Value extension from "internal optimization" to "supply chain collaboration"

Provide deep real-time sharing of two-end information to promote supply chain collaboration and achieve win-win value.

As a bridge for supply chain collaboration, DAS effectively breaks down data barriers between demand-side entities and upstream suppliers, as well as downstream production lines. By deeply sharing data on material consumption, inventory levels, and expected deliveries, DAS empowers suppliers to "anticipate demand" and flexibly adjust their production and shipping plans. This significantly reduces the risks of inventory overstock and material shortages in DASP, transforming these facilities from cost centers into hubs that stimulate supply chain synergy and create win-win value.

04

Smart risk control from "remediation after the event" to "prevention before the event"

Intelligent risk warning and inventory structure optimization

As an all-weather risk monitoring system, DAS features an intelligent risk control model that operates 7x24 to automatically track critical metrics like inventory age, expiration dates, and stock turnover rates for all materials. When preset thresholds are breached (e.g., nearing expiration or slow turnover), the system triggers proactive alerts instead of passive monitoring. This enables managers to intervene early, address near-expiry materials, optimize inventory structures, and transition from reactive "remediation after the event" to proactive "pre-emptive management" – effectively preventing financial losses.

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Standard Version

The system consists of shelves, box picking, modular sized boxes, weighing platforms, and display screens.

1 Module

20.46m²

6.2m long × 3.3m wide
Unit area

180 boxes/h

fastest time to enter
and leave the warehouse

**Mix large and small boxes for
flexible expansion**

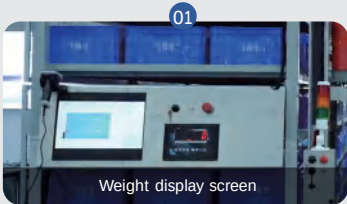
unlimited extension according to site layout, no
changes to existing site

5.5m

Standard height

1530 units

Max storage capacity



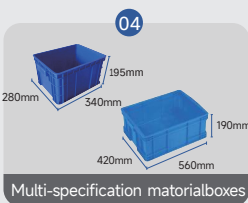
Weight display screen



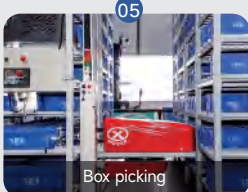
Weighting platform



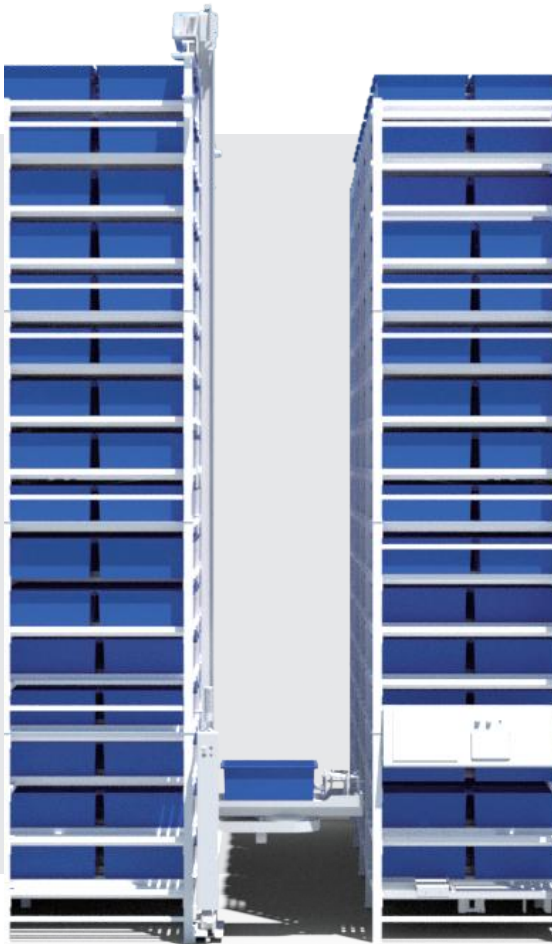
Shelves



Multi-specification material boxes



Box picking



1 Module

Small Box

Unit storage capacity:
1530 units

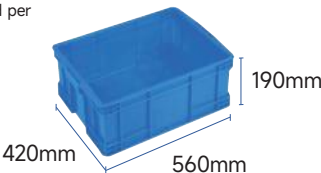
Maximum load per
single unit:
20kg



Large Box

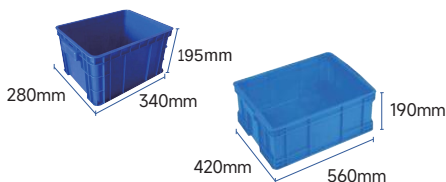
Unit storage capacity:
760 units

Maximum load per
single unit:
30kg



Storage quantity

Unit storage capacity
1145 units



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DASP Order Picking System (Human Shaped Robot)



Workflow

The embodied dual-arm picking robot can perform lifting, turning, bending, picking, and carrying boxes, realizing goods picking and transferring.

DASP Order Picking System (Material Box Transfer Robot XCL0051)



Workflow

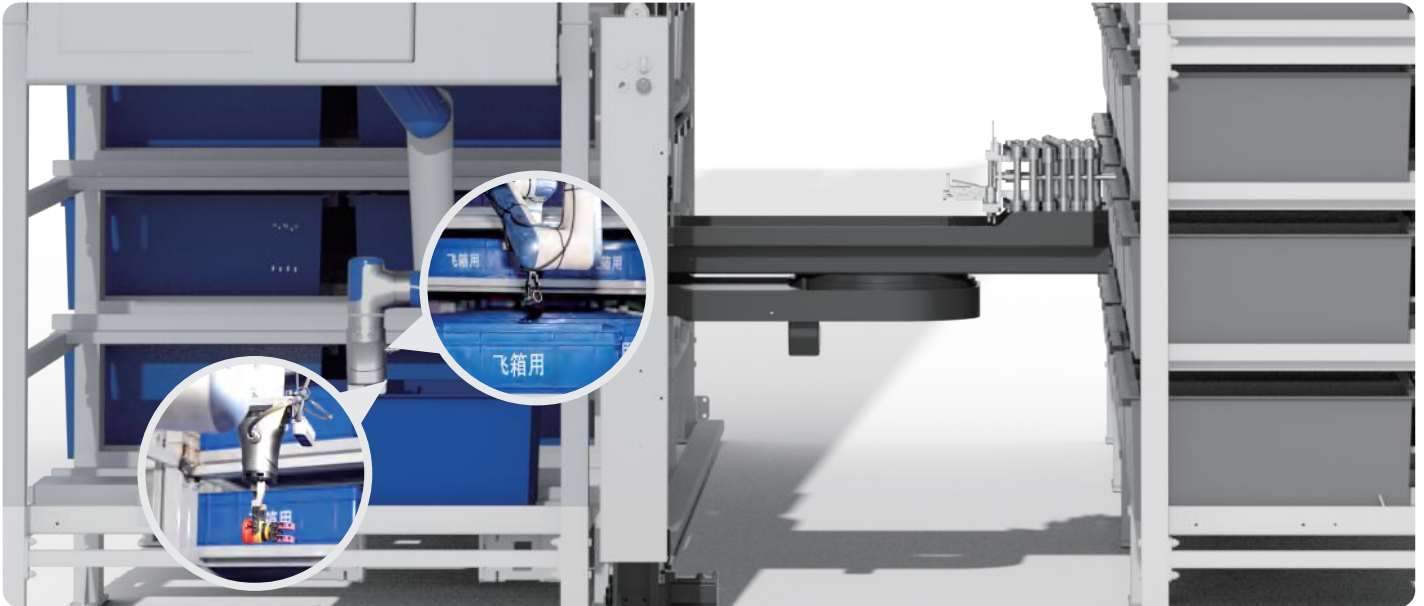
After the goods are released from warehouse, the XCL0051 transports them to the destination

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DASP Order Picking System (Flexible Robotic Arm)



Workflow

After the goods are released from the warehouse, the robotic arm picks the required parts and goods.

DASP Order Picking System (Human shaped robot)



Workflow

Embodied Single-Arm Picking and Delivery Operation Process: After the material box is released from the warehouse, the single-arm robot picks the required goods and transports them to the destination.