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Website

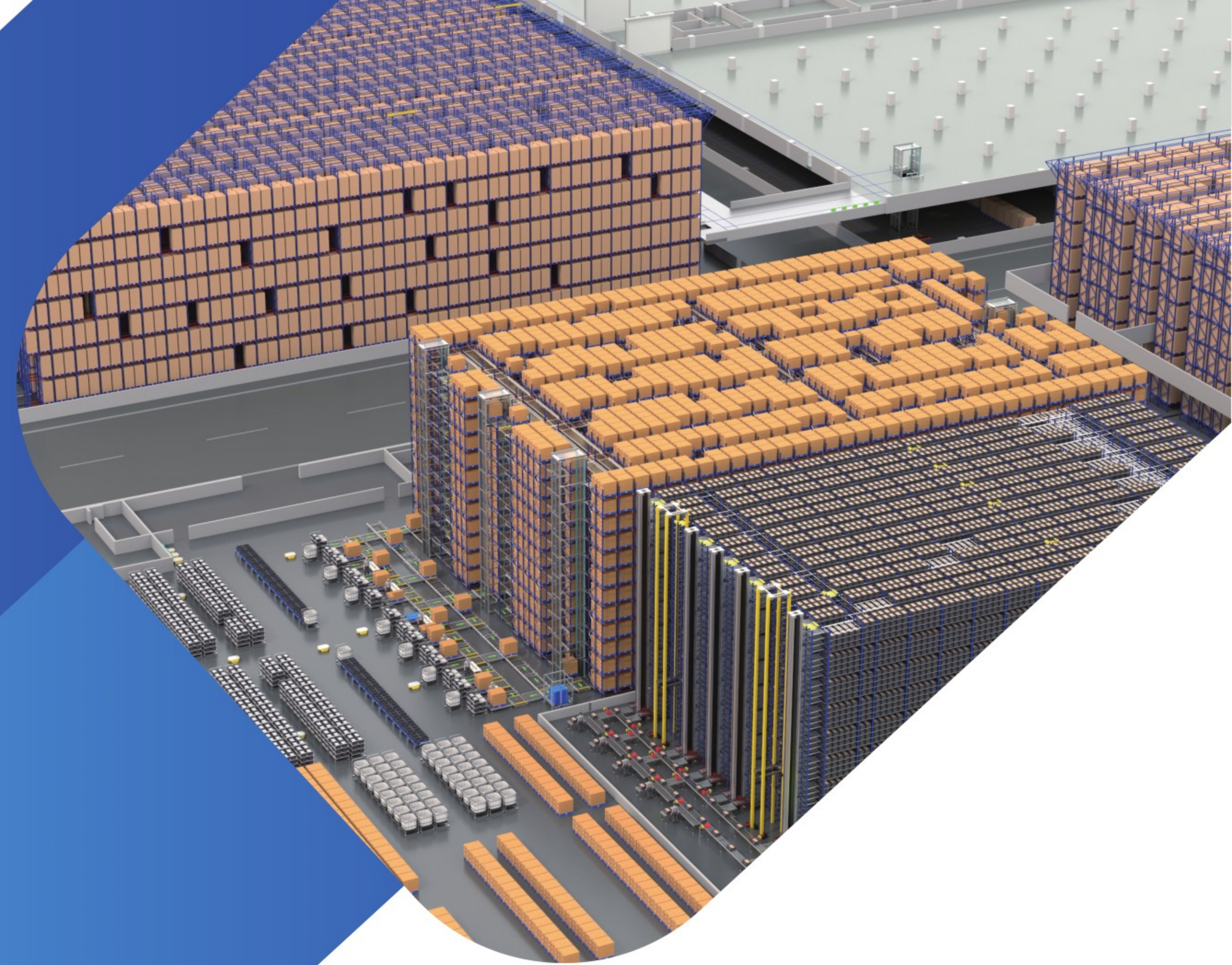


WeChat



WhatsApp

No invitations to specific individuals



MASTER 万事达
Specialized In Logistics Equipment

AUTOMATED HIGH-DENSITY STORAGE INTEGRATION EXPERTS
ACT WITH INTEGRITY, ADVANCE WITH WISDOM



2001
FOUNDED IN

55,000 m²
PLANT AREA

3
FACTORIES

COMPANY PROFILE

Founded in 2001, Tianjin MASTER Logistics Equipment Co., Ltd. has grown over the past decades into one of China's leading suppliers of logistics equipment and automation system integration. Today, the company operates as a high-tech enterprise that combines intelligent intralogistics solutions with advanced warehouse system integration.

MASTER provides global customers with end-to-end services, covering solution design, R&D, manufacturing, installation, commissioning, and after-sales support. With a focus on quality, service, and continuous innovation, the company has earned a strong reputation internationally. Its products are certified under ISO9001 and CE (European Conformity), reflecting compliance with international standards.

MASTER has been recognised for its innovation and growth by competent authorities, including awards as a "High-Tech Giant" Enterprise and the "MASTER RACKING" brand being acknowledged as a well-known trademark in China.

The company's manufacturing base is located in the Wuqing Economic Development Zone, Tianjin, with modern production facilities covering 55,000 m² and equipped with advanced technology. The annual output value reaches approximately \$120 million, and the company employs over 400 professionals, more than two-thirds of whom hold a bachelor's degree or higher. MASTER invests heavily in R&D for warehouse management systems (WMS/WCS), multi-directional shuttles, and automated storage and retrieval systems (AS/RS), while continually enhancing service quality.

In addition to domestic operation, MASTER has established offices and subsidiaries in Southeast Asia, Latin America, Europe and the Middle East, providing both pre-sales consultancy and after-sales service to ensure local customer support.

MASTER's mission, expressed in the company motto "Unity of Knowledge and Action, Innovation for the Future", is to deliver efficient, lean, and intelligent warehouse automation solutions. Since its establishment, MASTER has successfully completed over 300 automation projects and installed tens of thousands of racking systems worldwide.

The company's strength lies in its professional, highly skilled, and dynamic teams across manufacturing, R&D, project execution, and customer service—ensuring reliable solutions and long-term partnerships with its clients.

SCHEME PLANNING

With industry-leading expertise, a dedicated project planning team is formed to design and develop precise proposals, implementing a strict proposal review system to ensure the feasibility and effectiveness.

R & D and Design

Independently
develop software

In-house
manufactured
hardware

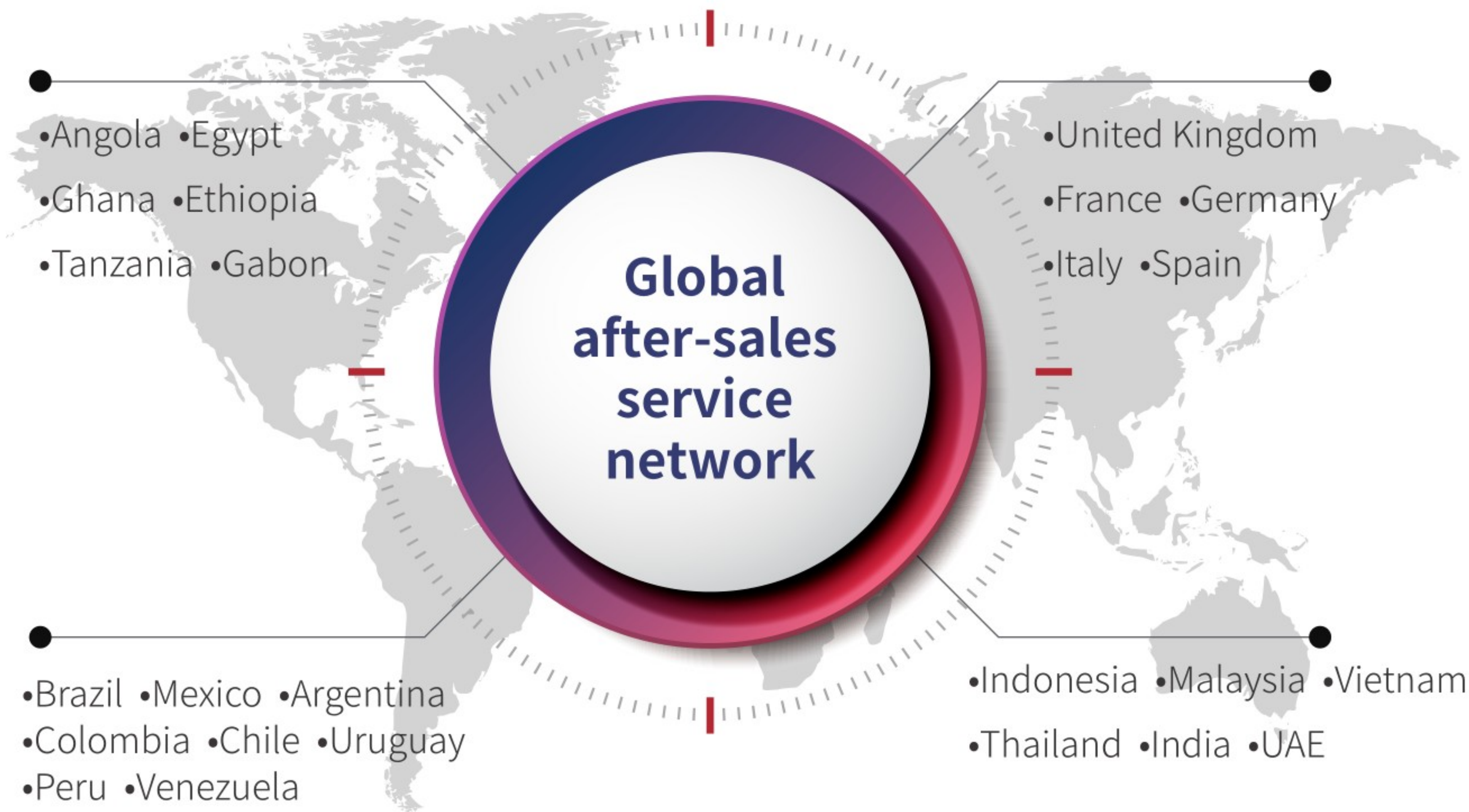
Customize products
according to
client requirements

Ensure designs are
rigorous and
scientifically sound



MANUFACTURING
INSTALLATION & COMMISSIONING

MASTER is equipped with advanced production facilities and follows strict operational procedures, with professional engineering and technical staff overseeing product quality throughout the entire process.



Professional installers provide precise, on-site services and operate after-sales service centres in multiple locations worldwide to offer customers the most convenient support.



Proactive On-Site Monitoring
During Warranty

Our dedicated field engineers perform monthly inspections during the warranty period to evaluate system performance, maintenance, and operational conditions, promptly addressing any issues. Post-warranty, we continue to provide full maintenance coverage under a 24-hour response framework, ensuring uninterrupted system operation.



Specialized Training for Client
Maintenance Teams

We deliver professional, tailored training to client personnel, enabling them to operate, monitor, and conduct preliminary diagnostics of the system independently. In cases of personnel turnover, we provide ongoing training at no additional cost, ensuring operational continuity.



Flexible Maintenance & Support Channels

Clients can access our support via multiple channels



Dedicated Hotlines



E-mail



Rapid On-site
Intervention

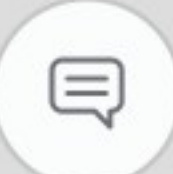


Remote
Troubleshooting



System Stabilization and
Handover Protocol

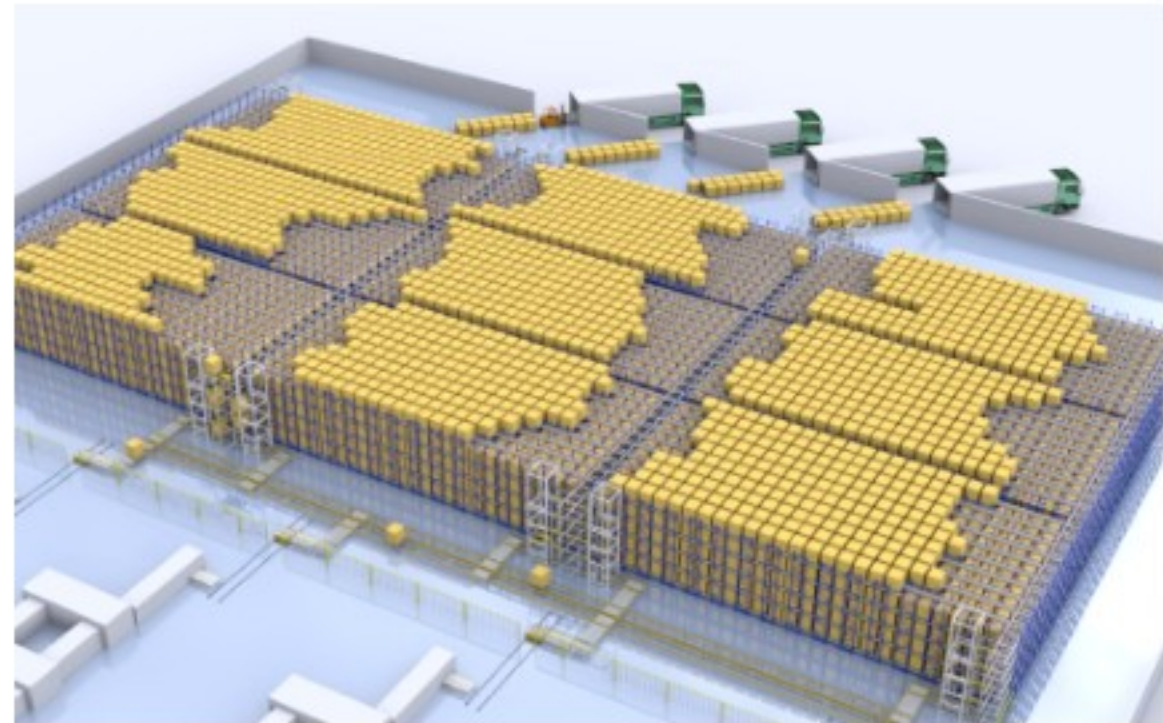
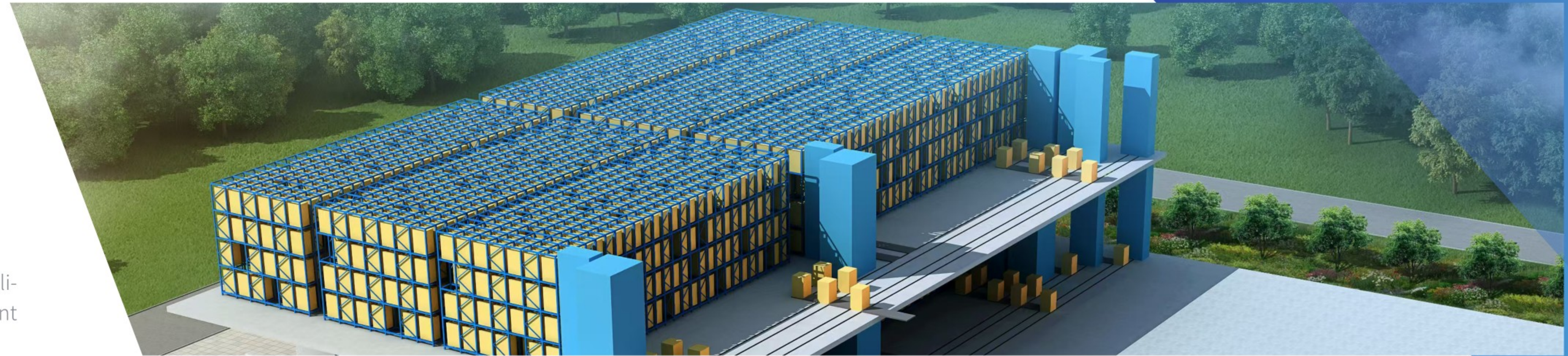
Following commissioning, our software and hardware engineers remain on-site to monitor system stability, resolve software anomalies, and fine-tune operations. Only after a sustained period of stable and efficient performance is the system formally transitioned to the client's maintenance team, guaranteeing reliability from the start of independent operation.



MASTER independently develops WMS and WCS systems and manufactures a wide range of storage and racking equipment. As a leading provider of logistics solutions and an automation systems integrator, it offers global clients comprehensive end-to-end services, including project planning, R&D and design, manufacturing, installation and commissioning, as well as after-sales maintenance. The company is renowned worldwide for its exceptional quality, first-class service, and innovative technology.

PRODUCT INTRODUCTION

MASTER independently develops various software and hardware facilities, leveraging advanced technical algorithms and robust intelligent manufacturing to lead industry development.



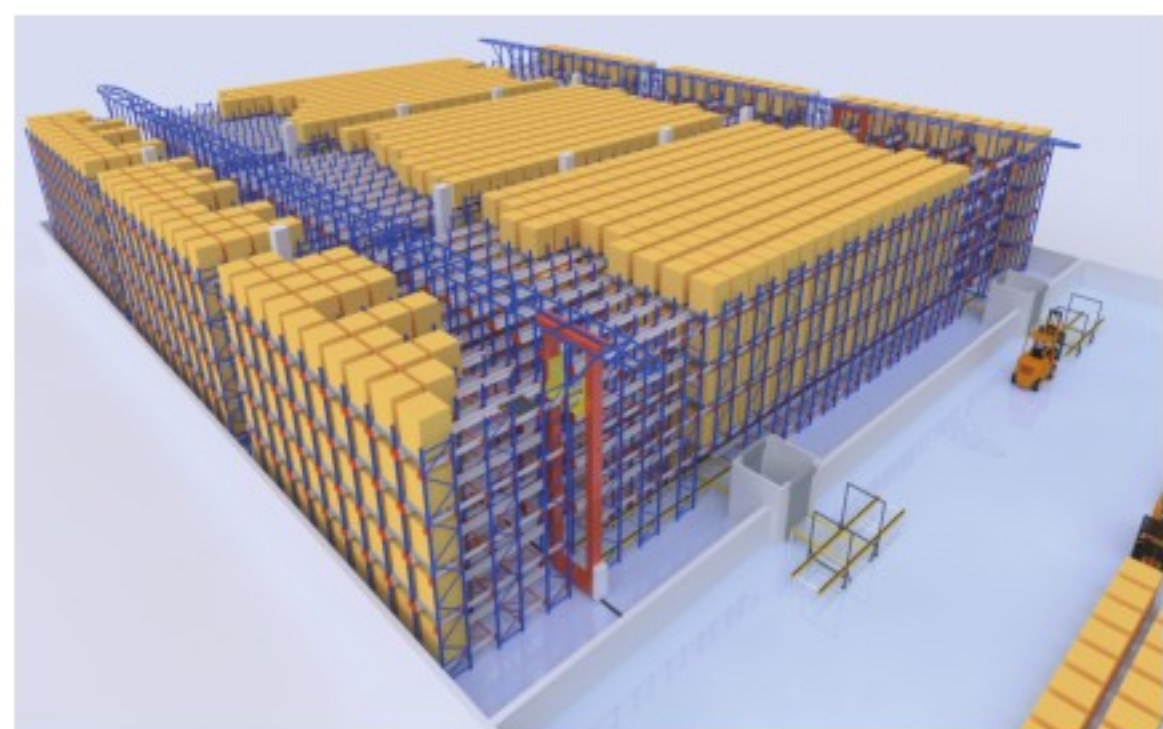
FOUR-WAY SHUTTLE INTENSIVE STORAGE SYSTEM

Composed of vertical lifts, four-way shuttles, conveyor lines, WMS/WCS software, and racking, this system enables flexible and high-density pallet storage with efficient access and throughput.



AS/RS AUTOMATED WAREHOUSE SYSTEM

Composed of stacker cranes, conveyor lines, WMS/WCS software, and racking, this system provides a fully integrated automated warehouse solution for efficient storage, retrieval, and inventory management.



SHUTTLE & STACKER CRANE SYSTEM

Composed of stacker cranes, shuttles, WMS/WCS software, and racking, the system delivers fully automated pallet storage and retrieval operations.



MULTI-LAYER SHUTTLE INTENSIVE STORAGE SYSTEM (TOTE HANDLING)

Composed of vertical lifts, multi-layer shuttles, conveyor lines, WMS/WCS software, and racking. It provides high-density storage and efficient handling of totes.



WAREHOUSE SOFTWARE

Warehouse software systems monitor and integrate key components, automating complex processes and improving operational efficiency.



RACKING

We provide customized warehouse racking solutions to meet diverse and complex operational requirements, ensuring high quality, reliability, and efficient system performance.

FOUR-WAY SHUTTLE INTENSIVE STORAGE SYSTEM

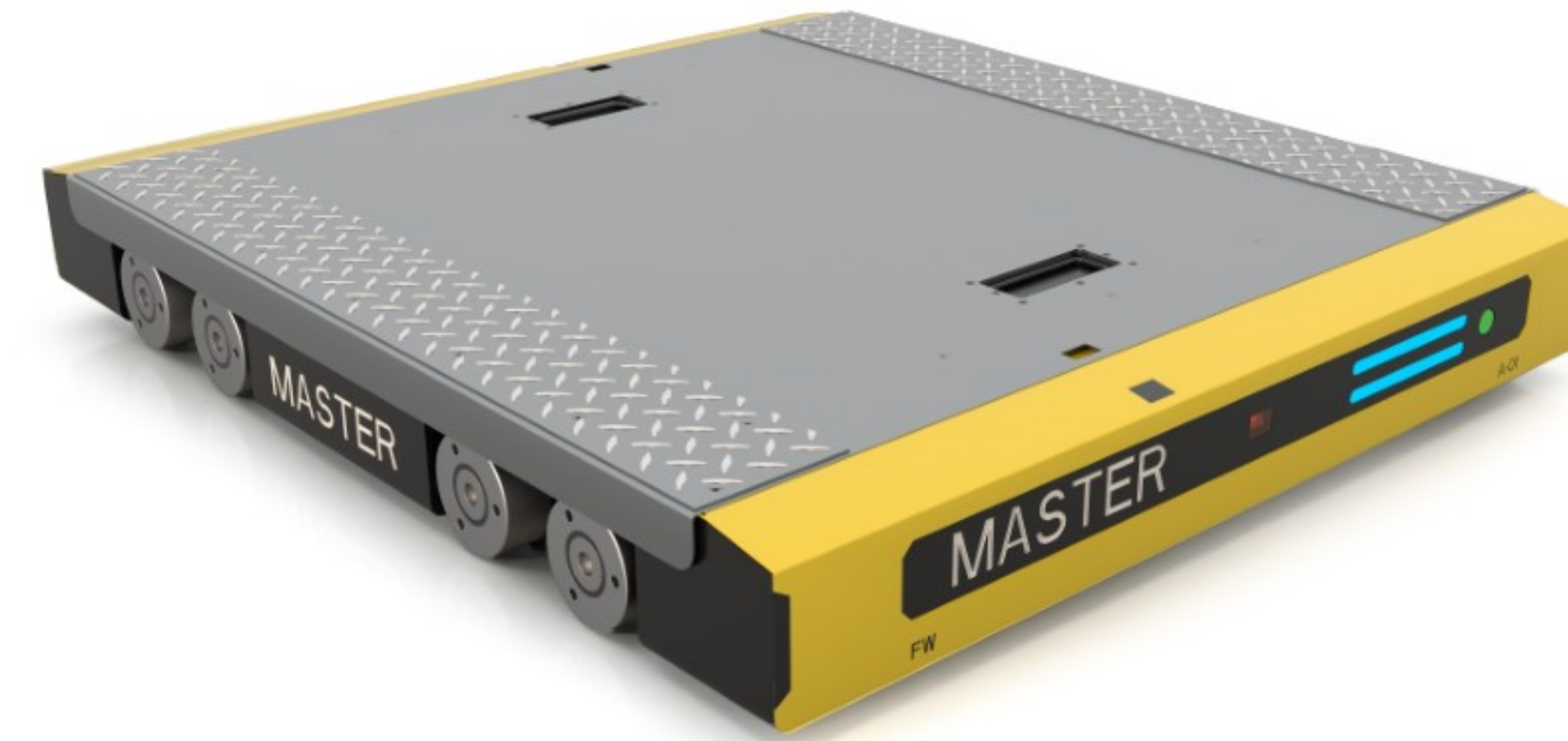
The Four-Way Shuttle Intensive Storage System is an entirely new intelligent storage solution developed by MASTER. The four-way shuttle can move both longitudinally and laterally in four directions. The system is composed of four-way shuttles, horizontal conveyor systems, lifts, racking systems, as well as WMS and WCS software.

This system offers high storage density, rapid inbound and outbound operations, stable and secure system performance, high redundancy, and strong scalability.

The four-way shuttle can automatically switch 90 degrees within longitudinal storage aisles and lateral transfer lanes, making it especially suitable for warehouse layouts with complex architectural constraints. It is widely applicable across industries including food and beverages, dairy, pharmaceuticals, tobacco, fine chemicals, and cold-chain logistics.



► FOUR-WAY SHUTTLE



The 4-way shuttle technology is revolutionizing automated pallet storage, creating an efficient and flexible multi-product storage for various industries. Designed for precision and efficiency, the 4-way shuttle operates at speeds of up to 2m/s, with a working time of 10-14 hours and low energy consumption, ensuring high efficiency.

2m/s
high-speed
operation

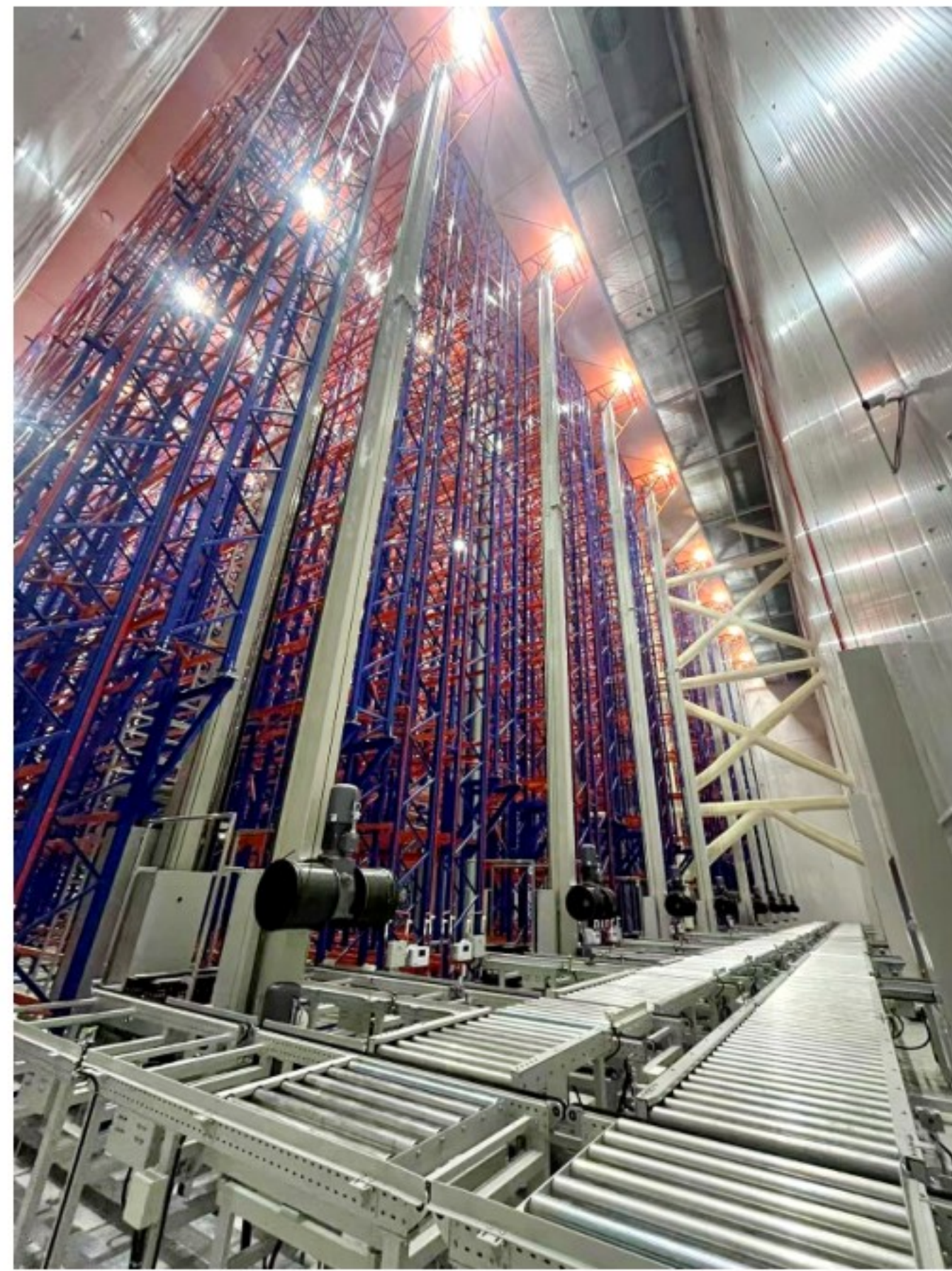
10-14
hours continous
working time

POWER
low enegy
consumption



AS/RS AUTOMATED WAREHOUSE SYSTEM

The Automated Storage & Retrieval System is one of the commonly used dense storage solutions in modern warehousing. The system consists of automated aisle stacker cranes, racking systems, WMS and WCS software, horizontal conveyors, and transfer stations.



It features a high level of automation, efficient and scientific management, and first-in-first-out (FIFO) inventory control. Compared to non-dense storage systems, it allows precise management of each individual pallet location, making it ideal for storage scenarios with a large number of SKUs and requirements for returns and order picking.

The system can be designed with single-deep or double-deep storage configurations to address limitations in storage density. Circular track layouts can also be implemented to optimize inbound and outbound efficiency, reduce the number of stacker cranes required, and lower overall costs.



► STACKER CRANE

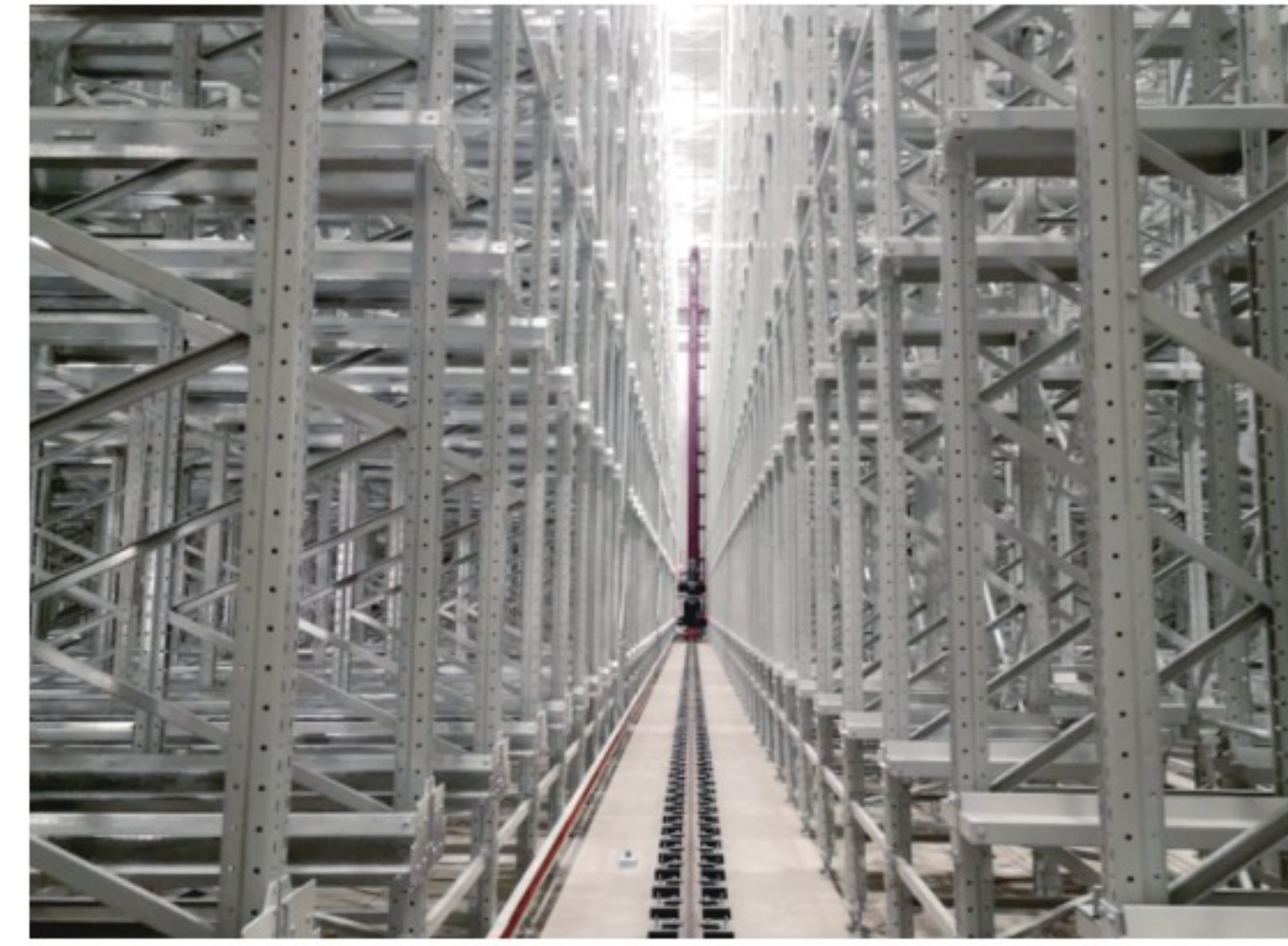
Stacker crane is designed for high-density storage in narrow aisle, high-bay warehouse environments. Ideal for facilities exceeding 10 meters in height, AS/RS stacker cranes provide efficient, accurate, and reliable pallet storage and retrieval solutions.



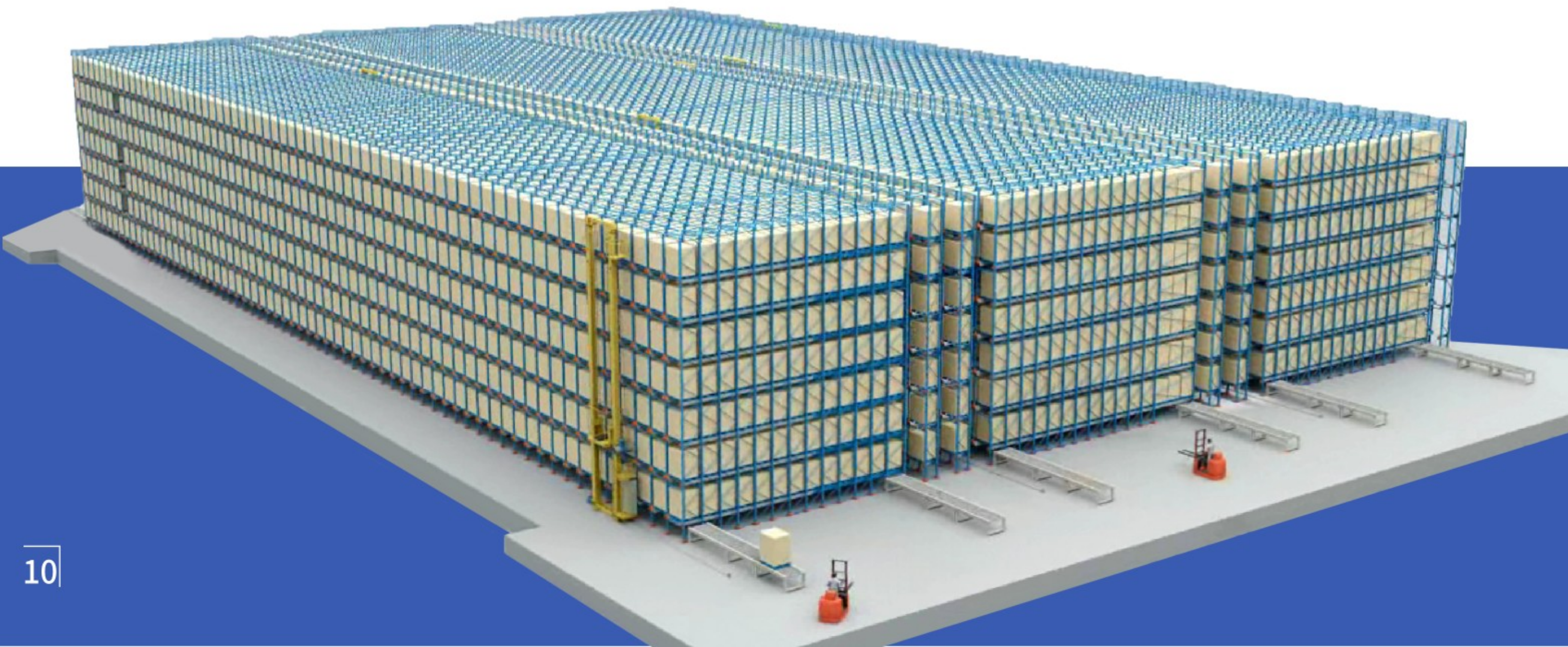
SHUTTLE & STACKER CRANE SYSTEM

The Shuttle AS/RS System is an advanced smart storage solution designed for vertical warehousing. Featuring dynamic shuttle movement, it allows for a more compact and efficient layout of material flows between workstations, significantly improving throughput.

Under the control of an integrated electrical system, stacker cranes lift goods to designated heights and place them at input stations. Shuttles then accurately locate these positions using addressing technology, automatically picking up and transporting the material along horizontal pathways.



This system is primarily used for high-speed, repetitive transport of unit loads within automated logistics systems and offers a high degree of automation, flexibility, and operational efficiency.



► SHUTTLE STORAGE SYSTEM

The shuttle system features a two-level design: the lower level serves as the shuttle travel lane, while the upper level is dedicated to pallet storage positions. The top of the shuttle track is designed with a wide opening, allowing forklifts to easily load the shuttle units onto the rails.



MULTI-LAYER SHUTTLE INTENSIVE STORAGE SYSTEM (TOTE HANDLING)

The multi-layer shuttle is an intelligent handling device designed for automated logistics systems. Featuring dynamic transfer capabilities, it enables a more compact and streamlined material flow layout between different workstations, thereby significantly improving logistics efficiency.

It can be easily integrated with other logistics systems, such as inbound/outbound stations, various buffering stations, conveyors, lifts, and robots, to transport materials according to planned schedules. Additionally, it operates autonomously at high speed without manual intervention, greatly reducing the workload of warehouse personnel and enhancing overall productivity.

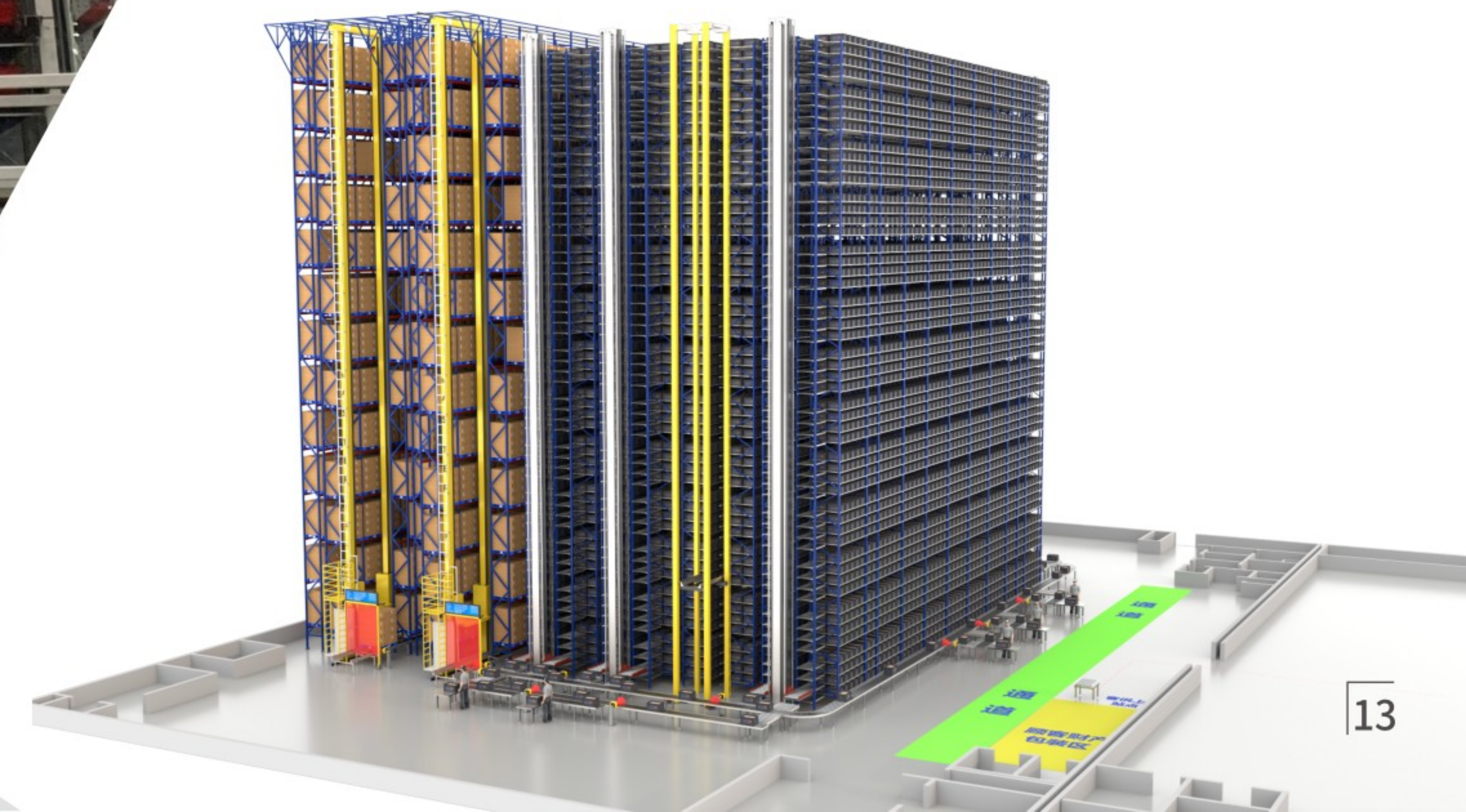
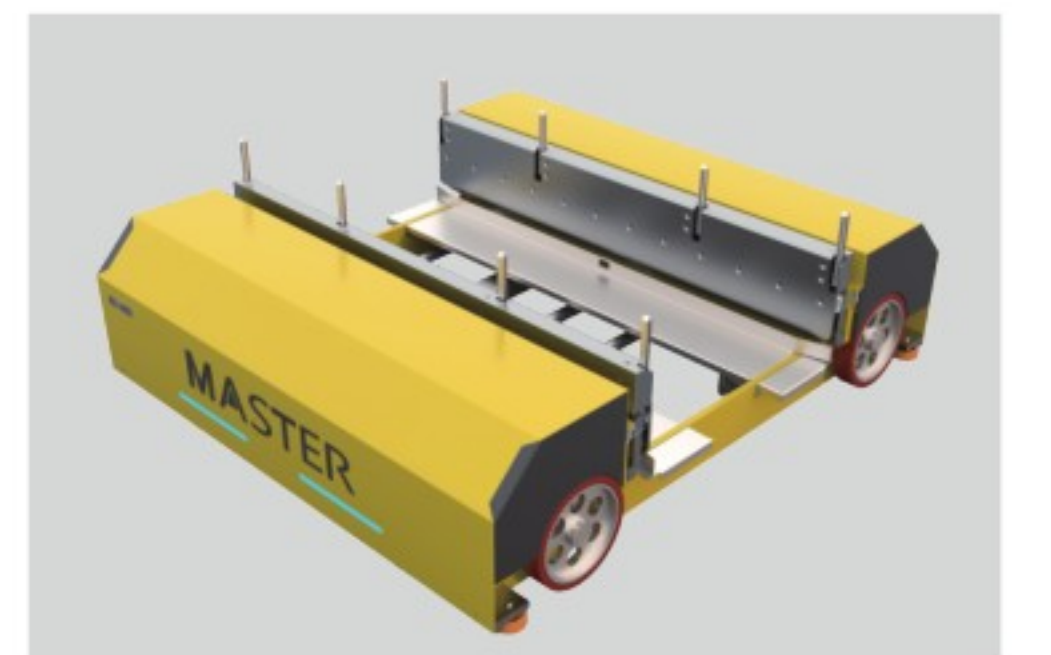
This system represents a cutting-edge automated storage model that combines "goods-to-person" picking with high-density storage. Compared to traditional miniload systems, it is more advanced and efficient, making it ideal for automated storage of tote-based logistics.

The multi-layer shuttle system supports single or double-depth storage designs, as well as bi-directional or four-way configurations, making it widely suitable for light tote logistics in industries such as automotive parts, electronics, and biopharmaceuticals.



► MULTI-LAYER SHUTTLE

Using the S-curve algorithm, MASTER's multi-layer shuttle system can automatically plan the acceleration route, uniform speed route, and deceleration route according to the destination location, reaching the target location with remarkable speed (5m/s) and precision (positioning accuracy of $\pm 2\text{mm}$). All multi-layer shuttles can communicate seamlessly and provide real-time feedback on their working status.



AUTOMATED EQUIPMENT

► FOUR WAY SHUTTLE



Name	Specification
Rated capacity	1500kg
Maximum load	2000kg customized
Power of walking motor	Power of walking motor
Jacking and reversing	Jacking and reversing
Max walking speed of no-load/ full-load	2.0m/s
Max acceleartion speed of no-load/ full-load	Max acceleartion speed of no-load/ full-load
Charging time	≥2hours
Running time	Ambient temperature 12 hours Low temperature 10 hours
Battery capacity	Battery capacity
Jacking and reversing time	Jacking and reversing time
Transmission	Transmission
Positioning type	Positioning type
Communication type	Communication type

► MULTI-LAYER SHUTTLE



Name	Specification
Maximum load	50 KG
WIFI receiving system	Siemens(stable signal. fast speed. wide range)
Photoelectric system	Pepper Fuchs (long service life.stable signal, low failure rate)
PLC	Siemens(stable, fast calculation speed)
Control mode	Online automatic /single manual
Motor	Infranor Servo Motor
No-load speed	4 m/ s
Overload speed	3 m/ s
Power supply	Battery or slide wire
Motor power	Travel 750W, fork expansion 400W
GPS	Photoelectric positioning
Suitable temperature	-20℃~50℃

► STACKER CRANE



Name	Specification
Model	double upright/ straight moving/ single or double deep/ double working station
Rated load	1500 Kg
Horizontal moving speed	Configured according to different
Horizontal moving acceleration	0.5m/s^2
Vertical lifting speed	Adapt different speeds to different project requirements
Vertical lifting acceleration	1m/ s^2
Fork telescopic speed	30/ 60m/min
Fork telescopic acceleration	0.5/ 1m/ s^2
Positioning mode	walking: bar code address lifting: bar code+encoder forking: photoelectric + encoder
Positioning accuracy	Vertical: ±5; Fvertical: ±3; Forking: ±3mm
Communication solution	Infrared communication
Power supply mode	contact power line;
Equipment painting	spray paint, recommend yellow, thickness 105μm
Noisy	less than 84dB

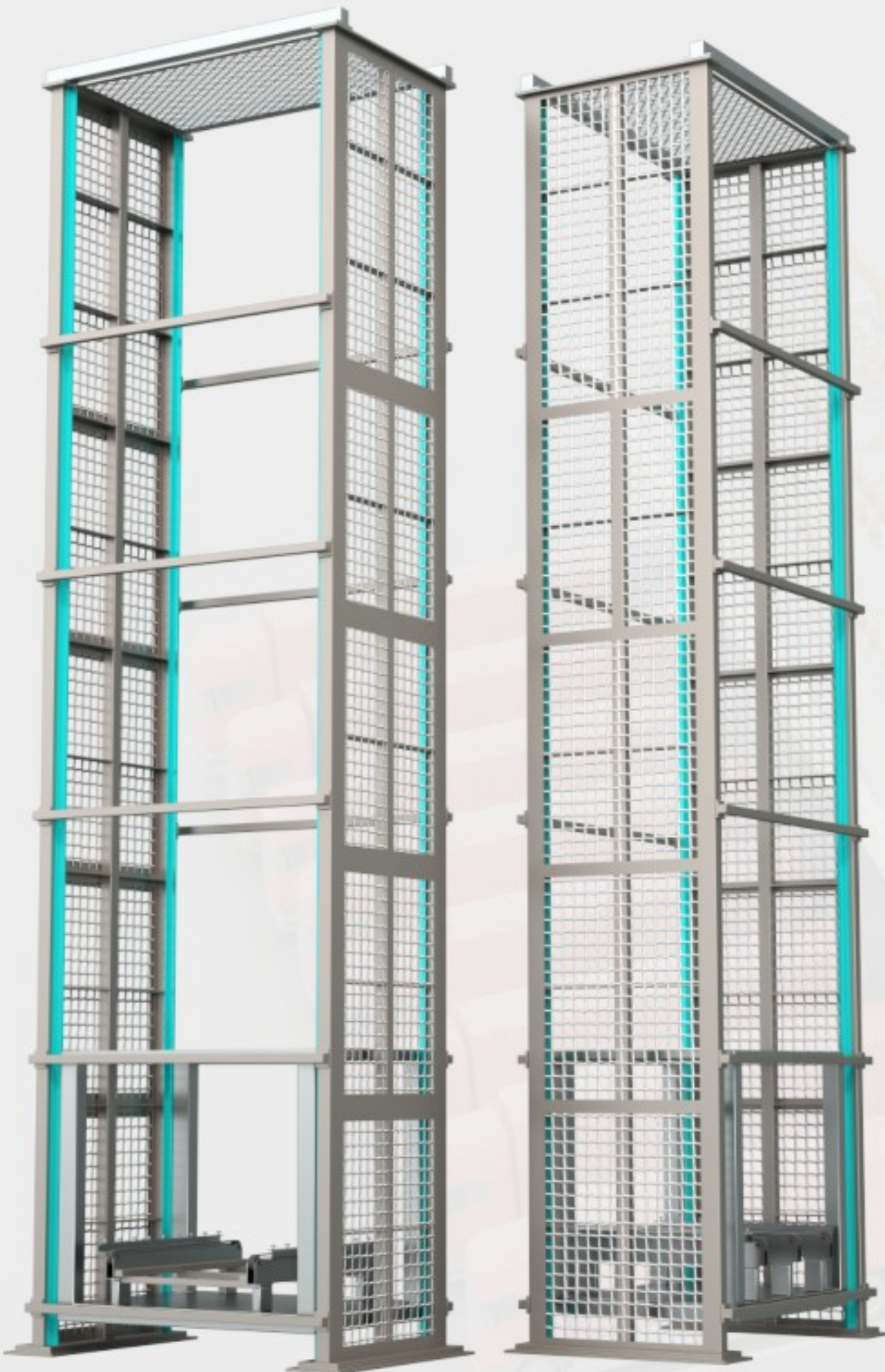
► AGV



Name	Specification
cargo weight	1000kg
Full-load acceleration	0.4m/s²
No-load walking acceleration	2m/s²
No-load traveling speed	1.8m/s
Full-load traveling speed	1m/s
Lifting stroke	60mm
Lifting speed	7.5mm/s
Lifting time	8s

WAREHOUSE ELEVATORS

Patented Anti-settlement Design



Patented **anti-settlement platform** ensures the smooth four-way shuttle layer-changing and effective cargos docking.

Patented **shuttle anti-drop design** prevents the four-way shuttle from falling during layer changing.

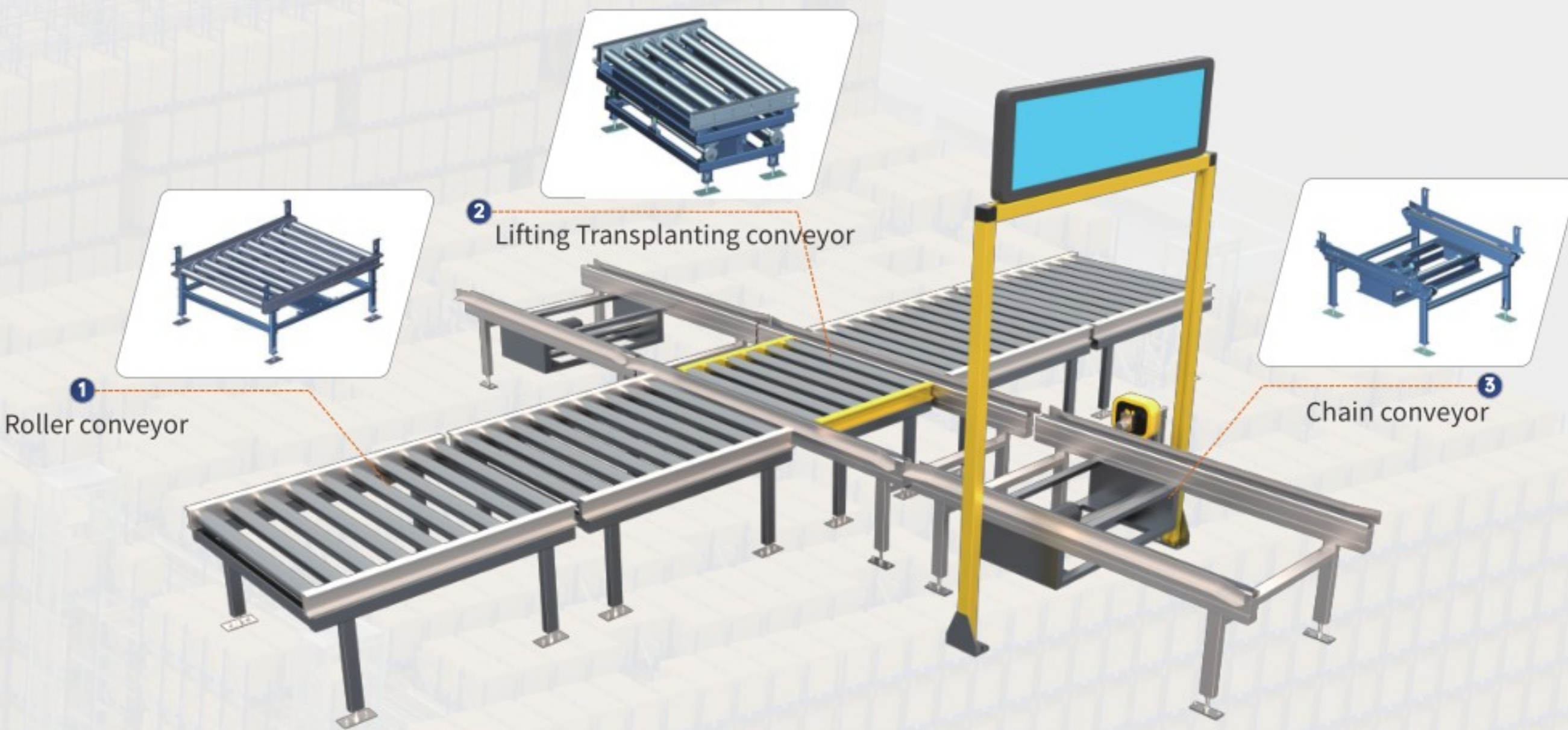
The elevator supports the **high-speed vertical lifting without T-rails**, which reduces the lifting resistance and extends the service life.

Name	Specification
Application	Carrying both pallets and shuttles
Structure	Chain and sprocket / Gear rack and pinion
Rated Load	≤1.5t (standard); >1.5t (non-standard)
Dimensions	1820×2450×project-specific height mm (based on standard pallet size: 1200×1000mm)
Horizontal Conveying Speed	0-16m/min
Max Lifting Speed(Full-load/No-load)	1m/s 2m/s Fastest in the industry
Max Acceleration(No-load/Full-load)	0.5m/s² 0.3m/s²
Motor	Nord/SEW/Siemens
Control System	Siemens PLC
Positioning Method	Barcode
Positioning Accuracy	±2mm

MASTER's warehouse elevators are powered by a servo motor, enabling stepless speed control for material lifting, fast and accurate positioning, and a force balance mode, requiring only minimal external force to move workpieces up and down automatically. We offer customized warehouse cargo elevator solutions tailored to industries such as manufacturing, retail, and cold storage. With a loading capacity of up to 1.5 ton and an operating temperature range of -20°C to +50°C, this warehouse cargo lift is designed to meet demanding operational needs. As advanced automated lifting equipment, our solutions ensure efficiency, reliability, and adaptability for diverse storage environments.

CONVEYOR

Automated Conveyor System is a crucial component of modern warehouse automation. This advanced equipment includes a single conveyor and a control system, catering to both pallet and box delivery needs. The system is composed roller conveyor, chain conveyor, and lifting transplanting conveyor. Additionally, the automated pallet conveyor ensures seamless integration for efficient material handling and sorting, making it an essential solution for optimizing warehouse operations.



Name	Specification
Rated Load	1200kg
Conveying Speed	16m/min
Frame Structure Material	Carbon steel
Motor	Nord/SEW
Motor Power	0.75kw/1.1kw
Control Mode	Manual/stand-alone automatic/online automatic
Surface Treatment and Coating	Acid washing, phosphating treatment, and electrostatic spraying



RGV (RAIL GUIDED VEHICLE)

Upon receiving operational commands, the RGV navigates to the designated input station via precise addressing to pick up materials. It then shuttles efficiently between stations, transporting goods to the target output station with high speed and accuracy.

Thanks to its high velocity and operational flexibility, the RGV enables rapid material handling and transfer, making it an essential solution for modern warehouse automation.

WAREHOUSE SOFTWARE



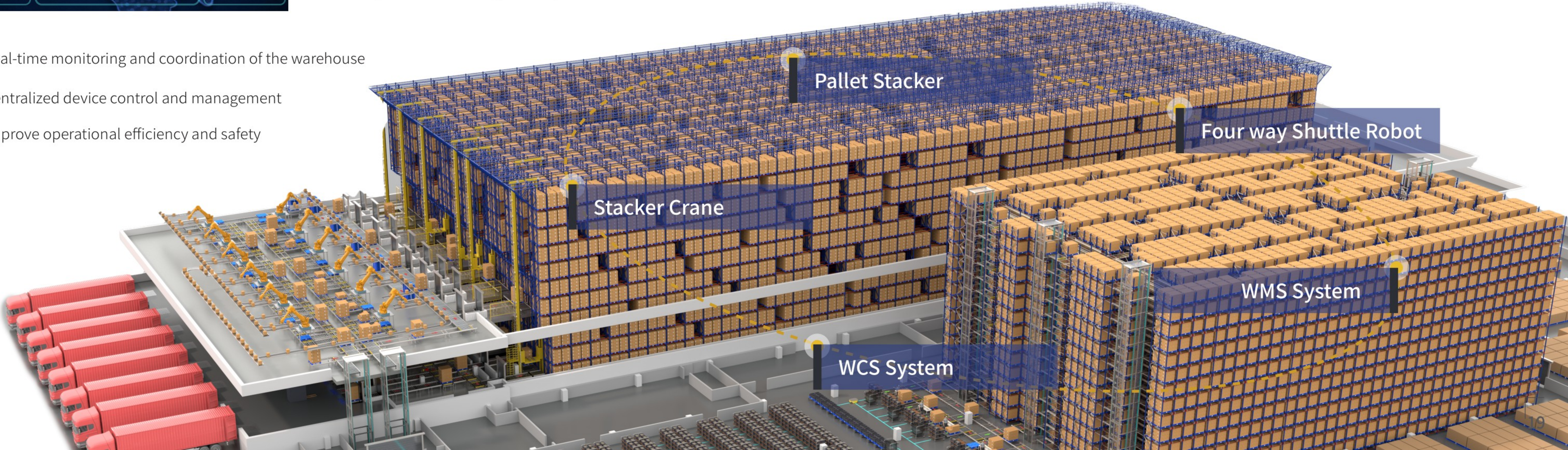
Warehouse Management System (WMS) is an advanced software solution designed to optimize the planning, execution, and monitoring of warehouse operations. It seamlessly integrates key functions such as goods receiving and shipping, inventory management, and report generation. With our advanced WMS, the operators can achieve full visibility and precise control over the warehouse, significantly improving operational efficiency and streamlining overall processes.

- Real-time monitoring and coordination of the warehouse
- Centralized device control and management
- Improve operational efficiency and safety

Warehouse Control System (WCS) is an advanced solution designed to monitor and coordinate warehouse operations in real time. Through a WCS, operators can achieve comprehensive management and control of warehouse processes, significantly improving operational efficiency and equipment safety. Tianjin Master's WCS stands out for its ability to enhance inventory accuracy, streamline supply chain processes, reduce labor costs, accelerate order fulfillment, and optimize warehouse space utilization.



- Real-time Monitoring
- Process Coordination
- Equipment Safety
- Improves inventory accuracy to 99.9%
- Significantly streamlines supply chain
- Reduces repetitive labor costs



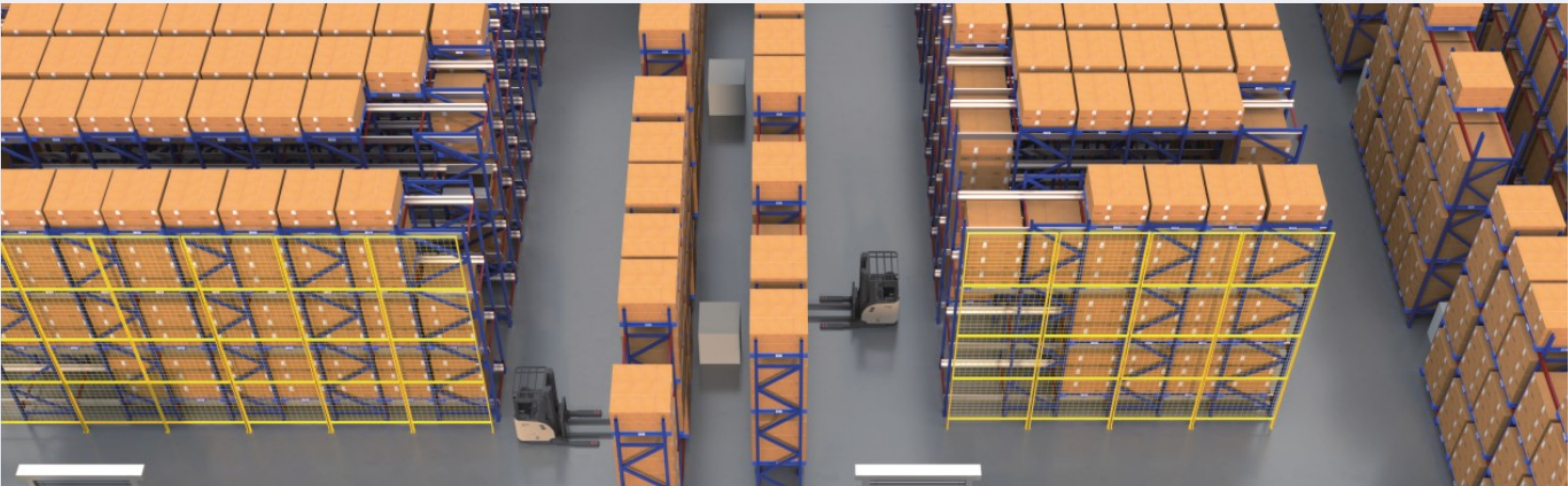
HD-SHUTTLE STORAGE SYSTEM

The HD-Shuttle Storage System is an advanced warehouse management solution, featuring "High Storage Density", streamlined inbound/outbound operations, and fast access efficiency. Compared with traditional drive-in racks, it offers enhanced inventory management capabilities, supporting both FIFO (First-In, First-Out) and FILO (First-In, Last-Out) workflows.

The system consists of dedicated shuttle racks and smart shuttles, and can be integrated with automation equipment to form a high-level automated storage solution through function expansion.

Shuttles can automatically store and retrieve goods as needed and in specified quantities. While waiting for forklifts or during warehouse reorganization, they can automatically transport pallets from deep within the aisles to the pick-up/drop-off points, significantly improving inbound and outbound efficiency.

The smart shuttles are equipped with built-in data statistics capabilities. Operators can use the feedback digital controller to send commands, enabling real-time statistics of the actual number of pallets stored in each lane. The system also records the total number of shuttle movements in and out of the warehouse over a given period, providing accurate data to support improved warehouse management.



MASTER SHUTTLE



The smart shuttle is a high-tech product independently developed by MASTER's automation engineering team, with full proprietary intellectual property rights.

It features advanced design, premium-grade configuration, robust functionality, and exceptional build quality. Core optoelectronic and mechanical components — including key motors, gear reducers, drives, controllers, feedback digital controllers, and laser distance sensors — are sourced from leading international manufacturers.

Compared with standard domestic shuttles, this model offers superior load capacity, faster travel speeds, higher-grade components, and more comprehensive functionality. Its appearance is designed by a professional industrial design firm, with a modern, ergonomic form that fully complies with human-machine engineering principles and requirements.



SOLUTION DESIGN

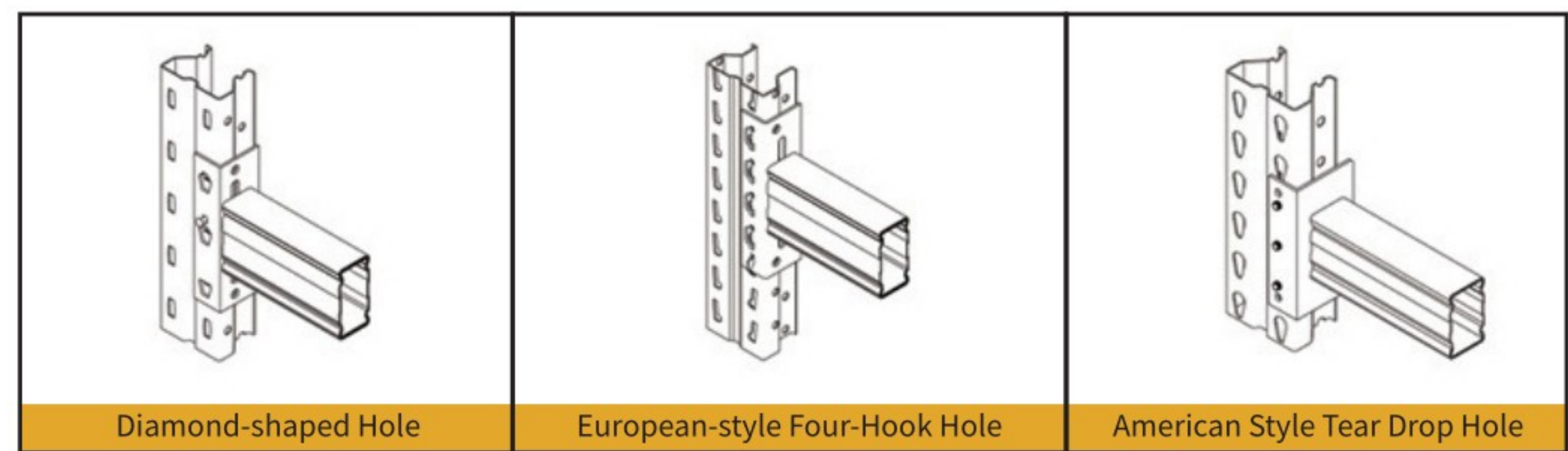
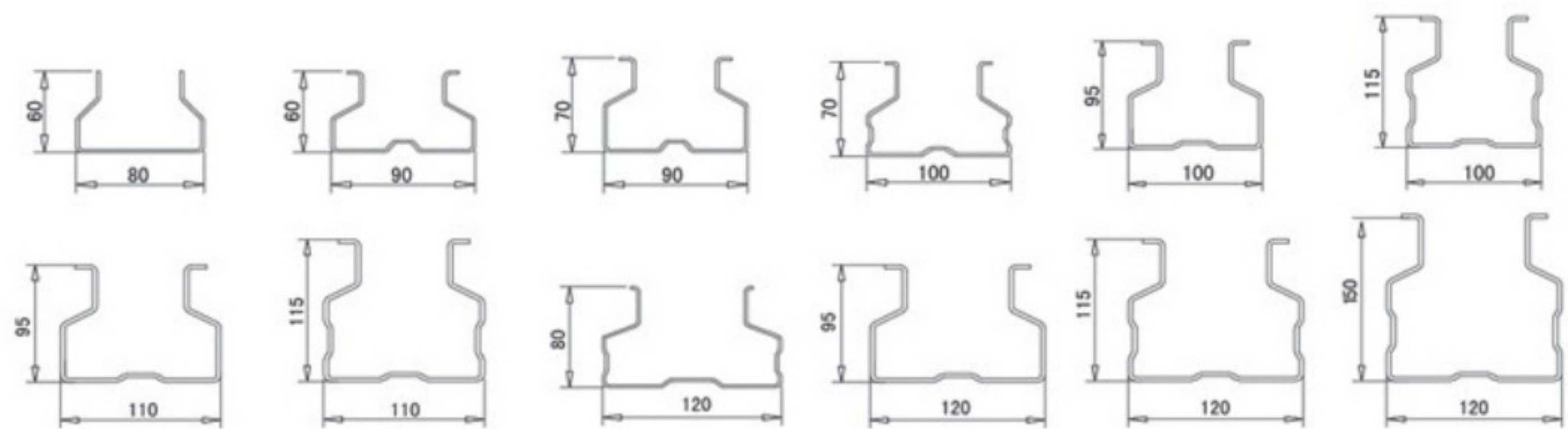
INSTALLATION

MANUFACTURING

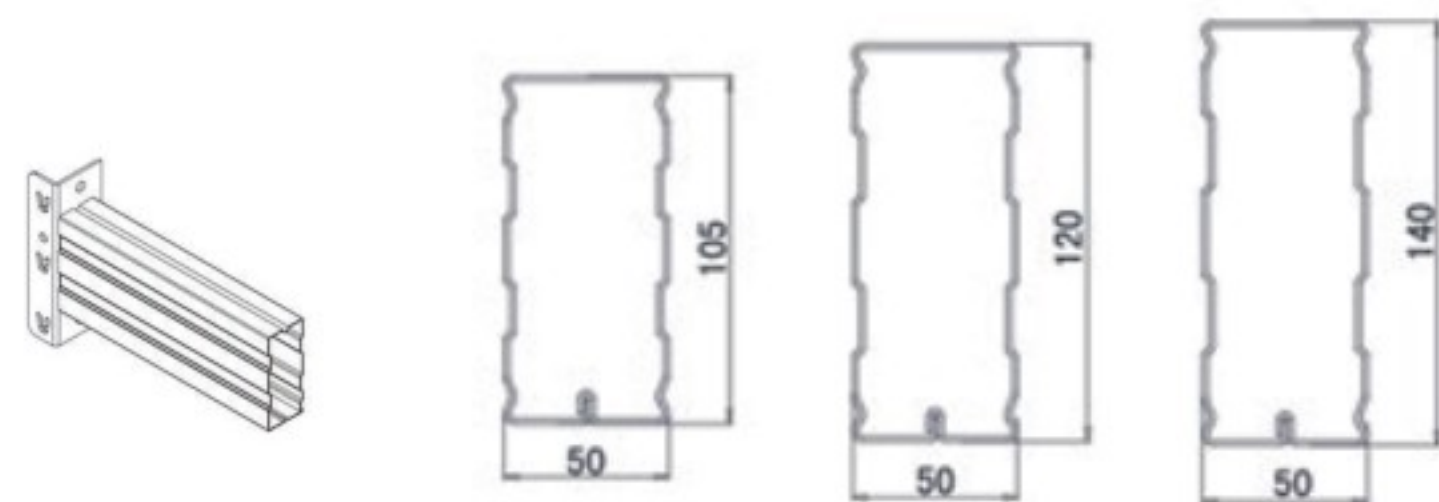
COMMISSIONING

AFTER-SALES
SUPPORT

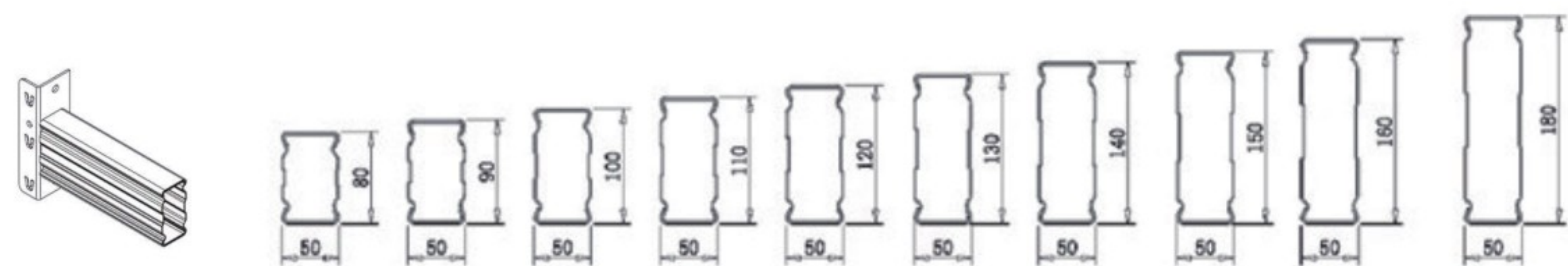
I Racking



Integrated molding beam



Box beam



PALLET RACKING

Pallet racking is one of the most widely used rackings, with the advantages of stable structure, large load capacity, and convenient picking .



LONG SPAN RACKING

Characterized by high load capacity, a stable structure, and flexible dimensions (height and length), long span racking is suitable for heavy-duty storage and mezzanine racking systems.



DRIVE-IN RACKING

Drive-in racking is suitable for storage systems with a limited variety of products and a full-pallet inbound and outbound operation. It is widely used in cold chain logistics, beverages, food, dairy products, etc.



STEEL STRUCTURE PLATFORM RACKING

The steel structure platform offers large load capacity, flexible design, and use. convenient installation.

40+
UTILITY
MODEL PATENTS

26+
SOFTWARE
COPYRIGHTS

35+
INVENTION
PATENTS



MASTER invests continuously in intralogistics technology innovation, holding a strong IP portfolio including 26 software copyrights, 40 utility model patents, and 35 invention patents.

MASTER's products are certified to AS (Australia), RMI (U.S.), and CE (EU) standards.

Guided by a commitment to "exceptional service and customer focus", MASTER has built its capabilities and brand reputation since its inception.

WHY CHOOSE US



Comprehensive technical support

7x24h technical support throughout the year, using the project manager responsibility system + first inquiry responsibility system to provide all-round services



Sign an after-sales contract

After the warranty period, spare parts will be provided at preferential prices and continued service will be paid



Accompanying service

Accompanying service for 3-6 months to meet operation requirements



Regular 12-month warranty

Local + nearby services. Regular spare parts are stored in each service center.