

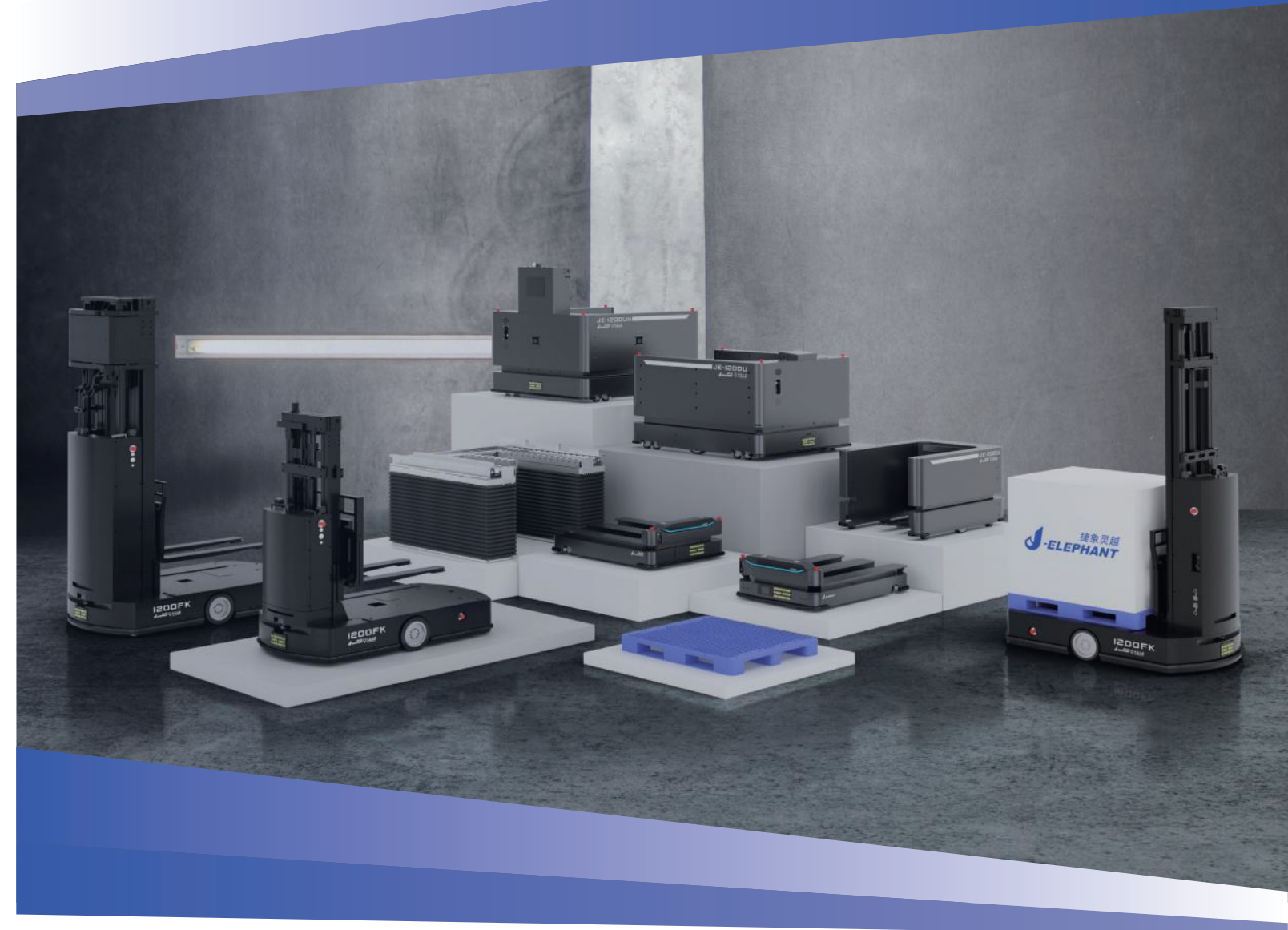
J-ELEPHANT



CONTACT US
www.jelep.com

☎ 010-62998908 ✉ sales@jelep.com

📍 Room 1004, Building 16, No. 813, Changlin Street,
Haidian District Beijing 100082 China



J-ELEPHANT
PALLET ROBOT
SYSTEMS EXPERT

PALLET ROBOT SYSTEM SPECIALIST

J-ELEPHANT

J-Elephant is a robotics company specializing in smart manufacturing and smart warehousing. They provide efficient, flexible and reliable smart logistics solutions for manufacturing customers through their self-developed pallet robots and JMS industrial software.

J-Elephant was incubated by Sinovation Ventures established the AI Institute founded by Dr. Kai-Fu Lee. Since its inception, the company has provided products and services to Fortune 500 companies and leading organizations in a variety of industries, including pharmaceuticals, food, and semiconductors.



NATIONAL HIGH-TECH
ENTERPRISE



ISO QUALITY MANAGEMENT
SYSTEM CERTIFICATE



40 INVENTION PATENTS
3 PCTS



CE MARKING

SINOVACTION VENTURES AI INSTITUTE



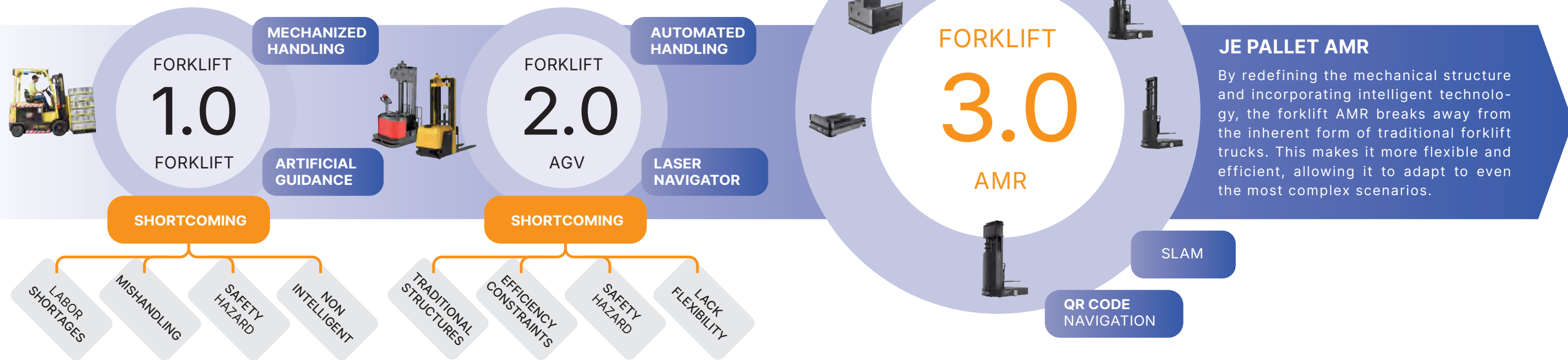
Sinovation Ventures established the AI Institute in September 2016. Dr. Kai-Fu Lee serves as the President, collaborating with renowned engineers and scientists to advance AI in research and business.

J-Elephant Ventures is the second company incubated by Sinovation Ventures' AI Engineering Institute (the first is listed on the Hong Kong stock market).

Dr. Kai-Fu Lee
Sinovation Ventures
Founder



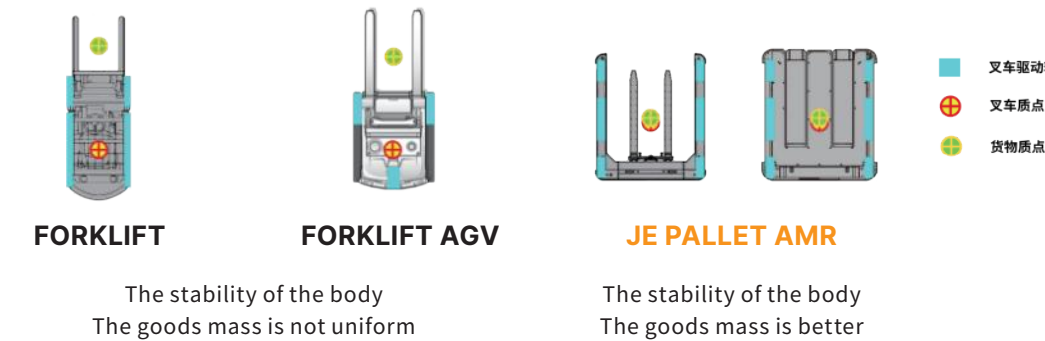
FORKLIFT DEVELOPMENT



FORKLIFT 3.0 INNOVATIVE JE PALLET AMR

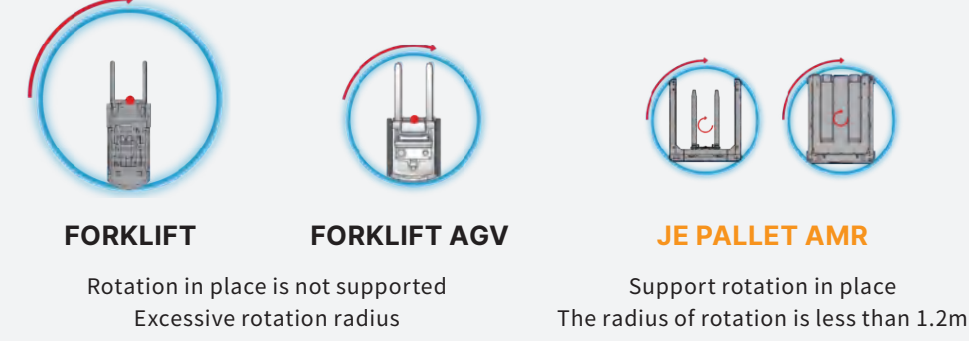
SCIENTIFIC

New structure for improved stability of the physical center of gravity.



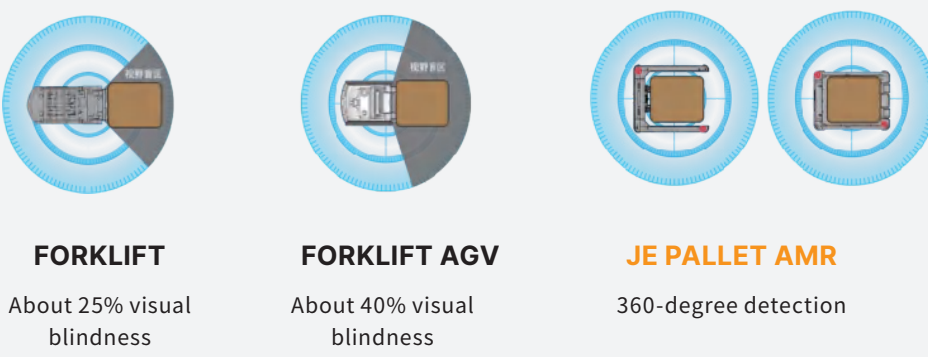
DEXTERITY

Flexibility to efficiently rotate in place.



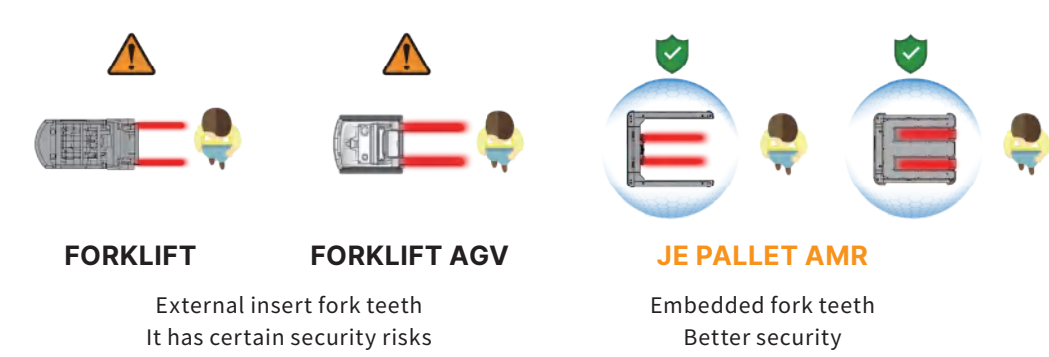
INTELLIGENT

The system provides a complete sensing of the surrounding environment and intelligently avoids obstacles.



SAFER

The tines of the fork are built-in to prevent any potential safety hazards.



PRODUCT MATRIX



Built-in pallet AMR

Reach lift pallet AMR

Stereoscopic Warehouse Pallet AMR

Materials
handling



JE-1200U



JE-1200UH



JE-1200E

Stereoscopic
storage



JE-1200FK-25



JE-1200FK-46



JE-1200FK-65

BREAKTHROUGH INNOVATION
IN THE UNMANNED FORKLIFT INDUSTRY

BUILT-IN PALLET AMR

Spin in place

U-shaped
structural protection

360°
environmental awareness

Built-in fork tines

Center of
gravity consistency



Built-in pallet AMR

Parameters / models		JE-200U	JE-1200U	JE-1200UH
Underlying parameter	Navigation mode	SLAM	SLAM	SLAM
	Environmental reform	Unnecessary	Unnecessary	Unnecessary
	Maximum running speed	1.2m/s	1.2m/s	1.2m/s
	Band-type brake	Include	Include	Include
	Brake release device	Support	Support	Support
	Maximum load	200kg	1200kg	1200kg
	Size (length, width, height)	1430mm×1005mm×800mm	1810mm×1480mm×1000mm	1809mm×1605mm×1561mm
	Rotate mode and diameter	Rotate in situ, 1800mm	Rotate in situ, 2450mm	Rotate in situ, 2600mm
	Maximum lift height	180mm	180mm	2000mm
	Chassis height	Body chassis is 40mm	Body chassis is 40mm	Body chassis is 40mm
Security related	Emergency stop switch	3	4	4
	Sound warning	Support	Support	Support
	Light warning	Support	Support	Support
	Touch edge collision switch	Support	Support	Support
Fork tooth size	Wide outer fork teeth	300mm	600mm	570mm
	The fork teeth are wide inside	100mm	360mm	330mm
	Fork tooth width	100mm	120mm	120mm
	Fork length	880mm	1220mm	1070mm
	The fork tooth is at the ground height	80mm	75mm	75mm
Wireless performance	WI-FI signal	2.4G / 5G	2.4G / 5G	2.4G / 5G
	WI-FI go on a pleasure trip	Support	Support	Support
Positioning navigation	Positioning accuracy	±10mm	±10mm	±10mm
	Visual repositioning	Apolegamy	Apolegamy	Apolegamy
Expand the interface	USB	3	3	3
	CAN port	Have	Have	Have
	I / ODI port	Route 3 way (NPN)	Route 3 way (NPN)	Route 3 way (NPN)
Cell	Battery voltage	48V-54V	48V-54V	48V-54V
	Battery capacity	48V 30AH	48V 50AH / 48V 100AH	48V 50AH / 48V 100AH
	Battery type	Lithium iron phosphate	Lithium iron phosphate	Lithium iron phosphate
	Charging method	Manual / automatic	Manual / automatic	Manual / automatic
	Battery life	8 Hours	8 Hours / 16 Hours	8 Hours / 16 Hours

COMPREHENSIVE PERFORMANCE UPGRADES

REACH LIFT
PALLET AMR

Flexible pick and place

Lightweight
and high load capacity

Removable battery



Reach lift pallet AMR

Parameters / models		JE-1200E
Underlying parameter	Navigation mode	SLAM
	Environmental reform	Unnecessary
	Hang	Support
	Maximum running speed	1.5 m/s
	Band-type brake	Include
	Maximum load	1200kg
	Size (length, width, height)	1380mm×1030mm×245mm (including touch edges)
	Turning mode	Spin in place
	Turning radius	830mm
	Maximum lift height (distance from the ground)	375mm
Safe guarding	Emergency stop switch	2
	Sound warning	Support
	Light warning	Support
	Touch edge collision switch	Support
Fork tooth size	Wide outer fork teeth	642mm (including lift version)
	The fork teeth are wide inside	246mm
	Fork tooth width	198mm (including lift version)
	Extension	1220mm
	The fork tooth is at the ground height	90mm
Wireless performance	WI-FI signal	2.4G / 5G
	WI-FI go on a pleasure trip	Support
Battery related	Battery voltage	48V-54V
	Battery capacity	48V 40AH
	Battery type	Lithium iron phosphate / ternary lithium
	Charging method	Manual / automatic
	Battery life	8 Hours

WORLD'S FIRST DISRUPTIVE UNMANNED FORKLIFT

STEREOSCOPIC WAREHOUSE PALLET AMR



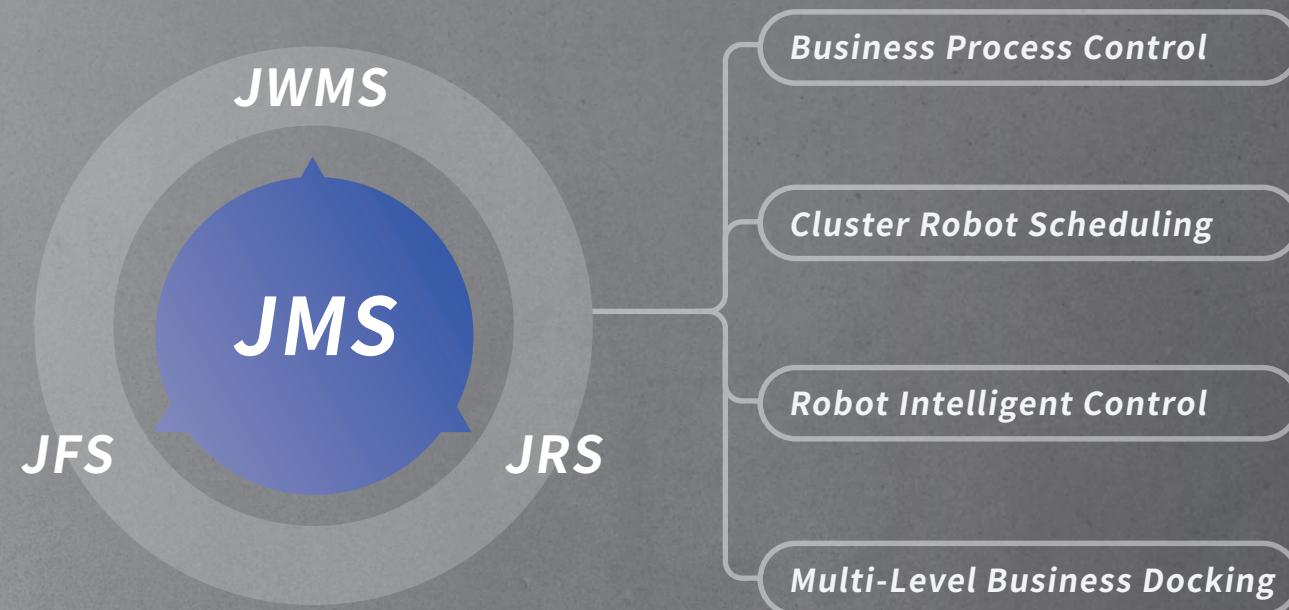
| Stereoscopic Warehouse Pallet AMR

Parameters / models		JE-1200FK-25	JE-1200FK-46	JE-1200FK-65
Underlying parameter	Maximum lift height	2500mm	4600mm	6500mm
	Rated load	1200kg	1200kg	1200kg
	Navigation mode	QR code navigation	QR code navigation	QR code navigation
	Maximum running speed	1.2m/s	1.2m/s	1.2m/s
	conduct oneself with dignity	1500kg	1910kg	3000kg
	Size (length, width, height)	1867mm×1000mm×1925mm	1867mm×1150mm×2955mm	2000mm×1230mm×2990mm
	Minimum turning radius	934mm	934mm	1000mm
Security related	Emergency stop switch	4	4	4
	Sound warning	Support	Support	Support
	Light warning	Support	Support	Support
	Touch edge collision switch	Support	Support	Support
Fork tooth size	Wide outer fork teeth	570mm (customizable)	570mm (customizable)	570mm (customizable)
	The fork teeth are wide inside	326mm (customizable)	330mm (customizable)	330mm (customizable)
	Fork tooth width	122mm	122mm	122mm
	Fork length	1070mm / 920mm	1070mm / 920mm	1070mm / 920mm
Wireless performance	WI-FI signal	2.4G / 5G	2.4G / 5G	2.4G / 5G
	WI-FI go on a pleasure trip	Support	Support	Support
Positioning navigation	Positioning accuracy	±10mm	±10mm	±10mm
	Lift accuracy	±5mm	±5mm	±5mm
Battery related	Battery capacity	48V 100AH	48V 100AH	48V 160AH
	Battery type	Lithium iron phosphate	Lithium iron phosphate	Lithium iron phosphate
	Charging method	Manual / automatic	Manual / automatic	Manual / automatic
	Battery life	About 10 hours	About 8 hours	About 8 hours
Environmental requirements	Operating ambient temperature	0~45℃	0~45℃	0~45℃
	Lanway width (beam shelf)	2100mm	2100mm	2200mm
	Roadway width (through the shelf)	≥1200mm	≥1300mm	≥1400mm

JE ROBOT MANAGEMENT SYSTEM (JMS)

JMS is an intelligent digital platform developed by J-Elephant for industrial use. Its purpose is to create an end-to-end solution for storage, handling, and other scenarios using robots as a carrier. The platform integrates intelligent algorithms and provides standard interfaces to connect with customers' ERP, WMS, or MES systems. This creates an integrated, intelligent, and highly reliable closed-loop digital platform. It can also offer standard interfaces to customers' ERP, WMS, or MES systems, creating an integrated, intelligent, and highly reliable closed-loop digital platform to enhance customers' automation, digitization, and intellectualization processes.

The JMS platform comprises the JWMS warehouse management system, JFS scheduling system, and JRS robot system. It facilitates customer business process control, cluster robot scheduling, and robot intelligent control. The platform connects robots with business systems at all levels, enabling unmanned and efficient storage and handling of pallets throughout the process.



FULL SCENE INTELLIGENT LOGISTICS SOLUTION

Focus on pallets
"plane handling + three-dimensional storage"



01
PLANE HANDLING

02
PRODUCTION LINE HANDLING

03
STACKING HANDLING

04
AS/RS

NEW INTELLIGENT STEREOSCOPIC WAREHOUSE FOR A CHINESE MEDICINE ENTERPRISE

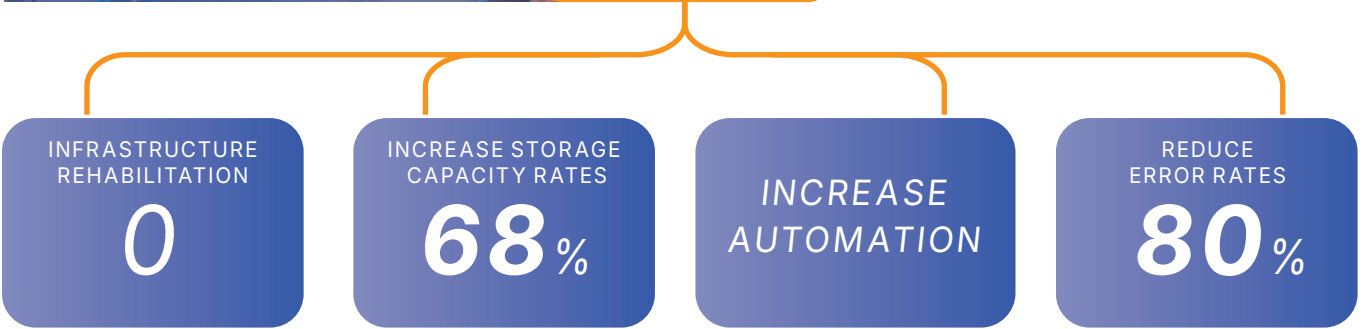
- Conveyor line docking
- Finished products off the line
- Pallet replenishment



Case introduction

Pallet AMRJE-1200FK, breaks through the traditional automated Stereoscopic Warehouse system construction and operation mode, the construction of unmanned forklift based on the seven-deep position through the rack vertical warehouse.

VALUE CREATION



INTELLIGENT HANDLING SYSTEM ON THE SHOP FLOOR OF A JAPANESE PHARMACEUTICAL FACTORY

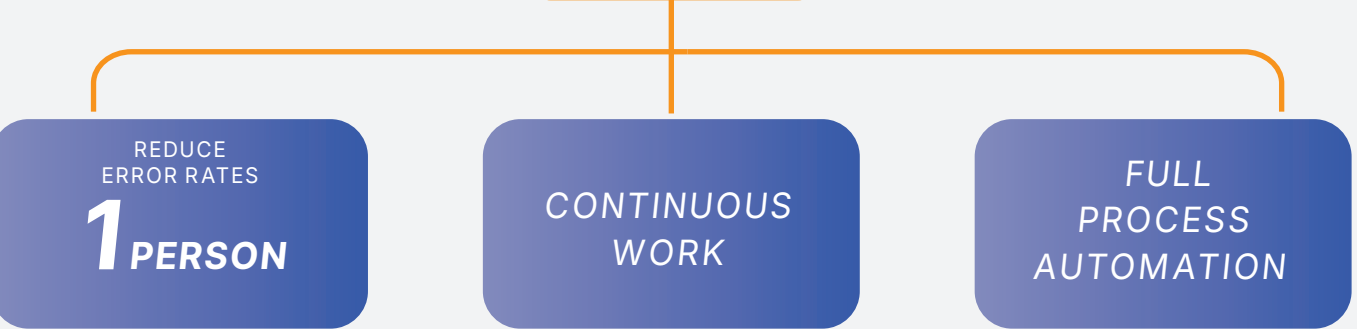
- Pallet handling
- Robotic arm docking
- Palletizer Docking



Case introduction

In order to meet the demand for production line automation and improve the overall level of intelligence, this manufacturer needs to complete the automation upgrading project of package material warehousing and finished product launching. JE-1200U forklift robots are used to work together with palletizers through JMS system to complete the work of empty pallet recycling, finished product unloading, finished product warehousing and delivery.

VALUE CREATION



LONG-DISTANCE HANDLING SYSTEM ACROSS FLOORS AND BUILDINGS FOR A PHARMACEUTICAL COMPANY

- Long narrow corridor
- Docking of access control systems
- Docking of elevator and other facilities



Case introduction

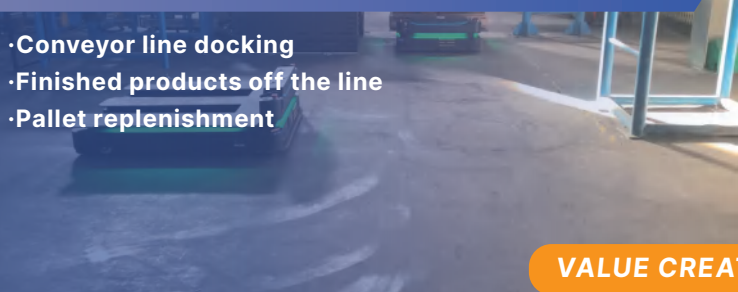
A pharmaceutical company requires a system to transfer materials between factory and office areas. J-Elephant's cross-area and cross-floor automated material handling system can improve work efficiency, reduce employee work pressure, and provide a test and demonstration for the company to explore the path of transformation and upgrading of intelligent manufacturing.

VALUE CREATION



FINISHED GOODS OFFLINE HANDLING SYSTEM FOR A LEADING PHARMACEUTICAL PLANT IN CHINA

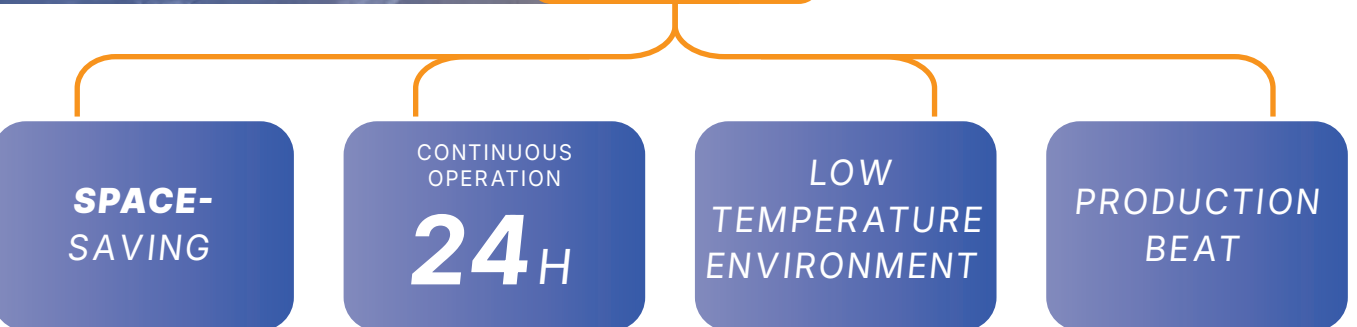
- Conveyor line docking
- Finished products off the line
- Pallet replenishment



Case introduction

The client company's business scale is expanding, and in order to meet the market demand for the output and variety of infusion drugs, the existing production line was expanded and the production logistics system was upgraded and remodeled.

VALUE CREATION



INTELLIGENT HANDLING SYSTEM FOR LINE-SIDE LOGISTICS IN FORTUNE 500 FOOD FACTORIES.

- Stacking/unstacking
- Automatic material transportation
- Package and finished product caching



VALUE CREATION

Case introduction

In order to improve efficiency and quickly respond to production rhythms, the world's top 500 food factory has implemented an intelligent handling system. The JE-1200UH deployed in the project features pallet identification, handling and depalletization; the JMS system automates the delivery of raw materials within the plant by opening up docking, caching and depalletizing areas.

INFRASTRUCTURE REHABILITATION

0

LABOR SAVINGS PER SHIFT

2-5

CONTINUOUS OPERATION

24_H

BENCHMARKING A GLOBAL BEVERAGE GROUP: AUTOMATED PRODUCTION LINE LOGISTICS SYSTEM

- Stacking/unstacking
- Automatic and finished product caching
- Compact Storage



VALUE CREATION

Case introduction

The plant aims to improve production efficiency by implementing a more flexible, intelligent and efficient logistics system. By deploying multiple JE-1200UHs and an accompanying wireless network system, fully automated handling of packaging materials from the outdoor unloading area to the indoor stacking area as well as finished products from the production line to the finished product stacking area is realized. This project has become the group's first online logistics robot benchmark case in the world.

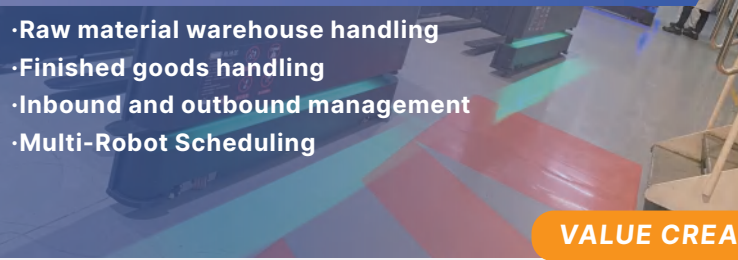
SUBSTITUTE FOR HUMAN LABOR

GROUP BENCHMARKING CASE

CONTINUOUS OPERATION

INTELLIGENT HANDLING SYSTEM FOR FINISHED PRODUCTS AND PACKAGING MATERIALS IN A FORTUNE 500 FOOD FACTORY

- Raw material warehouse handling
- Finished goods handling
- Inbound and outbound management
- Multi-Robot Scheduling



VALUE CREATION

Case introduction

At the Beijing plant of a Fortune 500 food company, where the flow and management of finished goods and packaging materials was largely manual, the deployment of the JE-1200E and JMS system automated and digitized the production line's raw material inbound, outbound, and finished goods inbound.

LABOR SAVINGS PER SHIFT

2-5

SUBSTITUTE FOR HUMAN LABOR

CONTINUOUS OPERATION

INTELLIGENT HANDLING SYSTEM FOR A DOMESTIC IC EQUIPMENT ENTERPRISE

- Safe handling
- Docking of elevator facilities



VALUE CREATION

Case introduction

The customer's production process involves the handling of semiconductor process equipment, which weighs 1 ton per unit and is valued at 3 million yuan. The JE-1200U is used to automate the handling of process equipment from the third floor to the first floor. In the customer's Phase II project, JE-1200U can automatically adjust fork tines to ensure safe handling of most process equipment.

LABOR SAVINGS PER SHIFT

CROSS-FLOORS

HANDLING SAFETY RATE

100%

SERVICE
PROCESS



AFTER-SALE
SERVICE

SERVICE
GUARANTEE



24-HOUR
REMOTE SERVICE



RAPID FAULT
RESPONSE AND REPAIR



MAINTENANCE



TECHNICAL TRAINING



SPARE PARTS SUPPLY



PROFESSIONAL AND
EFFICIENT TEAM



ONE-STOP
SOLUTION



SAFE AND RELIABLE
PRODUCTS



TIMELY AND EFFICIENT
RESPONSE CAPABILITY