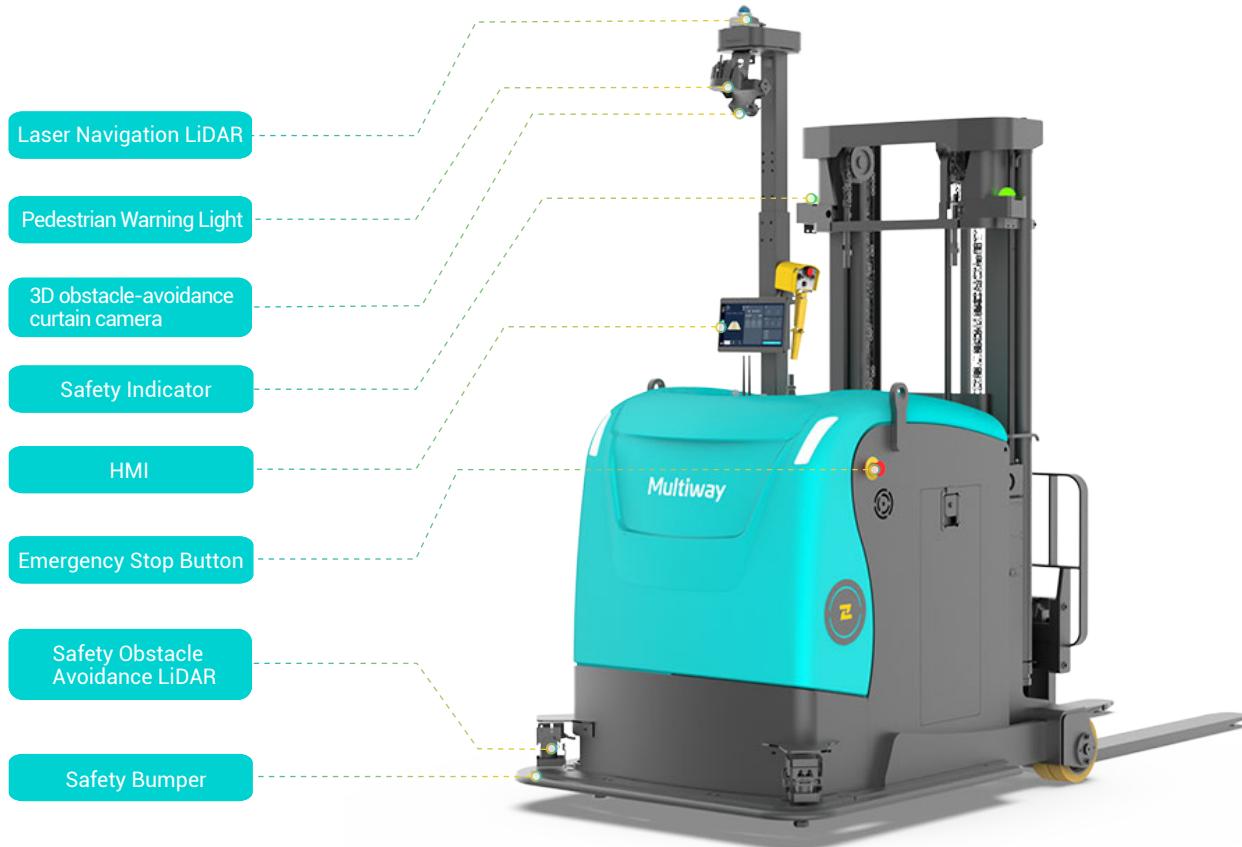


# SE Series

## Counterbalanced Forklift

SE15/SE20/SE30





## Introduction

Counterbalanced Forklift AGV SE series is applicable to automatic transfer and handling of goods on two-way or four-way entry pallets between different storage locations. With a load capacity of up to 3000 kg, a lifting height of up to 4500 mm, SE series features a fast driving speed, good climbing capability, and high load capacity. SE series is widely used in various scenarios including goods stacking, equipment docking, horizontal handling, high-level storage and auto truck loading/unloading.

## Features



### Environment Adaptive

With laser navigation and positioning, there's no need to renovate the on-site environment.



### Highly Intelligent

A whole range of functions such as mapping, path planning, auto-charging, and intelligent operations for various scenarios.



### Non-stop pallet pose identification

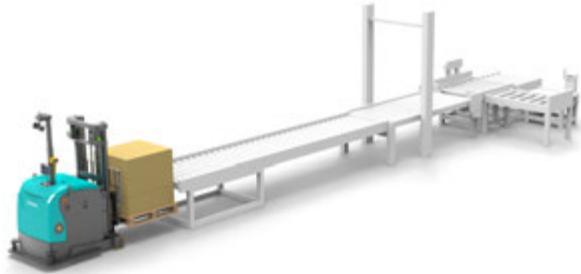
Visual perception non-stop pallet pose identification can realize fast and accurate pick-and-place of goods.



### Intelligent Safety

Comprehensive fault self-detection 360° obstacle avoidance and sound & light warning.

# Scenarios



## Docking with Production Line

Efficient automatic transportation and turnover from the warehouse to the buffer area and production line zone.



## Automatic (un)loading

Compatible multiple models (wing door, flat door).  
Compatible with multiple sizes of cargo (automatic allocation).



## Cage Stacking

The motion trajectory is dynamically constructed to achieve accurate stacking of up to 6 layers of material cages. It is also equipped with safety technology detection to ensure operating safety.



## Intelligent handling

Load range between 1.5T to 3T, and the lifting height can reach 4.5m, which supports flexible handling in multiple scenarios such as line side warehouses, temporary storage areas, and ground storage warehouses.

# SE Series

SE15/SE20/SE30  
Counterbalanced Forklift

## Specifications

Model	SE15	SE20	SE30
Navigation	LiDAR Navigation / Sky Navigation / Mixed Navigation		
Communication	Wi-Fi / 5G / Optical Communication		
Driving Features	Forward, Reverse, and Turn		
Control Mode	Auto/Manual		
Rated Load Q (kg)	1500	2000	3000
Load Center C (mm)		500	
Basic Parameter			
Weight (Including battery) (kg)	2800	3300	4700
Turning Radius Wa (mm)	1365	1800	1955
Aisle Width (mm)	3300	3800	3800
Maximum Lifting Height (mm)	3000	4500	4500
Dimensions LxWxH (mm)	2500x1145x(1950~2300)	2950x1145x(1950~2820)	3121x1488x(1950~2820)
Fork Dimensions lxe <sub>s</sub> (mm)	1070x122x40	1070x125x45	1220x150x50
Fork Rack Width b <sub>2</sub> (mm)			964
Fork Outer Space b <sub>3</sub> (mm)		320/470/620	
Minimum Height of Fork From the Ground h <sub>6</sub> (mm)	50±5		60±5
Positioning precision/ Stop Angle (Center of bearing wheel) (mm/ °)		±10/±1°	
Obstacle Clearing Capability		≤10	
Movement Specifications			
Climbing Capacity		≤3°(5%)	
Cross-Groove Capability (mm)		≤30	
Max Driving Speed (No Load/Full Load) (m/s)		1.5/1.38	
Max Lifting Speed (No Load/Full Load) (mm/s)		150/100	
Max Descent Speed (No Load/Full Load) (mm/s)		100/150-250	
Max Climb Capability (No Load/Full Load) (S2-5min) % (tanθ)		≤3°	
Battery Specifications			
Battery Voltage/Capacity (V/Ah)	24V/200AH		48V/300AH
Charging Mode		Auto/Manual	
Run time		6~8h	
Battery Life		Complete charge-discharge 2500 times ≥70%	

Note: In the real-time update of product parameters, the above parameters are for reference only and shall prevail.

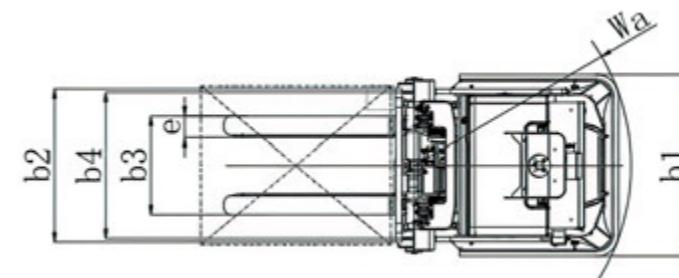
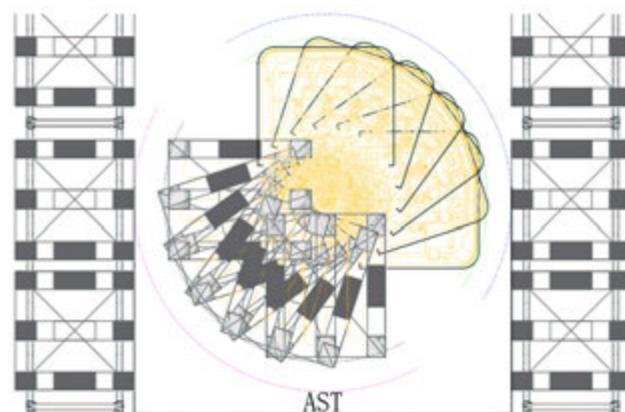
### Attachment



### Customize



### Carrier

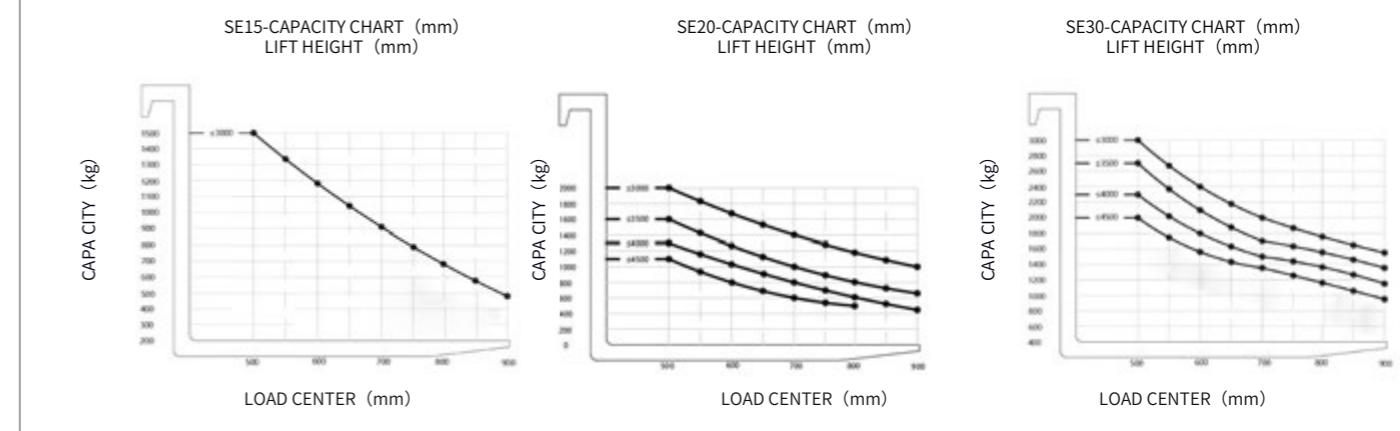


Aisle Width			
Model	SE15	SE20	SE30
1000 ↑ x1000mm Pallet AST (mm)	3150	3650	3900
	3300	3800	4000
	3350	3850	4100

### Mast Specification

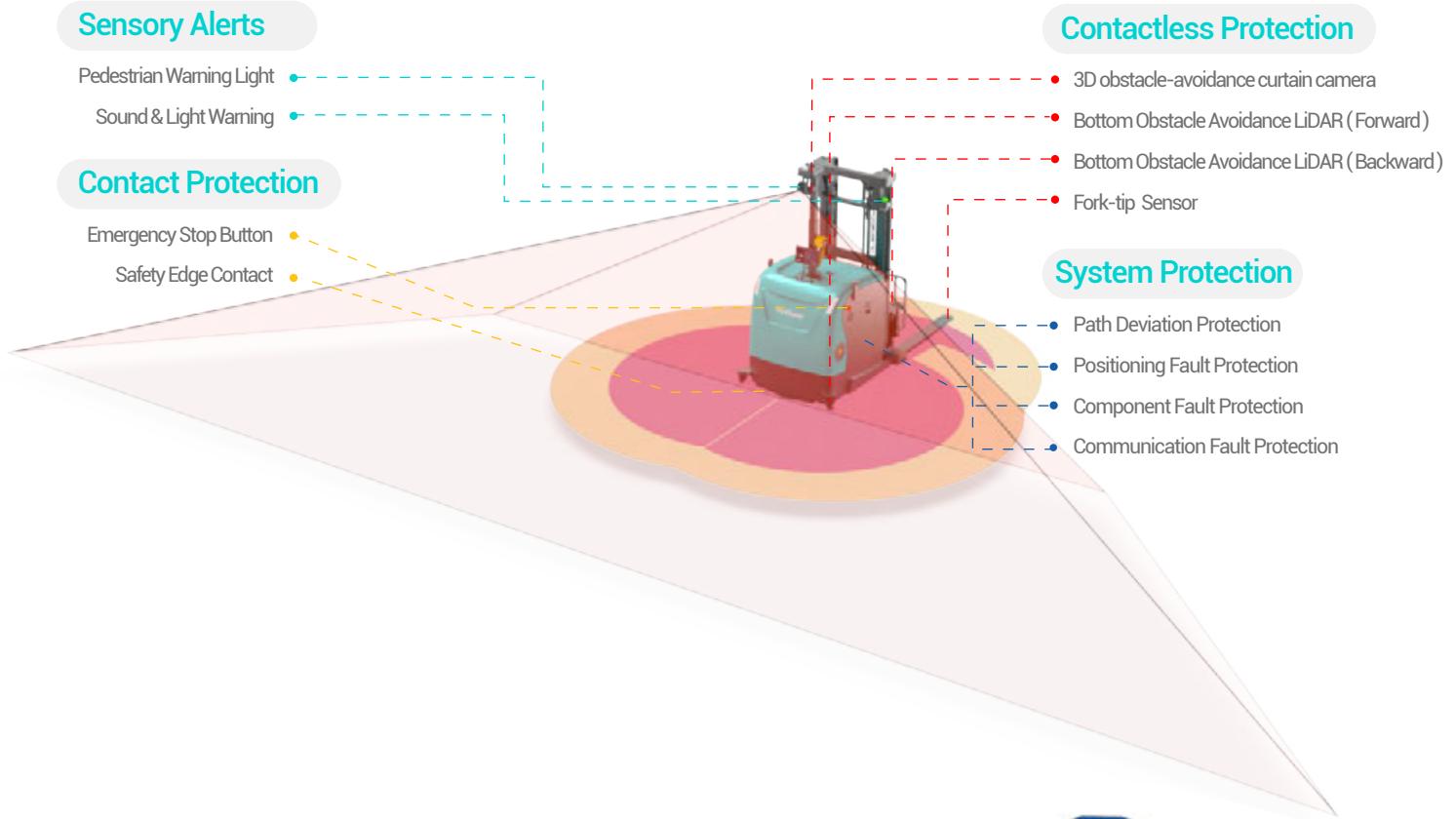
Duplex Mast									
Model		SE15/SE20					SE30		
Lifting height	h <sub>3</sub> (mm)	2500	3000	3500	4000	4500	2500	3000	3500
Mast closure height	h <sub>1</sub> (mm)	1770	2020	2270	2520	2770	1855	2105	2355
Mast height when lifting	h <sub>4</sub> (mm)	3435	3935	4435	4935	5435	3550	4050	4550
Free lifting height	h <sub>2</sub> (mm)						125		

### Load curve



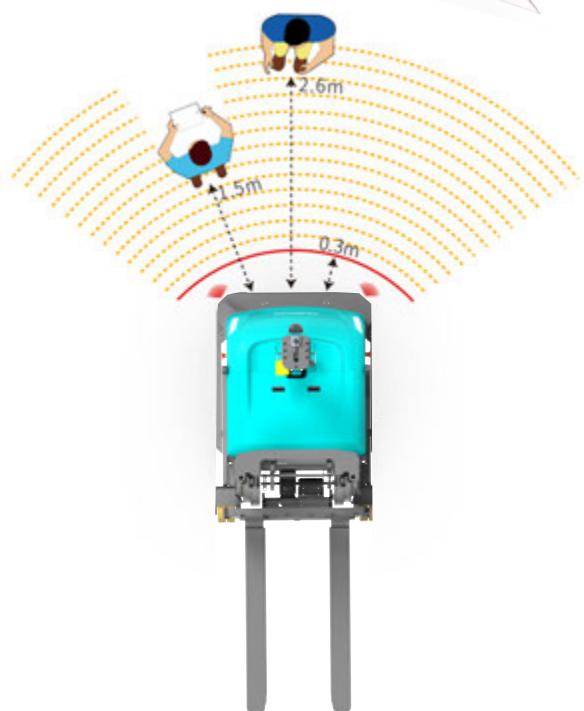
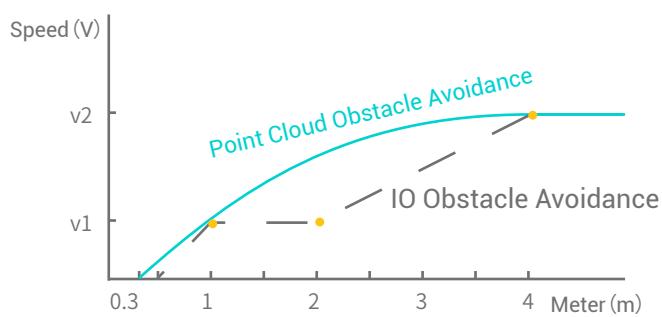
# Comprehensive safety protection:

Sound perception + obstacle avoidance + touch reception, 360° omnidirectional three-layer protection



## Point Cloud Obstacle Avoidance:

The forward simulation algorithm can measure the distance to obstacles, autonomously plan the moving speed, ensure the vehicle accelerates and decelerates smoothly without sudden changes in speed.



# Multiway Robotics

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Multiway Robotics, a leading intelligent intralogistics solution provider, is dedicated to improve intralogistics efficiency, ensure work safety and reduce labor operational cost.

**Global Presence:** The headquarters is located in Shenzhen, China, with production facilities in Zhejiang. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 30+ countries and regions worldwide.

**Our Expertise:** Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge Smart Intralogistics Solution to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed unmanned forklifts and upper-level control systems. Hardware products include a full range of unmanned forklifts and four-way shuttle, while software systems encompass Multiway Cloud, WMS, RCS, WCS, on-site management systems, and various visual solutions.

**Software:** WMS, RCS, WCS, Multiway Cloud, Horizons, Simulation

**Hardware:** AGV forklifts, AGV Tugger, AMR & Four-way Shuttle

After successfully delivering numerous benchmark projects in industries such as factories, warehousing, and logistics, Multiway has become a trusted and ongoing collaborative partner for many industry-leading customers.



## Contact Us

### Offices:

USA · Atlanta | Japan · Tokyo | Korea · Seoul  
Germany · Duisburg  
China · Shenzhen

Hotline: + 86 133 9286 4873

Official website: [www.mw-r.com](http://www.mw-r.com)

Email: [sales@mw-robot.com](mailto:sales@mw-robot.com)

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