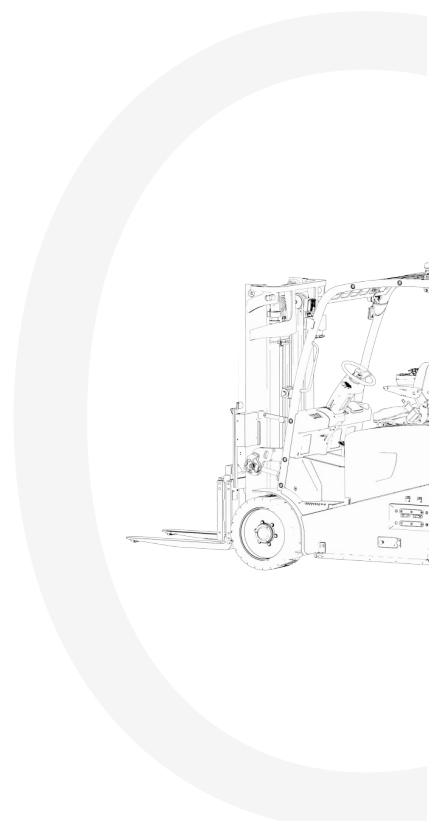
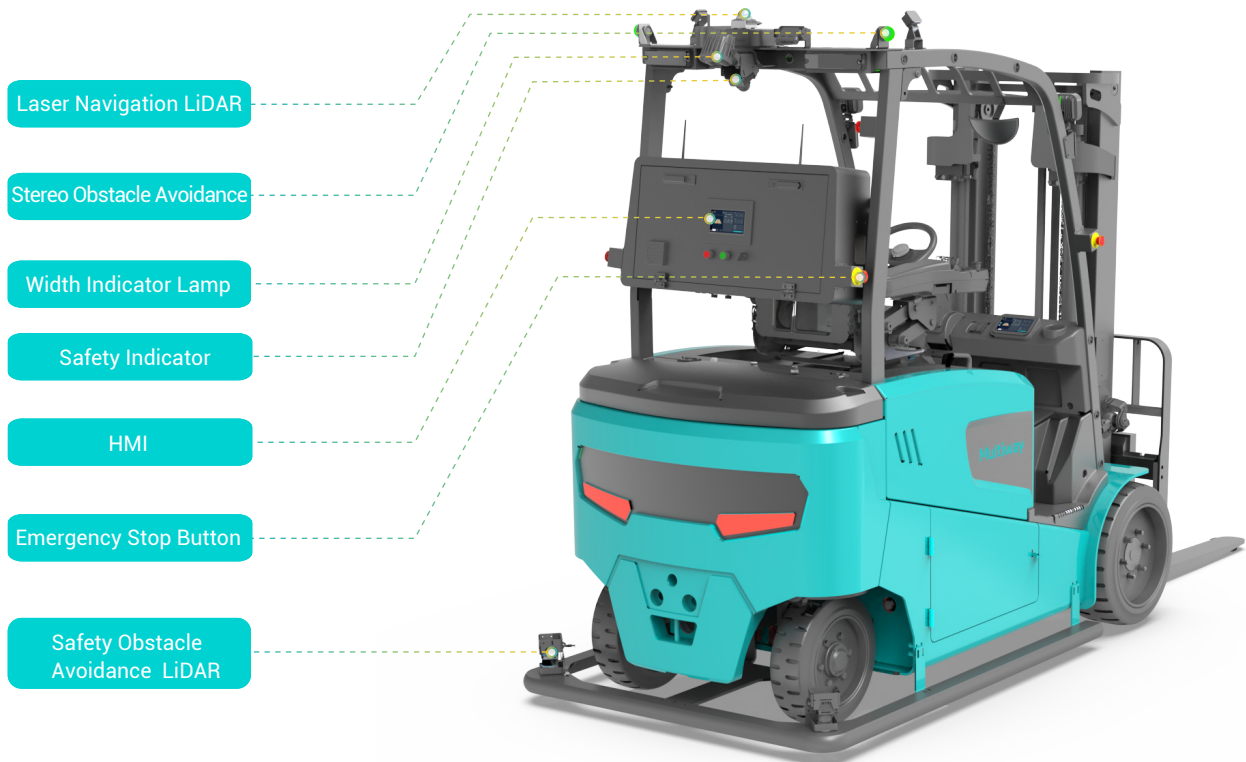


E Series

Counterbalanced Forklift

E30/E35/E40





Introduction

Counterbalanced Forklift AGV E 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 up to 4000 kg, a lifting height up to 6000 mm, E series features fast driving speed, good climbing capability, and high load capacity. E series is widely used in various scenarios including goods stacking, equipment docking, horizontal handling, high-level storage and 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

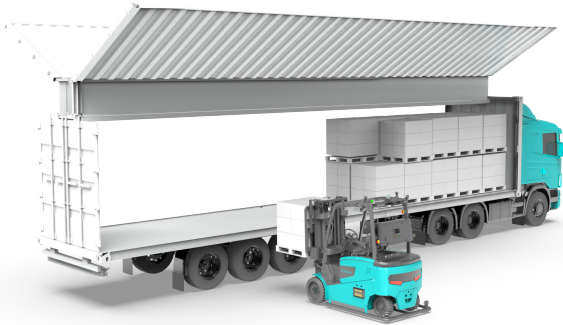
Visual perception non-stop pallet pose identification can realize fast and accurate pick-and-place of goods.



Intelligent Safety

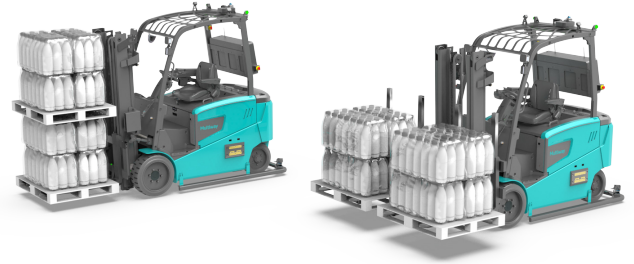
Comprehensive fault self-detection
360° obstacle avoidance and sound & light warning.

Scenarios



Automatic (un)loading

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



Double-Pallet Handling

When handling of fast-moving consumer goods such as bottled water and beverages, it has fast circulation speed, therefore, it is suitable for scenarios such as picking up goods off the production line, warehousing, and loading cargoes onto trucks.



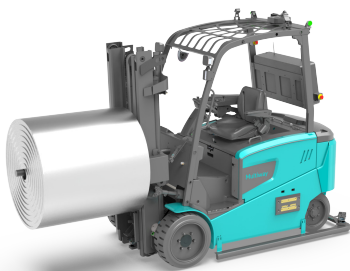
Paper-Roll Clamp Transfer

After the paper roll is clamped, it can rotate the roll 360° to facilitate the exchange and transfer. It is widely used in industries such as paper making, cartons, packaging, printing, and ports.



Soft-Bag Clamp Transfer

It can handle safely and efficiently all forms of soft-pack items such as cotton, textiles, wool, pulp, waste paper, hay and industrial scraps.



Roll-Material Carrying

It is suitable for handling coils without any carriers, steel sheet coils, steel bar coils etc.



Tall & Easily Scattered Goods Carrying

It is suitable for handling taller goods and loose and easy-to-fall goods. It can prevent the goods from tipping and falling during transportation.

E Series

E30/E35/E40
Counterbalanced Forklift

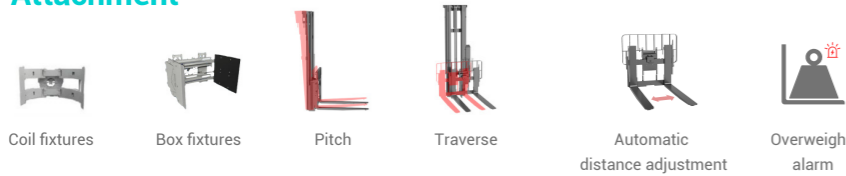


Specifications

Model	E30	E35	E40
Navigation	LiDAR Navigation(3D SLAM) / Mixed Navigation		
Communication	Wi-Fi / 5G / Optical Communication		
Driving Features	Forward, Reverse, and Turn		
Control Mode	Auto/Manual		
Rated Load Q (kg)	3000	3500	4000
Load Center C (mm)	500		
Weight (Including battery) (kg)	5450	5580	6450
Turning Radius Wa (mm)	2450	2600	
Aisle Width (mm)	4100	4250	
Maximum Lifting Height (mm)	6000		
Dimensions L×W×H (mm)	3600×1280×2420	3810×1410×2420	
Fork Dimensions l×e×s (mm)	1070×150×50		
Fork Rack Width b2 (mm)	1100		
Fork Outer Space b3 (mm)	250~1100		
Minimum Height of Fork From the Ground h6 (mm)	60±5	60±5	
Positioning precision/ Stop Angle (Center of bearing wheel) (mm)	±20		
Obstacle Clearing Capability	≤30		
Climbing Capacity	≤8.5°(15%)		
Cross-Groove Capability (mm)	≤30		
Max Driving Speed (No Load/Full Load) (m/s)	2.5/2		
Max Lifting Speed (No Load/Full Load) (mm/s)	300/200		
Max Descent Speed (No Load/Full Load) (mm/s)	400/300		
Battery Type	Lithium Iron Phosphate		
Battery Voltage/Capacity (V/Ah)	80V/450AH		
Charging Mode	Auto/Manual		
Run time	8~10h		
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.

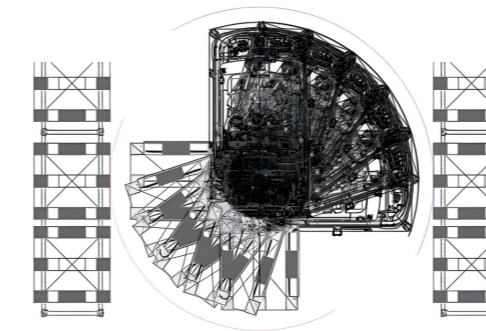
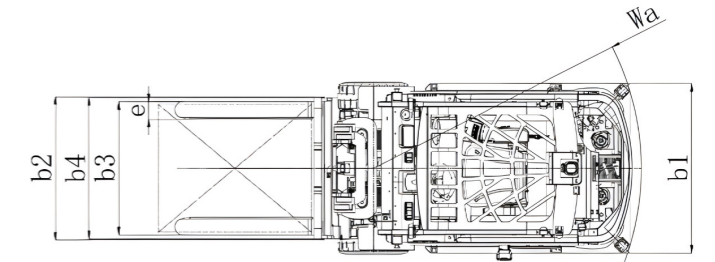
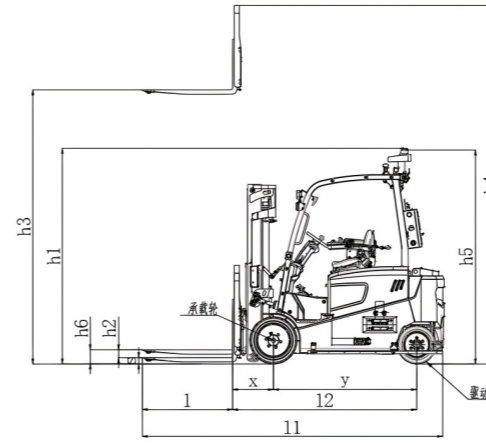
Attachment



Customize



Carrier



Aisle Width				
Model		E30	E35	E40
1000 ↑ x1000mm Pallet	AST (mm)	4450		
1000 ↑ x1200mm Pallet		4400		
1200 ↑ x1200mm Pallet		4200		

Mast Specification

Duplex Mast															
Model		E35													
Lifting height	h3 (mm)	2000	2500	2700	3000	3300	3500	3700	4000	4250	4500	4750	5000	5500	6000
Mast closure height	h1 (mm)	1620	1870	1970	2120	2270	2370	2470	2670	2795	2920	3045	3170	3470	3720
Mast height when lifting	h4 (mm)	3060	3560	3760	4060	4360	4560	4760	5060	5310	5560	5810	6060	6560	7060
Free lifting height	h2 (mm)	160													

Load curve

		E30									
LIFT HEIGHT (mm)	CAPA CITY (kg)	1750	1560	1400	1260	1140	1030	940	860	790	730
6000	5500	1900	1690	1520	1370	1240	1130	1030	940	860	790
5000	5000	2070	1850	1660	1500	1360	1240	1130	1030	940	860
4750	4750	2170	1940	1740	1580	1430	1300	1190	1090	1000	910
4500	4500	2280	2040	1830	1660	1510	1380	1260	1150	1050	960
4250	4250	2400	2140	1930	1750	1590	1450	1330	1220	1110	1010
4000	4000	2530	2260	2040	1850	1680	1540	1410	1300	1190	1090
3700	3700	2650	2370	2140	1940	1770	1610	1480	1360	1240	1130
3600	3600	2780	2490	2240	2030	1860	1700	1560	1430	1310	1190
3300	3300	2850	2550	2300	2090	1900	1740	1600	1460	1330	1210
3000	3000	3000	2690	2420	2200	2010	1840	1690	1540	1400	1260
2000	2000	3000	2690	2420	2200	2010	1840	1690	1540	1400	1260
		500	600	700	800	900	1000	1100			

		E35									
LIFT HEIGHT (mm)	CAPA CITY (kg)	2040	1820	1630	1480	1340	1220	1110	1010	910	810
6000	5500	2210	1970	1770	1610	1460	1330	1220	1110	1010	910
5000	5000	2410	2150	1940	1760	1600	1460	1340	1220	1110	1010
4750	4750	2530	2260	2040	1850	1680	1540	1410	1300	1190	1090
4500	4500	2660	2380	2140	1940	1770	1620	1490	1360	1240	1130
4250	4250	2800	2500	2260	2050	1870	1710	1570	1430	1300	1190
4000	4000	2950	2640	2380	2160	1970	1810	1660	1510	1370	1240
3700	3700	3090	2770	2500	2270	2070	1900	1750	1590	1440	1300
3600	3600	3160	2830	2550	2320	2120	1940	1790	1620	1460	1310
3300	3300	3240	2900	2620	2380	2180	2000	1840	1660	1490	1330
3000	3000	3320	2970	2690	2440	2230	2050	1890	1700	1520	1350
2000	2000	3300	3000	2700	2450	2240	2060	1900	1710	1530	1360
		500	600	700	800	900	1000	1100			

		E40									
LIFT HEIGHT (mm)	CAPA CITY (kg)	2330	2080	1870	1700	1540	1410	1290	1180	1070	960
6000	5500	2530	2260	2040	1850	1680	1540	1410	1300	1190	1090
5000	5000	2760	2470	2230	2020	1840	1690	1550	1410	1270	1130
4750	4750	2890	2590	2330	2120	1930	1770	1630	1480	1330	1190
4500	4500	3040	2720	2460	2230	2040	1870	1720	1560	1400	1240
4250	4250	3200	2870	2590	2350	2150	1970	1810	1640	1470	1300
4000	4000	3370	3020	2730	2480	2270	2080	1920	1740	1560	1380
3700	3700	3530	3160	2860	2600	2380	2180	2010	1810	1610	1410
3600	3600	3620	3240	2930	2670	2440	2240	2070	1860	1650	1440
3300	3300	3700	3320	3000	2730	2500	2290	2120	1890	1670	1450
3000	3000	3800	3410	3080	2800	2570	2360	2180	1940	1710	1480
2000	2000	3800	3410	3080	2800	2570	2360	2180	1940	1710	1480
		500	600	700	800	900	1000	1100			

Comprehensive safety protection:

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

Sensory Alerts

- Sound & Light Warning
- Width Indicator Lamp

Contactless Protection

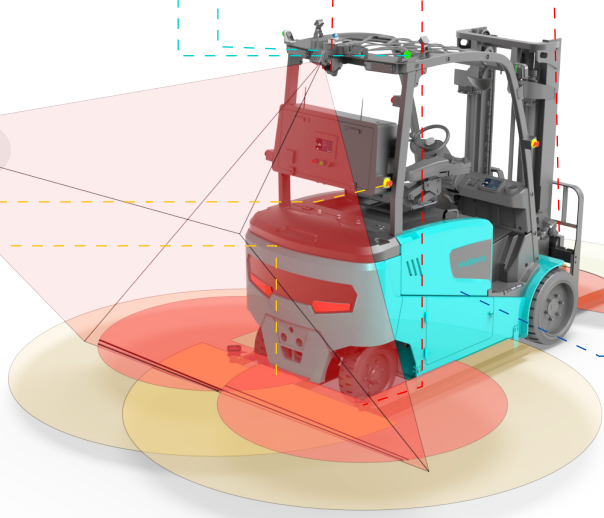
- Stereo Obstacle Avoidance
- Bottom Obstacle Avoidance LiDAR (Forward)
- Bottom Obstacle Avoidance LiDAR (Backward)
- Fork-tip Photoelectric Sensor

Contact Protection

- Emergency Stop Button
- Safety Bumper

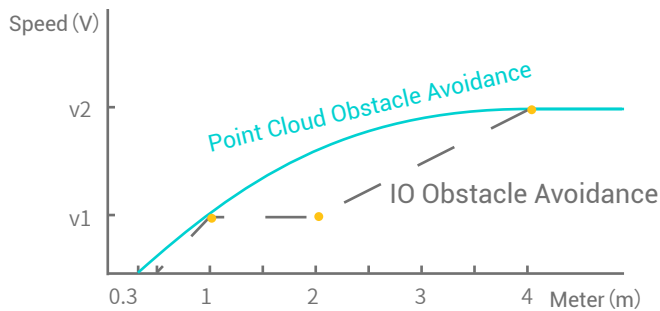
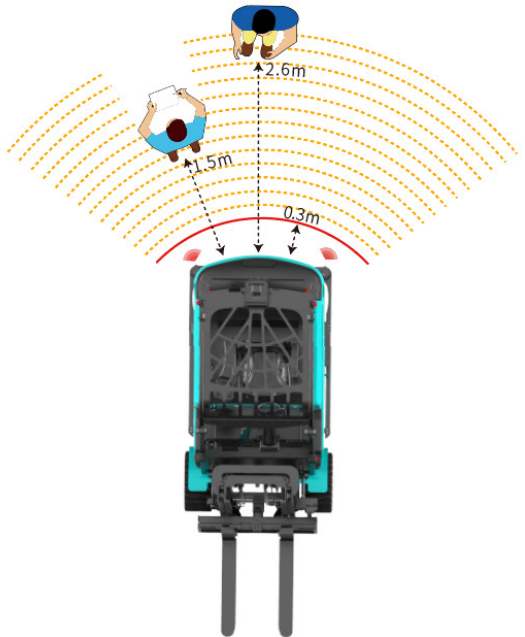
System Protection

- Path Deviation Protection
- Positioning Fault Protection
- Component Fault Protection
- Communication Fault 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

Multiway Robotics is committed to "Empowering the World with Billions of Robots" and takes "To create a new and efficient operating mode" as its mission, continuously driving the advancement of global productivity.

Global Presence: The headquarters is located in Shenzhen, China, with production facilities in Zhejiang Wuzhen. Multiway has also established subsidiaries in the United States, Germany, Japan, South Korea, and more, extending business, operations, and services to 40+ 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 WMS, RCS, WCS, on-site management systems, and various visual solutions.

Software: WMS, RCS, WCS, Multiway 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.



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