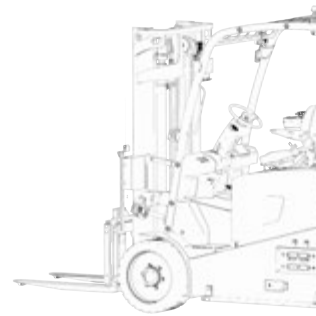
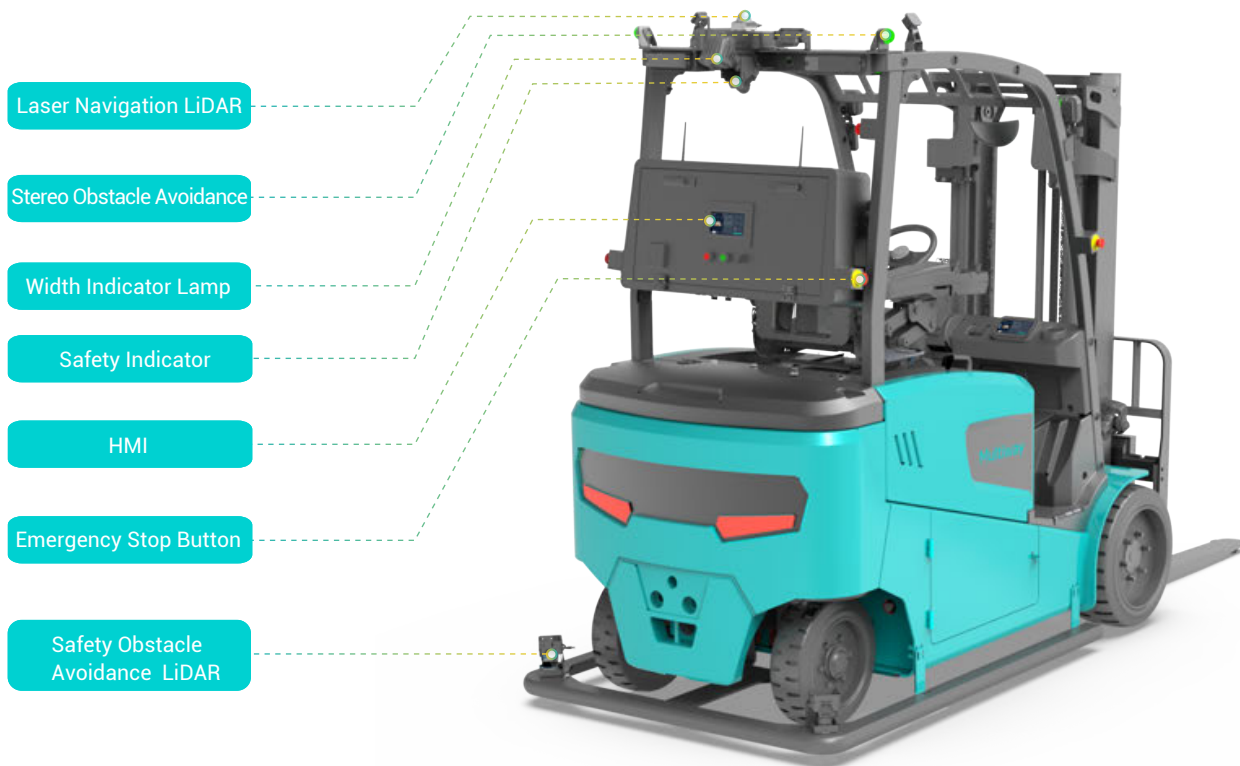


E Series

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).



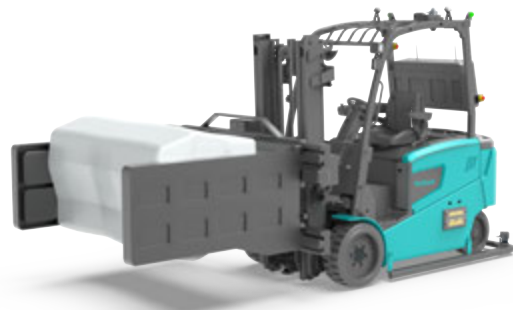
Double-Pallet Handling

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
Basic Parameter	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)	3000	3500	4000
	Load Center C (mm)	500		
	Weight (Including battery) (kg)	4600	4950	5400
	Turning Radius Wa (mm)	2450	2600	
	Aisle Width (mm)	4200	4400	
	Maximum Lifting Height (mm)	6000		
	Dimensions L×W×H (mm)	3600×1280×2350	3810×1410×2350	
	Fork Dimensions l×exs (mm)	1070×125×45	1070×125×50	
	Fork Rack Width b2 (mm)	1100		
	Fork Outer Space b3 (mm)	250~1050		
	Minimum Height of Fork From the Ground h6 (mm)	55±5	60±5	
Movement Specifications	Positioning precision/ Stop Angle (Center of bearing wheel) (mm)	±20		
	Obstacle Clearing Capability	≤10		
	Climbing Capacity	≤7° (13%)		
	Cross-Groove Capability (mm)	≤30		
	Max Driving Speed (No Load/Full Load) (m/s)	2/2.5		
	Max Lifting Speed (No Load/Full Load) (mm/s)	200/300		
	Max Descent Speed (No Load/Full Load) (mm/s)	300/450	240/350	
	Max Climb Capability (No Load/Full Load) (S2-5min) % (tanθ)	5/5		
	Battery Specifications	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.

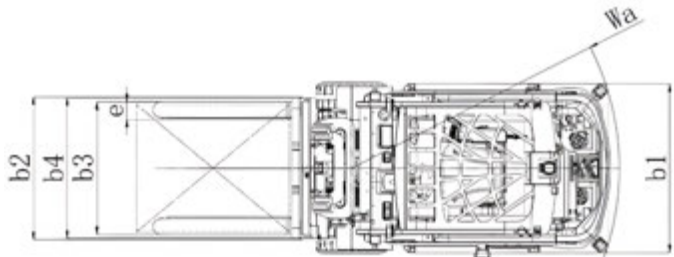
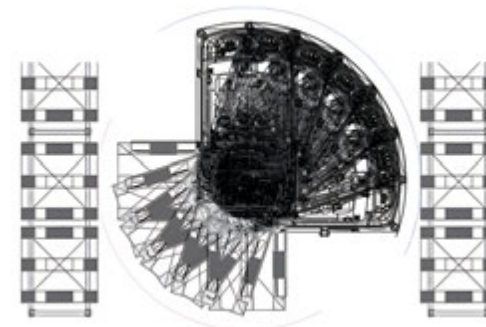
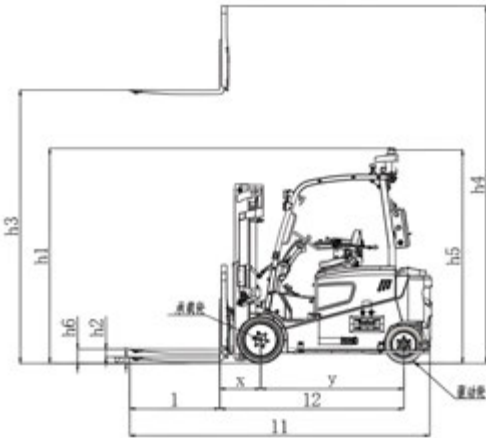
Attachment



Customize



Carrier

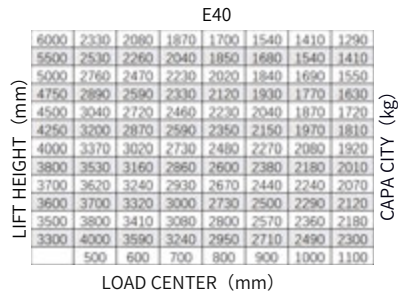
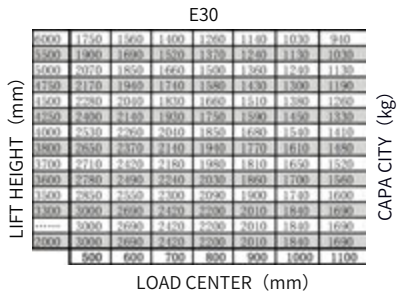


Aisle Width				
Model		E30	E35	E40
1000 ↑ x1000mm Pallet	AST (mm)	4450		
1000 ↑ x1200mm Pallet		4400		
1200 ↑ x1200mm Pallet		4200		

Mast Specification

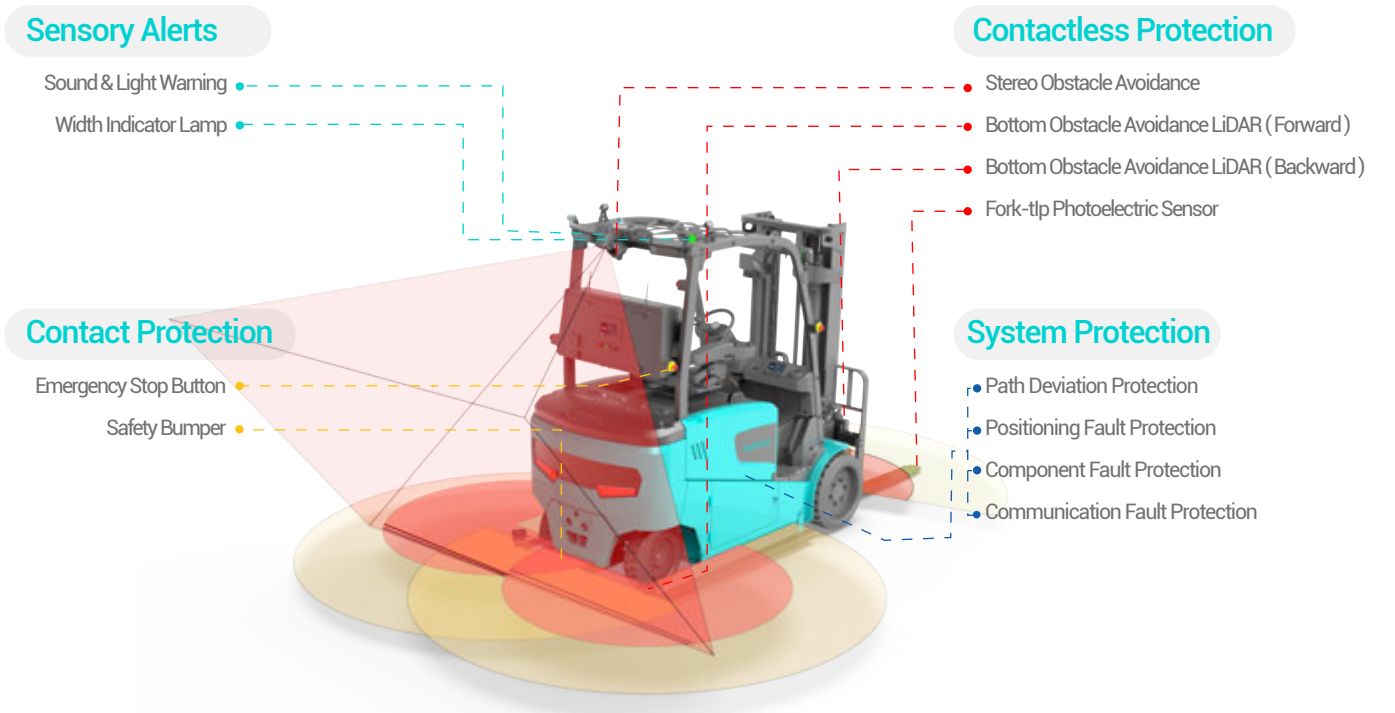
Duplex Mast															
Model		E35													
Lifting height	h3 (mm)	2000	2500	2700	3000	3300	3500	3700	4000	4250	4500	4750	5000	5500	6000
Mast closure height	h1 (mm)	1620	1870	1970	2120	2270	2370	2470	2670	2795	2920	3045	3170	3470	3720
Mast height when lifting	h4 (mm)	3060	3560	3760	4060	4360	4560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

Load curve



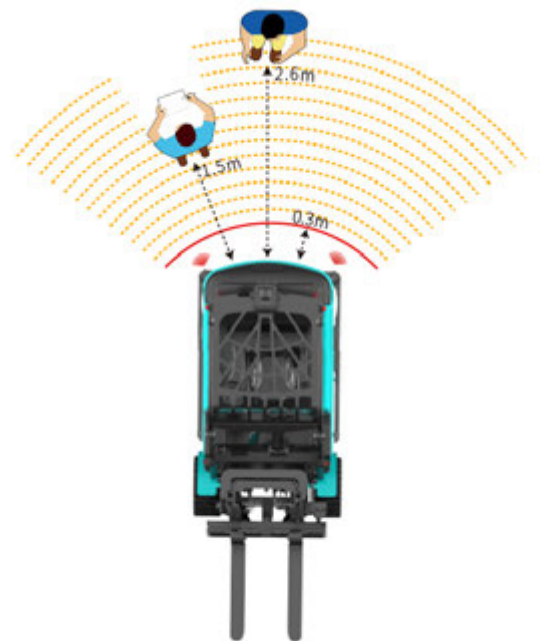
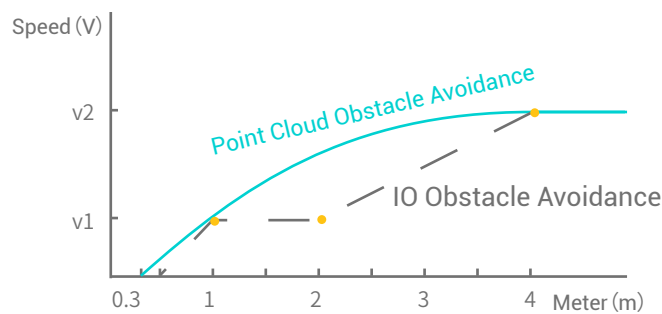
Comprehensive safety protection:

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

Multiway Robotics, a leading intelligent intralogistics solution provider, with the mission of "Establishing a new and efficient employment mode", is dedicated to drive continuous upgrades in productive forces.

The headquarters is located in Shenzhen, China, with production facilities in Hefei. 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. Focusing on advanced robotics and AI technology, Multiway Robotics is committed to delivering cutting-edge intelligent manufacturing and smart logistics solutions to our customers. Multiway offers a comprehensive, integrated innovation delivery platform and solutions, ranging from core sensors and algorithms to self-developed AGV forklifts and upper-level control systems. Hardware products include a full range of AGV forklifts, AMR, AGV Tugger and Four-way Shuttle, while software systems encompass Multiway Cloud, WMS, RCS, WCS, on-site management systems, and various visual solutions.

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



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