Multiway Robotics

CT15

Autonomous Pallet Truck



Empowering the World with Billions of Robots

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Introduction

CT15 is an unmanned pallet forklift designed for complex warehousing and production environments. Equipped with 2D/3D SLAM autonomous navigation technology, it delivers high-precision positioning and path planning. It is compatible with various pallet types and non-standard load carriers, satisfying diverse material handling demands across multiple scenarios. This comprehensively improves efficiency, collaboration, and flexibility throughout warehousing and production workflows.

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.

High Compatibility, Adaptable to Various Load Carriers

Compatible with block pallets and a wide range of non-standard load carriers.

Reduces pallet retrofitting costs and enhances system flexibility.

Intelligent Safety

Comprehensive fault self-detection.

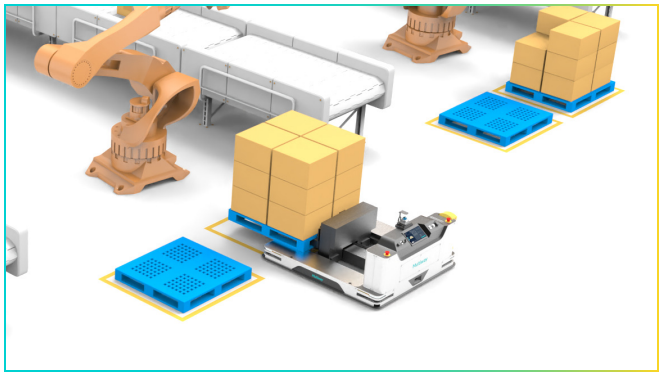
360° obstacle avoidance and sound & light warning.

Scenarios

Inbound / outbound docking

After unloading, goods are temporarily stored in the inbound area. The CT15 automatically picks up and transports them to the docking area to complete inbound connection. For outbound operations, high-reach forklifts lower goods from racks to the aisle end, where the CT15 docks and delivers them to the outbound area, achieving efficient automated linkage of the entire inbound and outbound process.





Production line delivery

The CT15 enables ground slot delivery to production lines, material supply for robotic palletizing stations, and automated warehouse-to-line replenishment—significantly enhancing production continuity and stability.

Cross-floor transportation

It supports automatic elevator access, allowing cross-floor material handling and seamless multi-level logistics connectivity, making it ideal for complex factory and warehousing environments.

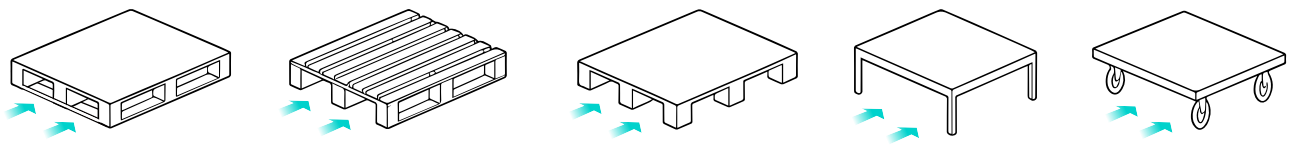


CT15 Autonomous Pallet Truck

Specifications

	Model	CT15
Basic Parameter	Navigation	LiDAR Navigation(2D/3D SLAM) / Mixed Navigation
	Communication	Wi-Fi / 5G / Optical Communication
	Control Mode	Auto/Manual
	Rated Load (kg)	1500
	Weight (Including battery) （kg）	565
	Turning Radius （mm）	901
	Aisle Width （mm）	2160
	Maximum Lifting Height (mm)	366
	Minimum Height of Fork From the Ground (mm)	95.5~110
	Dimensions L×W×H (mm)	1476×1130×934
	Fork Dimensions l×e×s （mm）	1185x162x56
	Fork Outer Space （mm）	553.5
Movement Specifications	Driving Features	Forward, Reverse, and Turn
	Max Driving Speed (No Load/Full Load) （m/s）	1.71/1.46
	Max Lifting Speed (No Load/Full Load) （mm/s）	16/14
	Max Descent Speed (No Load/Full Load) （mm/s）	16/14
	Positioning precision/ (Center of bearing wheel) （mm）	±10
	Stop Angle （°）	±1
	Climbing Capacity	≤2°（3%）
	Cross-Groove Capability (mm)	≤10
Safety Protection	Path Deviation Protection, Positioning Fault Protection	●
	Component Fault Protection, Communication Fault Protection	●
	Bottom Obstacle Avoidance Radar	●
	Stereo Obstacle Avoidance	○
	Fork Head Anti-Collision Detection	●
	Anti-Collision Strip	●
	Emergency Stop Button	●
	Sound & Light (Warning)	●
	HMI	●
Battery Specifications	Battery Voltage/Capacity （V/Ah）	48V/50Ah
	Charging Mode	Auto/Manual
	Run time	6~8h
	Battery Life	Complete charge-discharge 2000 times ≥70%

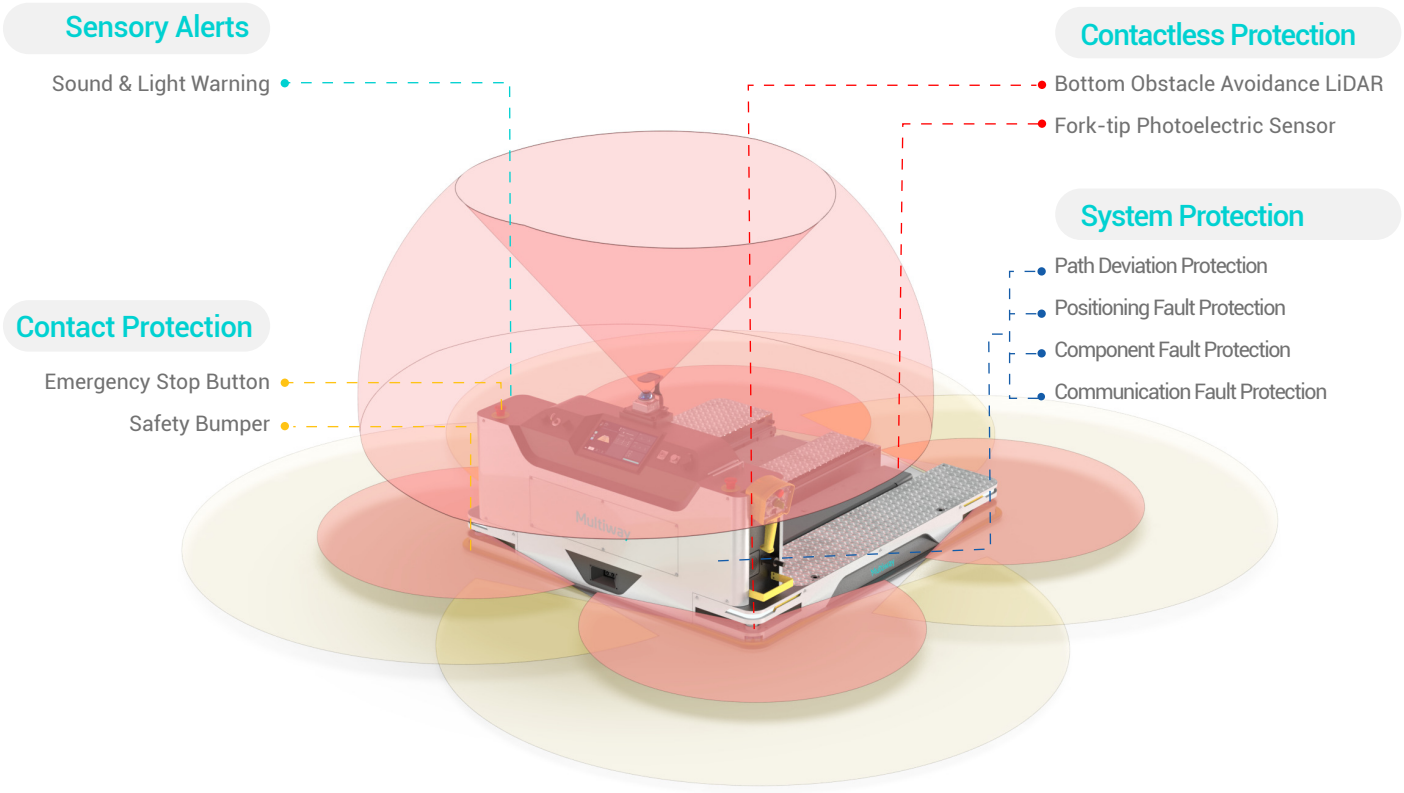
Note: In the real-time update of product parameters, the above parameters are for reference only and shall prevail.



High Compatibility, Adaptable to Various Load Carriers

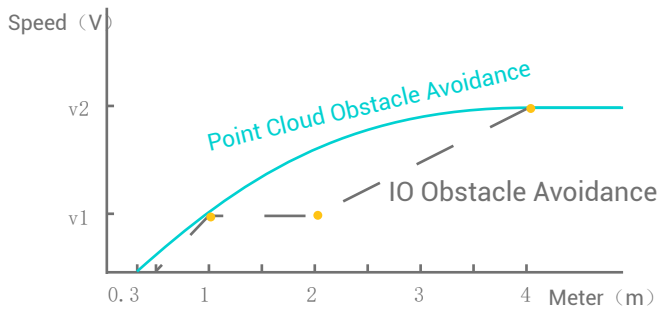
Comprehensive safety protection:

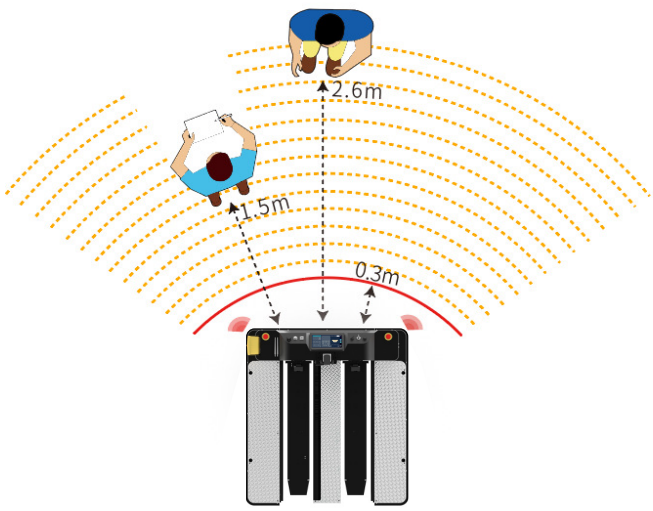
Sound perception + obstacle avoidance + touch reception, 360° omnidirectional three-layer protection



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 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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