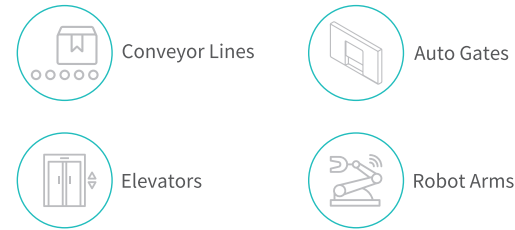# Software System

MW RCS (Robot Control System)

Multiway Robot Control System supports hundreds of different kinds of AGVs running at the same time and generates the most optimized route. Its overall optimal navigation planning ensures that tasks are completed in the shortest time in order to achieve the maximum efficiency.
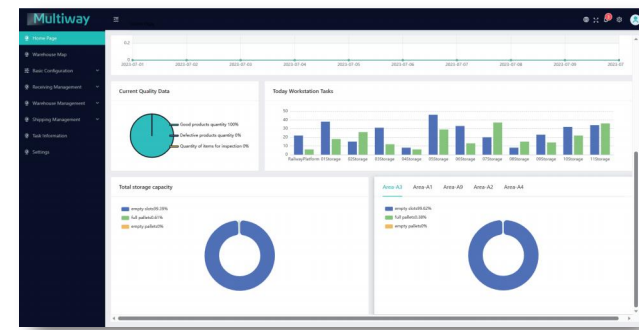
MW WCS (Warehouse Control System)

Multiway Warehouse Control System provides a uniform interface to a broad range of material handling equipment including AGV, AMR,automatic doors, conveyors, elevators and etc. It connects the system console and data center to manage the equipment and information flow for the entire site.

- Conveyor Lines
- Auto Gates
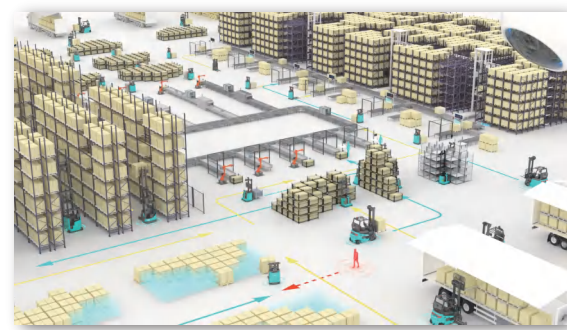- Elevators
- Robot Arms

MW WMS (Warehouse Management System)

Multiway Warehouse Management System provides inventory data management, operation management, storage location management, warehouse equipment health monitoring and intelligent report management, creates a warehouse management system with transparency by unlocking black box of assets inventory, and the associated cost in real time..
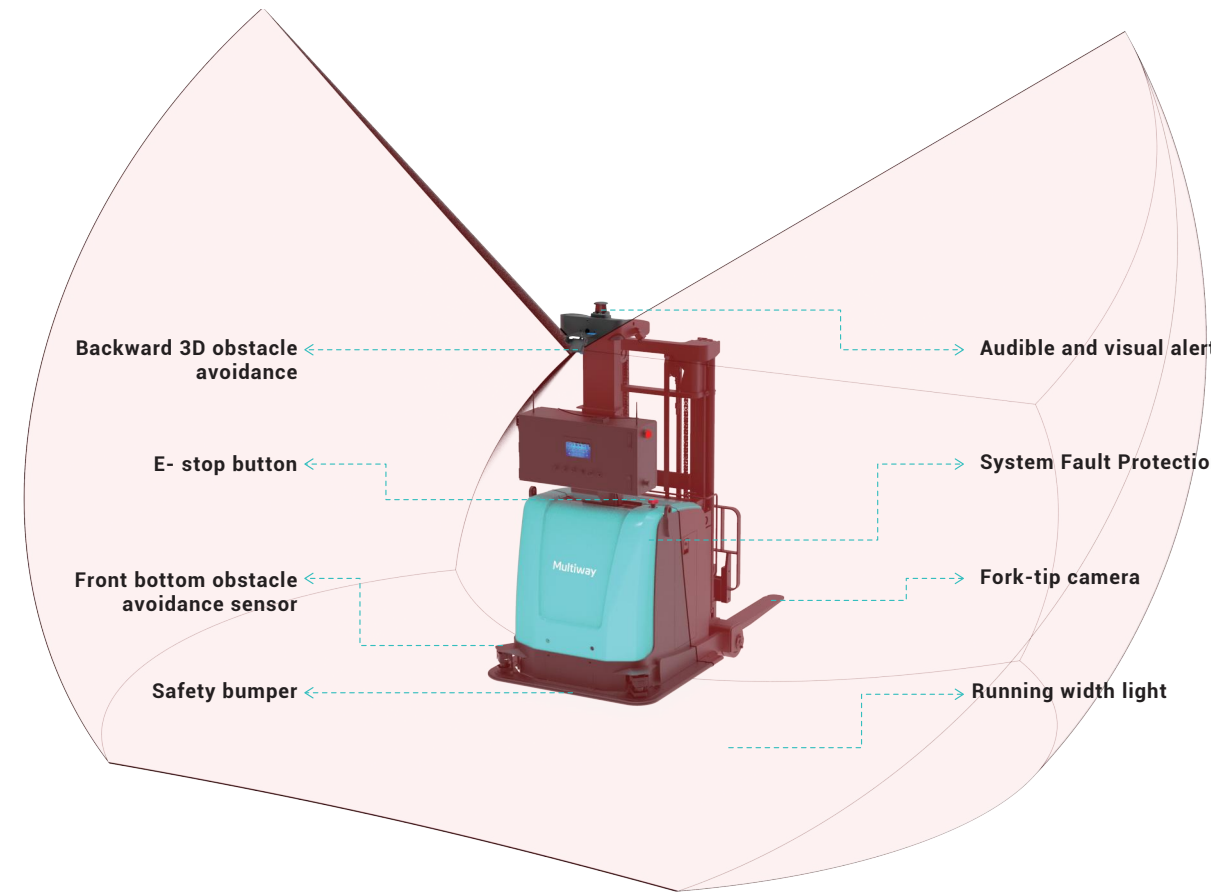
Vision System

Multiway provides flexible vision solutions that enable intelligent manufacturing and intelligent logistics with machine vision and artificial intelligence technology. It makes the factory's working environment safer while greatly improves production efficiency.

Robot Safety Protection

Hearing + Vision +Touch + Environmental perception-based 360°all-round protection.

- Backward 3D obstacle avoidance
- E- stop button
- Front bottom obstacle avoidance sensor
- Safety bumper
- Audible and visual alert
- System Fault Protection
- Fork-tip camera
- Running width light

Five Dimension Protection				
I	II	III	IV	V
Voice Alarm	Front Laser Scanner	Emergency Stop Buttons	Path Deviation Detection	Vision System Protection
Pedestrain Warning Light	3D Visual Obstacle Avoidance	Safety Bump	Position Abnormal Dectection	
	Rear Laser Scanner		Components Failure Detection	
	Fork Tip Sensor		Communication Failure Protection	

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Multiway Robotics

Product Selection Guide

Leading Intelligent Intralogistics Solution Provider

Product Specifications

Pallet Truck

Model. No.	Multiway X1	WeFront X20	WeFront X20S	MW-T20
Capable Carrier				
Navigation	Laser	Laser	Laser	Laser
Communication	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○
Rated Load	2000 kg	2000 kg	2000 kg	2000 kg
Load Center	600 mm	600 mm	600 mm	600 mm
Lifting Height	205±5 mm	205±5 mm	205±5 mm	205±5 mm
Turning Radius	1330 mm	1360 mm	1594 mm	1795 mm
Aisle Width	2400 mm	2360 mm	2580 mm	2710 mm
Dimensions L×W×H	1610×850× (1940~2350) mm	1613×735× (1940~2340) mm	1837×830× (1940~2340) mm	1910×1056× 2350 mm
Service Weight	420 kg	480 kg	450 kg	820 kg
Travel Speed	1.1~1.3 m/s	1.1~1.3 m/s	1.3~1.5 m/s	1.38~1.5 m/s
Battery Capacity	48V 40Ah	48V 30Ah	48V 40Ah	24V 200Ah
Operation Time	6~8h	4~6h	6~8h	6~8h
Pallet Position Detection	●	●	●	●

Pallet Stacker / Counterbalanced Stacker / Forklift / VNA Truck

Model. No.	Pallet Stacker	Pallet Stacker	Counterbalanced Stacker / Forklift			VNA Truck
	MW-SL14	MW-L16	MW-SE15	MW-SE20	MW-E35	MW-K16
Capable Carrier						
Navigation	Laser	Laser	Laser	Laser	Laser	Laser
Communication	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○
Rated Load	1400 kg	1600 kg	1500 kg	2000 kg	3500 kg	1600 kg
Load Center	600 mm	600 mm	500 mm	500 mm	600 mm	500 mm
Lifting Height	2500 mm	4500 mm	3000 mm	4500 mm	3000 mm	9000 mm
Turning Radius	1140 mm	1730 mm	1365 mm	1800 mm	2140 mm	2250 mm
Aisle Width	2450 mm	2900 mm	3300 mm	3800 mm	4260 mm	1750 mm
Dimensions L×W×H	1730×1010× (1990~2350) mm	2115×1085× (2350~2815) mm	2500×1145× (1950~2350) mm	2950×1140× (1950~2820) mm	3585×1580×2350 mm	3455×1575× (2935~4265)mm
Service Weight	1070 kg	1300 kg	2830 kg	3150~3300 kg	5700 kg	6280~7260 kg
Travel Speed	1.38 m/s	1.38~1.5 m/s	1.38~1.5 m/s	1.38~1.5 m/s	2~2.5 m/ss	1~2.2 m/s
Battery Capacity	24V 200Ah	24V 200Ah	24V 200Ah	24V 200Ah	80V 450Ah	48V 450Ah
Operation Time	6~8h	6~8h	6~8h	6~8h	8~10h	6~8h
Pallet Position Detection	●	●	●	●	—	●

Sideloader / Reach Truck

Model. No.	Sideloader	Reach Truck		
	MW-O20	MW-R14	MW-R16	MW-R20
Capable Carrier				
Navigation	Laser	Laser	Laser	Laser
Communication	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○	Wi-Fi● / 5G○
Rated Load	2000 kg	1400 kg	1600 kg	2000 kg
Load Center	500 mm	600 mm	600 mm	600 mm
Lifting Height	4500 mm	9000 mm	9500 mm	9500 mm
Turning Radius	1530 mm	1705 mm	1710 mm	1940 mm
Aisle Width	2740 mm	3200 mm	3200 mm	3250 mm
Dimensions L×W×H	2380×2110×(2350~2980) mm	2550×1455×(2350~3910) mm	2555×1455×(2350~3910) mm	2600×1550×4930 mm
Service Weight	2690~3120 kg	3010~3390 kg	3010~3390 kg	3375~3650 kg
Travel Speed	1.38 m/s	1.5~2 m/s	1.5~2 m/s	1.5~2 m/s
Battery Capacity	24V 200Ah	48V 450Ah	48V 450Ah	48V 450Ah
Operation Time	6~8h	8~10h	8~10h	8~10h
Pallet Position Detection	●	●	●	●

● Standard ○ Optional — Not Available

The dimensions can be customized to satisfy project requirement