



Product Selection Guide



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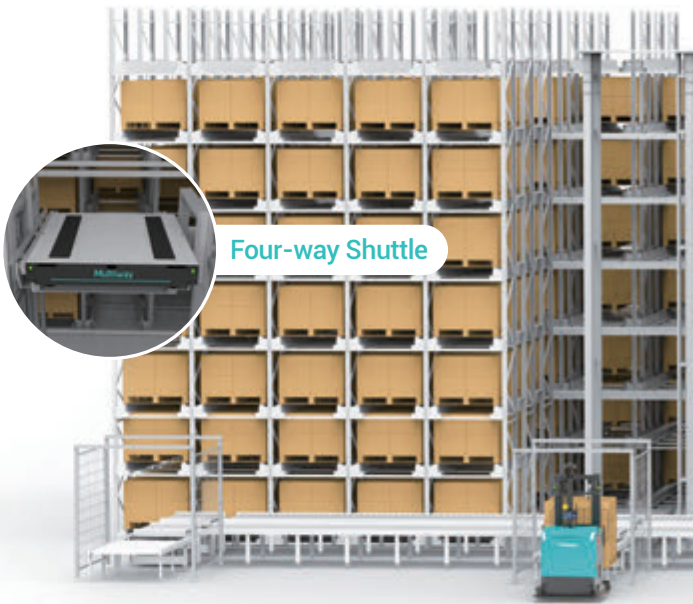


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Application Scenarios



High-density AS/RS warehouse



AGV Tow Tractor
Indoor/outdoor traction

AGV Forklift Parameters

● Standard ○ Optional — Not Available 								
Product Name		Pallet Truck	Pallet Truck	Pallet Stacker	Counterbalanced Forklift	Counterbalanced Forklift	Counterbalanced Forklift	Reach Truck
Model		X20	X20S	SL14	SE15	E35	Q20	R20S
Navigation	LiDAR Navigation	●	●	●	●	●	●	●
	Sky Navigation	○	○	○	○	○	○	○
	Mixed Navigation	○	○	○	○	○	○	○
Communication	Wi-Fi/ 5G/ Optical Communication	Support	Support	Support	Support	Support	Support	Support
Basic Parameter	Rated Load (kg)	2000	2000	1400	1500	3500	1550	2000
	Turning Radius (mm)	1326	1540	1184	1386	2600	1828	1811
	Maximum Lifting Height (mm)	205±5	205±5	3500	3000	6000	1500	8500
	Fork Dimensions l/e/s (mm)	1150×175×55	1150×175×68	1150×170×60	1070×100×40	1070×150×50	1070×100×40	1220×125×45
	Aisle Width (mm)	2300	2450	2300	3150	4250	4100	3150
	Weight (kg)	520	580	930	2900	5580	3700	4750
	Dimensions L×W×H (mm)	1658×780×(1940/2140/2340)	1747×900×(1940/2140/2340)	1751×998×(1940/2140/2340)	2512×1144×(1940/2140/2820)	3810×1410×2420	3398×1244×2266	2608×1628×3688
Movement Specifications	Driving Features	Forward, Reverse, Arc	Forward, Reverse, Arc	Forward, Reverse, Arc	Forward, Reverse, Arc	Forward, Reverse, Arc	Forward, Reverse, Arc	Forward, Reverse, Arc, Spin
	Travel Speed (m/s)	1.3	1.3	1.38	1.5	2.5	2.5	2
	Position Accuracy (mm)	±10	±10	±10	±10	±20	±20	±10
	Cross-Groove Capability (mm)	≤30	≤30	≤30	≤30	≤30	≤30	≤30
	Climbing Capacity (mm)	≤3° (5%)	≤3° (5%)	≤3° (5%)	≤3° (5%)	Full Load≤8° (14%) /No Load≤8.5° (15%)	Full Load≤8.5° (15%) /No Load≤8.5° (15%)	≤3° (5%)
Safety Protection	Path Deviation Protection	●	●	●	●	●	●	●
	Component Fault Protection	●	●	●	●	●	●	●
	Safety Obstacle Avoidance LiDAR	●	●	●	●	●	●	●
	Backward Bottom Obstacle Avoidance	—	—	●	●	●	●	●
	Stereo Obstacle Avoidance	●	●	●	●	●	●	●
	Safety Bumper	●	●	●	●	●	●	●
	HMI	●	●	●	●	●	●	●
Battery Specifications	Battery Standard Capacity (Ah)	40	40	200	200	450	450	460
	Run Time (h)	6~8	6~8	6~8	6~8	8~10	8~10	8~10
Cargo inspection	Pallet Position Detection	●	●	●	●	●	●	●
	Right Pick-up Inspection	○	○	●	●	●	●	●
	Barcode/RFID Reader	○	○	○	○	○	○	○
	Overweight Alarm (±5%)	—	—	○	○	○	○	○

Note: Support customized requirements such as mast, vehicle height, color, etc.
Above specifications are for reference only.

AGV Forklift Parameters

● Standard

○ Optional

— Not Available



Product Name		Reach Truck	Sideloaders	VNA Truck
Model		R20	O20	K16
Navigation	LiDAR Navigation	●	●	●
	Sky Navigation	○	○	○
	Mixed Navigation	○	○	○
Communication	Wi-Fi/ 5G/ Optical Communication	Support	Support	Support
Basic Parameter	Rated Load (kg)	2000	2000	1500
	Turning Radius (mm)	1879	1530	2250
	Maximum Lifting Height (mm)	9000	6500	11000
	Fork Dimensions l/e/s (mm)	1070×125×45	1220×100×45	1200×125×50
	Aisle Width (mm)	3340	2600	1750
	Weight (kg)	4200	2960~3160	6280~7260
	Dimensions L×W×H (mm)	2657×1526× (2350~4086)	2287×2108× (2350~3444)	3456×1625× (2935~4265)
Movement Specifications	Driving Features	Forward, Reverse, Arc	Omnidirectional	Forward, Reverse, Arc
	Travel Speed (m/s)	2	1.5	2.2
	Position Accuracy (mm)	±10	±10	±10
	Cross-Groove Capability (mm)	≤30	≤30	≤30
	Climbing Capacity (mm)	≤5.7° (10%)	≤2° (3%)	—
Safety Protection	Path Deviation Protection	●	●	●
	Component Fault Protection	●	●	●
	Safety Obstacle Avoidance LiDAR	●	●	●
	Backward Bottom Obstacle Avoidance	●	●	●
	Stereo Obstacle Avoidance	●	●	●
	Safety Bumper	●	●	●
	HMI	●	●	●
Battery Specifications	Battery Standard Vapacity (Ah)	460	300	450
	Run Time (h)	8~10	6~8	6~8
Cargo inspection	Pallet Position Detection	●	●	●
	Right Pick-up Inspection	●	●	●
	Barcode/RFID Reader	○	○	○
	Overweight Alarm (±5%)	○	○	○

Note: Support customized requirements such as mast, vehicle height, color, etc.
Above specifications are for reference only.

AMR Parameters

● Standard

○ Optional

— Not Available



Product Name		Dual Differential Drive AMR		Omni Steerable Wheel Drive AMR
Model		MW-C05	MW-C10	MW-D20P
Navigation	LiDAR Navigation	●		●
	Sky Navigation	○		○
	Mixed Navigation	○		○
Communication	Wi-Fi/ 5G/ Optical Communication	Support		Support
Basic Parameter	Rated Load (kg)	500	1000	2000
	Dimensions LxWxH (mm)	930×730×274	1150×820×280	1860x1160x370
	Cross-Groove Capability (mm)	≤30	≤10	≤10
	Climbing Capacity (mm)	≤2°	≤3°	≤2°
	Weight (kg)	260	350	700
Carrier Type	Lifting Mechanism	●		●
	Conveyor Mechanism	○		○
Movement Specifications	Driving Features	Forward, Reverse, Arc, Spin		Forward, Reverse, Arc, Spin, Sideways Movement
	Maximum Lifting Height (mm)	70		100
	Travel Speed (m/s)	1.5	1.6	1
	Stop Angle (°)	±1		±1
	Position Accuracy (mm)	±10		±10
Safety Protection	Auto/Manual	●		●
	Path Deviation Protection	●		●
	Component Fault Protection	●		●
	Backward Bottom Obstacle Avoidance	●		●
	Stereo Obstacle Avoidance	●		●
	Safety Bumper	●		●
	Emergency Stop Button	●		●
	Sound & Light Warning	●		●
	HMI	—		●
Battery Specifications	Battery Wtandard Capacity (Ah)	40	50	80
	Run Time (h)	6-8		4
Cargo inspection	Correction Detection	○	○	—
	Barcode Recognition	○	○	○

Note: Support customized requirements such as mast, vehicle height, color, etc.
Above specifications are for reference only.

AGV Tow Tractor Parameters

● Standard ○ Optional – Not Available



Product Name	AGV Tugger	
Model	SP60	
Navigation	LiDAR Navigation	●
	Sky Navigation	○
	Mixed Navigation	○
Communication	Wi-Fi/ 5G/ Optical Communication	Support
Basic Parameter	Rated Load (kg)	6000
	Rated Towing Hook Traction Force (N)	1200
	Dimensions LxWxH (mm)	1980×1200×2260
	Turning Radius (mm)	3500 (Trolley L5600×W1500mm)
	Cross-Groove Capability (mm)	≤30
	Cross-Groove Capability (mm)	≤3° (5%)
Movement Specifications	Weight (kg)	1300
	Driving Features	Forward, Reverse, Arc
	Automatic Hooking (visual correction)	○
	Travel Speed (m/s)	1.5
	Stop Angle (°)	±1
	Position Accuracy (mm)	±20
Safety Protection	Path Deviation Protection	●
	Component Fault Protection	●
	Backward Bottom Obstacle Avoidance	●
	Stereo Obstacle Avoidance	●
	Safety Bumper	●
	Emergency Stop Button	●
	Sound & Light Warning	●
	HMI	●
Battery Specifications	Vehicle Dashcam	○
	Automatic Charging	○
	Battery Type	Lithium Iron Phosphate
	Rated Voltage (V)	48
	Battery Standard Capacity (Ah)	300
Run Time (h)		8

Note: Support customized requirements such as mast, vehicle height, color, etc.
Above specifications are for reference only.

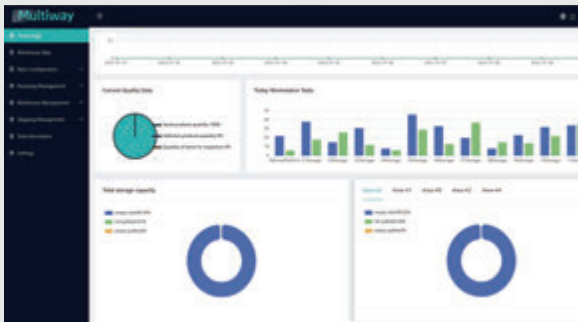


Technical parameters of Four-way Shuttle

Product Name	Four-way Shuttle	
Model	Z15	
Basic Parameter	Wi-Fi	●
	Rated Load (kg)	1500
	Adjustable to pallet width (mm)	1100~1400
	Jacking Height (mm)	60
	Service Weight (kg)	350
	Dimensions LxWxH (mm)	1135x980x120
	Temp. Environment (°C)	-10~50
	Control method	Auto/Manual
Movement Specifications	Driving Features	Four-way
	Jacking Method	Mechanical Lifting
	Drive Method	Motor-driven
	Travel Speed (m/s)	1.5
	Position Accuracy (mm)	≤2
	Reversing Time (s)	2
Battery Specifications	Charging Mode	Auto/Manual
	Charging Time (h)	1.5
	Rated Voltage (V)	48
	Battery Standard Capacity (Ah)	30

Note: Support customized requirements such as mast, vehicle height, color, etc.
Above specifications are for reference only.

Software System



Multiway Warehouse Management System - MW WMS

Multiway Warehouse Management System can realize inventory data management, operation management, storage location management, warehouse equipment health monitoring and intelligent report management, create a warehouse management system with transparent process and information, break the black box status of inventory assets, and grasp inventory and cost occupancy in real time.



Vision Solution - Horizon System

Multiway provides flexible vision solutions that enable intelligent manufacturing and intelligent logistics through machine vision and artificial intelligence technology. Our system allows management visualization with dynamic business monitoring of the entire production line and edge-computing data processing platform. It makes the factory's working environment safer and greatly improves production efficiency.

Multiway Robot Control System - MW RCS

Multiway Robot Control System supports hundreds of different kinds of AGVs running at the same time and generates the most optimized route. It achieves overall optimal navigation route planning and completes tasks in the shortest time and guaranteed to operate at maximum efficiency.



Simulation System - MW Simulation

The simulation system combines simulation modeling with robots based on the method of model design. It supports traffic simulation of hundreds of vehicles under different application scenarios, and carries out simulation experiments of robot kinematics, dynamics and trajectory planning algorithms. It could also improve robot's theoretical analysis and design capabilities, including scheme design, product selection, offline programming and collision detection, etc., which not only shortens production delivery time, but also avoids unnecessary rework.



Multiway Warehouse Control System - MW WCS

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.

Multiway Robotics