

Product Introduction



Ready to Use - Zero Calibration

Delivered together

with rack installation

- no additional

commissioning

required

Simple Operation - On the Job After Minimal Training

Handheld remote control

with visualized information;

both automatic and manual

modes available

Stable and Reliable - Fast Response and Timely Diagnosis

Fault alarm function for fast

problem tracing; remote after-sales

support with a 1-hour response

Two-Way Shuttle Features & Specifications			
Model	LS-1210		
Dimension	1116*974mm*145mm		
Specifications	Ambient Temperature	Low Temperature	Network Version
Max. Load	1500kg		
Drive Motor	48VDC 750W (lifting), 1000W (travel)		
Speed	1.2 m/s (unloaded), 0.9 m/s (fully loaded)		
Operating Temperature	-10°C~50°C	-25°C~50°C	-10°C~50°C
Net Weight	240 kg (standard)		

Applicable Pallet Size	1200 mm pallet entry width
Controller	Self-developed main controller
Function	Pallet spacing adjustable from 5-25 cm; supports inventory counting and mixed use of large and small pallets
Charging Time	⩽3 hours
Continuous Working Time	⩾8 hours (48V 30Ah battery)
Color	Orange-red, Metallic Gray
Low Battery Mode	When battery level drops below 20%, a low-battery alarm is triggered; after finishing the task it automatically returns to the end of the aisle and sounds a buzzer alarm
Options	
Compatible Rails	⊙120mm-163mm
Operating Temperature	◎ -25°C~50°C
Load Capacity	◎ 2000 kg ◎ 2500 kg
Charging Method	◎ Charging cabinet ◎ Charging station (automatic)
Battery Capacity	◎ 48V40Ah
Color	◎ Customized per customer requirements
Speed	◎ 2.4 m/s (unloaded)





Four-Way Shuttle Features & Specifications		
Model	LS-1211	
Dimension	1177*975*153mm	
Specifications	Ambient Temperature	Low Temperature
Max. Load	1500kg	
Drive Motor	48VDC 750W (lifting), 1000W (travel)	
Speed	1.4 m/s (unloaded), 1.1 m/s (fully loaded)	
Operating Temperature	-10C~45℃	-25℃~45℃
Net Weight	320 kg (standard)	
Applicable Pallet Size	1200 mm pallet entry width	
Positioning Technology	QR code + laser distance sensor, millimeter-level accuracy (±2 mm)	
Controller	Self-developed main controller	
Operation Mode	WCS / Remote Control	
Charging Method	Charging station	Automatic
Continuous Working Time	6-8 hours	
Charging Time	⩽2 hours	

Network Interface	WIFI2.4/5G
Low Battery Protection	When battery level drops below 10%, low-battery protection mode is triggered if no charging task is executed within 30 minutes
Manual Charging	Emergency charging with a charger
Automatic Charging	The shuttle can automatically return to the charging pile for charging
Options	
Applicable Pallet Size (W x L)	◎ Min.: 1000 mm x 1000 mm ⊙ Max.: customized per customer requirements
Load Capacity (Max.)	◎ 2000 kg
Color	◎ Customized per customer requirements

Remote



01 单次/连续入库

02 单次/连续/指定出库

03 盘点

04 理货

05 召回

06 一键切换A/B 面

07 先进先出/先进后出

08 Manual/Automati

Self-developed



The self-developed controller uses an industrial-grade ARM chip and integrates LoRa wireless, Ethernet, CAN bus, IO-Link and a variety of other industrial communication interfaces. Its software runs on a real-time operating system, delivering powerful functions and stable performance. Compared with conventional PLC solutions, it offers significantly improved integration and protection levels.

售后质保



2year full-vehicle warranty 3year key-component wa

7x24 technical support - dual assurance of remote diagnosis and on-site service

Case Presentation





Product Features

01 High Flexibility

Ultra-thin body, fast shuttling, high flexibility

Different product types can be flexibly stored and retrieved in separate lanes;

Multiple racking configurations and operation modes meet the needs of different users and work intensities.





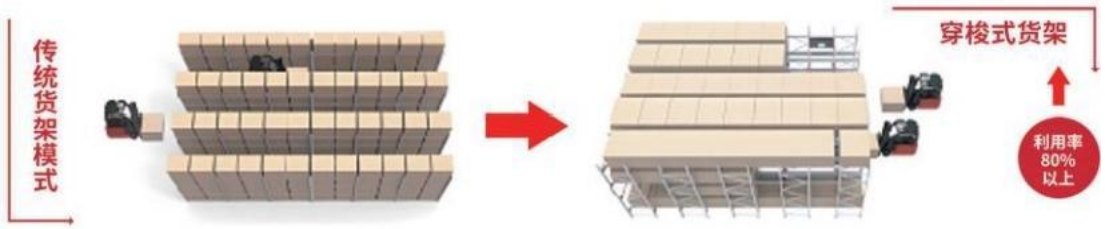
02 Improved Space Utilization

High-density storage and efficient handling improve space utilization

Racks can be densely arranged; forklifts only operate at the front, while shuttles deliver goods to designated positions

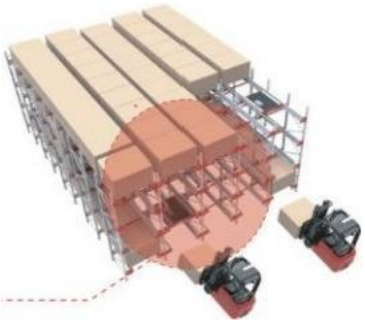
Fully utilize warehouse space, achieving over 80% utilization inside the warehouse.

Standard 48V/30Ah battery delivers about 6-8 hours of continuous operation to meet demanding workloads



03 Safe and Reliable

Laser + photoelectric dual positioning, flexible motion control and multiple safety protections - safe and reliable



No need for forklifts or personnel to enter the lanes, improving the safety of both people and goods

Compared with drive-in and drive-through racking, the structure is more stable and the safety factor is higher

