

MR-QF-600LD-A(HI)

Autonomous Mobile Robot



Key Feature

- Equipped with both the chassis and forks to combine flexibility with the ability of directly carrying carriers.
- Compared with traditional forklift, the less weight of whole robot can be applicable to the low-floor load bearing scene.
- Applicable to various types of carriers.
- Compared with traditional forklift, it supports extremely narrow roadway picking and putaway with the moving speed increased by 25% to increase reservoir capacity.
- Supports various safety protection plans to realize 360° protection.
- Supports indicating device status via screen, status indicator, and speaker.
- Supports Wi-Fi communication and seamless roaming in a network-covered area.

Typical Application

The mobile robot is applicable to national standard pallet, non-standard pallet, and non-standard rack (cage trolley, customized carriers for special industries) carrying scenes.

Available Model

MR-QF-600LD-A(HI)

Accessory

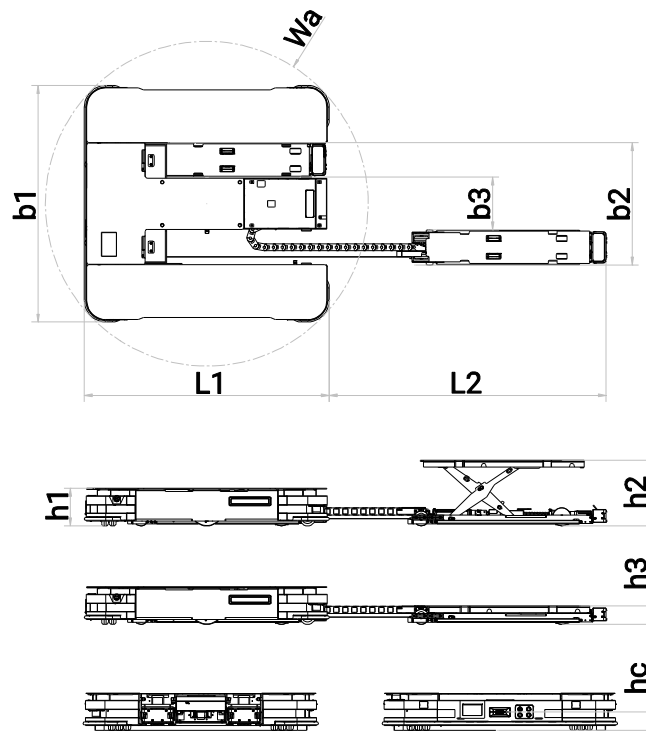
- Charging station: MR-RA-CH-48/30B-CI(CE)(QF)
- External debugging cable: 50 cm (19.69"), black
- Manual controller: MR-FRA-MC(I)



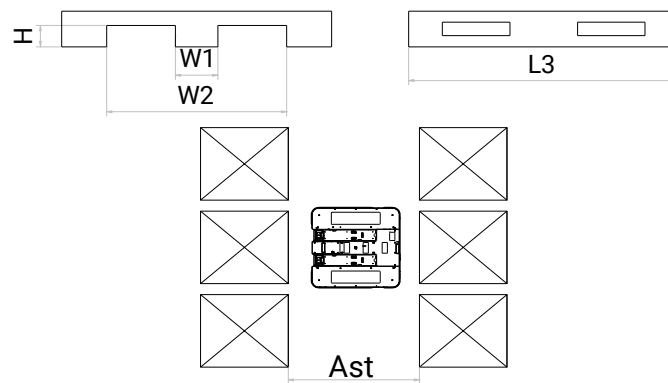
Specification

Model	MR-QF-600LD-A(HI)
Basic Parameter	
Dimension (L1*b1*h1)	1250 mm × 1200 mm × 190 mm (49.21" × 47.24" × 7.48")
Weight (with Battery)	334 kg (736.34 lb.)
Navigation Mode	Laser SLAM
Rated Load (Q)	600 kg (1322.77 lb.)
Rotation Diameter (Wa)	1640 mm (64.57")
Charging Port Height (hc)	93 mm (3.66")
Fork Outer Width (b2)	605 mm (23.82")
Fork Inner Width (b3)	275 mm (10.83")
Min. Distance Above Ground from Lifting Platform (h3)	95 mm (3.74")
Max. Distance Above Ground from Lifting Platform (h2)	335 mm (13.19")
Max. Fork Extension Length (L2)	1400 mm (55.12")
Human-Machine Interaction	Touchscreen, button
Motion Performance	
Drive Method	Differential drive
Rated Running Speed (Empty)	2000 mm/s
Rated Running Speed (Rated Load)	1800 mm/s
Positioning Accuracy	± 10 mm (0.39")/± 1°
Battery Performance	
Battery Type	LiFePO4
Rated Voltage	48 V
Battery Capacity	28 Ah
Charging Cycle	2000 times (for fully charging and discharging) or 30 months
Run Time	6 h to 8 h
Charging Time	1.5 h
Charging Method	Auto charging, manual charging
Safety Protection	
Obstacle Avoidance Laser Sensor	Right front laser sensor, left rear laser sensor, 360° obstacle avoidance detection
Bumper Strip Position	Front, rear
Bumper Strip Type	Pneumatic
Emergency Stop Button	Support
Sound and Light Alarm	Support
Pallet In-Position Detection	Support
Pallet Recognition	Support
Fork Tip Safety Protection	Optional
Radium Indicator	Optional
Pallet Dimension	
Applicable Pallet Inner Width (W1)	≤ 190 mm (7.48")
Applicable Pallet Outer Width (W2)	690 mm to 1000 mm (27.17" to 39.37")
Applicable Pallet Entry Height (H)	105 mm to 120 mm (4.13" to 4.72")
Applicable Pallet Length (L3)	600 mm to 1500 mm (23.62" to 59.06")
Roadway Width (Ast)	≥ 1800 mm (70.87")

Dimension



Pallet Dimension



Charging Station Deployment

