

## MR-F4-1000-C(HI)

### Autonomous Mobile Robot



### Key Feature

- Adopts narrow robot body design, transports in forklift mode, and supports mast customization and fork size customization.
- Adopts SLAM navigation to achieve accurate positioning.
- Supports smooth motion with max. running speed of 1.2 m/s.
- Adopts smart/independent power management, and supports auto-charging and self-returning after charging is completed, and maintenance-free battery for environmental friendliness.
- Supports multiple safety protections, such as laser/infrared obstacle avoidance, load detection, emergency stop button, and audible alarm.
- Supports carrying, lifting, and lowering goods up to 1,000 kg (2204.62 lb.) via standard pallets, with pallet recognition function.
- Supports indicating device status via screen and status indicator.
- Supports Wi-Fi communication and seamless roaming in a network-covered area.

### Typical Application

The mobile robot is applicable to automobile, 3C, manufacturing, logistics, food and pharmaceutical industries.

### Available Model

MR-F4-1000-C(HI)

### Accessory

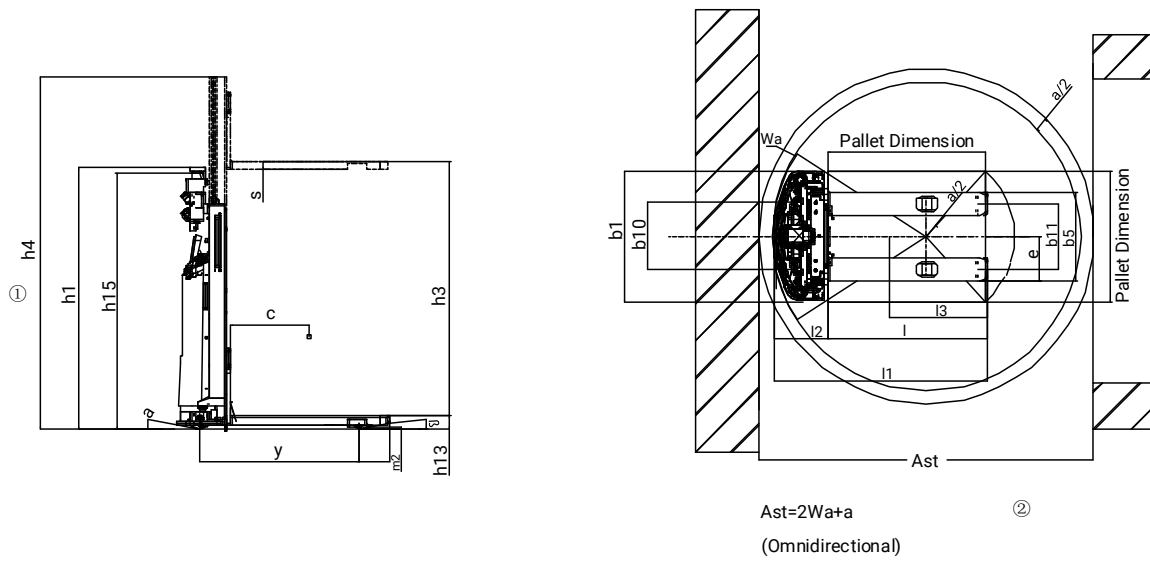
- Charging station: CH-48/30(CE)
- External debugging cable: 50 cm (19.69"), black



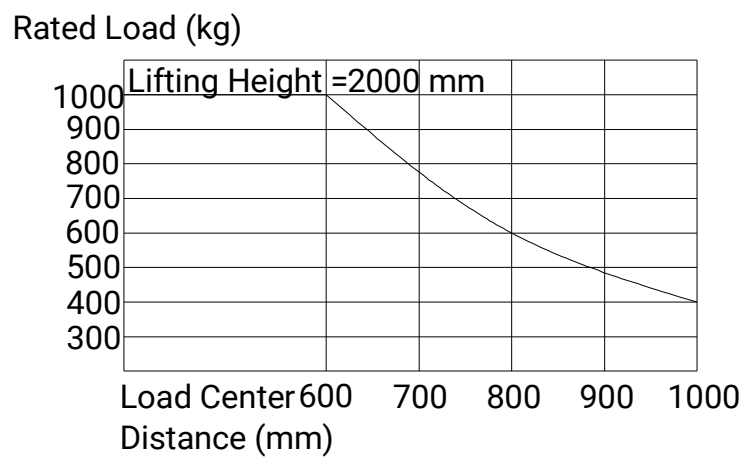
## Specification

<b>Model</b>	<b>MR-F4-1000-C(HI)</b>
<b>Basic Parameter</b>	
<b>Dimension (l1*b1*h1)</b>	1746 mm × 1073 mm × 1915 mm (68.74" × 42.24" × 75.39")
<b>Weight (with Battery)</b>	746 kg (1644.65 lb.)
<b>Rated Load (Q)</b>	1000 kg (2204.62 lb.)
<b>Load Center Distance (C)</b>	600 mm (23.62")
<b>Wheelbase (y)</b>	990.3 mm (38.99")
<b>Lifting Height (h3+h13)</b>	2081 mm (81.93")
<b>Max. Mast Height (h4)</b>	2666 mm (104.96")
<b>Fork Above Ground After Lowering (h13)</b>	81 mm (3.19")
<b>Fork Height/Width/Length (s/e/l)</b>	65 mm/160 mm/1279 mm (2.56"/6.30"/50.35")
<b>Fork Distance (b5)</b>	630 mm (24.80")
<b>Min. Ground Clearance (m2)</b>	11 mm (0.43")
<b>Laser Scanning Height (h15)</b>	1896 mm (74.65")
<b>Min. Rotation Radius (Wa)</b>	1180 mm (46.46")
<b>Aisle Width (Ast)</b>	2120 mm (83.46") (with pallet 1200 × 800)
<b>Motion Performance</b>	
<b>Running Speed (Full/Empty)</b>	1000 mm/s / 1200 mm/s
<b>Positioning Accuracy</b>	± 10 mm (0.39")
<b>Positioning Angle Accuracy</b>	± 1°
<b>Repeated Positioning Accuracy</b>	± 10 mm (0.39")
<b>Max. Gradeability (Full/Empty)</b>	3%/5%
<b>Lifting Fork Speed (Full/Empty)</b>	100 mm/s / 135 mm/s
<b>Lowering Fork Speed (Full/Empty)</b>	130 mm/s / 100 mm/s
<b>Motion Method</b>	Steering wheel drive; support forward, backward, arc motion and rotation on site.
<b>Battery Performance</b>	
<b>Rated Voltage</b>	48 V
<b>Capacity</b>	70 Ah
<b>Charging Cycle</b>	1500 times (for fully charging and discharging)
<b>Run Time</b>	6 h to 8 h
<b>Charging Time</b>	≤ 2 h (for fully charging and discharging)
<b>Charging Position</b>	Side
<b>Safety Protection</b>	
<b>Laser Obstacle Avoidance</b>	Support
<b>Recorder</b>	Optional
<b>Bumper Strip</b>	Support
<b>Pallet In-Position Detection</b>	Support
<b>Fork Collision Detection</b>	Support
<b>Emergency Stop Button</b>	Support
<b>Sound and Light Alarm</b>	Support
<b>Others</b>	
<b>Drive Method</b>	Front wheel drive and steering
<b>Screen</b>	Support
<b>Navigation Mode</b>	Laser SLAM
<b>Manual Operation</b>	Manual controller (optional)
<b>Noise</b>	< 75 dB

## Dimension



## Load Curve



## Charging Station Deployment

