

# MR-Q2-400LE-D(HI)

## Latent Mobile Robot



### Key Feature

- Self-localization navigation: adopts inertial, 2D barcode, laser and visual SLAM navigation methods to achieve accurate positioning.
- Supports smooth motions like forward, backward, and rotation via dual-wheel differential drive.
- Smart power management: supports multi-level electrical threshold, auto-charge, and self-returning after charging completed.
- Multi-safety protection includes front laser obstacle avoidance, pneumatic bumper strip detection, emergency stop button, etc.
- Human-machine interaction: indicates the device status via touch screen, sound and indicators.
- Supports carrying, rotating, lifting and lowering goods up to 400 kg (881.85 lb.).
- Wireless communication: supports Wi-Fi and seamless roaming in a network covered area.

### Typical Application

Automobile, consumer electronic, manufacturing, logistics, food, medicine, etc.

### Available Model

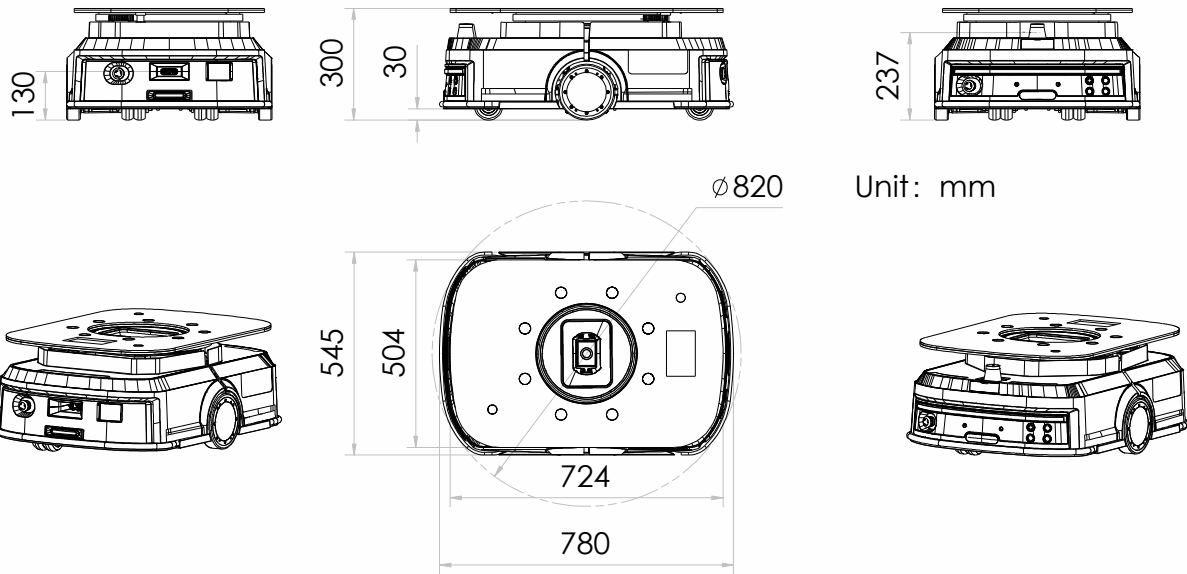
MR-Q2-400LE-D(HI)

### Accessory

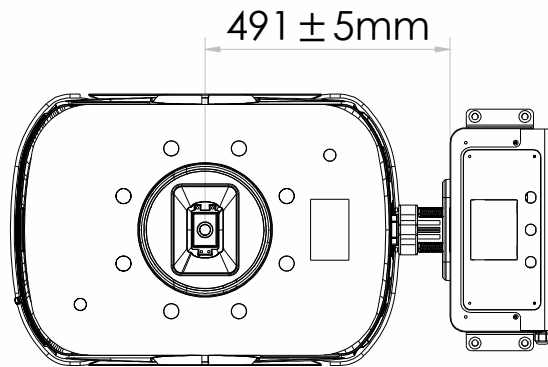
Charging station model: MR-RA-CH-48/30B-CI(CE)



## Appearance



## Charge Station Deployment



## Specification

<b>Model</b>		<b>MR-Q2-400LE-D(HI)</b>	
<b>Basic Parameter</b>			
<b>Dimension (L × W × H)</b>		780 mm × 545 mm × 300 mm (30.71" × 21.46" × 11.81")	
<b>Rotation diameter</b>		820 mm (32.28")	
<b>Chassis above the ground</b>		30 mm (1.18")	
<b>Lifting tray dimension</b>		724 mm × 504 mm (28.50" × 19.84")	
<b>Lifting height</b>		60 mm (2.36")	
<b>Lifting type</b>		Electrically lifting	
<b>Weight</b>		93 kg (205.03 lb.)	
<b>Rated load</b>		400 kg (881.85 lb.)	
<b>Navigation mode</b>		Laser SLAM/2D barcode/Visual SLAM(ground texture)	
<b>Human-machine interaction</b>		Touch screen	
<b>Safety Protection</b>			
<b>Front</b>	<b>Laser Obstacle Avoidance</b>	<b>Installation Height</b>	237 mm (9.33")
		<b>Scanning Angle</b>	260°
		<b>Max. Detection Range</b>	10 m (393.70")
<b>Bumper Strip Detection</b>		Front/Rear	
<b>Emergency Stop Button</b>		Front/Rear	
<b>Motion Performance</b>			
<b>Rated running speed (empty)</b>		2 m/s	
<b>Rated running speed (rated load)</b>		1.8 m/s	
<b>Rated acceleration (empty)</b>		0.8 m/s <sup>2</sup>	
<b>Rated acceleration (rated load)</b>		0.4 m/s <sup>2</sup>	
<b>Rotation speed (empty)</b>		200°/s	
<b>Rotation speed (rated load)</b>		100°/s	
<b>Gradeability</b>		3°	
<b>Location angle accuracy</b>		± 1°	
<b>Location accuracy</b>		± 10 mm (± 0.39")	
<b>Battery Performance</b>			
<b>Battery Type</b>		LiFePO	
<b>Rated Voltage</b>		48 V	
<b>Charge Cycle</b>		1500 times (for fully charging and discharging)	
<b>Run Time</b>		8 h	
<b>Charge Time</b>		≤ 1.5 h (for fully charging and discharging)	