

MR-Q7-1500CE-D(HI)

Autonomous Mobile Robot



Key Feature

- Self-localization navigation: adopts inertial and 2D barcode 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-charging, 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 1500 kg (3306.93 lb.).
- Wireless communication: supports Wi-Fi and seamless roaming in a network covered area.

Typical Application

Automobile, 3C, manufacturing, logistics, food, medicine, etc.

Available Model

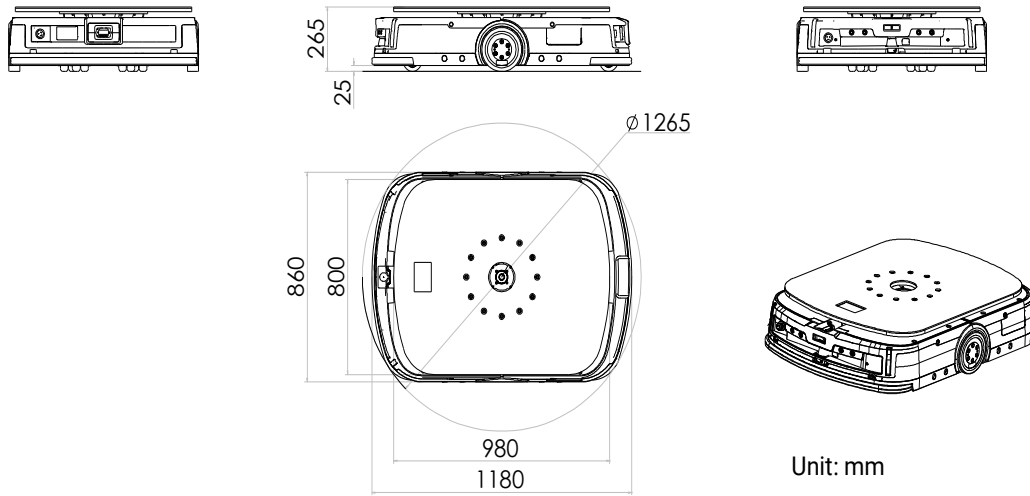
MR-Q7-1500CE-D(HI)

Accessory

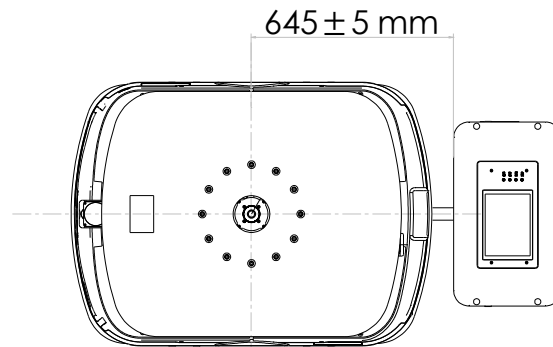
Charging station model: MR-RA-CH-48/30B-CI(CE)



Dimension



Charging Station Deployment



Specification

Model		MR-Q7-1500CE-D(HI)	
Basic Parameter			
Dimension (L × W × H)		1180 mm × 265 mm × 860 mm (46.46" × 10.43" × 33.86")	
Rotation Diameter		1265 mm (49.80")	
Lifting Stroke		60 mm (2.36")	
Chassis Above Ground		25 mm (0.98")	
Lifting Platform Dimension		980 mm × 800 mm (38.58" × 31.50")	
Lifting Speed		15 mm/s to 25 mm/s	
Lifting Structure Type		Electric	
Weight		277 kg (610.68 lb.)	
Rated Load		1500 kg (3306.93 lb.)	
Max. Load		1800 kg (3968.32 lb.)	
Navigation Mode		2D barcode	
Human-Machine Interaction		Touch screen	
Noise		≤ 75 dB	
Safety Protection			
Front	Laser Obstacle Avoidance	Installation Height	122 mm (4.80")
		Scanning Angle	180°
		Max. Detection Range	8 m (314.96")
Bumper Strip Type		Pneumatic	
Emergency Stop Button		Support	
Audible Alarm		Support	
Motion Performance			
Rated Running Speed (Empty)		1800 mm/s	
Rated Running Speed (Rated Load)		1500 mm/s	
Rated Acceleration (Empty)		600 mm/s ²	
Rated Acceleration (Rated Load)		400 mm/s ²	
Safe Braking Distance (Empty)		500 mm (19.69")	
Safe Braking Distance (Rated Load)		1000 mm (39.37")	
Rotation Speed (Empty)		120°/s	
Rotation Speed (Rated Load)		70°/s	
Gradeability		3°	
Stopping Angle Accuracy		± 0.5°	
Stopping Location Accuracy		± 10 mm (± 0.39")	
Driving Angle Accuracy		± 2°	
Driving Location Accuracy		± 20 mm (± 0.79")	
Battery Performance			
Battery Type		LiFePO4	
Rated Voltage		48 V	
Charging Cycle		1500 times (for fully charging and discharging) or 30 months	
Run Time		6 h to 8 h	
Charging Time		≤ 1.5 h (for fully charging and discharging)	
Battery Certification		CB certification	