

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 touchscreen, 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

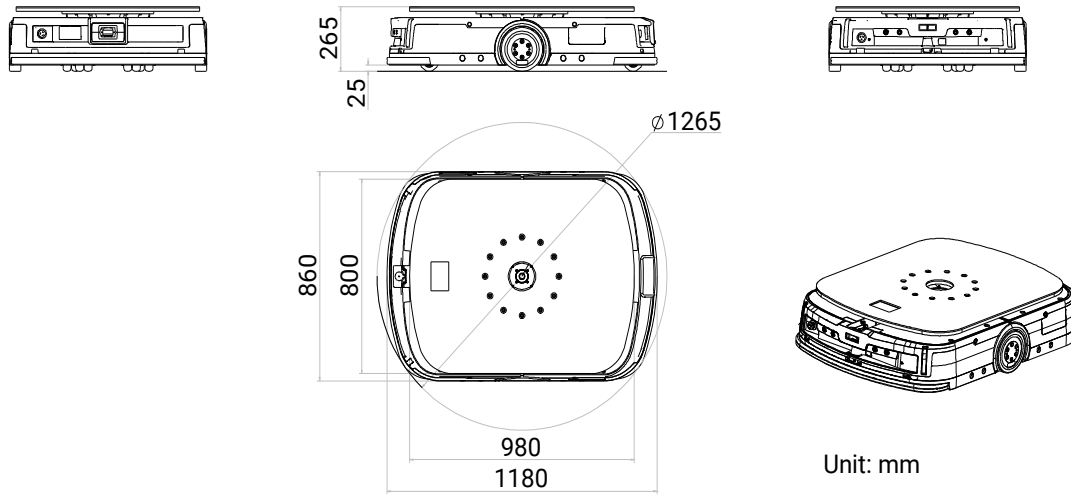
MR-Q7-1500CE-D(HI)

Accessory

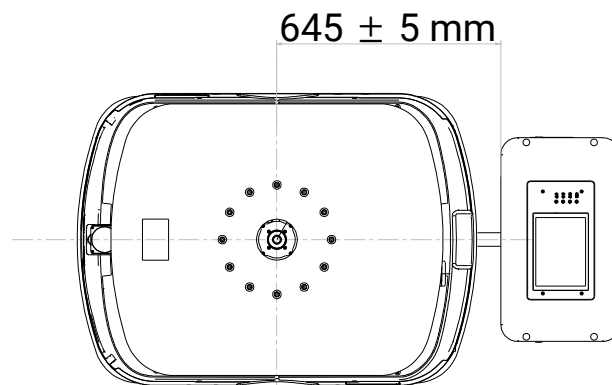
Charging station model: MR-RA-CH-48/30B-CI(CE)



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				Touchscreen	
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°	
Positioning Angle Accuracy				± 0.5°	
Positioning 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)	
Run Time				6 h to 8 h	
Charging Time				≤ 1.5 h (for fully charging and discharging)	
Battery Certification				CB certification	