MR-Q3-600LE-DI(CE)

Autonomous 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-charging, and self-returning after charging completed.
- Multi-safety protection: includes front laser obstacle avoidance, side ultrasonic obstacle avoidance, 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 600 kg (1322.77 lb.).
- Wireless communication: supports Wi-Fi and seamless roaming in a network covered area.
- Complies with CE certification and ISO3691-4:2020 safety standard.

Typical Application

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

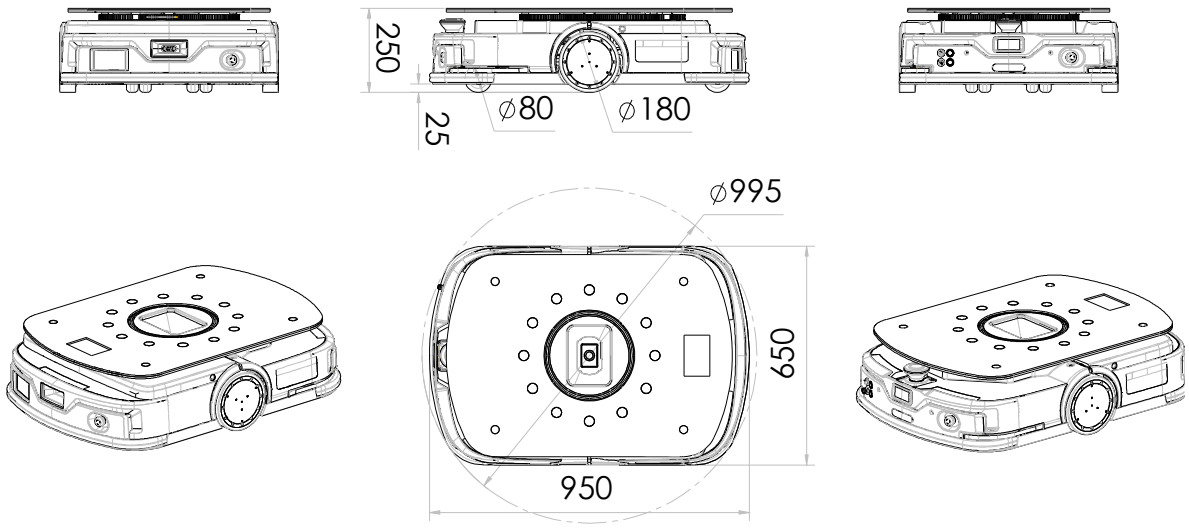
Available Model

MR-Q3-600LE-DI(CE)
MR-Q3-600CE-DI(CE)
MR-Q3-600VE-DI(CE)

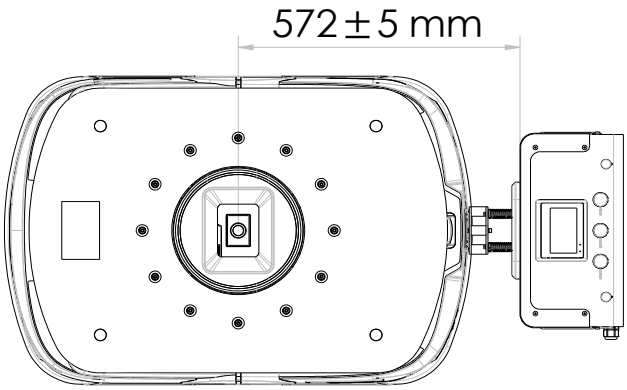
Accessory

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

Dimension



Charging Station Deployment



Specification

Model			MR-Q3-600LE-DI(CE)
Basic Parameter			
Dimension (L × W × H)			950 mm × 650 mm × 250 mm (37.40" × 25.59" × 9.84")
Rotation Diameter			995 mm (39.17")
Chassis Above Ground			25 mm (0.98")
Lifting Platform Dimension			850 mm × 650 mm (33.46" × 25.59")
Lifting Stroke			60 mm (2.36")
Lifting Structure Type			Electric
Weight			133 kg (293.21 lb.)
Rated Load			600 kg (1322.77 lb.)
Navigation Mode			Laser SLAM/2D barcode/Visual SLAM (ground texture)
Human-Machine Interaction			Touch screen
Safety Protection			
Front	**Laser Obstacle Avoidance**	**Installation Height**	190 mm (7.48")
		Scanning Angle	260°
		Max. Detection Range	10 m (393.70")
Side	**Ultrasonic Obstacle Avoidance**	**Sensor Quantity**	One each on left and right sides
		Installation Height	188 mm (7.40")
		Scanning Angle	Horizontal 80°, vertical 34°
		Max. Detection Range	0.2 m to 1 m (7.87" to 39.37")
Bumper Strip Position			Front/Rear
Emergency Stop Button			Support
Motion Performance			
Rated Running Speed (Empty)			2000 mm/s
Rated Running Speed (Rated Load)			1800 mm/s
Rated Acceleration (Empty)			1000 mm/s²
Rated Acceleration (Rated Load)			500 mm/s²
Rotation Speed (Empty)			200°/s
Rotation Speed (Rated Load)			100°/s
Gradeability			3°
Location Angle Accuracy			± 1°
Location Accuracy			± 10 mm (± 0.39")
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)

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