



SERVICE ROBOT

Why Choice Us

1. RTC provides a total AGV solution from hardware to system software

RTC provides a total AGV solution, including transport robots, coordination software and user interface. This helps customers save deployment time, optimize investment efficiency and ensure system-wide synchronization.

2. RTC's AGV solution is easily integrated with existing factory management systems

RTC's AGV solution is flexibly designed, compatible with many industrial protocols and easily connected to management systems such as MES, WMS, ERP. This helps factories optimize operations without changing the current infrastructure.

3. Fleet Management System (FMS) and RTCRobot Core (Rcore) software are recognized by the Copyright Office

Fleet Management System (FMS) is a software suite that manages and coordinates the operations of a system consisting of multiple AGVs/AMRs, automatic doors, elevators, warning systems and production machines in the factory.

RTCRobot Core (Rcore) is a control software for Autonomous Mobile Robots (AMRs), acting as the central brain to help robots operate flexibly and efficiently.

Both FMS and Rcore software have been certified by the Copyright Office, affirming the legality and quality of technology owned by RTC. This is a testament to the company's research and development capabilities.

4. Factory system with an area of >3000m² along with a team of senior engineers and designers.

With a factory system of >3000m², fully equipped with modern equipment, RTC is ready to meet production and inspection requirements at all levels of complexity.

We have a team of senior engineers with extensive expertise and many years of experience in implementing AGV solutions to meet all customer requirements. RTC's engineering team is constantly innovating and creating to bring the most optimal value to customers.



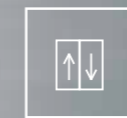
SETTING UP
IN MINUTES



AUTO
DELIVERY



AUTO
CHARGING



ELEVATOR
COMPATIBLE



FLEXIBLE LINE
MATCHING



CÔNG TY CỔ PHẦN RTC TECHNOLOGY VIỆT NAM

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SERVICE ROBOT




Basic Parameters	Height	1240 (mm)
	Length*Width	550*500 (mm)
	Weight	46kg Basic
	Exterior material	Flame Resistance ABS
Load Device	Box configuration	4 layers (can be combined and adjusted into 2-layer, 3-layer, 4-layer)
	Navigation method	SLAM Navigation, Person Following
	Single layer height	4 layers: 190mm, 190mm, 190mm
	Detachability	Detachable layers
	Size	500*424mm
	Load capacity	80kg
Operating environment	Waterproof and dustproof grade	Whole body: IP43; Battery: IP66
	Working life	8h/day, 5 years, 63072km
	Operating temperature	-10 °C ~ 65 °C; UV resistance; Corrosion resistant
	Storage temperature	-20°C~65°C
	Charging temperature	5~40°C (indoor)
Display	10.1-inch screen, MIPI interface, resolution 1280*720	
Network Communication	4G	Supported, FDD B1/B3/B5/B8, TDD B38/39/30/41
	5G	Support, need to add 5G accessories
	Traffic quota	Each robot is 2G/month
	WIFI	Wifi module (AP6256) 2.4G&5GHz, support 802.11a/b/g/n/ac protocol
OS	Android 8.1+ Linux	
Sensors	Ultrasonic sensor*2	Detect glass and other transparent materials
	Lidar*1	Detect obstacles with a certain height in 360 degrees
	Fisheye camera*2	215°FOV, resolution 640*480, capture visual features of the environment
Charging & Battery Life	Battery	Charging voltage: 24V
		Capacity: 15Ah
		Duration: 10h
		7*24h service can be achieved with the charging pile.
		Time to fully charge: 4 hours
	Adapter	Working voltage: 100~240VAC, 50/60Hz
	Charging pile	Size: 375mm*160mm*355mm
		Weight: 4.35kg
		Input: 100-240V~50/60 Hz
		Output: 29.4V==7.0A
		Support SLAM algorithm
Sampling frequency: 4500 times/s		

Obstacle avoidance


Multi-sensor combined, 360°omnidirectional obstacle detection, centimeter level obstacle avoiding, reaction within seconds, stop when blocked, move only after obstacle removed, stepping protection, a safe robot around both adults and children.




360°Omnidirectional obstacle avoidance




0.5second reaction speed



Runs smoothly



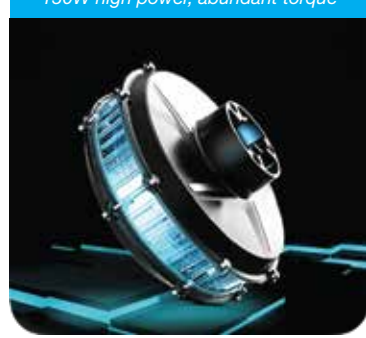
Will not run over low objects



Other Advanced Technologies

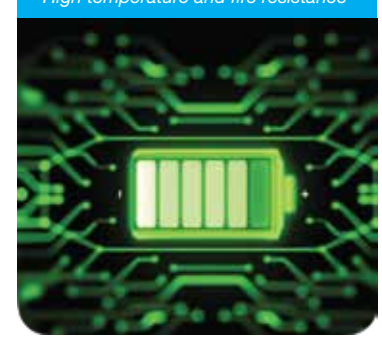
High power hub motor

*Super quiet in operation
150W high power, abundant torque*




Lithium ion phosphate battery (same as Tesla cars)

High temperature and fire resistance



Fully developed electric control


Millisecond reaction speed, more agile when braking and avoiding obstacles



Other Advantages

Tens of millions of unit volume production

*Nearly 20 years of chassis development experience, hundreds of product iterations
Data accumulation of tens of millions of manned operations*



Tough frame for vehicles

Uniquely integrated frame, used in Segway personal vehicles, strong and stable, safe and stable operation

