Kachaka: Affordable, compact autonomous carrier robots

Used in offices, factories, restaurants and clinics in Japan

What is Kachaka?

Kachaka is a compact autonomous carrier robot developed by a Japanese tech firm Preferred Robotics.

Powered by deep learning technology, Kachaka carries mutilple types of compatible shelves to specified locations while going through narrow paths and dynamically avoiding obstacles.

Users only need to follow the instructions on the mobile app to set up and operate Kachaka, which is currently used in a range of businesses in Japan including offices, factories, clinics and restaurants.

Preferred Robotics, Inc.

Preferred Robotics is a spin-off company from Preferred Networks, Japan's AI and deep learning pioneer. The company also develops floor-cleaning robots for businesses.

Case Studies

Restaurants

Serving and clearing

Healthcare

Carrying medications

Cleaning

Floor cleaning

Factories

Carrying parts

Offices

Carrying drinks and snacks

Circulating trash cans

Kachaka for business: Basic specifications

Size	240 mm (width) x 387 mm (depth) x 124 mm (height)
Weight	12.2 kg
Max. speed	Without shelf: 0.8 m/s (With shelf: 0.5 m/s)
Max. torque	2Nm
Towing weight	20kg (Varies depending on environment, carriage weight)
Tire mateiral	TPE
Battery	Rechargeable lithium-ion battery (Capacity: 80Wh)
Stepped surfaces	Without shelf: 5 mm (With shelf: 3 mm)
Protective functions	Motor, control board thermal sensor, etc.
Power	100V, 3A
Rated voltage	DC25.2 V
Charging time	3 hours (Varies depending on environment, carriage weight)
Battery life in continuous operation	2 hours (Varies depending on environment, carriage weight)
Wireless communication	WiFi IEEE802.11n
Cameras	2 RGB cameras
Sensors	1 LiDAR, 1 ToF, 2 step sensors, 1 shelf-detection sensor
Audio devices	4 microphones, 1 speaker
Safety requirements	PSE, UL

Contact us

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