

Technical Specifications

Application

Product Type *Collaborative autonomous mobile robot for transport of payloads, tow wheeled carts, inspection, R&D, and more.*

Physical Characteristics

Dimensions *741 × 640 × 463 mm [LxWxH]*
Weight *45kg (without gripper)*

Performance

Operational Time *5h continuous*
Max Pull Force *300Kg (depends of floor surface)*
Max Payload *70kg (carry on payload)*
Max Speed *2.0m/s*
Max Incline *5°*
Turning Radius *0.3m (without cart)*
Position Accuracy *+/-10cm; +/-1cm with 2D code marker*

Environmental Conditions

Max Traversable Gap *3 cm*
Floor *Flat ground with smooth surface*
Environment Type *Indoor*
Ambient Temperature *-5°C to 50°C (humidity 10-95% non-condensing)*
IP Class *IP 30*

Connectivity

Wi-Fi *802.11a/b/g/n/ac, 2.4/5 GHz Dual-Band*
Bluetooth *4.0 LE*

Sensors

Front Lidar *Hokuyo UAM-05LP-T301 – Safety compliant ISO13849-1, IEC61496-1/3*
Rear Lidar *Hokuyo URG-04lx*
Front Camera *RGB / 3D depth camera*
Rear Camera *RGB / 3D depth camera*
Optional Lidar *Velodyne*

Power / Battery

Charging Time	2h30 to full charge
Battery Charger	External (docking station)
Wheels	Li-Ion 55V/650Wh
Sensors and Control	Li-Ion 12V/240Wh

Safety / Warnings

Emergency Stop	Safety lidar and emergency stop button
Warning Light	Flashing orange light
Warning Sound	Buzzer
Status Lights	RGB Leds

Attachments

Tow hook	Customizable gripper for towing metal carts / wheeled pallets
Top tray	Customizable top tray to carry payload

Dimensions

