

RB-SHERPA is suitable for indoor and outdoor logistics applications due to its versatility and high mobility.

### Product

RB-Sherpa is a general purpose mobile platform designed to target logistics tasks.

The robot has a relevant mobility and is able to follow a human operator autonomously and to navigate autonomously indoor and outdoor. In this sense, RB-Sherpa is suitable for logistics tasks in warehouses or pick & transport & place applications.

The robot traction uses steereable motorwheels, thus allowing different kinematic configurations: single/dual Ackermann or omnidrive crawling.

The control architecture is open-source and modular, based on ROS (<http://www.ros.org>). ROS framework defines a well organized robot software architecture and includes hundreds of user contributed packages and sets of packages called stacks, that implement functionalities as localization and mapping, planning, manipulation, perception, etc.

### Applications

- Logistics (order preparation delivery)
- Picking and transport
- Delivery applications
- Agriculture
- Military



## Technical specifications

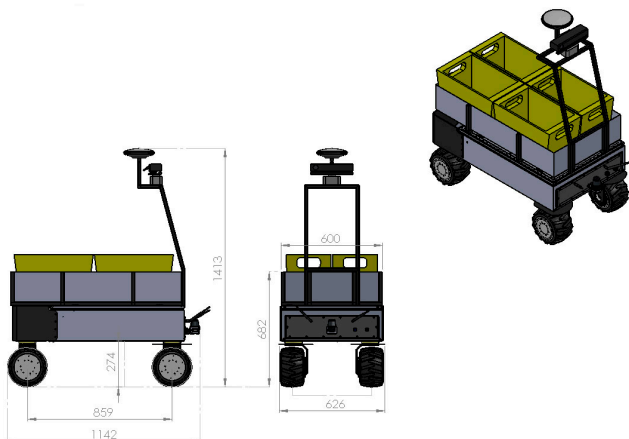
### Mechanical

Dimensions	1.142 x 1.413 x 626 mm
Weight	123 Kg
Speed	3 m/s
Enclosure class	IP54 / IP65
Autonomy	10 H continuous motion
Batteries	LiFePO4 15Ah@48V
Traction motors	4 x 500 W
Steering motors	2/4 x 200 W
Temperature range	-10°C to 45°C
Max step	120mm
Payload	100 Kg



### Control

Controller	Open architecture ROS Embedded PC with Linux (Intel BayTrail J1900 or similar)
Communication	WiFi 802.11n
Connectivity	Internal: USB, RS232, GPIO External: USB, RJ42, power supplies



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