

Innok Heros

Modular Service Robot Plattform

R & D



Autonomous Robotics



Rapid Prototyping



- reliable
- robust
- strong
- outdoor&indoor

Innok Heros is optimized for research purposes and rapid prototyping.

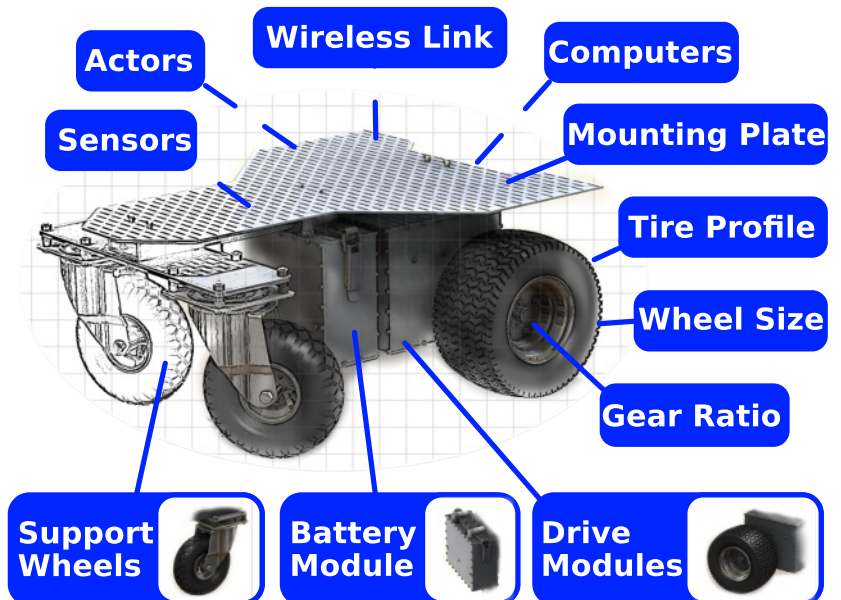
Quickly and reliably configure your mobile robot platform for your project based on:

- Innok Heros Modul System
- Innok Heros Software Framework
- standardized interfaces
- industrially tested components
- open system architecture

Configure Your Robot:



www.innok-robotics.de/en/configurator



Innok Robotics GmbH

www.innok-robotics.de

Bahnweg 4

93128 Regenstauf (Regensburg)

GERMANY

phone: + 49 9402 47391-0

email: info@innok-robotics.de

The proven procedure model guarantees:

- your „state-of-the-art“ project start
- your technological edge
- an organized modular structure
- cost transparency

You gain valuable time that ensures your market leadership.

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Software

The Innok Heros software framework is modular, too, and can be supplemented flexibly. Based on the ROS (Robot Operating System) open source platform and the Ubuntu operating system, drivers and preconfigured components are available. Other operating systems can be set up on customer's request as well.

Of course, the drive is also directly controllable.

Interfaces

Innok Heros comes with a **CAN bus** connection as standard. Using the optional **LAN / WLAN interface**, you can connect Innok Heros to the on-board PC or your network.



The control computers can be located directly on the robot or can access from outside via a wireless network connection. Our connection box allows you to **connect your individual sensors** and to supply them with electricity from the vehicle's power pack if required.

Services

You need support? We configure, train and develop for you when things have to move fast. The development of special sensors (hardware), drivers or software for navigation or control is implemented quickly and competently, too.

About Innok Robotics

We make robots that **assist humans in their work**. Our robots facilitate the work of our customers and take dangerous work out of their hands. We transfer forward-looking research into present and **reliable technology**.

We are specialized in **outdoor robots**. We develop individual products for industrial partners. Innok Robotics time- and cost-effectively creates customer-specific service robot solutions based on our modular components and software libraries.

Our team has all knowlegde and expertise relevant for service robotics. We impress with our extensive knowledge in the field of mechanical, electrical and computational engineering. At Innok Robotics **you get the complete development and production of your robot from one source**.

Technical Spezifications

Dimensions

Length:

920 (900 - 1700) mm
36.2 (35.4 - 66.9) in

Width:

720 (620 - 1200) mm
28.4 (24.4 - 47.2) in

Height:

440 (390 - 500) mm
17.3 (15.4 - 19.7) in

Ground clearance

95 - 195 mm
3.7 - 7.7 in

Payload

Weight:

70 - 140 kg
150 - 300 lbs

Max. loading:

70 - 400 kg
150 - 900 lbs

Materials

Chassis: aluminum and stainless steel

Mounting plate and construction: Alu

Ambient operating temperature:

-20 to +40°C
-4 to +104°F

Protection class

Vehicle: IP65 (IP66/67 optional)

Add-Ons: up to IP66/67 (acc. requirement)

Motors / drive

Brushless DC motors

2WD: Continuous power 800 W

4WD: Continuous power 1600 W

Customizable gear ratio

Encoders for odometry

Steering system

2-wheel drive: differential steering

4-wheel drive: skid steering

Drive wheels

Steel rim

Diameter: 320 - 520 mm // 12.6 - 20.5 in
Tractor profiles, floor profiles, ...

Power supply

Modular quick-change system

48 V, up to 50 A continuous discharge

High-Power battery: 960 Wh (Li-Ion)

Standard battery: 400 Wh (lead)

On- & off-board charging possible