



Innok INDUROS – the transport robot

INDUROS is an autonomous mobile robot for demanding intralogistics. Its robust construction and sophisticated sensor fusion enable safe and reliable operation in difficult indoor and outdoor environments, including rough surfaces, inclines, tight spaces, and poor weather conditions.

No external orientation aids are needed for navigation. INDUROS can be operated remotely, semi-automatically or autonomously. Each INDUROS is equipped with an automatic hitch.

Characteristics

- ▶ Indoor & Outdoor
- ▶ Handles demanding environments
- ▶ User friendly and flexible
- ▶ Compact and agile
- ▶ Reliable and safe
- ▶ Strong and robust

Technical Specifications

Dimensions

- ▶ length: approx. 115 cm
- ▶ width: approx. 80 cm
- ▶ height: approx. 100 cm

Ground clearance

- ▶ approx. 10 cm

Track width

- ▶ approx. 57 cm

Weight

- ▶ 165 kg

Towing capacity

- ▶ max. 350 kg
(uphill/downhill up to 10%)
- ▶ max. 500 kg
(at ground level)

Top speed

- ▶ 3.2 km/h or 0.9 m/s
(gear ratio 1:100)
- ▶ 6.5 km/h or 1.8 m/s
(gear ratio 1:50)

Materials

- ▶ chassis: aluminium, stainless steel, steel, plastic
- ▶ mounting plate and structure: aluminium, stainless steel, steel, plastic
- ▶ cover: stainless steel

Operating temperature

- ▶ -10 °C to +45 °C

Degree of protection

- ▶ IP65

Motordrive

- ▶ maintenance-free
- ▶ max. continuous power: 800 W
- ▶ gear ratio: 1:100, optional 1:50
- ▶ steering system: differential steering

Drive wheels

- ▶ steel rims
- ▶ diameter: 41 cm
- ▶ tire tread: Turf-profile

Battery pack

- ▶ 48 V, up to 4,0 kW continuous load
- ▶ technology: Li-Ion
- ▶ capacity: approx. 2900 Wh
- ▶ Running time: up to 16 hours depending on payload and routing
- ▶ loading time: approx. 2 hours (from 20% to 80%)

Charging station

- ▶ 230 V, 1.2 kW (max. power consumption)

Wireless networks

- ▶ Wifi or mobile connectivity

Autonomy software

- ▶ Innok COCKPIT
 - Innok Hybrid Navigation
 - VDA 5050 interface (only on request)

Localization

- ▶ Lidar
- ▶ optional: RTK GNSS (GPS/Galileo/Glonass/Baidu)

Operational safety

- ▶ safety laser scanner
- ▶ rotating beacon and turning signals
- ▶ warning sound
- ▶ emergency stop button
- ▶ CE

We reserve the right to make changes in line with technical progress.