



Together we design your

**AUTONOMOUS  
MOBILE  
ROBOT**



| **BEEWATEC**

**wheel\_me**  
Authorized partner

## GENIUS 2

Automation of transportation tasks with **unbeatable ROI.**



The Genius 2 module from wheel.me transforms shelves, trolleys, pallets and more into **fully-fledged autonomous mobile robots (AMR).**

## GENIUS 2 - SET

Automation of transportation tasks with a **disruptive price.**


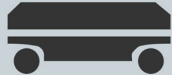

**< 19.000 €**  
for a complete 4-wheel  
system (plus charging  
station and software)

**250 kg**  
Load capacity with 4 wheels

**100%**  
Flexibility in terms of  
basic dimensions, super-  
structures and intended  
use



## IN COMPARISON

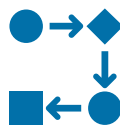
4 Wheels (Genius2)	Other AMR	Manual transport
		

Prices			
One-time costs	< 19.000 Euro	> 30.000 Euro	350 Euro
Running coast (per year)	590 Euro	depending on provider	~ 30.000 Euro
Premium service (per year)	900 Euro	—	—
Features			
Simple implementation	✓	✗	✓
Easy maintenance	✓	✗	✓
Flexibility	very high	medium	low
Load capacity	250 kg	depending on provider	up to > 1.500 kg
Dynamic obstacle detection	✓	✓	✗
Lane-free, auto-nomous navigation	✓	✓	✗

## Premium-Features ADVANTAGES AT A GLANCE



Free scalable dimensions of the robot



Simple implementation of use cases



Low to no downtimes thanks to plug-and-play



In-process-charging for seamless material flow



Reliable connectivity through WiFi & 5G



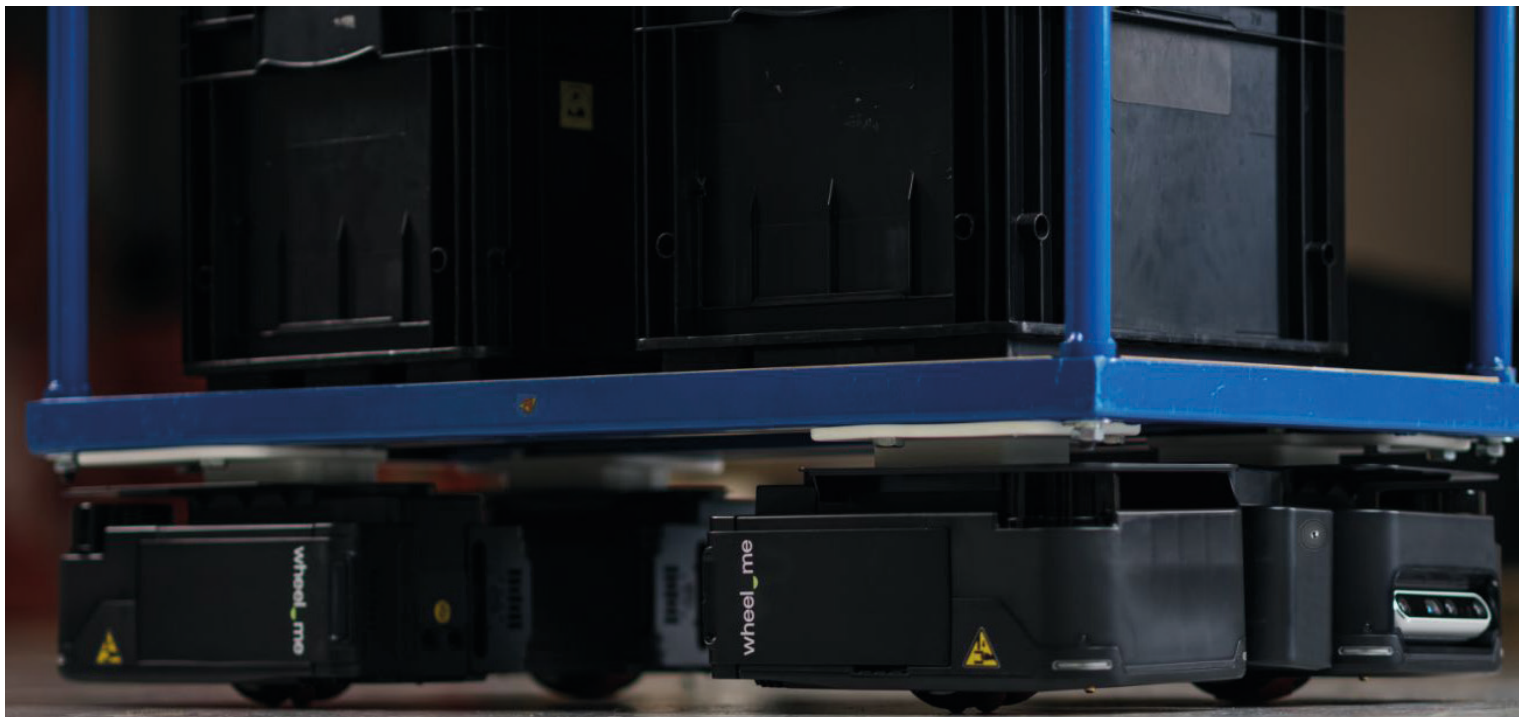
User-friendly & cross-device in-app control





**Endless possibilities**  
with our pipe-  
racking system.

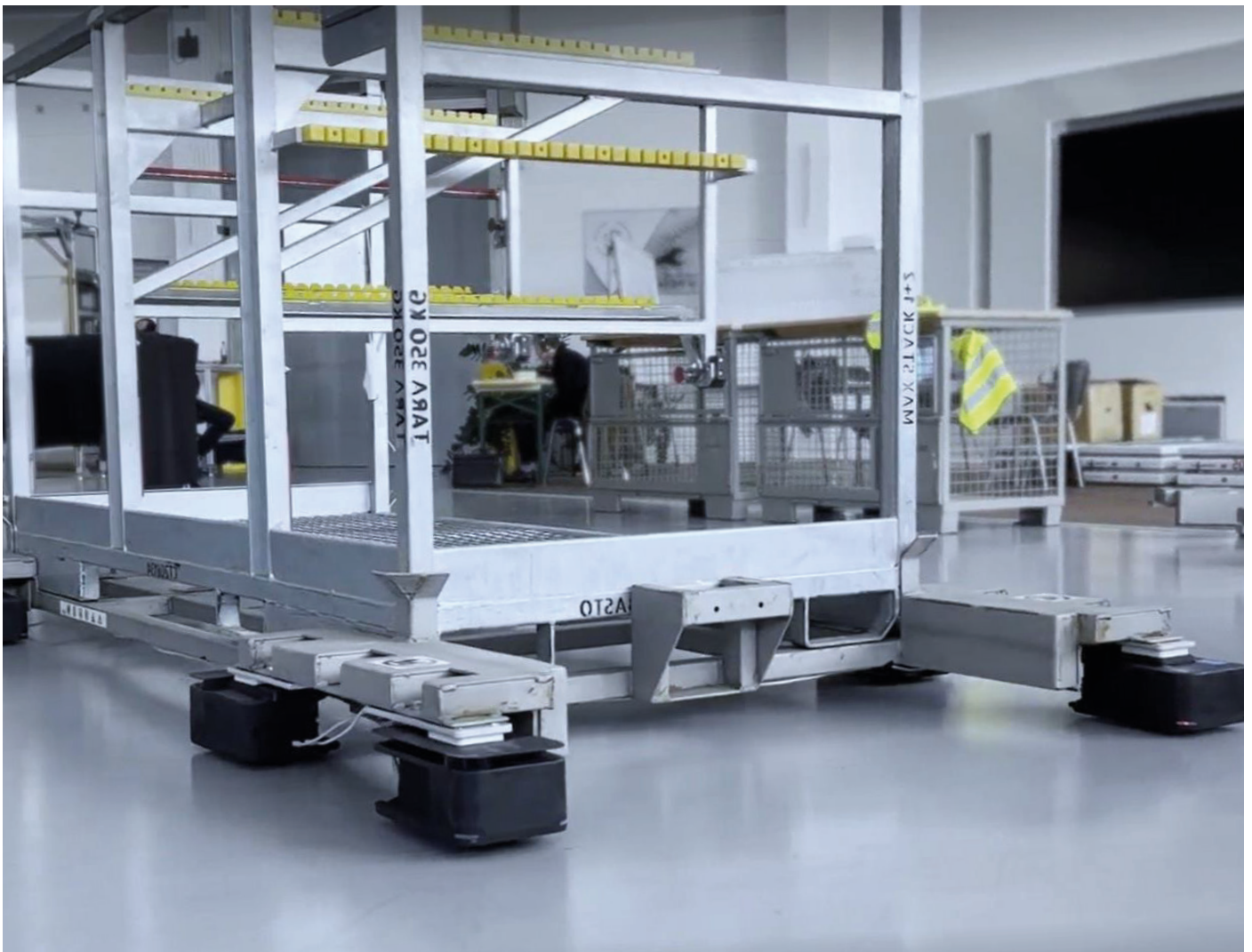
Together we implement your specific use case.



✓ **Transportation of shelves, pallets, pallet cages & more**  
Whether it's a new concept or retrofitting existing equipment

✓ **Material transfer**  
For a 100% automated material flow in production and logistics





## Rack transport

Automated transport of existing or new racking systems



## Pallet transport

Automated transport of pallets with square base frames



## Material transfer

Automated provision of material in production & logistics for a seamless material flow

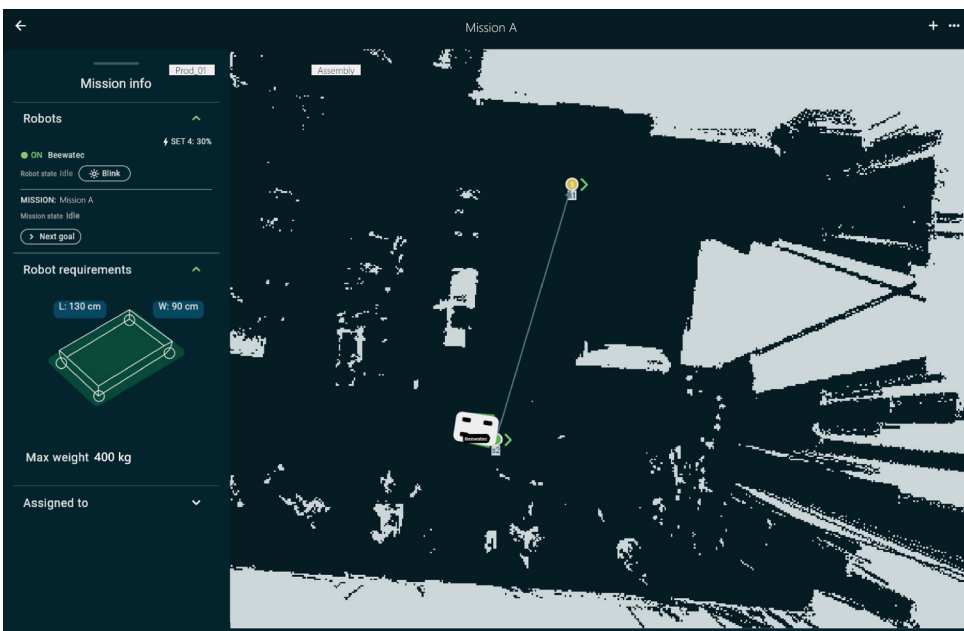
# Control in the App, **FROM ALL DEVICES.**



- ✓ Manage transport orders
- ✓ Automatic mapping
- ✓ Intuitive user interface

## Monitor, create and control transport orders **in real time.**

This allows you to maintain control of your robot fleet and your material flow in production and logistics at all times.



New robots and new tasks are **ready for use in just a few hours.**

It can be controlled from any device and location (via Cloud).

# TECHNICAL DATA

## General data

Typ	Autonomous wheels, available in set of 4
Drive unit	Mechanical wheel with PU castors
Movement	Omnidirectional
Color	RAL 9005, deep black
Housing material	PC-ABS

## Dimensions and load capacity

Dimensions and weight (main wheel)	193 x 269 x 134 mm / 4,6 kg (excl. battery)
Dimensions and weight (supporter)	193 x 186 x 134 mm / 3,9 kg (excl. battery)
Battery weight	0,8 kg
Minimum dimension of the AMR	495 x 700 mm
Load capacity of a 4-wheel system (max.)	250 kg

## Safety and certification

Safety standard (EU)	CE, SIL-2, performance level D
Safety standard (US)	ETL, RCC
Safety zones	3-zone safety (depending on speed)

## Navigation and environment

Speed	0,8 m/s (max)
Turning diameter	Zero-point rotation
Area of application	Indoor
Environmental temperature	5 to 40 °C
Humidity	50% relative humidity at 40°C
Protection against water and dust entry	IP20
Minimum brightness of the ambient lighting	40 Lux
Floor conditions	Dry, no grease/oil/dirt

## Battery and charging

Type of battery	Lithium-ion 21700
Nominal voltage of the battery	14,4 G
Positioning of the charger	Floor and surface mounting
Type of load	Autonomous, via contact surfaces on the floor
Battery runtime	5,5 h
Charging duration (from 10-90%)	1 h

## Communication and sensor technology

Wireless communication	WLAN2,4, 5 GHz, 802.11ac, internal and external antennas
Wired communication	CAN/Ethernet
LiDAR	4 pieces/set
LiDAR-FoV	2 x 360°
Camera	1 x Intel RealSense (per set), 1 x ultra wide-angle lens (per set)

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BeeWaTec AG | Kunstmühlestraße 16 | DE-72793 Pfullingen | Tel. +49-7121-62 87 16-0 | E-Mail: info@beewatec.de |  
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### General notes:

Technical changes, further developments, changes of products and modifications are reserved, even without previous notification. We assume no guarantee for mistakes in printing, writing and translation. In either case the German brochure version has precedence. All information is not binding and subject to change.





# BEEWATEC

wheel\_me



Check your application  
with us, or ask  
your questions about  
the product.

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## **BeeWaTec AG**

Kunstmühlestraße 16  
DE-72793 Pfullingen

Phone +49 (0) 7121-62 87 16-0  
Fax +49 (0) 7121-62 87 16-499

[info@beewatec.de](mailto:info@beewatec.de)

## **Austria**

### **BeeWaTec GmbH**

Leopold-Böhm-Straße 10/D53  
AT-1030 Wien

Phone +43 (1) 890 00 58  
Fax +43 (1) 890 01 94

[info@beewatec.at](mailto:info@beewatec.at)

## **Switzerland**

### **BeeWaTec AG**

Wilerstrasse 68  
CH-6062 Wilen (Sarnen)

Phone +41 (0) 62 891 00 00

[info@beewatec.ch](mailto:info@beewatec.ch)

## **Czech Republic / Slovakia**

### **BeeWaTec s.r.o.**

Dřevařská 13  
CZ-68001 Boskovice

Phone +42 (0) 515-554 400  
Fax +42 (0) 515-554 410

[info@beewatec.cz](mailto:info@beewatec.cz)

## **Poland**

### **BeeWaTec Sp. z o.o.**

ul. Strefowa 25  
PL-58-200 Dzierżoniów

Phone +48 (0) 74-661 8564

[sales@beewatec.pl](mailto:sales@beewatec.pl)

## **Hungary**

### **BeeWaTec Hungária Bt.**

Kiskőrösi út 8  
HU-6000 Kecskemét

Phone +36 (20) 343-8736

Fax +36 (0) 76-507-001

[info@beewatec.hu](mailto:info@beewatec.hu)

## **Romania**

### **BeeWaTec EastTrade S.R.L**

Strada Linistei Nr. 2  
RO-400398 Municipiul Cluj-Napoca

Phone +40 (0) 364-157-798

[info@beewatec.ro](mailto:info@beewatec.ro)

## **Baltics**

### **BeeWaTec Baltics UAB**

Chemijos g. 15  
LT-51332 Kaunas, Litauen

Phone +370 69-51 17 74

[info@beewatec.lt](mailto:info@beewatec.lt)

## **Serbia**

### **BeeWaTec d.o.o.**

Makedonska 30 (Eurocentar),  
3rd floor  
RS-11000 Belgrade

Phone +40 (0) 364-157-798

[info@beewatec.rs](mailto:info@beewatec.rs)