



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.**


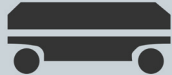

< 19.000 €
for a complete 4-wheel
system (plus charging
station and software)

250 kg
Load capacity with 4 wheels

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



IN COMPARISON

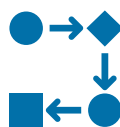
4 Wheels (Genius2)	Other AMR	Manual transport
		

Prices			
One-time costs	< 19.000 Euro	> 30.000 Euro	350 Euro
Running cost (per year)	690 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

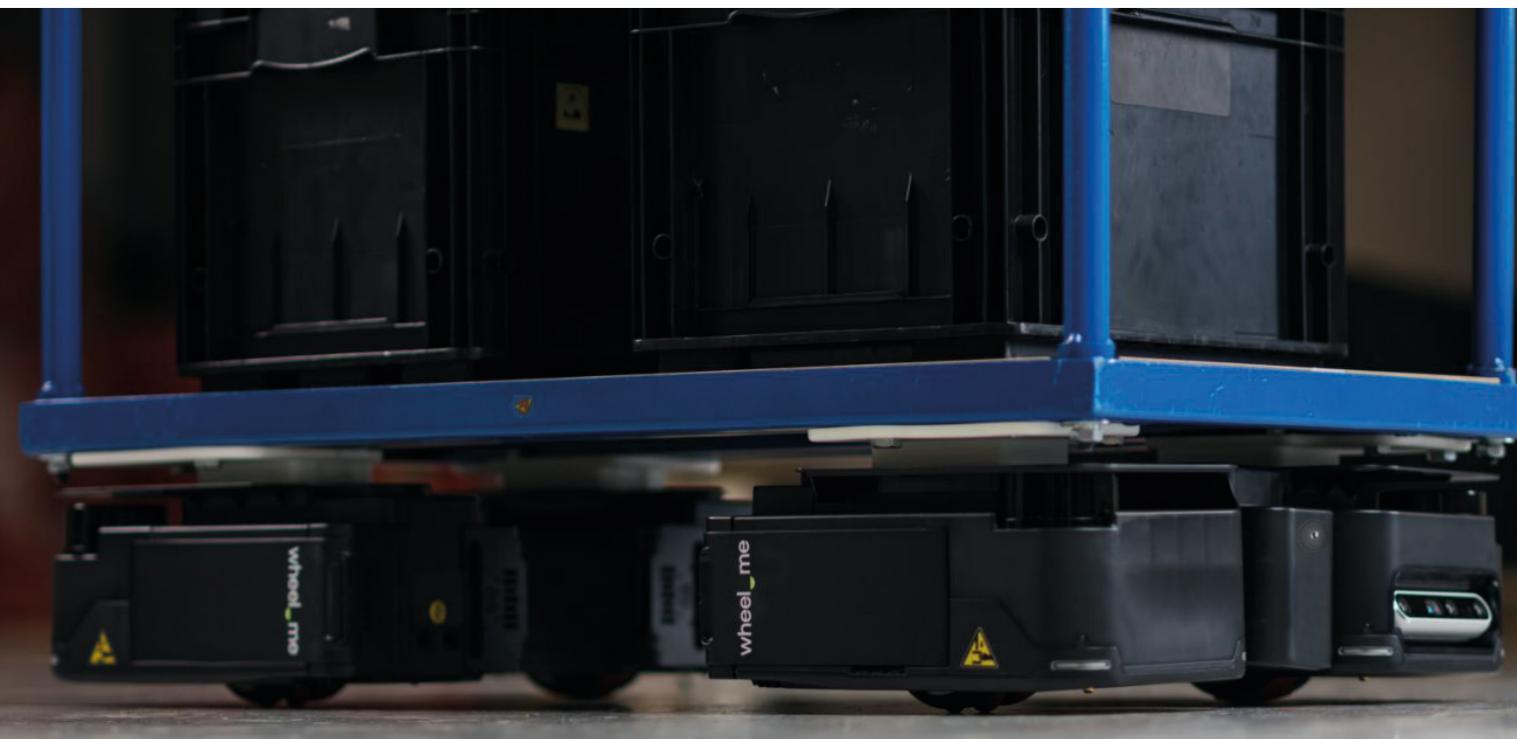


User-friendly &
cross-device in-app
control



Endless possibilities
with our pipe-
racking system.

Together we implement your specific use case.

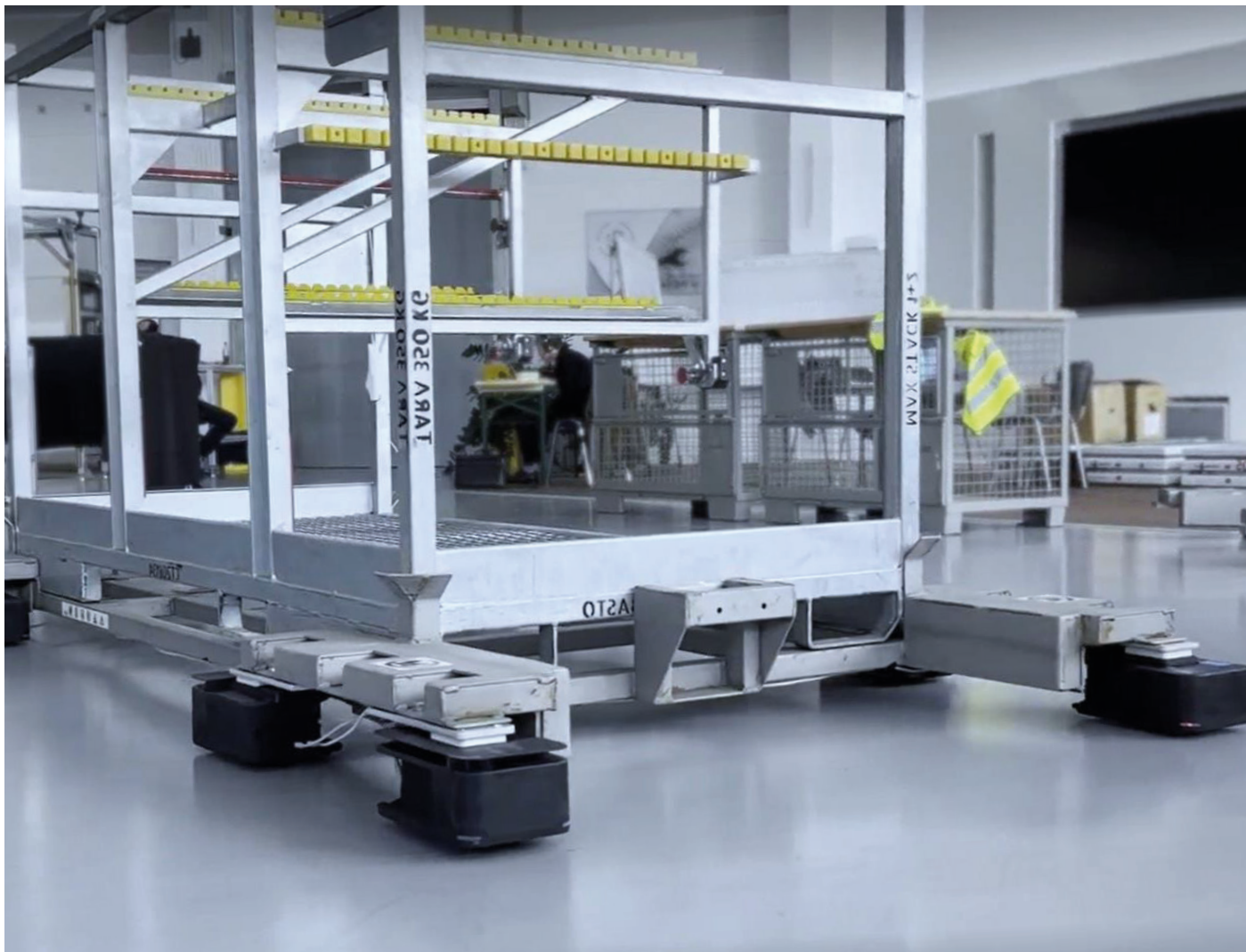


✓ **Transportation of shelves, pallets, pallet cages & more**

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

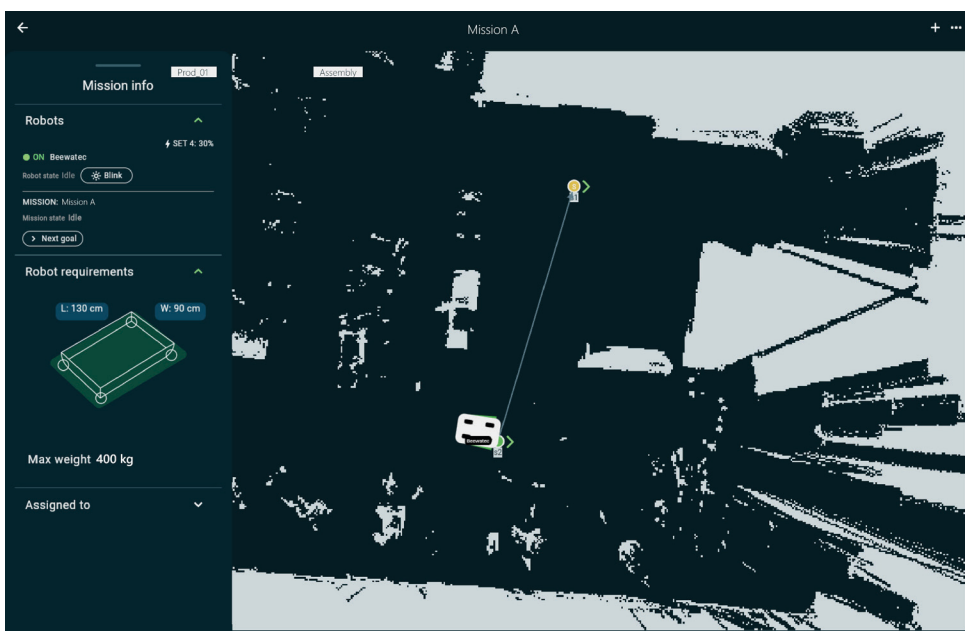
Control in the App, **FROM ALL DEVICES.**



- ✓ 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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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.



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

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