



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.**


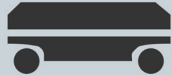

< 19.000 €
for a complete 4-wheel
system (plus charging
station and software)

300 kg
Load capacity with 4 wheels

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



IN COMPARISON

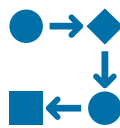
4 Wheels (Genius2)	Other AMR	Manual transport
		

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	300 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

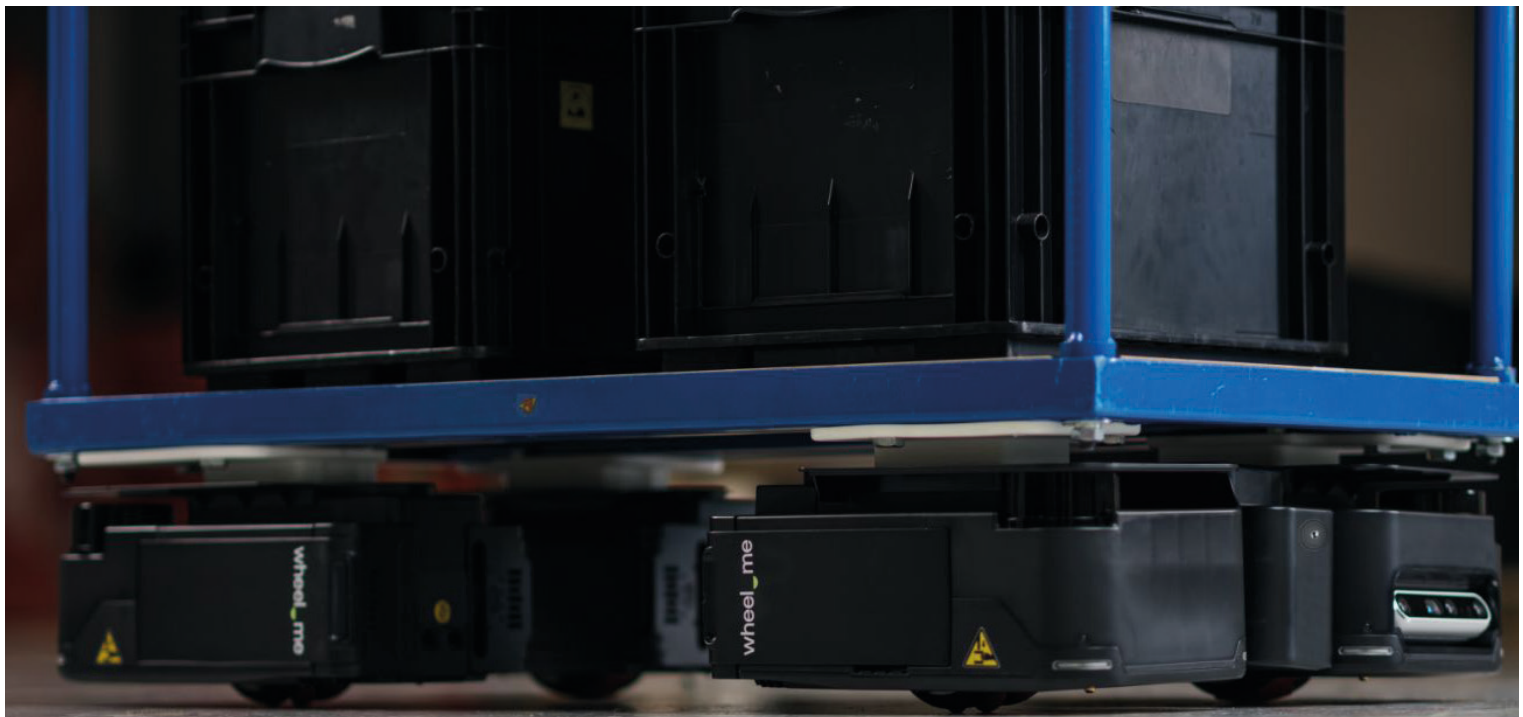


User-friendly & cross-device in-app control



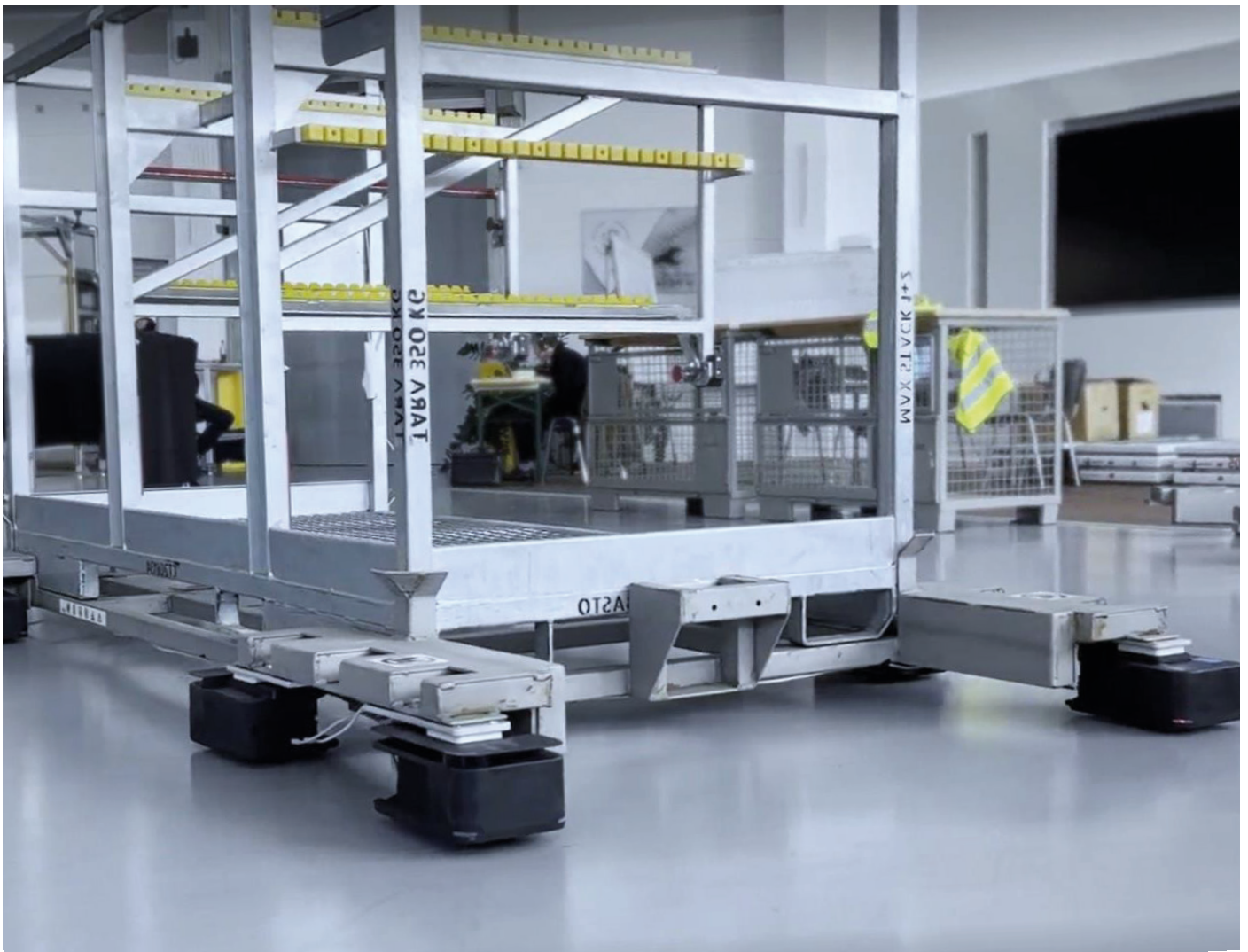
Endless possibilities with our pipe-racking system.

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

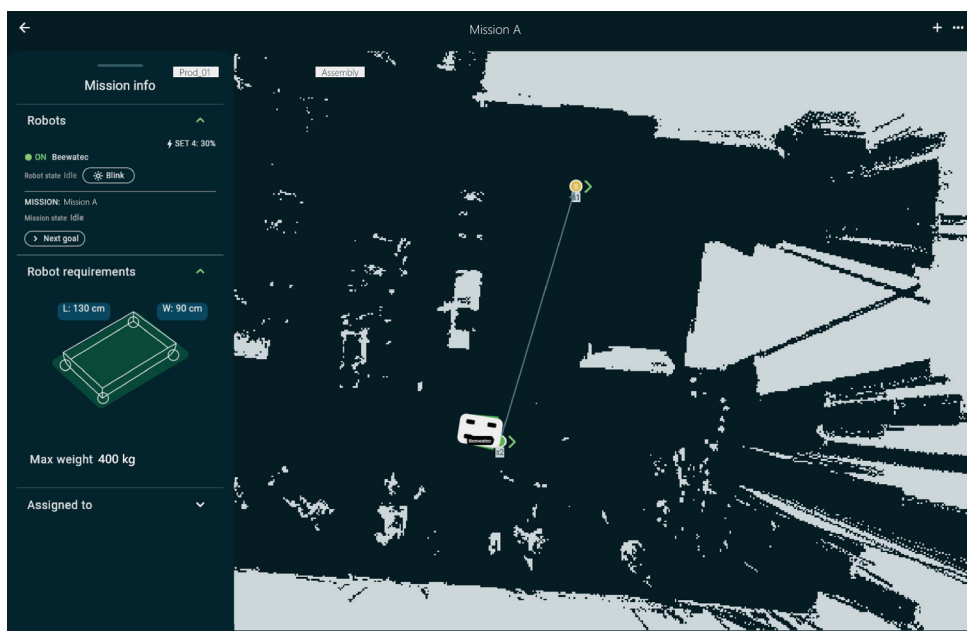
Control in the App, **FROM ALL DEVICES.**



- ✓ 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 per wheel (max.)	75 kg
Load capacity of a 4-wheel system (max.)	300 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

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

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Authorized partner

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

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

Switzerland

BeeWaTec AG

Wilerstrasse 68
CH-6062 Wilen (Sarnen)

Phone +41 (0) 62 891 00 00

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

Poland

BeeWaTec Sp. z o.o.

ul. Strefowa 25
PL-58-200 Dzierżoniów

Phone +48 (0) 74-661 8564

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

Romania

BeeWaTec EastTrade S.R.L

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

Phone +40 (0) 364-157-798

info@beewatec.ro

Baltics

BeeWaTec Baltics UAB

Chemijos g. 15
LT-51332 Kaunas, Litauen

Phone +370 69-51 17 74

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