



GoPal® P35

The **GoPal® AMR solution** from Robotize sets new standards for versatility, efficiency and safety in automated material transportation



TECHNICAL SPECIFICATIONS

GoPal® P35

APPLICATION

Autonomous Mobile Robot (AMR) for automatically picking up, transporting and delivering payloads up to 250 kg // 550 lbs using either custom top modules/equipment or top modules/equipment from leading suppliers.

PHYSICAL CHARACTERISTICS

Dimensions (LxWxH)	960 x 660 x 295 mm // 37.8 x 26 x 11.6 in	Weight	120 kg // 265 lbs
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PERFORMANCE

Battery time*	8-14 hrs. or up to 20 km // 12.5 miles	Turn radius (rob. centre)	660 mm // 26 in
Speed (max.)*	2,4 m/s (8,6 km/h) // 7.9 ft/s (5.4 MPH)	Drive type	Differential drive

NAVIGATION

Free navigation with support for hybrid localization.

LOAD

Payload (max.)	250 kg // 550 lbs
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INTERFACES FOR TOP MODULES

Mechanical	Top plate with 4 x threaded holes (M8 x 9 mm // 0.35 in)
Electrical	Power (24 V unreg. / 20 A fuse) Safety signals (PL d) Control signals (CAN/Ethernet)

SAFETY & COLLISION AVOIDANCE

2 x Laser scanners (360° protection)	Mechanical bumper (360° protection)
2 x Emergency stop buttons	Aural and visual warnings
1 x Truck light (green light on the floor in front of the robot)	6 x Integrated warning lights
3 x 3D-cameras (2 x front and 1 x rear)	Warning beacon (option)

FLOOR REQUIREMENTS

Gradient (max.)	±2 %	Edge height (max.)	2 mm // 0.08 in
Friction coeff. (min.)	0,70 // 0.70		



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LANE CONDITIONS

Lane width (min.)	960 mm // 37.8 in	Lane width (high-speed)	2600 mm // 102.3 in
Passage width (min.)	760 mm // 29.9 in		

ENVIRONMENTAL

Operating temperature	-10 °C to +45 °C // +14 °F to +113 °F	Humidity (max.)	95 % (non-condensing)
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COMMUNICATION

Wi-Fi	802.11ac
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BATTERY

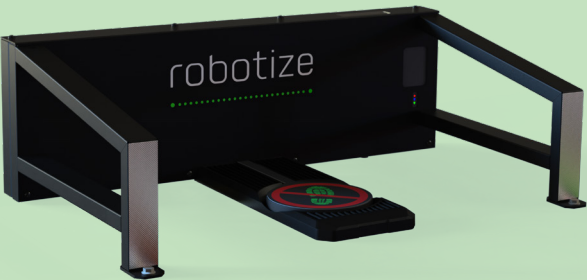
Type	LiFePO ₄ (LFP)	Charge time	45 minutes (30-95%)
Voltage	24 V nom.	Number of charges	About 5000

BATTERY CHARGING SYSTEM

Primary	Inductive (wireless)
Emergency charging	1 x USB-C

CHARGING STATION

Charging system	Inductive (wireless) 1000 W nom.
Dimensions (LxWxH)	505 x 790 x 258 mm // 19.9 x 31.1 x 10.2 in
Weight	20 kg // 44 lbs
Power	100-240 VAC (50-60 Hz)
Status indication	LEDs
Material	Steel and aluminium
Installation	4 x mounting holes (Ø 11 mm // 0.43 in)



**Depending on load conditions.*
Due to a policy of continued product development, Robotize reserves the right to change and/or amend any specification without notice.



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