



# GoPal<sup>®</sup> P35

The **GoPal<sup>®</sup> 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** 113 kg // 249 lbs

### 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

### 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 <sub>4</sub> (LFP)	Charge time	45 minutes (30-95%)
Voltage	24 V nom.	Number of charges	About 5000

### BATTERY CHARGING SYSTEM

Primary	Inductive (wireless)
Secondary	1 x USB-C (for emergency charging)

### 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.*

# robotize



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**Safe • Simple • Scalable**

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