

# GoPal® P35

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



# TECHNICAL SPECIFICATIONS

## GoPal<sup>®</sup> 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

**Length x Width x Height** 960 x 660 x 295 mm // 37.8 x 26 x 11.6 in

**Mass** 110 kg // 240 lbs

### PERFORMANCE

**Battery time (autonomy)\*** 8-14 hrs. or up to 20 km // 12 miles

**Turning radius (from robot center)** 660 mm // 26 in

**Speed (max.)\*** 2.4 m/s (8.6 km/h) // 7.8 ft/s (5.3 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)

**Electrical** Power (24 V unreg. / 20 A fuse)  
Safety Signals (PL d)  
Control Signals (CAN/Ethernet)

### SAFETY

2 x Laser Scanners (360° protection)

Mechanical bumper (360° protection)

2 x emergency stop buttons

### ADDITIONAL OBSTACLE AVOIDANCE SENSORS

3 x 3D cameras (2 x front / 1 x rear)

### FLOOR REQUIREMENTS

**Slope/gradient (max.)** ±2 %

**Edge height (max.)** 2 mm // 0.08 in

**Friction coefficient (min.)** 0.70

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### LANE CONDITIONS

<b>Passage width (min.)</b>	760 mm // 29.9 in	<b>Lane width (typical)</b>	2000 mm // 78.7 in
<b>Lane width (min.)</b>	960 mm // 37.8 in	<b>Lane width (high-speed)</b>	2600 mm // 102.3 in

### ENVIRONMENTAL

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

<b>Wi-Fi</b>	802.11ac	<b>Maintenance port</b>	1 x USB-C
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### BATTERY

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

### BATTERY CHARGING SYSTEM

<b>Primary</b>	Inductive (wireless)
<b>Secondary</b>	1 x USB-C (for manually charging robot)

### CHARGING STATION

<b>Charging system</b>	Inductive (wireless) 1000 W nom.
<b>Width x Height x Depth</b>	790 x 258 x 505 mm // 31.1 x 10.2 x 19.9 in
<b>Mass</b>	20 kg // 44 lbs
<b>Power</b>	100-240 VAC (50-60 Hz)
<b>Communication</b>	Wi-Fi (802.11ac) LEDs for status indication
<b>Material</b>	Steel and aluminum
<b>Installation</b>	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 alter, change and/or amend any specification without notice.*

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