

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	113 kg // 249 lbs
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PERFORMANCE

Battery time*	8-14 hrs. or up to 20 km // 12 miles	Turn rad. (rob. 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
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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 & 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 front and 1 rear)	Warning beacon (option)

FLOOR REQUIREMENTS

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

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LANE CONDITIONS

Lane width (min.) 960 mm // 37.8 in

Passage width (min.) 760 mm // 29.9 in

Lane width (high-speed) 2600 mm // 102.3 in

ENVIRONMENTAL

Operating temperature -10 °C to +45 °C // +14 °F to +113 °F

Humidity (max.) 95% (non-condensing)

COMMUNICATION

Wi-Fi 802.11ac

BATTERY

Type LiFePO₄ (LFP)

Voltage 24 V nom.

Charge time 45 minutes (30-95%)

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

Mass 20 kg // 44 lbs

Power 100-240 VAC (50-60 Hz)

Status indication LEDs

Material Steel and aluminum

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 alter, change and/or amend any specification without notice.

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