

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

PERFORMANCE

Battery time* 8-14 hrs. or up to 20 km // 12.5 miles Turn radius (rob. centre) 660 mm // 26 in Speed (max.)* 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.) $\pm 2\%$ 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)

COMMUNICATION

Wi-Fi 802.11ac

BATTERY

Type LiFePO₄ (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

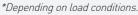
Power 100-240 VAC (50-60 Hz)

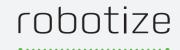
Status indication LEDs

Material Steel and aluminium

Installation 4 x mounting holes (Ø 11 mm // 0.43 in)







robotize

Advanced intralogistics **Safe • Simple • Scalable**