GoPal® P35

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

robotize



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 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

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

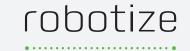
1 x Truck light (green light on the floor in front of the robot) 6 x Integrated warning lights

3 x 3D cameras (2 front and 1 rear) Warning beacon (option)

FLOOR REQUIREMENTS

Gradient (max.) $\pm 2\%$ **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 **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)

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

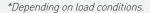
Power 100-240 VAC (50-60 Hz)

Status indication LEDs

Material Steel and aluminum

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







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Advanced intralogistics **Safe • Simple • Scalable**