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

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.)* Drive type Differential drive

eed (max.)* 2.4 m/s (8.6 km/h) // 7.8 ft/s (5.3 MPH)

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)

2 x emergency stop buttons

Mechanical bumper (360° protection)

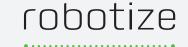
ADDITIONAL OBSTACLE AVOIDANCE SENSORS

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

FLOOR REQUIREMENTS

Slope/gradient (max.) $\pm 2\%$ Edge height (max.) 2 mm // 0.08 in

Friction coefficient (min.) 0.70



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LANE CONDITIONS

 Passage width (min.)
 760 mm // 29.9 in
 Lane width (typical)
 2000 mm // 78.7 in

 Lane width (min.)
 960 mm // 37.8 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 **Maintenance port** 1 x USB-C

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 manually charging robot)

CHARGING STATION

Charging system Inductive (wireless) 1000 W nom.

Width x Height x Depth 790 x 258 x 505 mm // 31.1 x 10.2 x 19.9 in

Mass 20 kg // 44 lbs

Power 100-240 VAC (50-60 Hz)

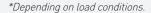
Communication Wi-Fi (802.11ac)

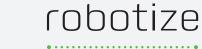
LEDs for status indication

Material Steel and aluminum

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







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Advanced intralogistics **Safe • Simple • Scalable**



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