GoPal® P35

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



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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 95 kg // 210 lbs

PERFORMANCE

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

Maximum speed 2,2 m/s (8 km/h)* // 7.2 ft/s (5 MPH)

Turning radius (from robot centre) 660 mm // 26 in

SAFETY

Laser scanners (360° protection)

Mechanical bumper (360° protection)

2 x emergency stop buttons

ADDITIONAL OBSTACLE AVOIDANCE SENSORS

3 x 3D cameras (two front facing and one rear facing)

BATTERY

Type / Voltage LiFePO $_4$ / 24 V nom. Charge time 45 minutes (30-95%)

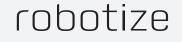
Number of charges About 5000

CHARGER INTERFACES

Wireless charging system (under robot)

Physical connector for manually charging (robot rear)

Due to a policy of continued product development Robotize reserves the right to alter or amend any specification without notice.



^{*}Depending on load conditions.

TECHNICAL SPECIFICATIONS

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COMMUNICATION

Wi-Fi 802.11ac

ENVIRONMENTAL

Operating temperature $-10 \,^{\circ}\text{C}$ to $+45 \,^{\circ}\text{C}$ // $+14 \,^{\circ}\text{F}$ to $+113 \,^{\circ}\text{F}$

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

FLOOR REQUIREMENTS

Slope average (max.)

Friction coefficient (min.)

Edge height (max.)

Near-level (2 %)

0,70 // 0.70

2 mm // 0.08 in

LOAD

 Load (max.)
 250 kg // 550 lbs

 Length (max)
 800 mm // 31.5 in

 Width (max)
 600 mm // 23.6 in

 Height (max)
 1200 mm* // 47.2 in*

INTERFACES FOR TOP MODULES

Mechanical Top plate with threaded holes

Electrical Power (24V / 20A unreg.)

Safety Signals (PL d)

Control Signals (GPIO/CAN/Ethernet)

LANE CONDITIONS

Minimum passage width 760 mm // 29.9 in

Minimum lane width 960 mm // 37.8 in

Recommended lane width 2000 mm // 78.7 in

High speed lane width 2600 mm // 102.3 in

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^{*}Depending on load conditions.

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Advanced intralogistics

Safe • Simple • Scalable