TECHNICAL SPECIFICATIONS



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GoPal® P35

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

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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* Speed (max.)*	8-14 hrs. or up to 20 km // 12.5 miles 2,4 m/s (8,6 km/h) // 7.9 ft/s (5.4 MPH)	Turn radius (rob. centre) Drive type	660 mm // 26 in 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.) Friction coeff. (min.)

±2 % 0,70 // 0.70

Edge height (max.)

2 mm // 0.08 in



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LANE CONDITION Lane width (min.) Passage width (min.)	S 960 mm // 37.8 in 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 Voltage	LiFePO ₄ (LFP) 24 V nom.	Charge time Number of charges	45 minutes (30-95%) About 5000

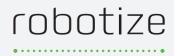
BATTERY CHARGING SYSTEM

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
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)





*Depending on load conditions.

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Advanced intralogistics Safe • Simple • Scalable

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