

# GoPal<sup>®</sup> P35

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



RAM SOLUTIONS, LLC

robotize  
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# TECHNICAL SPECIFICATIONS

## GoPal<sup>®</sup> P35

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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.

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### 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

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### 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

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### SAFETY

Laser scanners (360° protection)  
Mechanical bumper (360° protection)  
2 x emergency stop buttons

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### ADDITIONAL OBSTACLE AVOIDANCE SENSORS

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

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### BATTERY

Type / Voltage	LiFePO <sub>4</sub> / 24 V nom.
Charge time	45 minutes (30-95%)
Number of charges	About 5000

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### CHARGER INTERFACES

Wireless charging system (under robot)  
Physical connector for manually charging (robot rear)

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### COMMUNICATION

Wi-Fi 802.11ac

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### ENVIRONMENTAL

Operating temperature -10 °C to +45 °C // +14 °F to +113 °F

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

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### FLOOR REQUIREMENTS

Slope average (max.) Near-level (2 %)

Friction coefficient (min.) 0,70 // 0.70

Edge height (max.) 2 mm // 0.08 in

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### 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\*

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### INTERFACES FOR TOP MODULES

Mechanical Top plate with threaded holes

Electrical Power (24 V / 20 A unreg.)  
Safety Signals (PL d)  
Control Signals (CAN/Ethernet)

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### 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

\*Depending on load conditions.

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

\*\*\* Preliminary \*\*\*

# robotize



Advanced intralogistics

**Safe • Simple • Scalable**



RAM SOLUTIONS, LLC

\*\*\* Preliminary \*\*\*

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