

GoPal® U22W

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



TECHNICAL SPECIFICATIONS

GoPal® U22W

APPLICATION

Autonomous Mobile Robot (AMR) for automatically picking up, transporting and delivering US/UK pallets with low-to-medium payload (max. 500 kg // 1100 lbs)

DIMENSIONS

Length x Width x Height 1400 x 1060 x 340 mm // 55.12 x 41.73 x 13.39 in
Mass 242 kg // 534 lbs

PERFORMANCE

Battery time (autonomy) 6-14 hours or up to 20 km* // 12.4 miles*
Maximum speed 2.2 m/s (7.9 km/h) // 7.2 ft/s (4.9 MPH)
Turning radius (from robot center) 1000 mm // 39.4 in

SAFETY

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

ADDITIONAL OBSTACLE AVOIDANCE SENSORS

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

BATTERY

Type / Voltage LiFePO₄ / 48 V
Charge time 45 minutes (full charge)
Number of charges About 5000

CHARGER INTERFACE

Automatic docking interface (front)
Connector for manually charging (rear)

TECHNICAL SPECIFICATIONS

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COMMUNICATION

Wi-Fi 802.11ac

ENVIRONMENTAL

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

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

FLOOR REQUIREMENTS

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

Friction coefficient (min.) 0,60 // 0.60

Edge height (max.) 3 mm // 0.12 in

LOAD

Payload (max.) 500 kg // 1100 lbs

Length (max.) 1240 mm // 48.82 in (4.06 ft)

Width (max.) 1020 mm // 40.16 in (3.34 ft)

Height (max.) 2400 mm* // 94.50 in* (7.87 ft*)

PALLET TYPES

US or UK pallets.

PALLET CONDITION

Undamaged, original strength maintained

LANE CONDITIONS

Minimum lane width 1400 mm // 55.12 in (4.60 ft)

Recommended lane width 2300 mm // 90.50 in (7.55 ft)

High speed lane width 3000 mm // 118 in (9.84 ft)

**depending on load conditions*

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

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