TECHNICAL SPECIFICATIONS

GoPal® U22W

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

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APPLICATION

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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	LiFePO ₄ / 48 V
Charge time	45 minutes (full charge)
Number of charges	About 5000

CHARGER INTERFACE

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



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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
5 5	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.

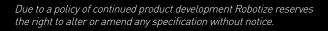
PALLET CONDITION

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





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Advanced intralogistics Safe • Simple • Scalable

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