GoPal® E22

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® E22

APPLICATION

Autonomous Mobile Robot (AMR) for automatically picking up, transporting and delivering standard Euro-pallets/half Euro-pallets with low-to-medium weight payload (max. 500 kg).

DIMENSIONS

Length x Width x Height 1400 x 860 x 340 mm

Mass 187 kg

PERFORMANCE

Battery time (autonomy) 6-14 hours or up to 20 km*

Maximum speed 2,4 m/s (8,6 km/h)*

Turning radius (from robot centre) 950 mm

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

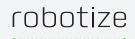
Charge time 45 minutes (full charge)

Number of charges About 5000

CHARGER INTERFACES

Automatic docking interface (at robot front)

Connector for manually charging (at robot rear)



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COMMUNICATION

Wi-Fi 802.11ac

ENVIRONMENTAL

Operating temperature -10°C to +45 °C

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

FLOOR REQUIREMENTS

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

Friction coefficient (min.) 0,60

Edge height (max.) 4 mm

LOAD

Payload (max.) 500 kg
Length (max) 1240 mm
Width (max) 820 mm
Height (max) 2400 mm*

PALLET TYPES

Standard Euro-pallets and Standard half Euro-pallets. Others on inquiry.

PALLET CONDITION

Undamaged, original strength maintained (grade A or B)

LANE CONDITIONS

Minimum lane width 1200 mm

Recommended lane width 2100 mm

High speed lane width 2800 mm



^{*}depending on load conditions.

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Advanced internal logistics made safe and simple