

PSR 1000R

Autonomous Mobile Robot

The PSR 1000R is a pallet stacking AMR with extended fork reach built to optimize pallet handling and high-density pallet storage in warehouse and manufacturing environments.



1 HUMAN-SAFE OPERATIONS



- ✓ PLd category 3 certified
- ✓ Laser safety fields respond before a person gets close
- ✓ No cages
- ✓ No zone restrictions

2 PRECISION PALLET STACKING



- ✓ 1.6 m (63 in) standard lift height
- ✓ 1000 kg (2204.62 lbs) payload capacity
- ✓ Horizontal reach of 0.6 m (23.62 in) for closed pallet

3 AUTONOMOUS NAVIGATION



- ✓ Detects obstacles in time, reroutes autonomously without interruption
- ✓ No floor tape, no manual intervention, no down-time

4 INTEROPERABLE ARCHITECTURE



- ✓ VDA 5050 compliant
- ✓ Enables vendor-agnostic scalability

5 REAL-TIME ALERTS & STATUS INDICATION



- ✓ Audio alerts for operator notification
- ✓ No screen dependency

6 MULTI-SIDE STATUS LIGHTING



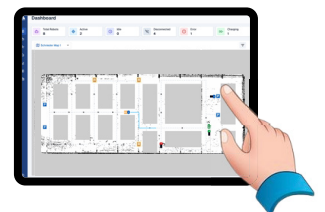
- ✓ LED indicators
- ✓ Workers know the robot's intent before it reaches them

7 OPPORTUNITY CHARGING



- ✓ Autonomous opportunity charging during task intervals sustains continuous operation without scheduled downtime

8 BUILT-IN MISSION CREATOR



- ✓ Configure tasks, update routes, and adapt to layout changes on the fly
- ✓ No programmer required, just an intuitive interface your team can own

Technical Specification



Sensors

- 2D LiDAR - 3 units
- 3D LiDAR - 1 unit
- 3D Camera - 2 units



Horizontal Reach

Up to 0.6 m (23.62 in)



Vertical Lift

Up to 1.6 m (63 in)



Max. Speed

4.32 km/h
(1.2 m/s or 2.68 mph)



Safety Control

PLd cat. 3 Safety Scanners,
Emergency Stop buttons
- 4 units



Dimensions

2750 x 1350 x 1500 mm
(108.20 x 53.15 x 59.05 in)



Max. Payload

1000 kg (2,205 lbs)



Communication

WiFi (2.4/ 5GHz)
802.11 (b/n/ac)



Charging Time

2 Hours



Docking Accuracy

X,Y : ± 10 mm (0.39 in)
Yaw : $\pm 1.5^\circ$



Run Time

8 Hours