

Forklift AMR

AFR-PJ-W1500 Series : Pallet Jack

Autonomous Pallet Jack. Industrial Reliability.

The **AFR-PJ-W1500** is a high-capacity pallet jack AMR engineered for fully autonomous ground-level pallet transport. With a 1500 kg rated load capacity and Laser SLAM navigation, it delivers precise pallet engagement and controlled material flow across warehouse and industrial environments.

Designed to replace manual pallet jacks and repetitive forklift operations, the AFR-PJ-W1500 ensures stable, efficient, and operator-free pallet movement within structured logistics workflows.



Intelligent Pallet Handling Control

Optimized for precise pallet engagement and controlled horizontal transport, ensuring stable and repeatable material flow across warehouse operations.

Advanced Safety Protection

360° laser scanning combined with rear obstacle detection ensures reliable human-robot interaction across dynamic factory floors.

Stable Fork Transport System

Balanced drive architecture and controlled steering ensure smooth pallet movement and reliable alignment in structured warehouse aisles.

Applications



Ground-Level Pallet Transport

Autonomous transfer of pallets between storage, staging, and production zones.



Dock-to-Storage Movement

Automated unloading and transfer from inbound docks to storage areas.



Production Line Supply

Consistent pallet delivery to manufacturing cells.



WMS-Integrated Transport Automation

Seamless coordination with warehouse management systems.

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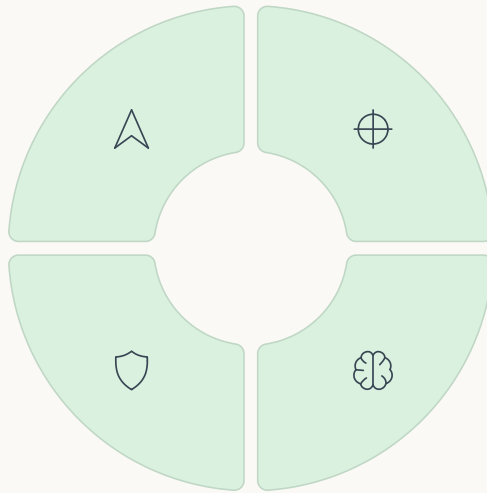
Features & Technical Specifications

Direct Fork Pallet Engagement

Integrated fork system enables controlled pallet insertion and extraction without pallet modification.

Long-Life Industrial Power System

2000 charge cycles with manual or automatic charging support extended warehouse operation.



Precision Steering Control

Single rudder wheel drive ensures accurate alignment within warehouse aisles.

Laser SLAM Autonomous Navigation

Reliable localization and mapping for accurate movement within structured warehouse layouts.

Technical Parameters

Product Model	AFR-PJ-W1500
Dimensions (L×W×H)	1608 × 830 × 1910mm Load Center: 600 mm
Lift & Fork System	Rear Fork Height After Lift: 200 mm Min Fork Height: 84 ± 3 mm Min Pickup Channel: 2000 mm
Drive & Navigation	Single Rudder Wheel Drive Laser SLAM Navigation
Load Capacity	1500 kg rated Machine Weight: 420 kg
Safety Features	Laser + Visual + Photoelectric Sensors Safety Contact Edge Collision Bar Detection Emergency Stop Acoustic & Optical Alarms
Motion Performance	Max Speed : 1.2m/s(No load) ±10 mm Position Accuracy Climbing: 3° (5%)
Battery Performance	Manual/Automatic + Manual Battery Replacement 6h runtime 2000 Charge Cycles

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