

Ati / ROBOTICS

SHERPA PALLET MOVER

ROBUST | ACCURATE | CONSISTENT



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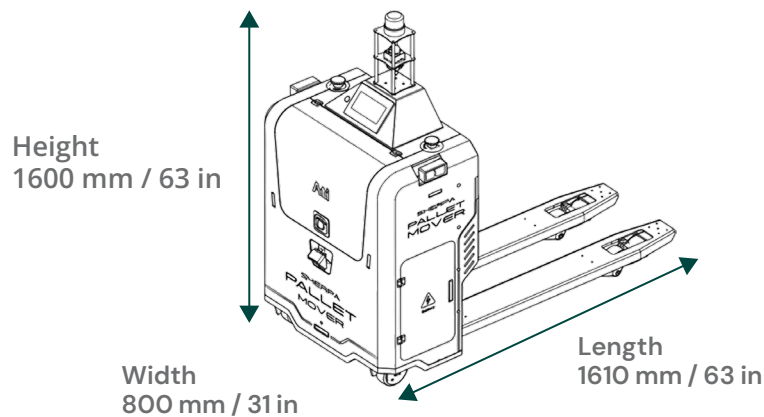
The Sherpa Pallet-Mover (AMR) streamlines warehouse operations by autonomously lifting and transporting pallets. Utilizing a combination of LiDAR sensors, cameras, and mapping technology, it dynamically navigates while avoiding obstacles. Streamline operations, minimize manual labor, and accelerate order fulfillment with this efficient solution.

Automated Solutions

- AI Pallet Detection
 - Obstacle Avoidance
- ERP Integration
 - Fleet operation

Sherpa Specifications

Physical Specs



Operation

WEIGHT	450 Kg	992 lb
SENSORS	3D LiDAR, 2D LiDAR and camera	
GROUND CLEARANCE	25 mm	1 in
AISLE WIDTH REQUIRED	>1.8 m / 71 in on straights >2.5 m / 98 in for docking	
MAX SPEED	Up to 1.2 m/s	Up to 2.7 mph
TURNING RADIUS	1.7 m	67 in
GRADIENT	< 2%	
TEMPERATURE	+5°C to +45°C	+41°F to +113°F
LIFTING CAPACITY	1500 kg	3300 lb
LIFTING STROKE	100 mm	4 in
POSITION ACCURACY	± 20 mm ± 2 deg	

Battery

TYPE	51 V NMC Lithium-ion (Swappable)	
WEIGHT	18 Kg	40 lb
RUN TIME	8 Hrs	
CHARGING TIME	2 Hrs	
CAPACITY	55 Ah	

Features



Light Conditions

Can even handle twilight and dark mode operations



Natural Navigation

No infrastructure changes needed



Swappable Battery

Enables Multiple shifts with low down time



Industry 4.0 Ready

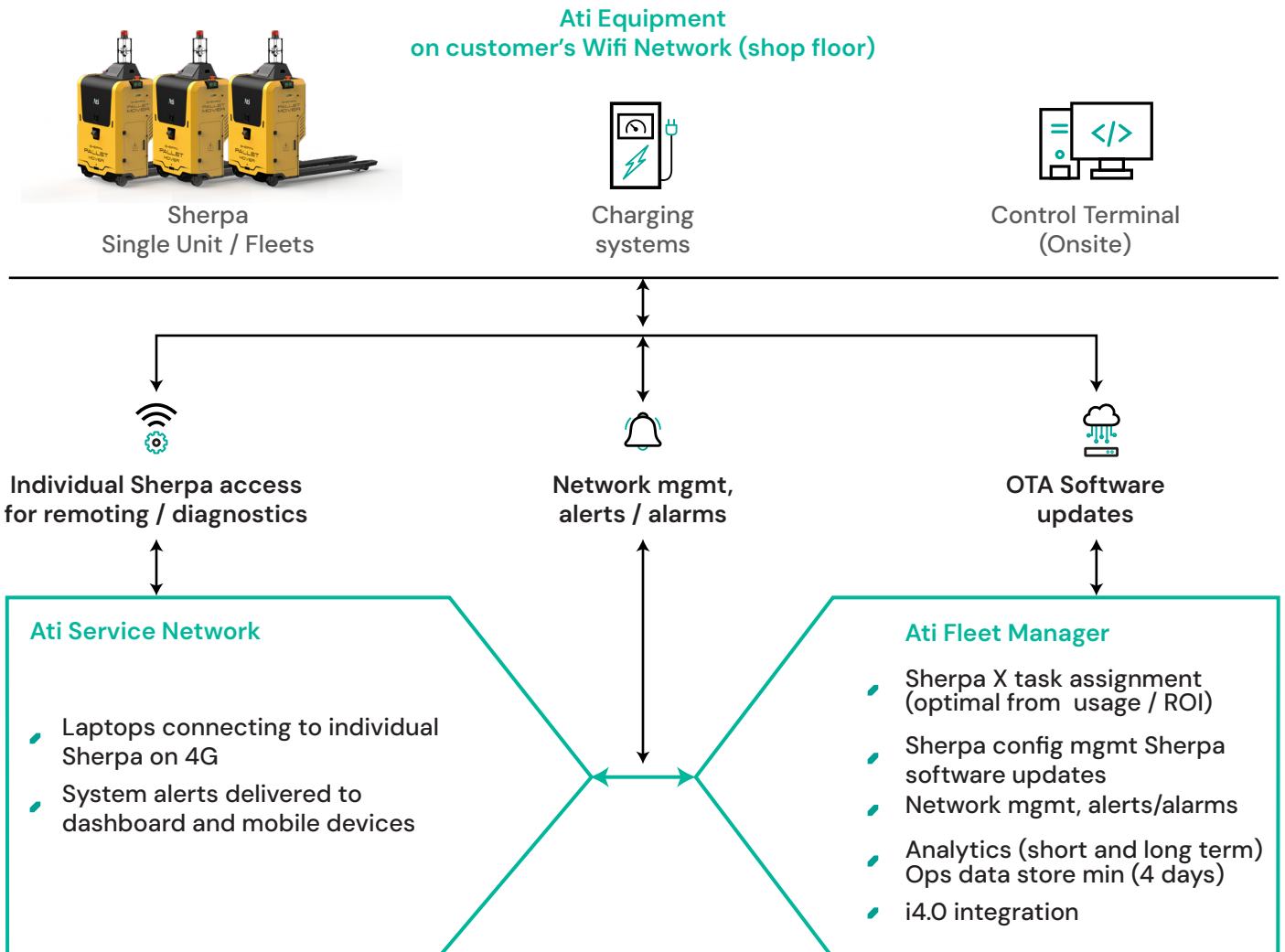
Can be integrated with Factory MAS, WMS



OTA Updates

Sherpa is constantly updated to its latest

Sherpa Fleet Managed On Ati Fleet Manager



Ati Fleet Manager Offers

- VDA 5050
- Fleet Analytics & Scheduler
- Fleet Diagnostics

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Sensor Coverage



Autonomy Safety Compliance ISO 3691- 4

USA | Mexico | South East Asia | India

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