

**Ati** / ROBOTICS

# SHERPA FLEXFORK

ROBUST | ACCURATE | CONSISTENT



# SHERPA FLEXFORK

The Sherpa-FlexFork is a versatile AMR that autonomously lifts and transports trolleys using a single robust fork. With advanced LiDAR, cameras, and mapping tech, it navigates dynamically and handles up to 500 kg / 1102 lb. Streamline operations, reduce manual effort, and boost warehouse efficiency with this multi-purpose solution.

## Automated Solutions

- AI Pallet/Trolley Detection
- ERP Integration
- Manual Override
- Obstacle Avoidance
- Fleet operation

## Sherpa Specifications

Physical Specs	LENGTH	1237 mm	48.7 in
	WIDTH	538 mm	21.2 in
	HEIGHT	1198 mm	47.2 in
	WEIGHT	160 Kg	352.7 lb
	SENSORS	3D LiDAR, 2D LiDAR and Camera	
	GROUND CLEARANCE	30 mm	1.2 in
Operation	AISLE WIDTH REQUIRED	>1.2 m	> 47 in
	MAX SPEED	Up to 1.2 m/s	Up to 2.7 mph
	TURNING RADIUS	In-place turn	
	GRADIENT	< 2%	
	TEMPERATURE	+5°C to +40°C	+41°F to +104°F
	LIFTING CAPACITY	500 Kg	1100 lb
	LIFTING STROKE	150 mm	5.9 in
	POSITION ACCURACY	± 30 mm, ± 3 deg	
Battery	TYPE	51V 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 Equipment  
on customer's Wifi Network (shop floor)



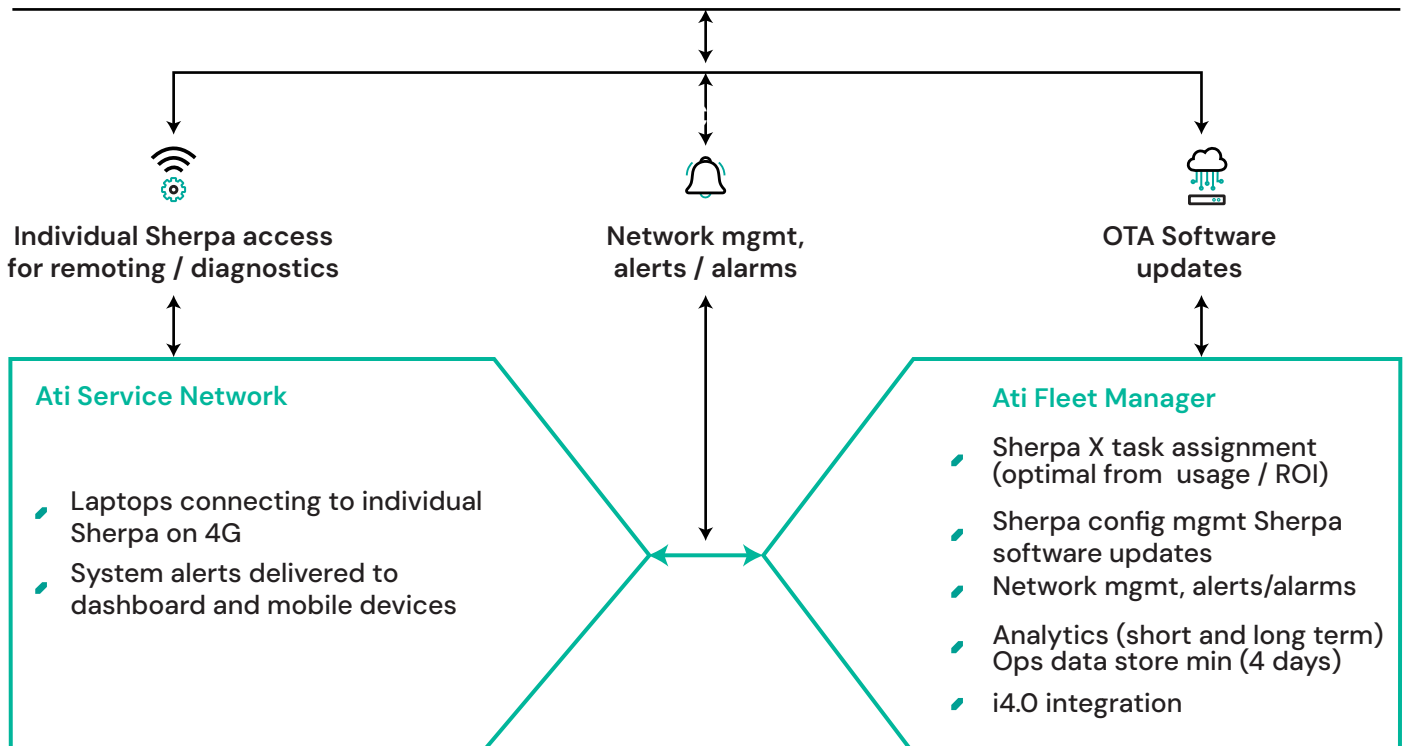
Sherpa  
Single Unit / Fleets



Charging  
systems



Control Terminal  
(Onsite)



## 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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