

Ati

SHERPA LIFTER

CUSTOMIZABLE | ROBUST |
PRECISE



SHERPA LIFTER

Enhance your warehouse efficiency with the Lifter, an advanced autonomous mobile robot designed to streamline operations by transporting pallets, trolleys, racks, and magazines effortlessly. First in class, two 3-D LiDAR based natural navigation. Its configurable design makes it compatible for Tunneling, Lifting as well as Roller top application.

Automated Solutions

- ✔ Pallet Handling
- ✔ Conveyor Transfer
- ✔ Auto Charging
- ✔ Custom Lifting Applications
- ✔ Tunneling of Trolleys
- ✔ Dual Direction Travel

Sherpa Specifications

| | | | |
|----------------|----------------------|----------------------------------|----------------|
| Physical Specs | LENGTH | 1200 mm | 47 in |
| | WIDTH | 800 mm | 32 in |
| | HEIGHT | 415 mm | 16in |
| | WEIGHT | ~ 350 Kg | 772 lb |
| | SENSORS | 3D Lidar and Camera | |
| | IPX RATING | IPX4 | |
| | GROUND CLEARANCE | 30 mm | 1 in |
| Operation | AISLE WIDTH REQUIRED | >1200 mm | > 47 in |
| | MAX SPEED | 1.5 m/s | 3.3 mph |
| | TURNING RADIUS | In-place turn | |
| | GRADIENT | Upto 2% | |
| | TEMPERATURE | +5°C to +45°C | +41°F to 113°F |
| | LIFTING CAPACITY | 1000 Kg | 2200 lb |
| | LIFTING STROKE | 50 mm | 2 in |
| | POSITIONAL ACCURACY | ± 0.8in ± 2 degree | |
| 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 software

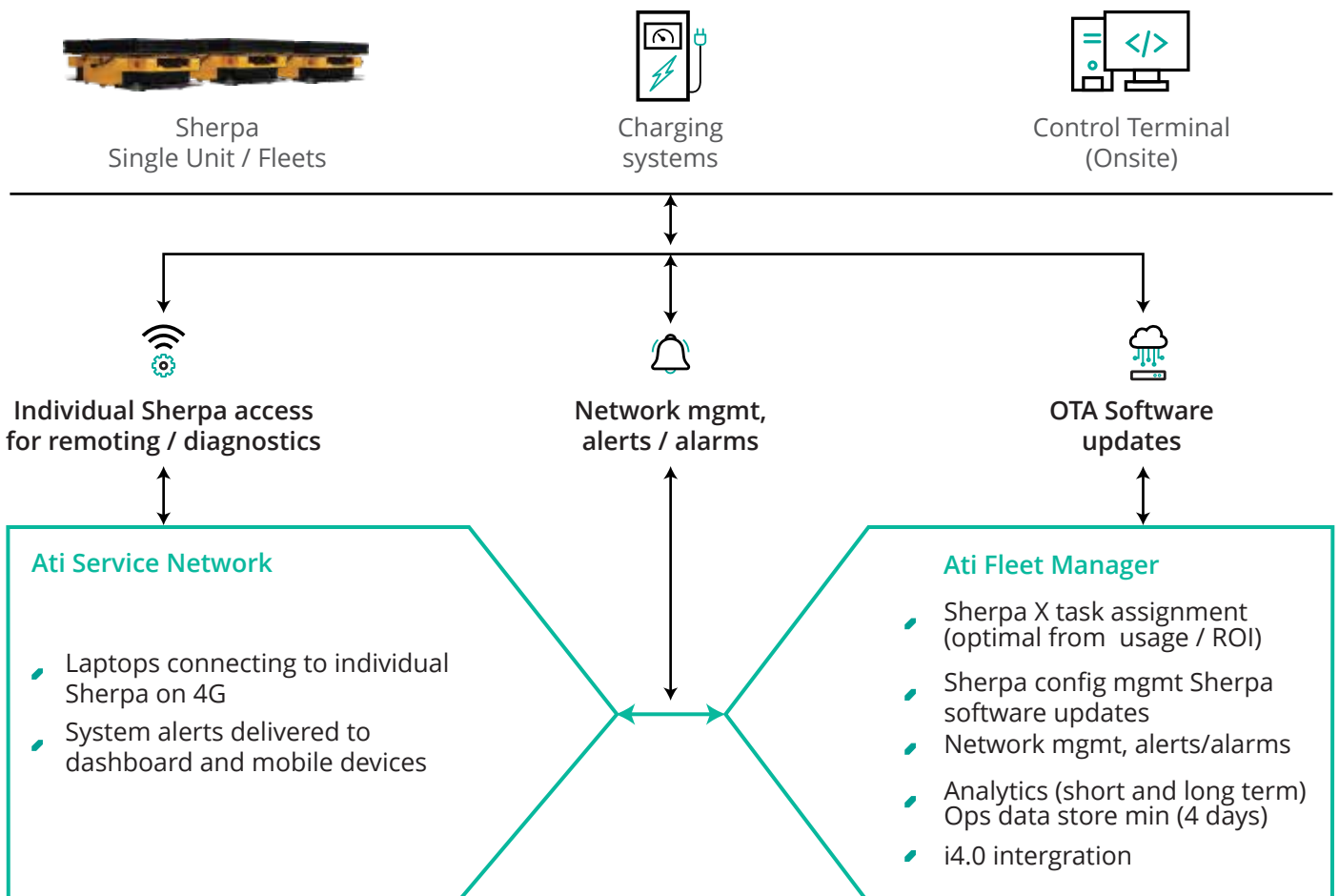


Custom Attachments

Conveyor Top/ Trolley
Plate/Pallet Plate/ Tunneling
Pin

Sherpa Fleet Managed On Ati Fleet Manager

Ati Equipment
on customer's Wifi Network (shop floor)



Ati Fleet Manager Offers

- VDA 5050
- Fleet Analytics & Scheduler
- Fleet Diagnostics

Sherpa Lifter

Efficient & Reliable
Load Handling



Sensor Coverage

Lidar 59°

Lidar 59°

Camera 58°

Camera 58°



Autonomy Safety Compliance ISO 3691-4

USA | Mexico | South East Asia | India | Europe

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