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# Ati Sherpa - More than an AMR

We add automation, reliability, efficiency and safety to your material movement needs.



**Sherpa - AI in Motion**

# Why Choose Sherpa ?

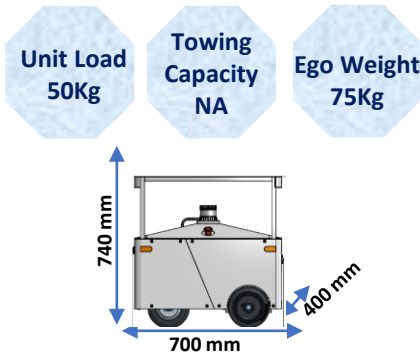
- ❑ Autonomous Material Movement in Industrial Environments – Indoor & Outdoor. This increases the operational space from factory floor to yard level autonomy and also in-campus road network.
- ❑ The original algorithms help achieve robust autonomy in various lighting conditions (including complete darkness), floor quality (including chipped, rough or oily) and gradient.
- ❑ Sherpa uses 3D LIDARs in a similar fashion as public road autonomy platforms but with original algorithms suited for the industrial environment. It sees much more of the world compared to a 2D LIDAR's worm's eye view and makes for robustness across a variety of environments.
- ❑ Sherpa is an Industry 4.0 and Industrial IoT ready product. Its advanced API allows integration with other IoT products and ERP systems.
- ❑ The setup is quick with no infrastructure required and it is compatible with cellular network also in addition to Wi-Fi.

## Infrastructure Agnostic

<b>Aisle Width</b>	1 to 1.5 m
<b>In Place Turn</b>	Available
<b>Configurable speed</b>	Up to 1.5m/s
<b>Floor Condition</b>	Tough ( Oil, Chipped etc)
<b>Modes</b>	Indoor & Outdoor
<b>Lightning Conditions</b>	Twilight, dark, light (Any)
<b>Environment</b>	<ul style="list-style-type: none"><li>• Temp +5°C to +40°C</li><li>• Humidity (5% - 90% non-condensing)</li><li>• Splash proof</li></ul>

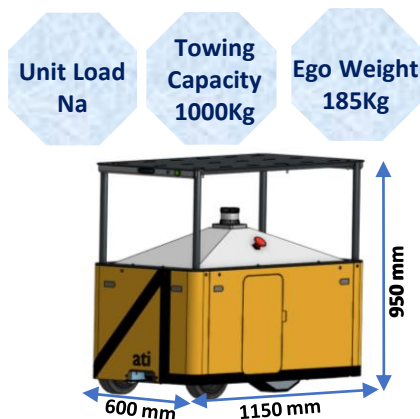
# Sherpa Lite

The Sherpa Mini is an autonomous, electric, compact carrier with a unique 3 wheel tadpole design for agility and maneuverability. Ideal for mounting sensors or carrying small payloads.



# Sherpa Tugger

The Sherpa Tug is an autonomous, electric, 1-ton cargo carrier with a unique 3 wheel tadpole design for agility and maneuverability.



## Sherpa Specification

<b>Battery Life</b>	Li-ion battery , Swappable, 8 Hours
<b>Charging Time</b>	2 Hours
<b>Turning Radius</b>	0.5 -2 m
<b>Max. Speed</b>	1.5 m/s for shop floor ( internal ops )
<b>Braking Distance</b>	0.5 m ( at 1m/s)
<b>Gradient</b>	Up to 2%
<b>Tyres</b>	Solid Rubber Tyres
<b>Brakes</b>	Electro – Mechanical Brakes
<b>Sensors</b>	Lidar (3D), Camera, IMU, Wheel Encoder
<b>Software Updates</b>	OTA
<b>Support</b>	Tele Assist over 4G or Wi-Fi
	Self diagnostics and Remote diagnostics
	Customer dashboard - ego-view visualization