



SHERPA-D

Autonomous mobile robots - for dollies

Safe, Collaborative, Intuitive, Multipurpose

Components and features at the highest regulatory level (ISO 3691-4)

SAFETY

Lidar
360° navigation sensor for robust and reliable localisation

Safety sensors
manage the virtual environment around the robots and spot obstacles on the floor

3D Camera (option)
navigation aid option, increases safety in specific environments

Safety electronics
validates in real time that the sensors are operational and that the given instructions are correct

Avoidance function
avoids obstacles by using workaround algorithms



VISIBILITY

Buzzer sound
warns the presence of the robot

Identification leds
indicate the status of the robot

Bluespot
better visibility in the area nearby

COMMUNICATION

Wifi (dual band)
connection for fleet operation, administration and maintenance

USB Interface
for software updates and upgrades

Cyber-safety
a particularly secured architecture based on a Windows10 protection via Docker

AVAILABILITY

Inductive charging
guarantees permanent availability

Touchscreen
Unlocking and initiating transport orders

FEATURES

Main objective

Transport of dollies

Payload

Up to 250kg

Driving directions

One way

Speed (up to)

1 m/s or 3.6km/h

Dimensions

1050 x 400 x 850mm

Maximum slope

5%

Dollies size

600x400mm

Max. loading height

1200mm



MAPPING

SHERPA records the data of the environment in which it has to operate with proven tracking and robust localisation technology

FOLLOW ME MODE

SHERPA follows smoothly the operator and cooperates with him thanks to its on-board sensors

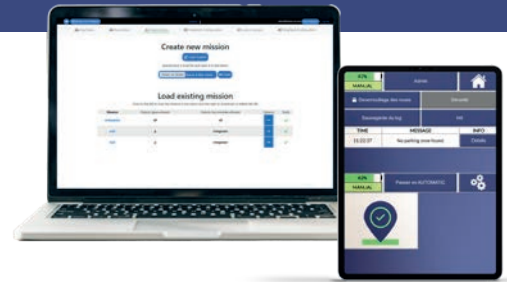
AUTONOMOUS NAVIGATION

SHERPA moves in complete safety and autonomy thanks to a highly optimised navigation intelligence

FLEET MANAGEMENT

SHERPA has a robot manager who supervises the fleet in real time (positions and mission priorities)

OTHER TECHNICAL SPECIFICATIONS



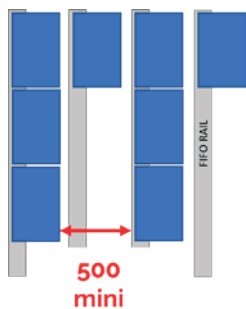
Compatible dollies



Compatible rails



Minimum width between two trolleys in the FIFO rails



Available dimensions under the cart

