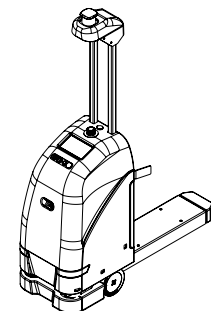
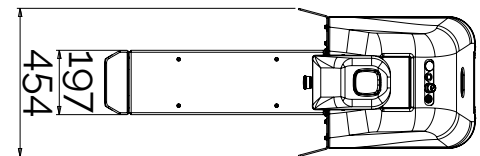
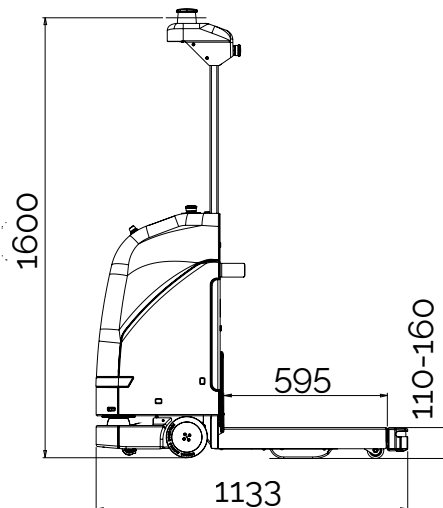
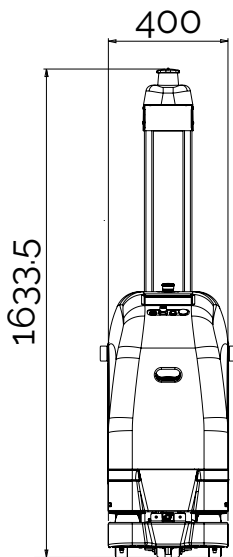


## SHERPA MOBILE ROBOTICS



### SHERPA® : SMART & MOBILE COLLABORATIVE ROBOTS

### Datasheet SHERPA-D



#### Technical specifications

Payload capacity	Up to 250kg
Operating modes	Follow-Me and autonomous, with or without fleet management
Driving directions	One way
Control panel (HMI)	7-inch touchscreen
Total weight (battery included)	137 kg
Color	White «trafic» / RAL 9016 - Grey / RAL 7044
Maximum height of the stack of bins transported	1200mm
Maximum height of the stack's center of gravity	650mm

#### Performances

Maximum speed	Up to 1.1 m/s or 4km/h
Operating autonomy	Inductive charging - guarantees permanent availability ( <a href="#">datasheet</a> )
Power of traction motors	2x315W (nominal) Brushless DC
Turning radius (around the robot's centre)	00 mm (turns on itself)
Positioning accuracy (in docking phase)	+/- 10 mm in the axis of motion +/- 30 mm perpendicular to the axis of motion
Stroke of the fork	50mm

## Environment

Protection class	IP 20
Operating environment	Indoor (smooth and clean floor)
Operating temperature	From 5 to 50°C (humidity from 10 to 90 % non-condensing)

## Communication et signalling

Wifi	Dual-band wireless (2,4GHz & 5GHz)
Interface	USB (for updates)
Visuel signalling	4 multicoloured identification LED strips and Bluespot in front
Sound signalling	Loudspeaker

## Safety around the robot

CE compliance according to NF EN ISO 3691-4 standard (see CE certificate for more information)

## 2D Lidar - 360° laser navigation sensor

Pepperl&Fuchs R2000	
Scope of the protective field	30m
Laser typ	Class 1
Method of measurement	Pulse Ranging Technology (PRT)
Scanning speed	10 - 50trs/s
Resolution	1mm
Detection height	1600mm

## Avoidance and positioning sensors

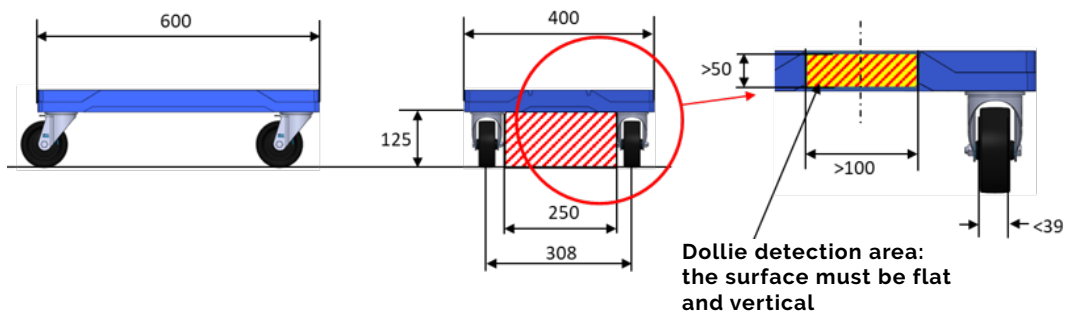
Sick Nanoscan	
PL d (EN ISO 13849)	
Detection high	130mm
Scope of the protective field 3 m	3m
Laser typ	Class 1
Scanning angle	2 x 270 °
3D vision system (option)	Consult us

## Bracking system

Emergency braking	Dynamic braking Pld (EN ISO 13849)
Parking braking	Braking by lack of power

## Base and rails compatibility

Type of transported dolly	600x400 with swivel casters (or not) diameter 100
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## Typ of rails to use

ORGATEX: FiFo-Monorail 40 mm (MONO-BP-...), FiFo-Monorail 55 mm (MONO-BP-55-...),  
Monorail individuell (MONO-SP-...-V), FiFo Bahnhof (FIFO-BP-...)  
FATH: Führungsschiene FIFO (02082P-...), FIFO-Monorail-Schiene 40 (02082PO-...)  
BOSCH REXROTH: Rail de guidage (3842540012)