

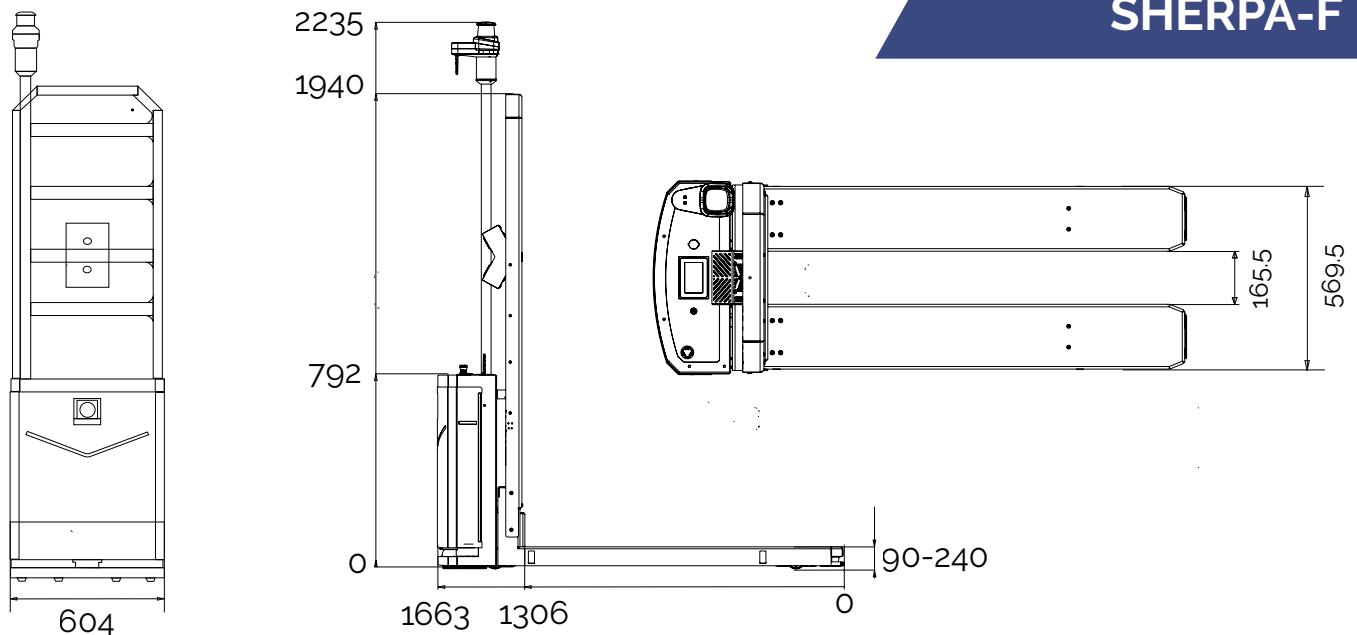
SHERPA

MOBILE ROBOTICS



SHERPA® : SMART & MOBILE COLLABORATIVE ROBOTS

Datasheet SHERPA-F



Technical specifications

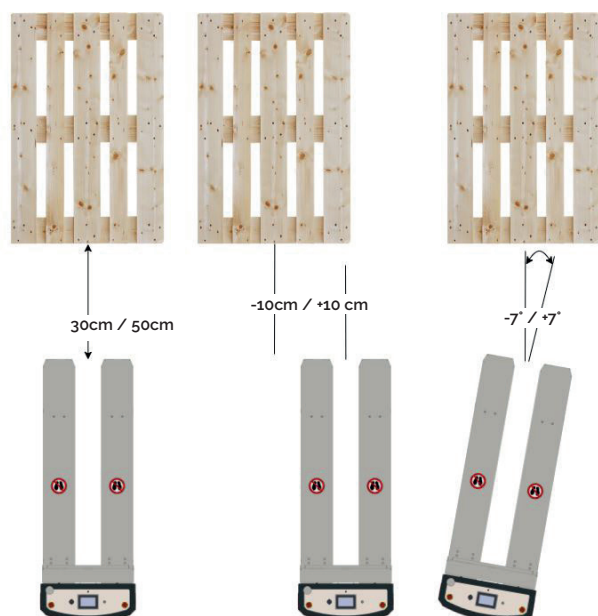
Payload capacity	Up to 1 200kg
Operating modes	AGV / AMR
Driving directions	Omnidirectional
Control panel (MMI)	Touche screen 4.3 inch
Total weight	222 kg
Color	White and black / forks : stainless steel
Maximum height - center of gravity of the load	1 300mm
Maximum slope	0%
Maximum step	+/- 5 mm (depending speed)

Performances

Maximum speed	1.5 m/s
Operating autonomy	4 h (with 2 batteries / 1 in each fork)
Battery	LiFePo4 Technology/ 1h30 for full load (0 to 100%)
Maximum load current	20A
Motor torque	394 N m x 4 blocks

Turning radius (around the robot's centre)	1 704mm or 1 783mm with europallet
Positioning accuracy (in docking phase)	+/- 1 cm
Fork length	1300mm
Fork stroke	From 90 to 240mm
Environment	
Protection class	IP20
Operating environment	Indoor (smooth and clean floor)
Operating temperature	From 5 to 50°C (Humidity 10 to 90% non-condensing)
Communication and signalling	
Wifi	Dual-Band Wireless (2,4GHz & 5GHz)
Interface	API rest and API mqtt
Visual signal	Identification LEDs on hood and mast / Redspot at the front
Sound signal	Buzzer
Safety around the robot	
Standard	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
Maximum measuring distance	30m
Laser type	Class 1
Method of measurement	Pulse Ranging Technology (PRT)
Scanning speed	10 - 50tr/s
Resolution	1mm
Detection height	2235mm
3D vision system (option)	Consult us
Braking system	
Emergency braking	Dynamic braking : Pld (EN ISO 13849)
Parking braking	Braking by lack of power / safe stop

Pallet identification



Charging station identification

