SHERPA JUIN MOBILE ROBOTICS

SHERPA®: SMART & MOBILE COLLABORATIVE ROBOTS

The safest, easiest and quickest solution to reduce pain, automate your transfers, streamline flows and increase productivity





MADE IN EUROPE

Your Move to Smart Mobility

SHERPA®: un AMR (Autonomous Mobile Robots) non dédié

RECEPTION / STORAGE Arrivals at the main store

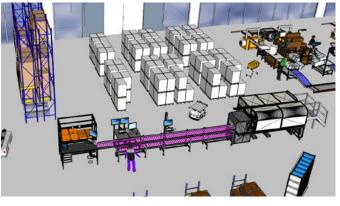


ASSEMBLY / PACKAGING Movements in production and assembly operations



REPLENISHMENT

Transfers to stores / points of consumption

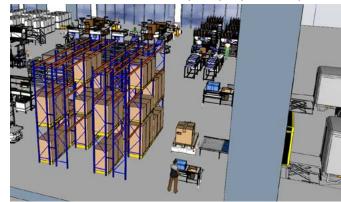


PICKING-KITTING / CROSS-DOCKING

Preparations and transfers on pallets and bins



SHIPMENT Transfers to stores / transport preparation points





RETURNS MANAGEMENT Pallets & bins management



SHERPA®: a versatile AMR (Autonomous Mobile Robots)

A collaborative robot operating as close as possible to operators

····· It operates among People and Machines, in the midst of work areas and in crowded spaces

The symbol of a new generation of industrial mobility

:.... It is highly autonomous and integrates quickly into your existing and new processes

An agile solution for the transformation to Factory 4.0 and the digitised supply chain

Unlike AGVs that have specific routes, AMRs are completely free and adapt themselves to dynamic environments



Specific routes



Free routes

"Our autonomous mobile robots are equipped with state-of-the-art technologies allowing them to navigate accurately within a given perimeter, avoid obstacles and move about without the risk of collision"

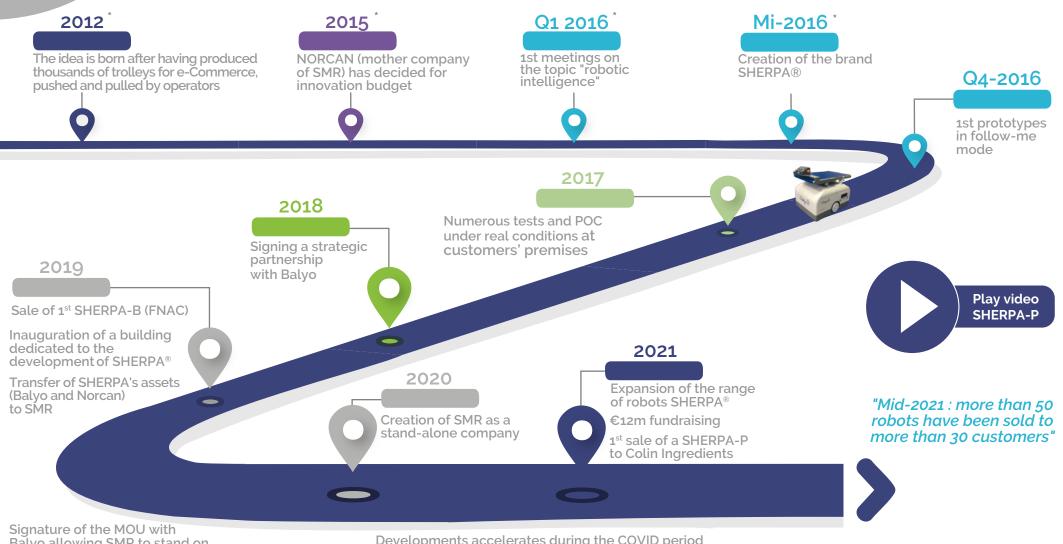


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Origin of SHERPA® and SMR : a coherent and already robust history

"SMR : 5 years of developments, experience and technological advances"



Balyo allowing SMR to stand on its own feet

Developments accelerates during the COVID period



*Made by NORCAN, SHERPA parent company and Expert in tailor-made industrial equipment for more than 30 years **Handled by NORCAN's Innovation Department

A 100% mobilized team and perfectly adapted facilities



"SMR has all the skills to complete your projects successfully : hardware development & software, industry and production, customer support"



An approach focused on your needs and the reality in the field









Less pain and risks in the transport of loads



Much more productivity through the drastic reduction of low value-added tasks



Greater flexibility and space savings by tending towards the «one-piece-flow»



Allows innovative transformation to factories 4.0

In short : high operative and economical profits for our customers

Return on Investment : 12 to 18 months



We match Business Experts to our skills to respond to as many use cases as possible



Unique features for a solution to match your expectations



Safe alongside people, obstacles and transported material

Equipped with obstacles avoidance function, reversible to adapt to narrow routes

Design reference applying to the field of driverless trucks : ISO 3691-4 and VDA 5050



Plug & Play : requires no changes neither to existing facilities nor to customer's IT systems

Easy to setup and operate, simple user interfaces



Able to combine «follow-me» and «autonomous» modes, and to operate in fleet management

Less pain, more ergonomics and less non value-added tasks, brings more flexibility, streamlines flows

Improved learning and interactions between Man and Machine



Options adapted to a large spectrum of use cases, sold complete and ready for use

Customers are keeping control to adapt configurations and missions by themselves



"Around our robots, we offer a tailor-made and experienced support to answer a maximum number of applications"



Components and features meeting the highest regulatory requirements

Secure architecture

Based on the latest version of

LINUX and protected by Windows 10

Lidar

360° navigation sensor and reliable localisation system

Avoidance sensors

Spot obstacles in both directions

Safety electronics

SAFETY

Validates that the instructions given to external elements (motors, sensors, etc.) are correct

via Docker

CYBER-SAFETY

Buzzer sound Warns the presence of the robot

Identification leds Indicate the status of the robot

Bluespot Better visibility in the area nearby

. Wifi (dual band) Connection for administration and maintenance

USB interface For updates of softwares



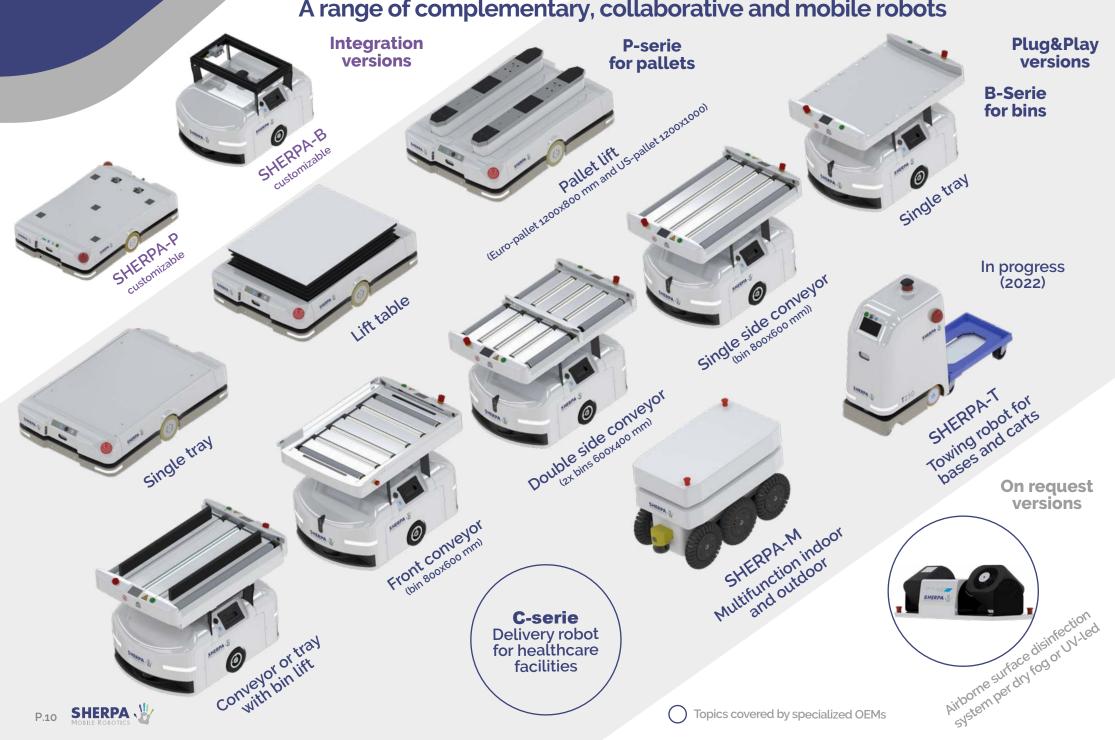
Extractable battery rack or inductive charging Provides permanent availability



Touchscreen Unlocking and initiating sequences

"When installing a SHERPA robot, you won't have to worry about the safety concept. Our electronics and equipment meet current standards and so much more"

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A range of complementary, collaborative and mobile robots

Many options to meet to your needs

	SHERPA-B		SHERPA-P		SHERPA-T (2022)	SHERPA-M (2022)
Main objective	For bins		For pallets		Towing for bases	Multifunction
Payload (up to)	100 kg	200 kg	500 kg	1.000 kg	250 kg	200 kg
Speed (up to)	7 km∕h	4 km/h	7 km∕h	4 km/h	3.6 km/h	4 km/h
Dimensions	950 x 600 x 650		1350 x 950 x 350		1050 x 400 x 850	Modular dimensions in width



A rolling base which allows to choose :

the type of payloads, the operating modes, the driving direction, the user interface ...



Adaptable and standardized top modules, integrated into the safety loop : fixed or specific tray, type of conveyor for automated loading/unloading operations



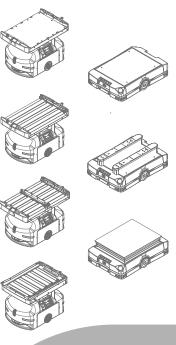
A configurable software-suite :

creation and modification of maps, definition of zones and missions, communication with external components, fleet management, etc...



A growing number of ready-to-use industrialized options : induction charger or battery charging unit, remote touch-screen, beside-me, integrating weighing system, ...

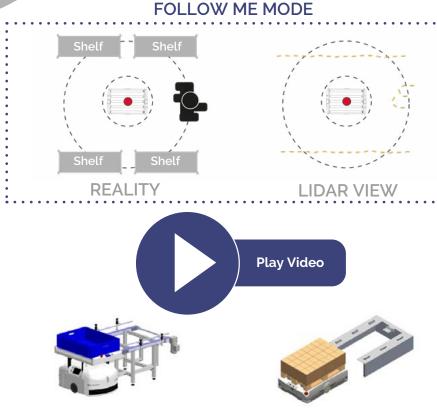
"Its two-way operation allows it to move in narrow and congested areas"



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An agile combination of Follow Me and autonomous modes

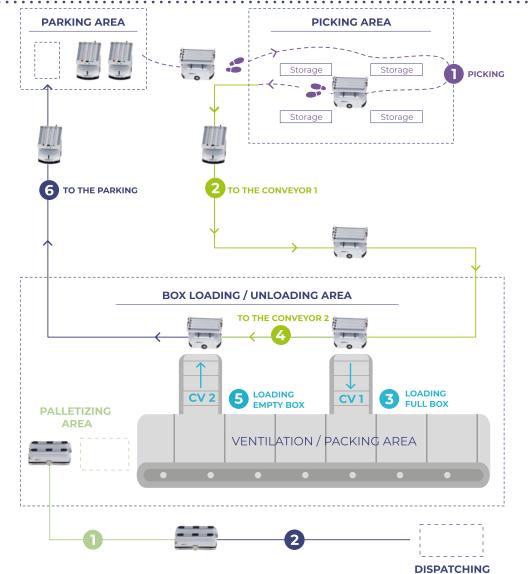


What uses for this mode?

Immediately operational without programming, it makes it possible to pick orders by following the operator faithfully using its many sensors

Make and edit your own mapping easily and completely independently

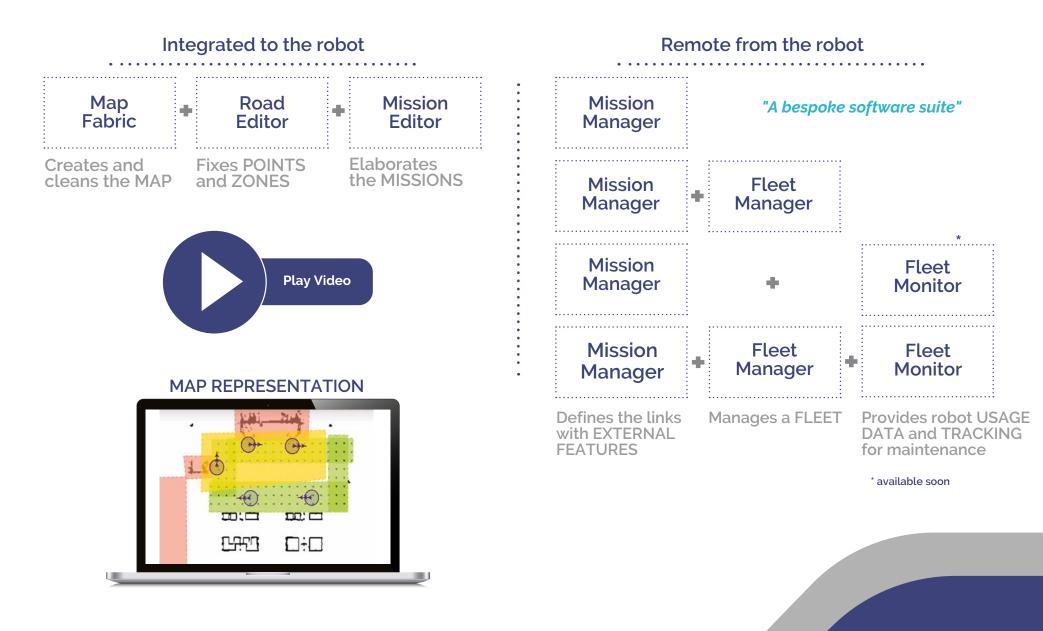
"20 to 30% more productivity for order preparation 100% less pain in movements"



EXAMPLE OF APPLOCATION : FOLLOW ME & AUTONOMOUS MODE



Smart software modules, easy to setup and operate

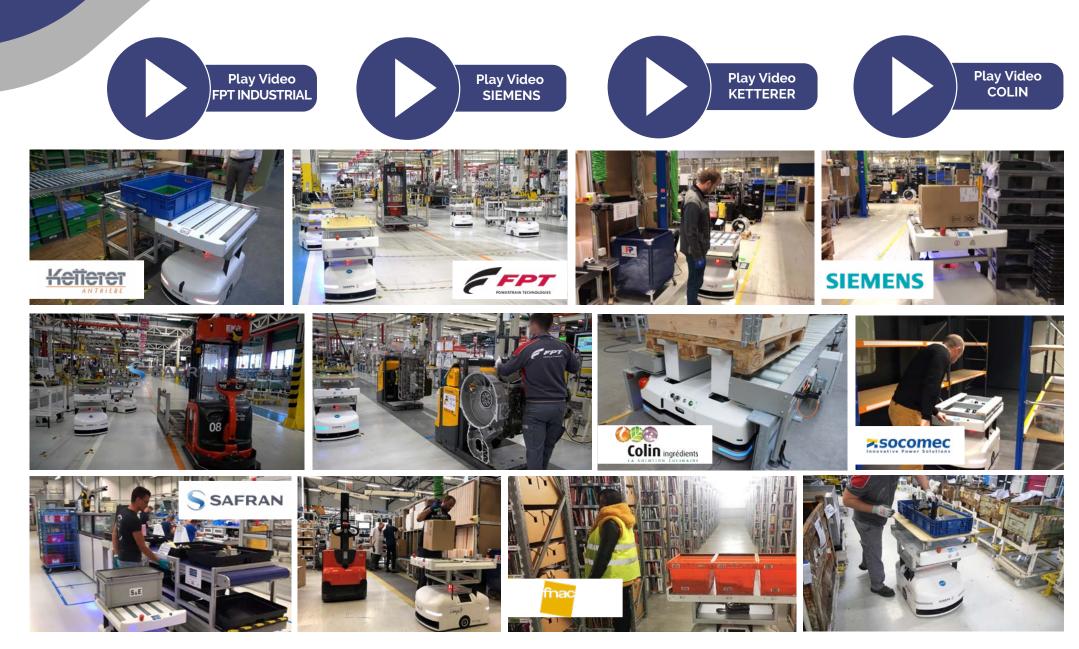


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"SHERPA is equipped with reliable and proven location technology, enabling the robot to find its way at all times and avoid unmapped obstacles"



Customer's success stories



"The Robots are used 20 hours a day. In total over one day, 450 robot missions are generated - FPT Industrial"



Customer testimonials



Michel - Head of debimetry department at SIEMENS « Improvement of our logistics and future integration in our automated production lines and in our ERP system »



Benjamin - Industrial Projects Manager at SOCOMEC

« Very responsive and easy to implement. Can be coupled with peripherals (conveyors, robotic arms, ...) »



Philippe - Industrial Director of Systems and Equipment at SAFRAN « Automation of flows and limitation of manipulations that will protect the health of our operators »



Paulo - Logistics Methods Technician, FTP CNH Group « The programming interfaces are intuitive and getting started is facilitated by the Follow-Me mode »



Mohamed - INDUSTREET Project Officer - Total Foundation

«We welcome 400 young people a year for training on jobs in Industry of the Future »



Julian - Lean Manager, KETTERER « SHERPA has taken care of the 10,200 km covered up to now by our operators, saving €82,000 over one year »

"It is possible to combine robots with other types of handling equipment using middleware to create interfaces"



SHERPA MOBILE ROBOTICS (SMR)





Your Move to Smart Mobility