

XuP-Lift



XuP-Lift is dedicated to the transport of boxes between storage areas and/or between several production lines. Equipped with an artificial intelligence specialised in indoor navigation and a conveyor allowing it to reach different heights of gravity, XuP-Lift is flexible and autonomous.

35 kg

Payload

650/ 1500 mm

Transfer height

1.35 m/s

Max speed



Lifting system

Equipped with a bi-zone roller conveyor allows it to dock autonomously and at different height of your transfer stations.

Re-centering box

Thanks to its box re-centering device the mobile robot can transport crates up to 600x400 mm in size

Safe

Designed according to a risk analysis following the Machinery Directive 2006/42/EC and the standard ISO 3691-4.

Options



Visual Warning presence system



Automatic re-centering box



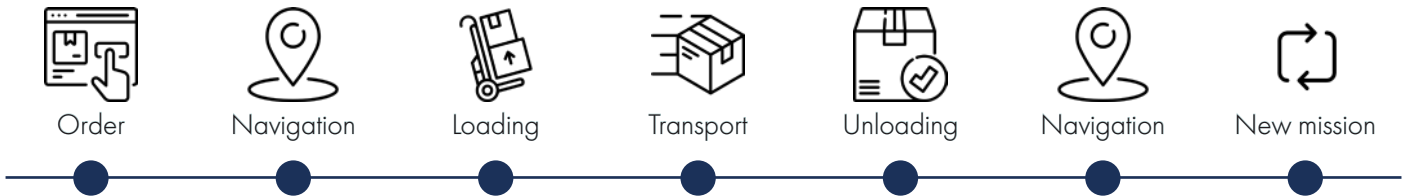
RFID reader



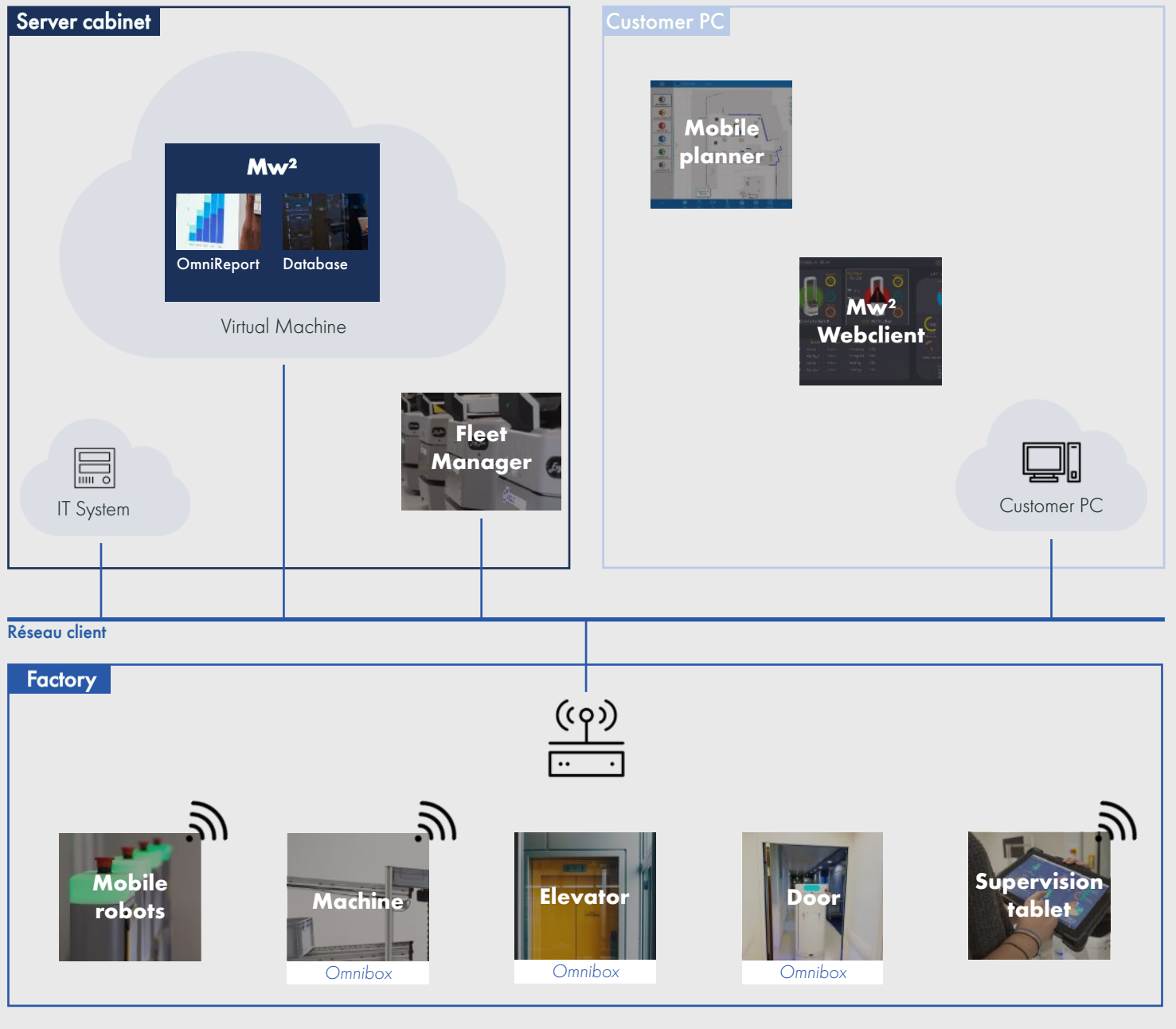
Accuracy Localization

A turnkey solution

Automatic Delivery



Solution ecosystem



Technical specifications



General

Max. speed

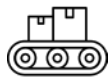
1.35m/s (4,85km/h)

Dimension (LxWxh)

700 x 670 x 1850 mm (700mm diameter)

Mechanical weight

115 kg



Application

Technology

Dual zone roller conveyor with lifting platform

Automatic re-centering boxes device

Max. transfer height

1500 mm

Min. transfer height

650 mm

Up and down system speed

300mm/seconde

Payload

35 kg

Size of the embedded containing

600x400mm, 2(300x400) or less



Mobility

Navigation

Autonomous routing by localizing with safety scanning laser based on environment mapping.

Environmental map making method

Scan by walking the mobile robot through the environment.

Move

Avoidance and bypassing of obstacles by calculating a new trajectory.



Human-Machine interface

Touchscreen

7" TFT LCD screen, 800x480 pixels

Manual Mode

Two push buttons to move the robot manually if necessary



Environnement

Operating temperature range

5 - 40° C

IP Class

IP20

Application environment

Indoor use only, limited dust and oil suspension

Climb grade

Max : 8%

Floor requirement

Linoleum, epoxy or concrete (no water, no oil, no dust)



Technical specifications



Safety

Safety scanning laser

At front, Class 1
PLd safety per ISO 13841-1
15m maximum range
240° field of view

Low front laser

1 at front, Class 1
4m maximum range
126° field of view

Side lasers

1 on each side of the platform, Class 1
4m maximum range
270° field of view

Emergency Stop

2 on each side of the robot

Rear Sonar

2 at rear, 2m range

Front bumper

1 at front of platform, 2 pairs of sensors

Warning lights

Light discs on each side
Upper LED strips

Speaker and buzzer

3.5", 80W max



Battery

Run time

± 10 hours

Recharge time

± 4 hours

Voltage

22-30 VDC LiFePO4

Capacity

72 Ah nominal capacity

Battery life time

2 000 recharge cycles

Charging method

Automatic, manual



Communication

WI-FI

IEEE 802.11 a/b/g/n/ac

Bluetooth

Bluetooth 2.+ERD



Declaration

EC Declaration of conformity

CE Marking

MeanWHOLE