

XuP-Med



Thanks to its ergonomic design, XuP-Med is an autonomous mobile robot that delivers medical goods (diagnoses, blood bags, medicines, chemotherapy, etc.) throughout the health-care sector (laboratories, hospitals, etc.). The nursing staff can then refocus on their more value-added tasks while XuP-Med takes care of transporting the products from one department to another.

40 kg

Payload

100 km

Average km completed per month

1.35 m/s

Max speed



Secured cabinet

The cabinet is closed by two-door leaves and locked by an electric strike plate. Unlocking is by user identification (badge or code).

Configurable cabinet

The configuration of the shelves inside the cabinet is flexible and depends on the height of the products to be transported.

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



Camera



RFID reader secured cabinet



Pick-to-light



A turnkey solution

Automatic delivery



Order



Navigation



Loading



Transport



Unloading



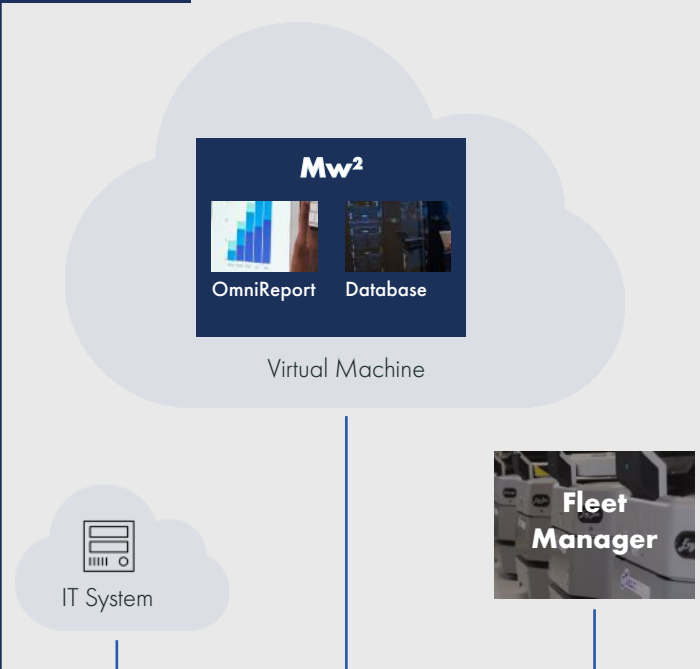
Navigation



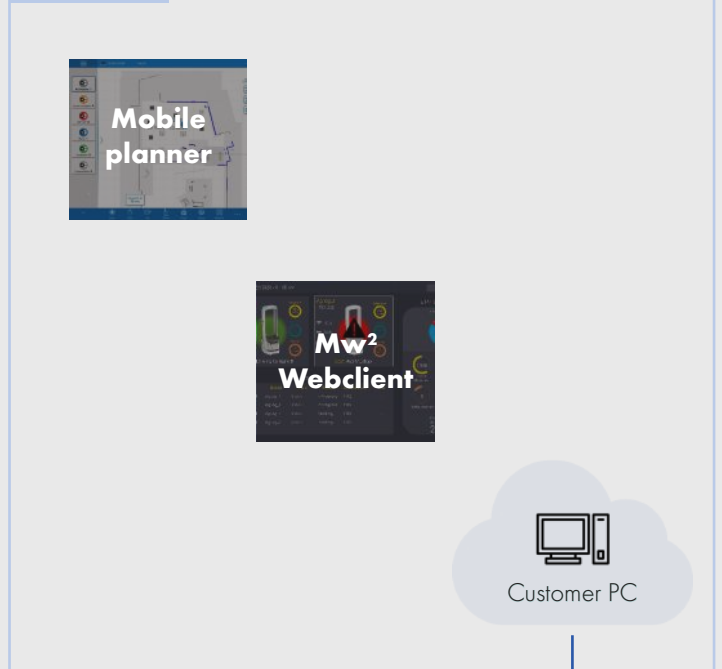
New mission

Solution ecosystem

Server cabinet

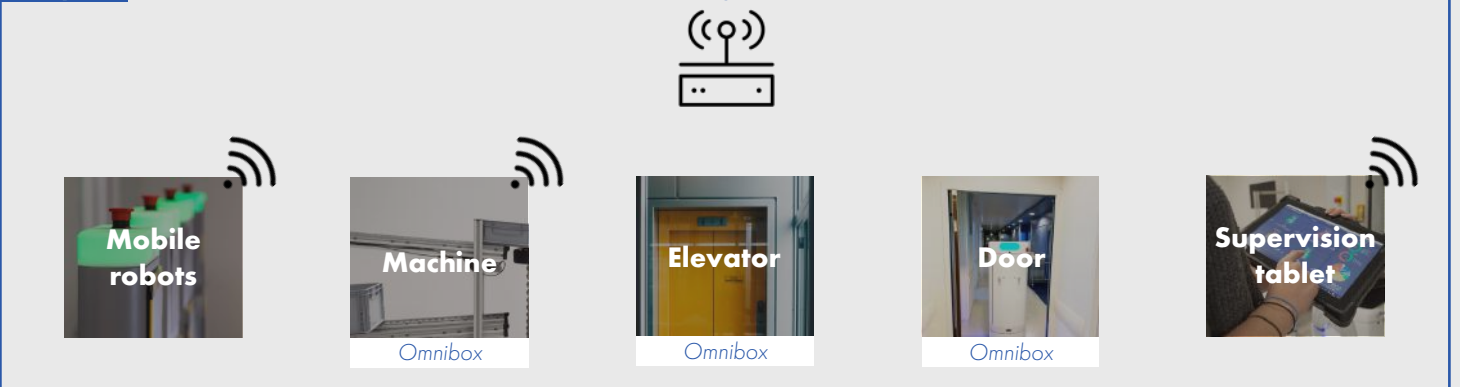


Customer PC



Réseau client

Hospital



Technical specifications



General

Max. speed

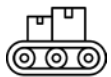
1.35m/s (4,85km/h)

Dimension (LxWxh)

700 x 670 x 1550 mm (700mm diameter)

Mechanical weight

107 kg



Application

Technology

Secure cabinet configurable according to your needs. Unlocking is done by user identification (badge or code).

Payload

40 kg

Size of the embedeed trays

The trays can accommodate elements up to 300x400mm in size. They can carry up to 15 kg each.

The number of trays in the cabinet is flexible and depends on the height of the products to be transported at the same time.



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

± 12 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