

# XuP-Med L



The autonomous mobile robot, XuP-Med L, is a simplified version of the XuP-Med. Dedicated to the transport of sample tubes. XuP-Med L is equipped with a simple tray that can hold tubes that can accommodate tube racks. Its locations are freely accessible and the products transported can be retrieved directly by the staff.

**270** Standard tubes

Payload

**350** mm

Radius of gyration

**1.35** m/s

Max speed



## Accessibility

The mobile robot is designed so that all the elements that can be manipulated by the staff are placed in such a way as to promote accessibility and ergonomics.

## Saving

XuP-MedLight is the simplified version of the XuP-Med.

## 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



RFID reader



Secured box



# A turnkey solution

## Automatic delivery



Order



Navigation



Loading



Transport



Unloading



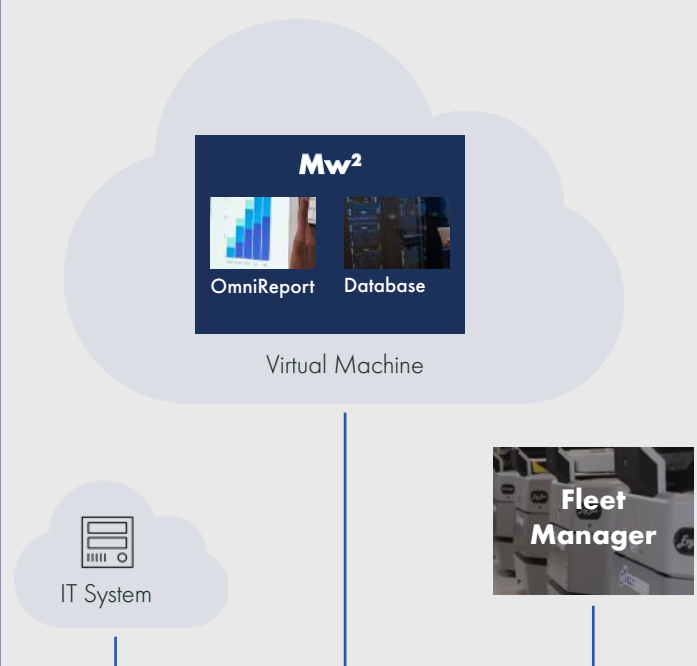
Navigation



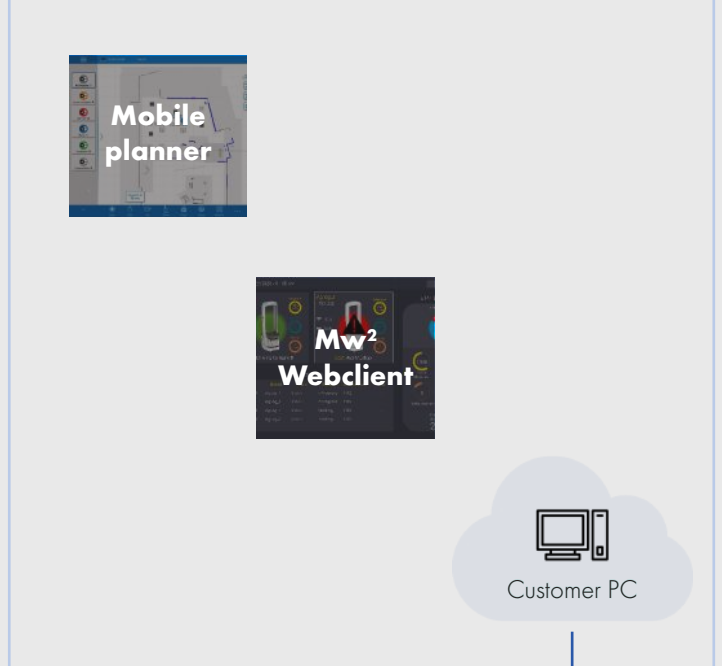
New mission

## Solution ecosystem

### Server cabinet

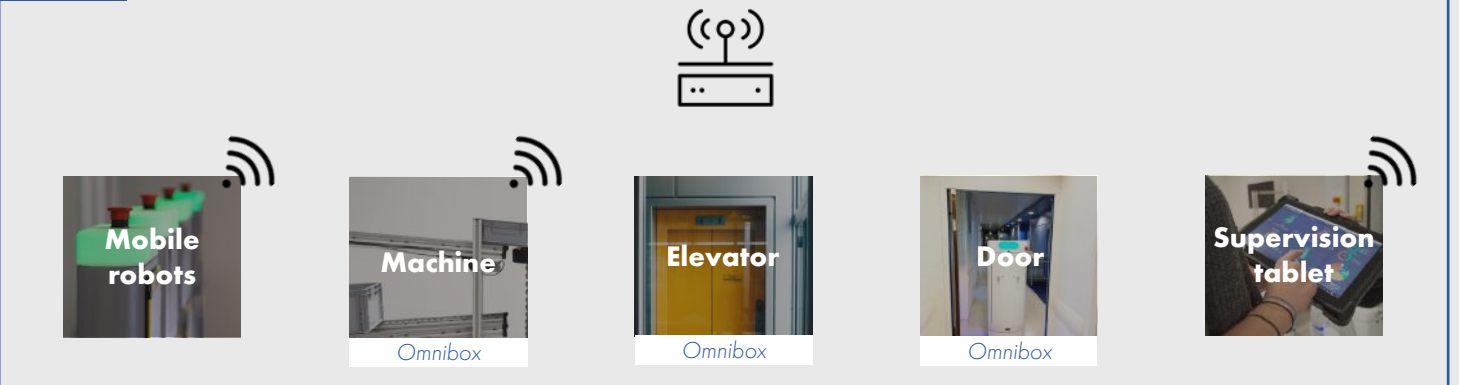


### Customer PC



### Réseau client

### Hospital



# Technical specifications



## General

*Max. speed*

*Dimension (LxWxh)*

*Mechanical weight*

1.80m/s (6,48km/h)

700 x 670 x 1000 mm (700mm diameter)

80 kg



## Application

*Technology*

*Size of the embedeed trays*

Tray for tube racks

A tray can hold up 270 standard tubes



## Mobility

*Navigation*

*Environmental map making method*

*Move*

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

Scan by walking the mobile robot through the environment.

Avoidance and bypassing of obstacles by calculating a new trajectory.



## Human-Machine interface

*Touchscreen*

*Manual Mode*

7" TFT LCD screen, 800x480 pixels

Two push buttons to move the robot manually if necessary



## Environnement

*Operating temperature range*

*IP Class*

*Application environment*

*Climb grade*

*Floor requirement*

5 - 40° C

IP20

Indoor use only, limited dust and oil suspension

Max : 8%

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

*Bluetooth*

Bluetooth 2.+ERD



## Declaration

*EC Declaration of conformity*

CE Marking

**MeanWHOLE**