

105 kg

Payload

**500** mm

Radius of gyration

1.35 m/s

Max. speed







## **Trolley transport**

XuP-Cart moves trolleys independently in its working environment.

### **Gripping system**

It enables the brakes of the trolley to be automatically and disengage the brakes of the carriage to be transported. Once the coupling is the carriage is fully connected.

#### Safe

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



# A turnkey solution

## **Automatic Delivery**









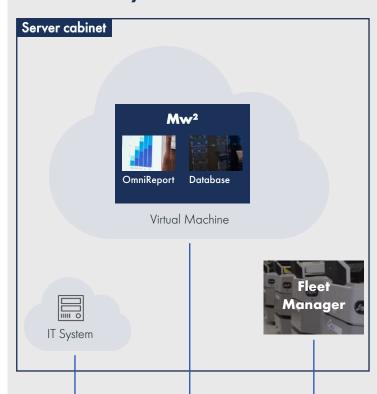


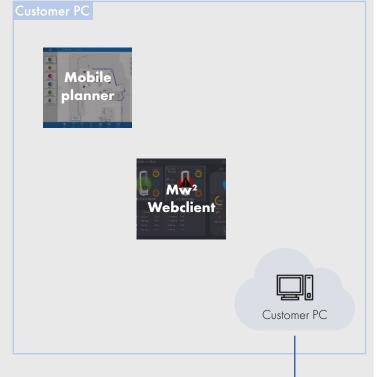




Navigation New mission

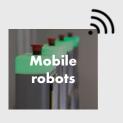
## Solution ecosystem





Réseau client

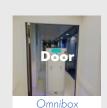
Factory













## Technical specifications





#### **General**

Max. speed

Dimension (LxWxh)

Mechanical weight

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

 $880 \times 950 \times 1350 \text{ mm}$  (950 mm diameter)

80 kg



## **Application**

Technology

Mandatory docking area

Payload

Size of the embedded containing

Automatic carriage coupling system

 $1300 \times 2500 \text{ mm}$ 

105 kg

800mm x 835mm x 15000 mm



### **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

± 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

Bluetooth

Bluetooth 2.+ERD



#### **Declaration**

EC Declaration of conformity

**CE Marking** 

