



**Manufacturer of cobotic manipulators**  
over the past **15 years**

 Ergonomic and mobile equipment

 Prevention of MSDs & WRI

 An ASS at your disposal

 A wide range adapted to all your applications

 Study, design, assembly and installation by our own staff

 Products made in France (44)  
FABRIQUÉ EN FRANCE

**SCARA**  
Product range  
50 & 100 kg


**ERGO360°**  
Product range  
100, 150 & 200 kg

**PM**  
Product range  
70 & 100 kg

**MAP**  
Product range  
50 & 100 kg



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**MAP**

Picking **manipulator**

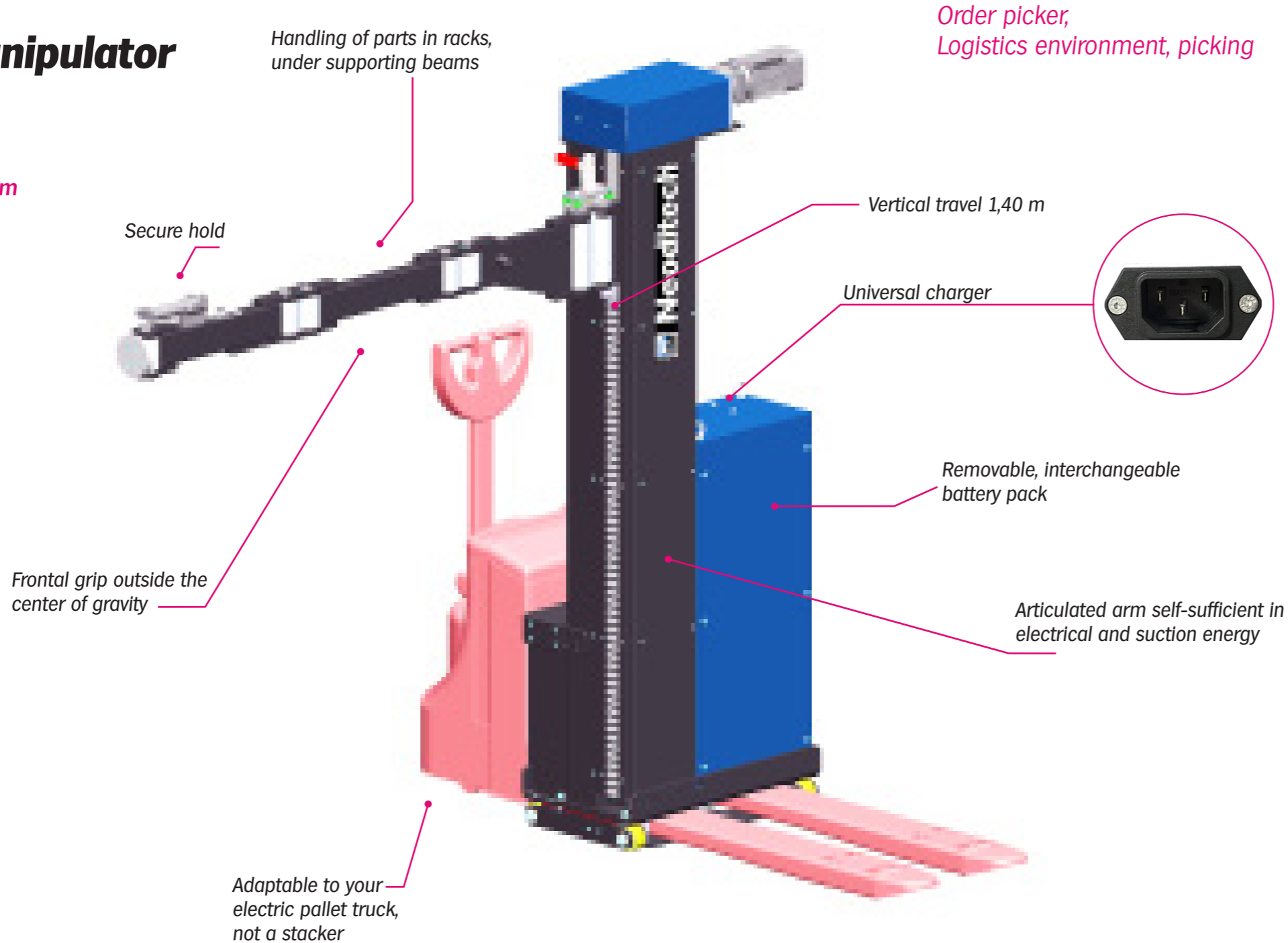
**Product range 50 & 100 kg**

**European conformity** 



# Picking **manipulator**

**Loading capacity :**  
50 kg or 100 kg at 2 m  
including gripper



Order picker,  
Logistics environment, picking

## The advantages

smooth

portable

swift

self-sufficient  
battery powered

ergonomic

security

reduction of drudgery

taken out of the  
center of gravity

effortless for the user

ease of use

installation on  
your pallet truck



## Manipulateur picking

The MAP is an autonomous articulated arm embedded in an electric pallet truck. This innovative equipment offers an ergonomic solution to order picking in the area of logistics and picking.

It allows the handling of parts stored in racks, **under supporting beams**, without the constraints of gripping outside the centre of gravity. Its **very fluid** design on 2 dual-pivot joints frees the operator from the sensation of having to carry a load, so that the user can stay focus on his work.

**Self-sufficient** in electrical and suction energy, it has a load capacity of 50kg or 100kg for a 2m radius. Several grippers are adaptable at the end of the arm and are interchangeable depending on the parts to be handled. Fast and easy to handle, the MAP facilitates and secures handling operations. It contributes to reducing MSDs, while preserving productivity.

50 kg

100 kg

### MAP001

- Radius 2m - Vertical travel 1430mm
- Capacity **50kg** at 2m including gripper
- Detachable control handle
- Depth : 464mm approx
- Recommended fork length : 1600mm
- Embedded in an electric pallet truck
- Self-sufficient in electrical and suction energy

### ENERGY

- Battery lifetime : 3600 charge cycles
- Lead batteries : 4x12V (48V)
- Deep discharge safety device
- 6h to 24h autonomy (depending on application)
- Recharging time : 2h on 230V socket

### MAP002

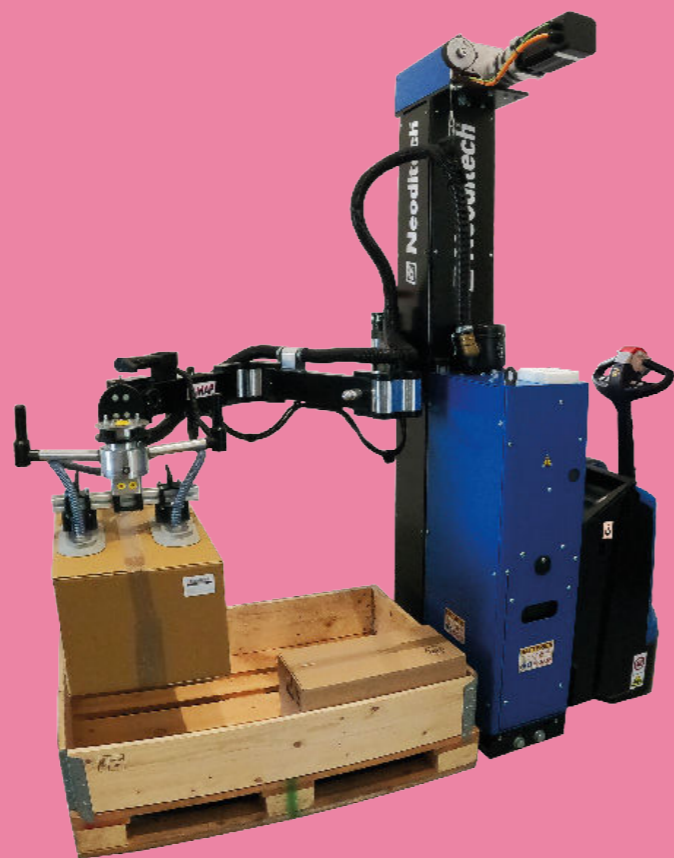
- Radius 2m - Vertical travel 1400mm
- Capacity **100kg** at 2m including gripper
- Detachable control handle
- Depth : 464mm approx
- Recommended fork length : 1600mm
- Embedded in an electric pallet truck
- Self-sufficient in electrical and suction energy

### ENERGY

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## Products





## Tools

**OUT049**  
Small suction cup tool  
for bags 50 kg



**OUT022**  
Medium suction cup tool  
for bags 50kg



**OUT050**  
Large suction cup tool for  
bags 50 kg



**OUT004**  
Hook 50 kg



**OUT053**  
Hook 100 kg



**OUT098**  
Manual tool  
for drills



**OUT099**  
Round suction cup  
tool for boxes 50kg



## Functions

**FC0522**  
Suction head



**FC0523**  
Suction coupler



**FC0524**  
Frame for interchangeable  
battery pack



**FC0525**  
Interchangeable battery  
pack

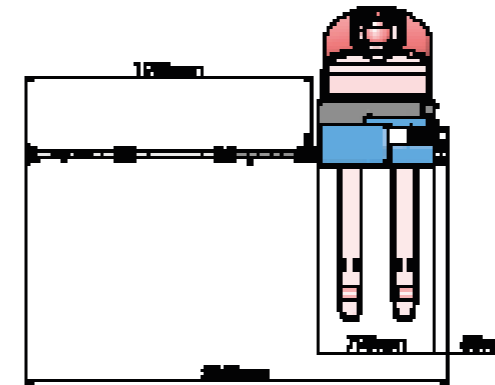
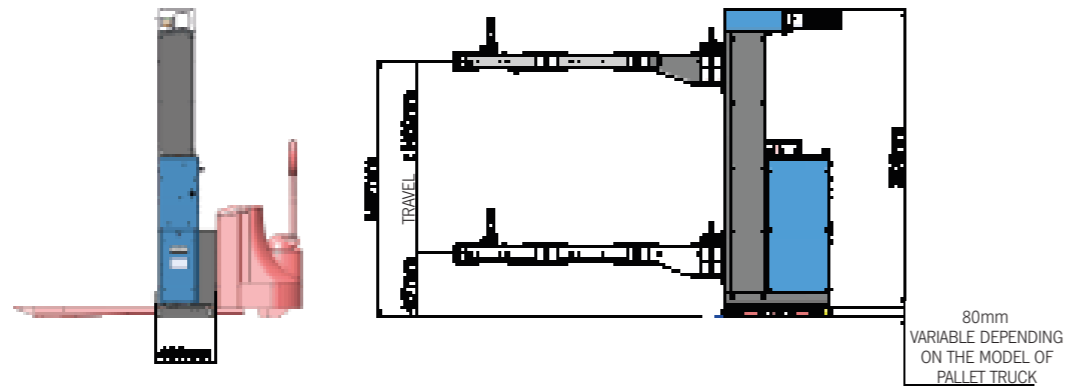


**FC0543**  
Surforks



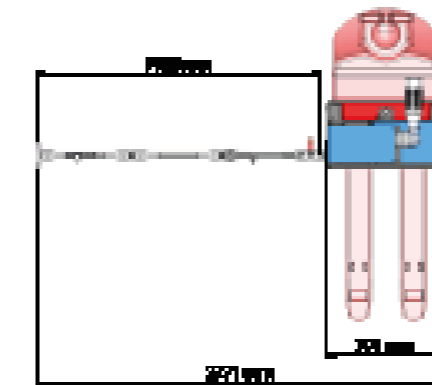
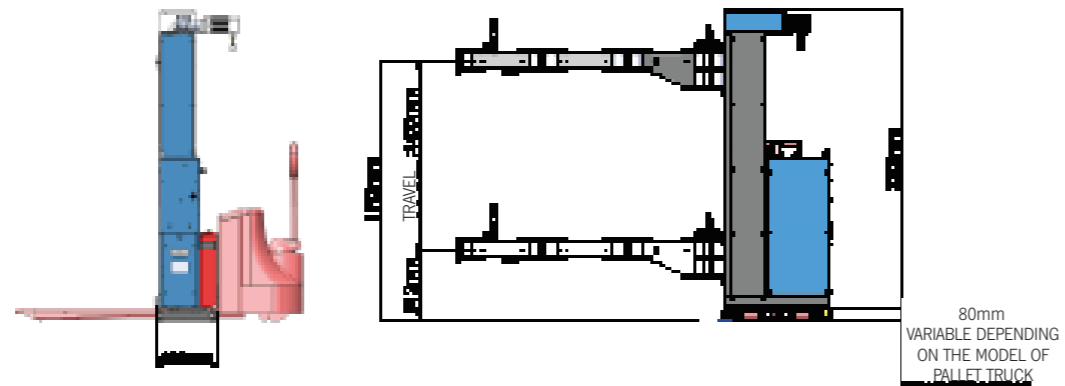
## MAP001

### Technical data **MAP 50 kg**



## MAP002

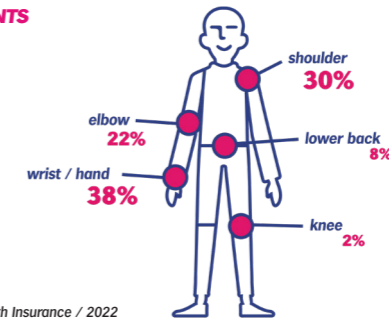
### Technical data **MAP 100 kg**



# MSDs : Musculoskeletal disorder

Musculoskeletal Disorders or MSD, are injuries and disorders that affect the human body's movement or musculoskeletal system, muscles, tendons, ligaments, nerves, discs, or blood vessels. The professional activity can be at their origin, their maintenance or their aggravation.

#### SORE POINTS



Source : French Health Insurance / 2022

#### DIRECT COSTS

##### Professional diseases

Carpal tunnel syndrome	11 000 €
Lumbago	52 000 €
Stiffened shoulder	80 000 €

##### Work-related accidents

Average cost of an occupational injury with time off work	3 000 €
Average cost of a handling accident with time off	4 500 €

#### INDIRECT COSTS (= 3 to 5 times of the direct cost)

##### For the company

- Responsibility of the general manager
- Civil responsibility
- Loss of production
- Substitution
- Training

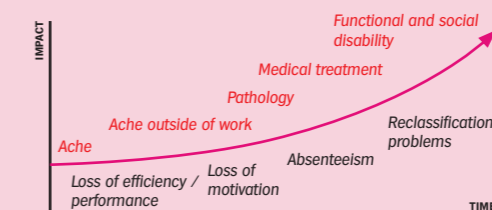
##### For the employee

- Work stoppage
- Medical costs (care, hospitalization, rehabilitation...)
- Loss of wages
- Work incapacity
- Return to employment

› **AVERAGE COSTS : 21 000 €**

#### CONSEQUENCES FOR EMPLOYEES/COMPANIES

The impacts are exponential..

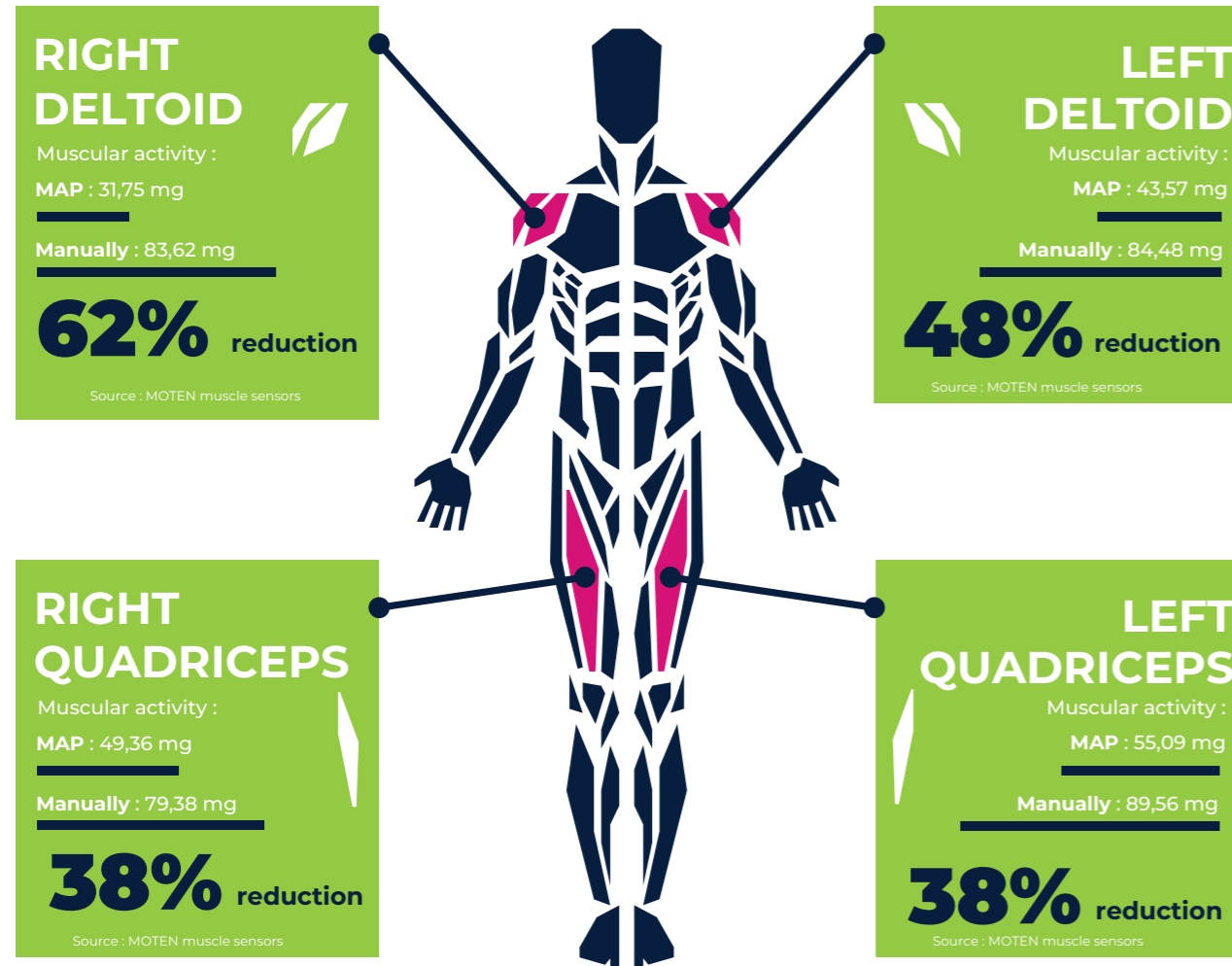


Source : CARSAT

# Diagram & MSDs

# Our impact on the muscular activity

The MOTEN sensors measure the movements and muscular activity of operators in a work situation. For this simulation, an operator handled 25kg bags of concrete, over 3 cycles of 25 repetitions, manually and then with the help of the **MAP**.



The postural risk is the measurement of the dynamic, uncomfortable or unnatural postures required by the manipulations.

They require more and more effort from muscles, tendons, nerves and bones, as the movements reach the limits of the range of motion and can therefore lead to MSDs over time.

