Neoditech®

Cobotic *manipulators*

Neoditech **PM**

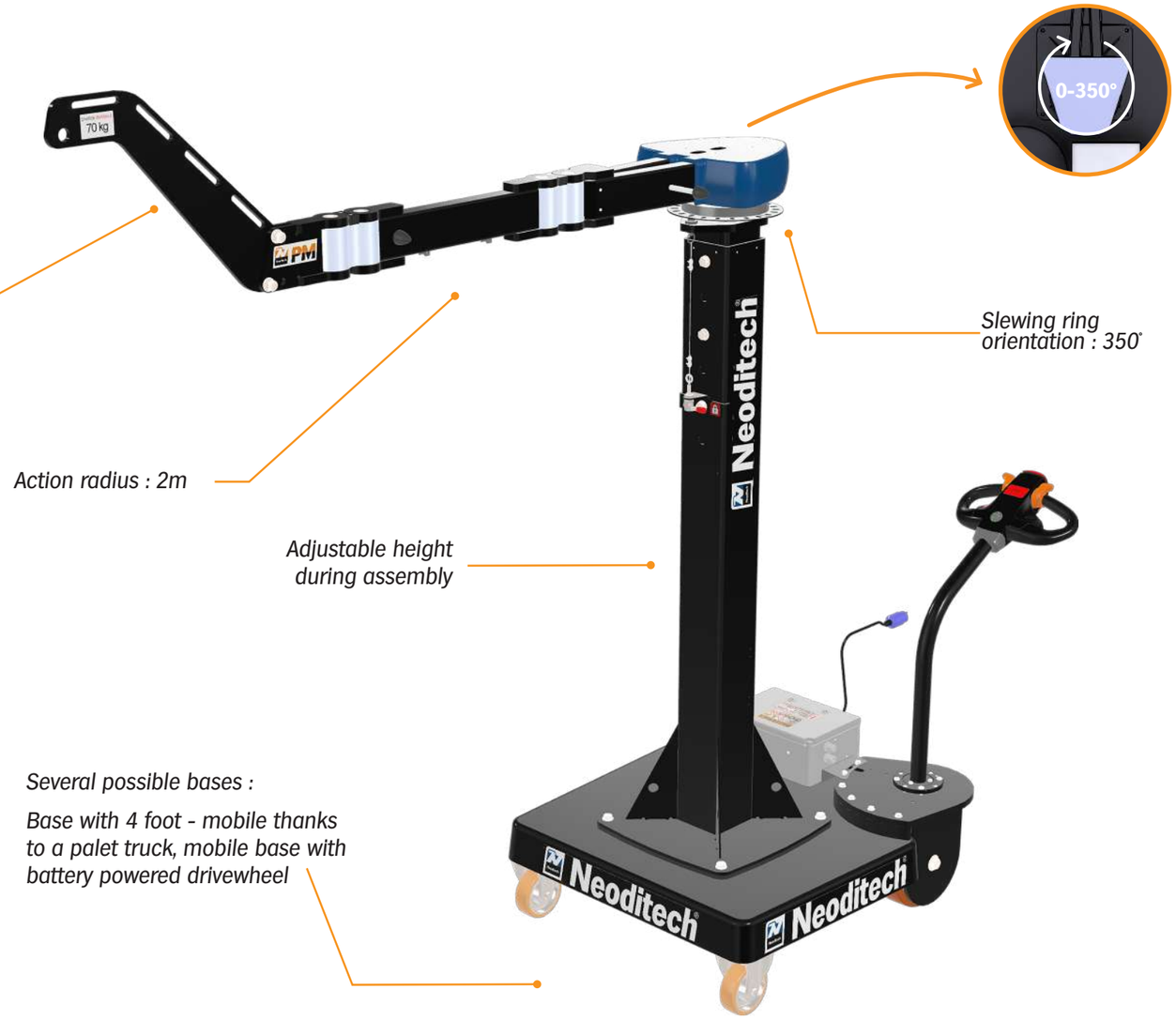
Mobile ***jib crane***

Product ranges : 70 & 100 kg

European conformity CE

PM

Mobile **jib crane**



Loading capacity :

70 kg or 100 kg at 2 m including gripper

The advantages

- **smooth**
- **portable**
- **swift**
- **self-sufficient battery powered**
- **ergonomic**
- **security**
- **reduction of drudgery**
- **taken out of the center of gravity**
- **compatible with a wide range of grippers**
- **ease of use**
- **230V 50Hz**

PM

Mobile ***jib crane***

The PM mobile jib crane allows the safe handling of bags, drums, boxes, etc., weighing up to 100 kg.

Its articulated arms on double pivots, identical to the SCARA arm, guarantee a great fluidity of movement, even when the equipment is loaded.

Compatible with many gripping systems (lifting tubes, hoists, etc.), it provides a versatile, scalable and safe approach to many lifting problems in industrial environments, helping to reduce MSDs. Its mobile base with battery powered drivewheel offers great manoeuvrability, even in small environments.

Products

70 kg

PM1400 - ON WHEELS

- Radius 2 m
- Adjustable height from 2566 to 3766 mm
- Capacity 70 kg at 2 m
- 3 strands, 2 dual-pivot joints
- Mobile base with battery powered drivewheel

PM1401 - ON FEET

- Radius 2 m
- Adjustable height from 2465 to 3665 mm
- Capacity 70 kg at 2 m
- 3 strands, 2 dual-pivot joints
- 4-footed base movable with a pallet truck

100 kg

PM1405 - ON WHEELS

- Radius 2 m
- Adjustable height from 2587 to 3787 mm
- Capacity 100 kg at 2 m
- 3 strands, 2 dual-pivot joints
- Mobile base with battery powered drivewheel

PM1406 - ON FEET

- Radius 2 m
- Adjustable height from 2486 to 3686 mm
- Capacity 100 kg at 2 m
- 3 strands, 2 dual-pivot joints
- 4-footed base movable with a pallet trucks

Functions

FC0495
Extended radius
2,7m - 50kg

FC0520
Extended radius
2,7m - 70kg

Tools

OUT070
Hoist with control box 60kg
230V 50Hz

OUT073
Battery powered
24V hoist 100kg
Universal charger

OUT012
Hoist with ergonomic handle 60kg
230V 50Hz

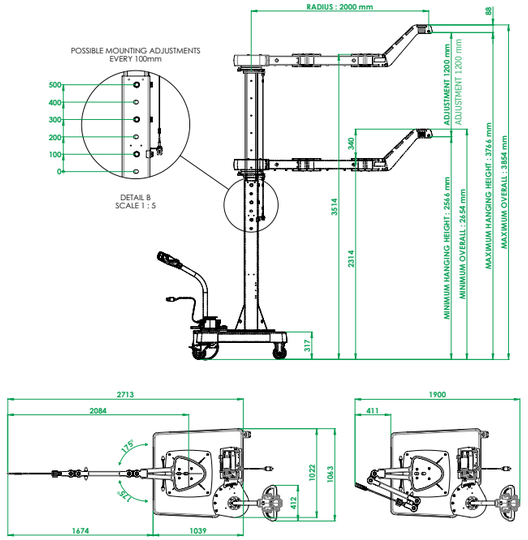
OUT078
Hoist with control box 100kg
230V 50Hz

OUT069
Hoist with ergonomic handle 100kg
230V 50Hz

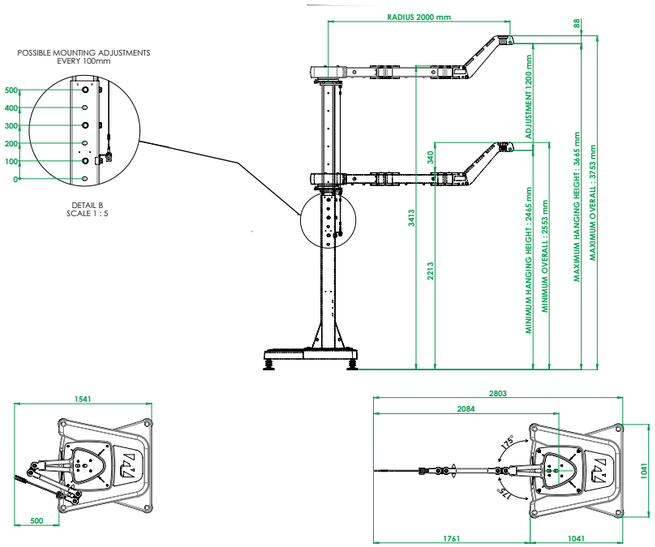
OUT098
Manual tool for drills

PM1400

Technical data *Crane 70kg*

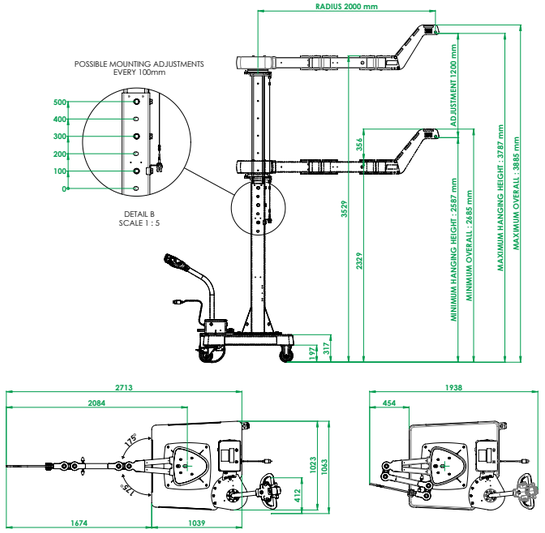


PM1401

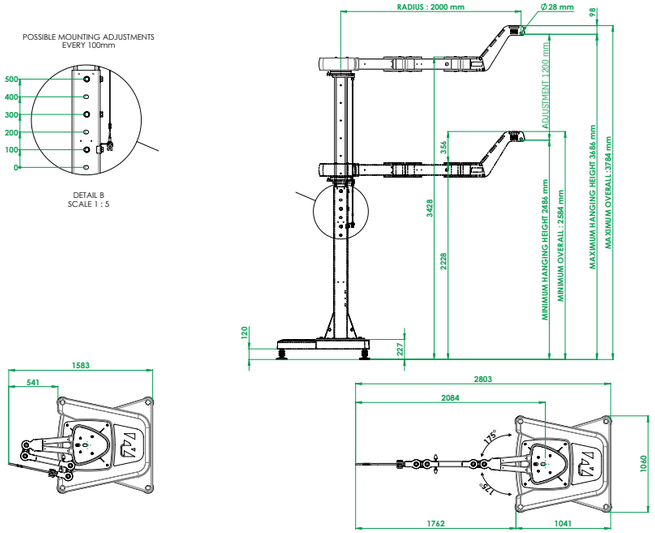


PM1405

Technical data *Crane 100kg*



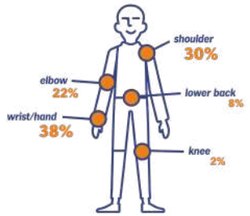
PM1410



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

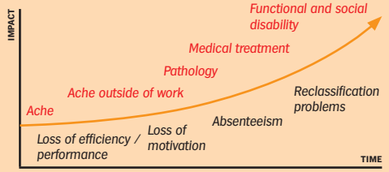
For the employee

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

› **AVERAGE COST : € 21,000**

CONSEQUENCES FOR EMPLOYEES/COMPANIES

The impacts are exponential.

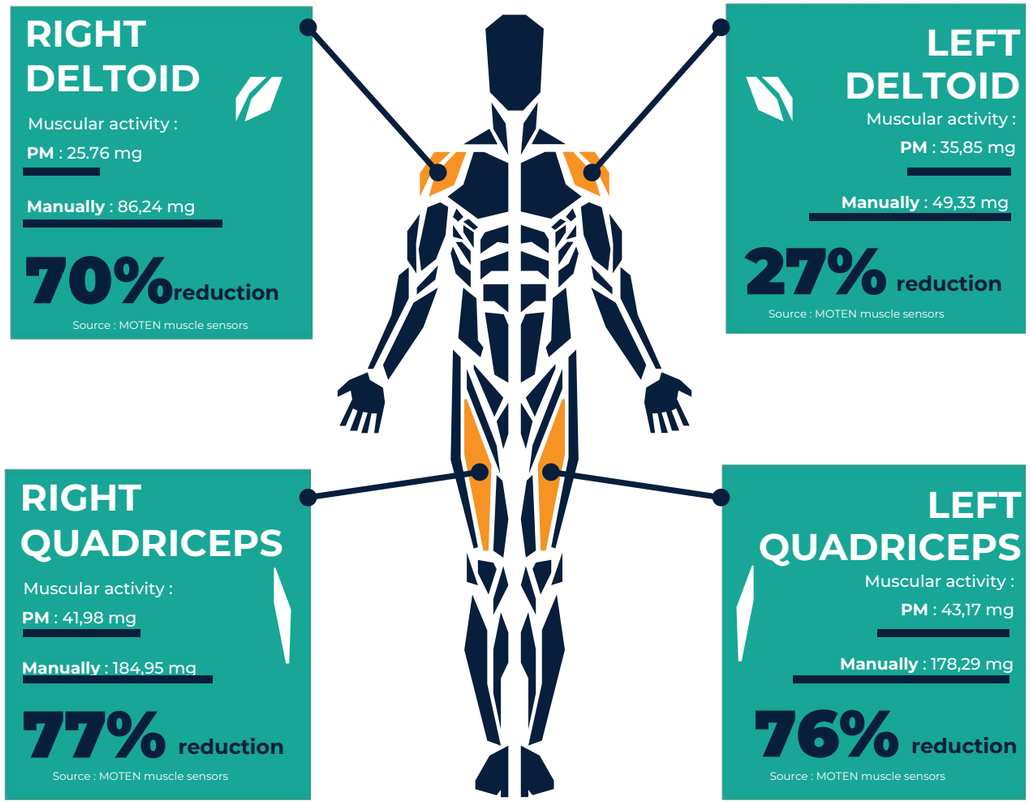


Source : CARSAT

Diagram & MSDs

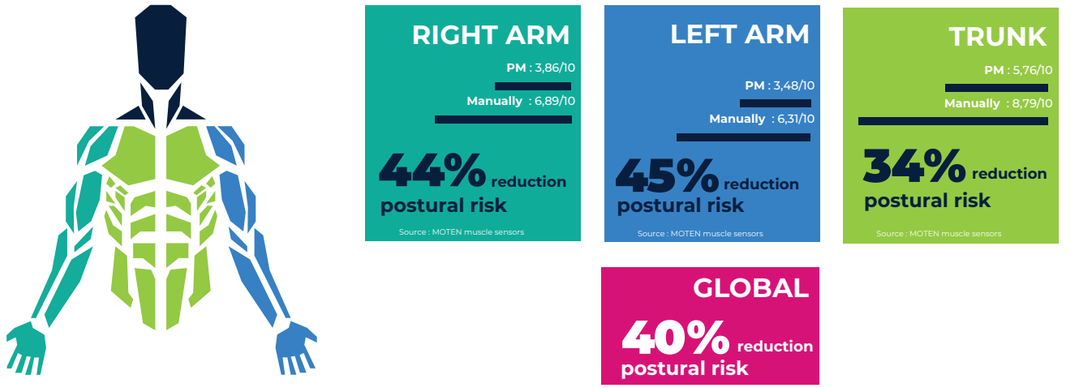
Our impact
on the muscular activity

The sensors used by MOTEN measure the movements and muscular activity of operators in a work situation. For this test run, an operator handled 30kg drums, over 5 cycles of 5 repetitions, manually (left-handed operator) and then with the help of the PM.



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.



Neoditech®

Cobotic *manipulators*

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

- *Ergonomic and mobile equipment*
- *Prevention of MSDs & WRI*
- *An After Sales Service 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
200 kg

PM

Product range
70 & 100 kg

MAP

Product range
50 & 100 kg

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