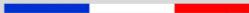


# USER MANUAL

**SCALEO**  
M E D I C A L

## **Poweo® Urban** Patient hoist



CE  MADE IN FRANCE

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# General Information and Safety Warnings

This user manual contains important safety instructions and information regarding the use of Poweo® Urban patient hoists.



***The Poweo® Urban should only be used by trained personnel. Please read this manual before using the hoist for the first time.***



***The Poweo® Urban should only be maintained by qualified personnel and with original parts.***



***The Poweo® Urban is designed and engineered to safely transfer patients up to 150 kg. Beyond this weight, do not use the Poweo® Urban: call SCALEO Medical or your distributor, who will offer you a hoist that best suits your needs.***



***The Poweo® Urban is not intended to be fitted with a weighing instrument: the installation of such an instrument between arm and suspension would adversely affect the stability of the lift and may cause the patient to fall.***



***The Poweo® Urban is not intended to be fitted with a rigid stretcher: the installation of a device instead of a flexible strap would adversely affect the stability of the lift and may cause the patient to fall.***



**The Poweo® Urban is not intended for use in balneotherapy, as saline or chlorinated mists can quickly degrade the device, rendering it unusable or hazardous.**



***Use straps developed especially for the 4-point suspension of SCALEO Medical Poweo® Urban hoists. Using straps from other manufacturers is not recommended. If you wish to use straps from other manufacturers under your own responsibility, you will need proof of compatibility and to test them before using them with a patient. SCALEO Medical cannot be held responsible for any incident arising from the use of non-recommended straps.***



***Straps should be used for lifting and transferring people. Never use the hoists to lift or carry objects.***



***Avoid transferring patients on thick carpeted floors. Ragged surfaces and any obstacles may block the wheels. If the force is too great, the lift can become destabilised and tip over, especially if it is used at its maximum weight capacity. If this situation cannot be avoided, open the legs of the hoist before starting the transfer.***



***Poweo® Urban should NEVER be used to transfer, lift or transport people over slopes.***



***The use of a lift for persons with disabilities requires a good understanding of the transfer systems and the assembly and disassembly procedures.***



***The maximum weight can be lifted while using the engine non-stop for roughly one minute. The delay between 2 lifts of maximum capacity should be roughly 10 minutes in order to allow the engine to cool down.***



***The Poweo® Urban is not a transport device. It should be used exclusively for short distance transfers. It is not intended to replace wheelchairs or other types of transportation.***

This user manual is intended for users of Poweo® Urban hoists and should not be communicated or made available to any third party without the prior written permission of SCALEO Medical.

The first Poweo® Urban was launched in June 2021.

# Symbols and pictograms

## Symbols used in this manual



*This symbol indicates instructions and safety information when injuries may occur if warnings are ignored or only partially followed. It is important to carefully follow the advice and warnings.*



**This symbol indicates important information regarding the use of the equipment. Failure to follow this information may result in damage or malfunction of the hoist or other equipment.**



*This symbol indicates important and useful information that will help the user and optimise the use of the equipment. This information will simplify routine operations and provide solutions to complex operations.*

## Symbols used on labels:

| Symbol | Meaning                                                        |
|--------|----------------------------------------------------------------|
|        | Manufacturer                                                   |
|        | Date of manufacture                                            |
|        | Device reference                                               |
|        | Serial number of the device                                    |
|        | Temperature range                                              |
|        | Safety pin: Do not remove this pin. Regularly inspect this pin |
|        | Caution: Read the user manual for instructions                 |
|        | For indoor use only                                            |
|        | Medical device                                                 |

| Symbol | Meaning                                                          |
|--------|------------------------------------------------------------------|
|        | Read the user manual for instructions                            |
|        | DC power source                                                  |
|        | Electrical protection class II                                   |
|        | Type B applied parts                                             |
|        | Do not open or disassemble                                       |
|        | Maximum carrying capacity                                        |
|        | In accordance with European regulations                          |
|        | Contains potential waste from electrical or electronic equipment |

# About the Poweo® Urban

**You have recently purchased a Poweo® Urban patient hoist.**  
**We would like to thank you for the trust you have placed in our company.**

The patient hoist is delivered with the user manual in a cardboard box containing:

1. A chassis with pedals,
2. A column,
3. The arm,
4. A rotating suspension and its protection,
5. The Linak electrical lifting actuator,
6. An electronic box including a battery with emergency stop and emergency lowering buttons,
7. The remote control (not shown),
8. Mechanical emergency lowering,



## Accessories

The Poweo® Urban can be used with straps adapted to the morphology and pathology of the people being cared for:

- Polyester Comfort sling
- Polyester All day sling
- Vinyl sling Comfort
- Polyester net bath sling
- Amputee sling post operative sling
- Polyester Hammock sling
- Polyester home transfer sling
- Polyester Toilet sling

## Intended use

Poweo® Urban is a mobile floor hoist. It is intended to be used on horizontal floors to transfer patients up to 150 kg. It also ensures the comfort and safety of the patient and caregivers.

Foldable and light, the Poweo® Urban is the ideal hoist for home care and nursing homes.

It is intended in particular for:

- People with low muscle tone,

- Post-surgery (amputation),
- Tetra and paraplegia at all ages (child, adult, senior).

## **Contraindications**

Users of the Poweo® Urban should check with their doctor or other medical specialist that there are no contraindications to using the equipment.

Poweo® Urban is NOT intended for use:

- On patients with curvature of the spine,
- On patients with muscle spasms,
- For transferring patients over long distances,
- For transferring patients on slopes,
- To replace wheelchairs or other types of transport devices.

# Assembly and Commissioning Instructions

## Unpacking the Poweo® Urban

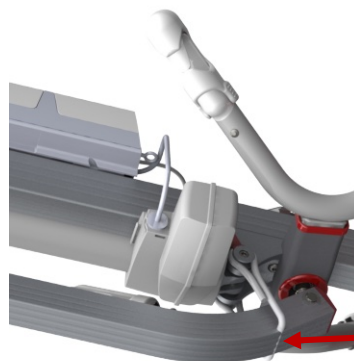
Before assembling the hoist, please ensure no damage to the packaging can be observed before unpacking and that there are no missing parts. If that is the case, remember to immediately provide written reserves to the carrier and contact SCALEO Medical.



***Packaging elements (plastic, polystyrene wrappings etc.) must not be left within reach of children as they can be potentially harmful.***

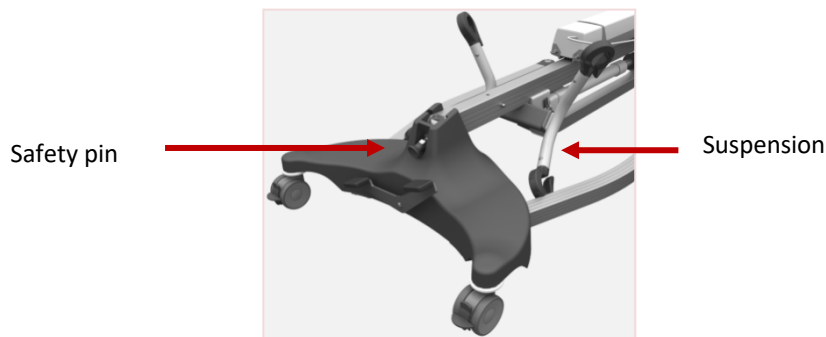
Unpack the hoist by removing all ties and guards:

1. Remove the suspension fixed to the base for transportation.



Unhookable elastic

2. Pull the safety pin that locks the column in the transport position.



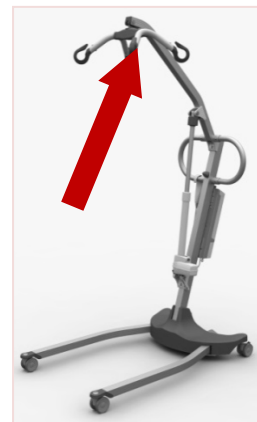
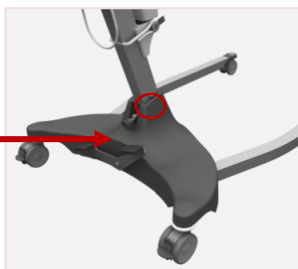
## Assembly Instructions



*If necessary, contact SCALEO Medical for more information on assembling your Poweo® hoist.*

1. Raise the column,
2. Insert the column into the base and slide it using the guide pin,
3. Insert the safety pin into the pole to secure the assembly, turning the knob a quarter turn

Safety pin position to  
be checked



***It is VERY important to secure the column to ensure the safety of the patient and caregivers when using the Poweo® Urban. If a safety pin is missing or broken, the column may fall and cause serious injury. Make sure the pin is well fixed and secure, check regularly.***



***To ensure these safety pins can easily be seen after installation and during routine inspection, a special label is displayed nearby.***



4. Release the suspension,
5. Check that the emergency button is in the 'OFF' position: the red button must be 'OUT' for hoist operation. Refer to the 'Safety Features' section of this manual for instructions,
6. Connect the remote control and perform a few cycles up and down to check that the equipment is working as intended,
7. Recharge the battery for at least 8 hours before first use.
8. Keep the Poweo battery charged after each use.



*SCALEO Medical tests and charges all batteries before the products are packaged, however the batteries must be fully recharged before first use.*

**The Poweo® Urban is now ready to use.**

## **Commissioning**

The Poweo® Urban hoist is equipped with a charger capable of recharging the batteries for any AC voltage value (100 to 240 V) and frequency (50 or 60 Hz).



*SCALEO Medical supplies the charger with the appropriate mains plug for your country, provided that the place of use is indicated on the order.*



**Before first use, it is crucial to charge the battery for about 8 hours. See the 'Battery Management' section for more information.**



***Before each use, it is necessary to take a few minutes to check and ensure the safety of patients and caregivers:***

- ***Make sure that no part of the lift is damaged or worn,***
- ***Make sure that all bolts and screws are present, in good condition and properly tightened, especially those identified with a 'safety pin' label:***
- ***Check the main functions: raising and lowering the arm, emergency switch, opening and closing the legs.***



***If there is a malfunction or you are unsure of the safety, do not use the hoist. Contact your service department, distributor or contact us directly using the contact details at the end of this manual as soon as possible.***



*Practice by lifting a colleague and being lifted by others. It is important to experience how a patient will feel when they are being lifted. Try to practice using all the appropriate straps for the different types of lifting and movements you may encounter. It is also advisable to reassure the patient by explaining the procedure before starting the transfer.*



It is very important to use accessories and straps adapted to:

- ***User ability***
- ***Body shape of user***
- ***Weight of user***
- ***Type of transfer***



*The Poweo® Urban is designed to be used at room temperature from +10°C to +40°C. This should be taken into account when transporting the hoist, and should therefore be kept in a temperate part of the vehicle. Otherwise, the Poweo® Urban must be placed in a temperate room until the equipment has reached the appropriate operating temperature.*



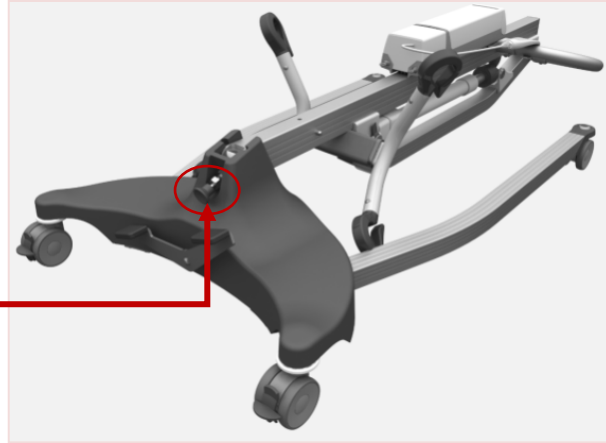
*SCALEO Medical provides user training during the commissioning of equipment for all hoists provided directly to medical facilities. If the equipment is supplied by an agent or distributor, we strongly recommend that you request training in the same way.*

## Storage and Transport Instructions

To store and transport the Poweo® Urban, follow the installation instructions in reverse order:

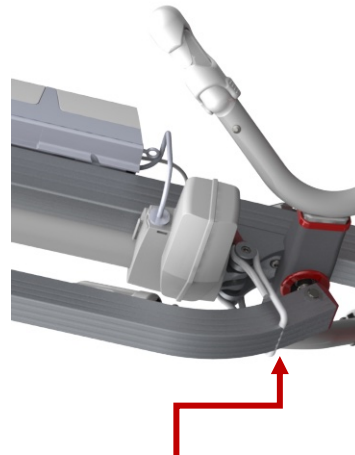
1. Fold the arm and lock it on the column with the elastic.
2. Unlock the column fixing safety pin.
3. Lift the pole.
4. Fold down the column.
5. Place the pin on the centre hole to secure the column in a position parallel to the ground.

Fixing pin



1. Fully retract the actuator
2. Pull the safety pin to bend the pole
3. Lift the pole and fold it to the transport position
4. Hook the elastic on the suspension to keep it in place
5. Secure the pole by positioning the safety pin in the pole base.

Unhookable elastic



# Instructions for Use

## Safety devices

### Emergency stop

The Poweo® Urban is equipped with an emergency stop button that stops the hoist when pressed. The emergency stop button is located on the control box. Once pressed, it must be turned clockwise to be released.



### Emergency mechanical lowering

In the event of a malfunction, a mechanical emergency lowering is possible by operating the red ring on top of the actuator.



Contact SCALEO Medical if the reasons for the malfunction are unknown, or if any parts are damaged. Do NOT use the hoist until the problem is resolved.

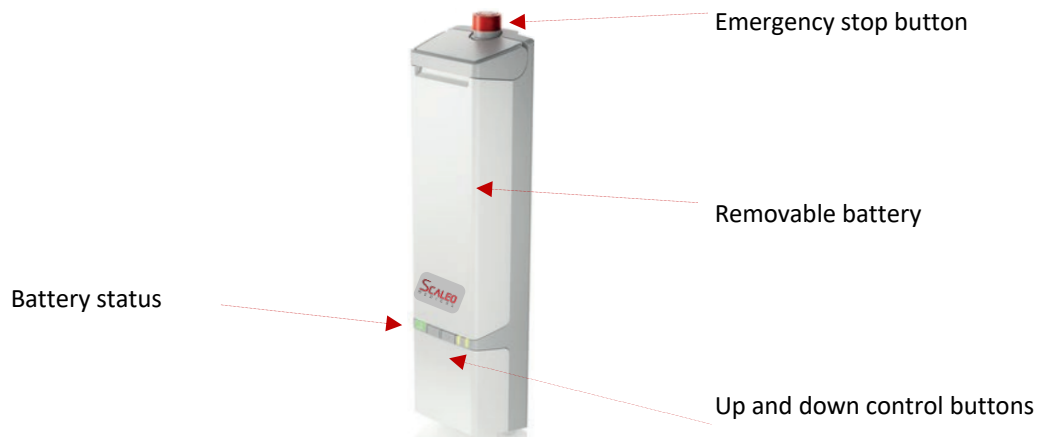


## Control box

The Poweo® Urban control box is equipped with a lead battery that complies with European standards. It is also equipped with buttons that allow the lift to be operated (up, down) without using the remote control.

## Removable battery control box

The battery is easy to remove and change. With an optional external charger, the hoist can be used while the second battery is being charged.



Instructions for removing or replacing the battery

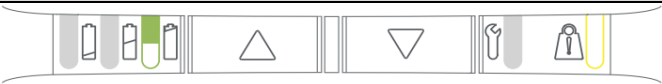
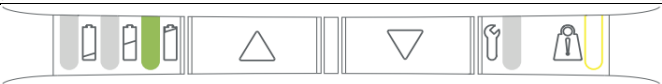


Battery and external charger (optional)

# Battery management

The LED indications on the control box allow you to check the battery status, the charge status and the system status:

| Battery indication                                                                |  |                                                       |                                        |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------|
| Led 3                                                                             | Statuses in normal use                                                             | Led status (not listed = off)                         | Ringer status (not listed = off)       |
|  | High                                                                               | LED on solid                                          |                                        |
|  | Low (needs to be charged)                                                          | LED flashing slowly                                   | Single beep at start of key activation |
|  | There are two cycles left                                                          | Slow flashing/synchronous/tilting led + active ringer | Constant                               |

| Charging indication                                                                 | Status of LEDs                  |
|-------------------------------------------------------------------------------------|---------------------------------|
| Led 3 + 5                                                                           |                                 |
|  | Charging with internal charger  |
|  | Completely charged/ready to use |
|  | On mains without battery        |

|                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | No power                                                                            |
|  | For use with the external charger, please refer to the external charger user manual |

| System Status |                                                                                    |  |                          |                                        |                              |                 |
|---------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|----------------------------------------|------------------------------|-----------------|
| Priority      | LED 3 + LED 5                                                                      | Led Status<br>(Not listed = out of service)                                        | Statuses in normal use   | Comments                               | Reset                        | Alarm           |
| 0             |   | LEDs 4+5 on solid                                                                  | Emergency stop activated | Ready to use                           | Release the emergency button | -               |
| 1             |   | 1 LED 3+5 flashing slowly (asynchronous/tilting)                                   | SWL confirmation         | New stored current limit. Ready to use |                              | Single beep     |
| 2             |   | LED flashing slowly                                                                | Overload                 | Momentarily not ready to lift          | Reduce the load              | Beep twice      |
| 3             |  | LED on solid                                                                       | Duty cycle guard         | Momentarily not ready to lift          | Waiting to be ready          | No sound signal |

A charge of about 8 hours makes it possible to fully recharge an empty battery. If the hoist is used regularly, the battery must be recharged overnight.

To connect the charger, you will need to remove the plastic cap protecting the charger from splashing water. A wall charger is also available as an option.



**According to current standards, the hoist does not operate while the battery is being charged.**



*Reminder: If the emergency stop button is pressed, the battery will not recharge.*

Once the battery is fully charged, the hoist will be able to perform at least 50 transfers with an amplitude of 50 cm for a load of 70 kg.



*It is not possible to overcharge the batteries. To ensure optimal performance throughout the life of the battery, we recommend allowing the battery to rest a few minutes after charging so that it can cool down before use. It is also important to fully charge a battery that will not be used for a long time.*

## Battery Maintenance



***Never use a charger or cable other than the one supplied with the hoist. The use of electrical equipment not suitable for the charger could lead to the explosion of the battery or the emission of explosive gases.***



***Never recharge the battery in extreme temperature conditions or in a very humid environment.***



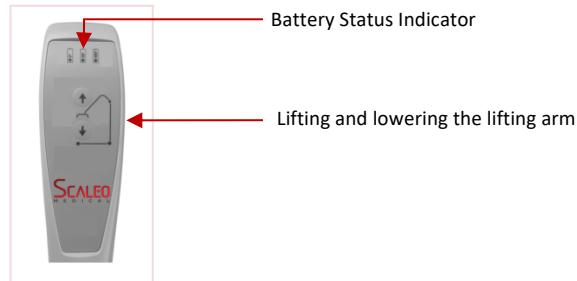
**If you plan NOT to use your Poweo® for a long period of time ( $\geq 1$  month), please follow the instructions below in order to preserve the battery:**

- Fully charge the battery,
- Press the emergency stop button (the battery will be electrically isolated),
- Store the hoist in a cool, dry place,
- Regularly check the battery charge (monthly) and fully charge it at least every 6 months.

Following these simple precautions will keep your batteries in good condition and help them last longer.

## Remote Controls

The remote control has two buttons: lift arm up/down.



## Lift and transfer with the Poweo® Urban



***For your safety, before lifting or transferring, carefully read the safety warnings in the first part of this user manual.***

### Positioning of the suspension

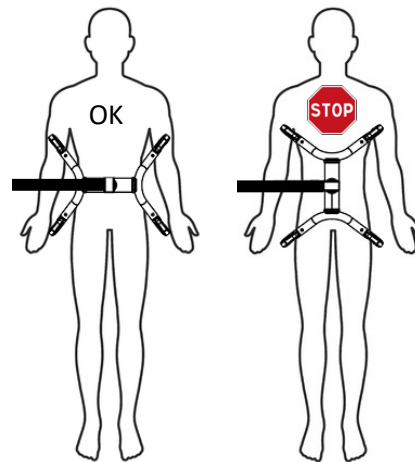
The suspension should be placed across the patient as shown in the image.

Position the patient as low as possible during the transfer, so as to lower the patient's centre of gravity and ensure maximum stability.



***If possible, during transfer, the patient's feet should be in contact with the hoist chassis.***

Use the hoist carefully to minimise swinging, especially if the hoist and the patient are close to the furniture.



## Safe Locking System

SCALEO Medical's SLS electric and 4-point mobile slings use the exclusive patented SLS (Safe Locking System) for the strap loops. This system allows the sling to be attached and removed with one hand, so that the other can be used to maintain physical contact with the patient.

The locking ring is held in the closed position by the patient's weight, preventing it from being unlocked during the entire transfer phase.



**Before any patient transfer operation, ensure that the strap fasteners are in the closed position.**



The hook is in the open position.



The buckle of the sling is introduced.



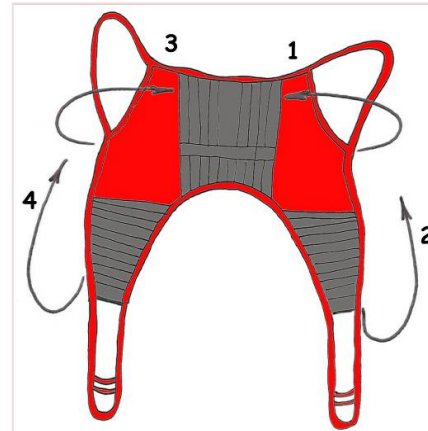
A tension on the sling locks the hook.

## Use of passive transfer straps

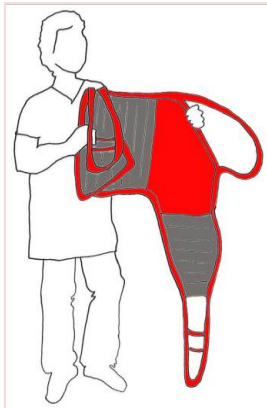
Fold the strap as shown in the following images before use. The grey side should face away from the user when applying the strap. The strap should be held in one hand, leaving the other free to move and support the patient.



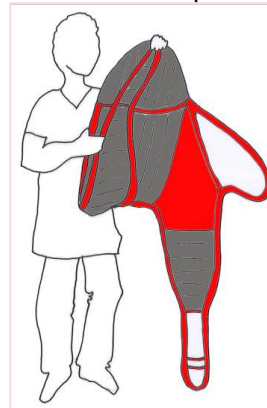
***Torn, cut, worn or broken straps can break, resulting in serious injury to the patient. Only use straps that are in good condition.***



Strap without headrest



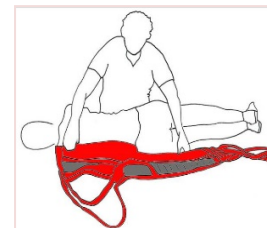
Strap with headrest



## Transferring from a bed using the Poweo® Urban

### Transferring from a bed

1. Roll the patient onto their side. Put the folded strap behind their back. The centre of the strap should be parallel to the user's spine. Then turn the patient over on their back.

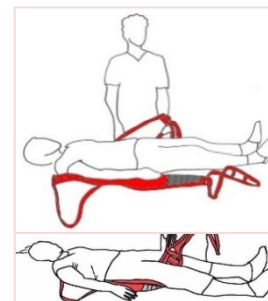


2. Pull the leg straps forward and under the thighs.

3. Cross the loops into each other.

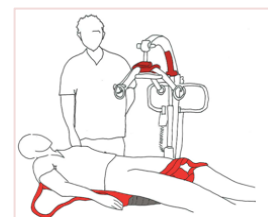


*If the patient's bed can be lowered, it should be lowered as much as possible before the start of the transfer. It may also be useful to lift the head restraint.*



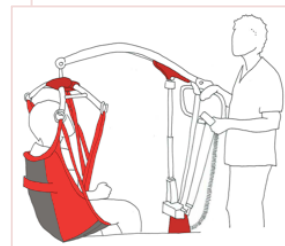
4. Place the legs of the hoist under the bed with the suspension above the user. Be careful not to lower the suspension on the patient.

5. Centre the suspension on the patient before starting to lift. Remember that the wheels should not be locked.



6. When the four loops are hooked to the suspension, carefully lift the patient using the remote control.

7. It may be necessary to reposition the patient while they are being lifted to achieve a safe and comfortable sitting position. To do this, use the handle on the back of the strap.



8. Raise the patient until the buttocks are just above the mattress. Lift the user up and turn them by guiding them by the legs, until they are facing the column of the hoist.

9. Once away from the bed, lower the patient so that their feet rest on the chassis.



## Placing the patient on the bed

1. As described above, lift the patient until the buttocks are just above the bed. Approach with the hoist paying attention to the patient's feet.
2. Centre the patient above the bed and rotate the patient so that the patient's feet are directed towards the foot of the bed. Carefully lower the patient using the remote control. It may be necessary to hold their head.

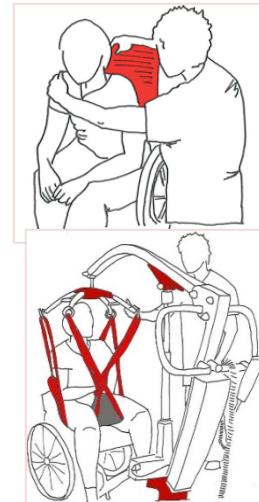
## **Transfer from (wheel) chair**

1. Fold the strap as described above.



*If the patient's physique and abilities permit, they should be encouraged to take an active part in putting the strap in place. They can lean forward, raise their thighs and help place the leg part.*

2. Lean the patient forward, making sure to support them by placing one arm around their shoulders. Place the folded strap behind their back and push it down until it touches the chair seat.
3. Pull the strap's leg loops forward and under the user's thighs. Then cross the loops into each other.
4. Position the lift close to the chair with the patient's feet on the frame.
5. If the patient is sitting in a wheelchair, ensure that the brakes are applied.
6. Using the remote control, gently lift the patient just above the chair seat and transfer. It is not necessary to raise the patient too high.



## Lower the patient to the chair

1. Place the lift so that the patient's back is in contact with the backrest of the chair.

Use the following method to position the patient in the chair:

- a. Gently push on the knees,
  - b. Pull the handle on the back of the strap,
  - c. Slightly tilt the chair backwards.
2. Using the remote control, lower the patient into the chair, unhook the strap and remove the hoist.



## Removing the strap

1. Gently pull the legs to the side, away from the patient's thighs.
2. Stand beside them, lean forward (while supporting them with one hand) and pull the strap from behind their back.



***If the strap is pulled abruptly, the patient may fall forward. This is why the patient should be supported by an arm as shown in the image.***



## Bath

The lifting procedure to and from a bath is the same as for a bed, but a special bath strap is used for this purpose. It consists of a polyester net that dries quickly.

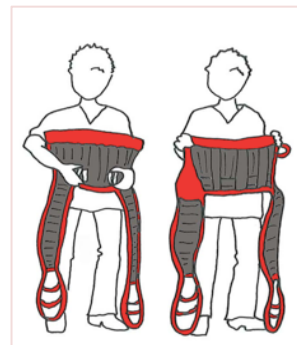


***The Poweo hoist is not a waterproof device: avoid exposure to water as internal electronic boards may be damaged by water or moisture.***

## Toilets

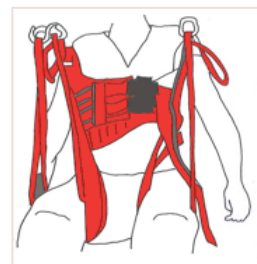
The toilet strap is positioned as follows:

1. Insert the strap behind the patient's back with the grey side away from the patient.
2. Tie the belt tightly around the patient's waist.
3. Place the legs above and below between the thighs. Pull outward from the inside of the thighs. Attach the 4 buckles to the 4 points of the suspension, in the same way as for the other straps.
4. Place the hoist near the toilet and gently lower the patient. The strap can be used throughout the procedure.



*The inner part of the leg straps of the toilet straps is made in such a way that the patient's legs can be spread, they must not be crossed in the same way as the other straps.*

The legs of the toilet strap are developed to separate the legs.

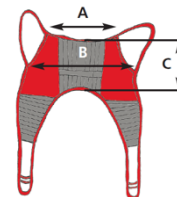


## Choice of strap

The recommended straps for the Poweo® Urban are the straps listed in the 'Accessories' section of this manual, which are manufactured by SCALEO Medical. SCALEO Medical straps are Class I medical devices (Regulation 2017/745) and comply with the European standard ISO EN 10535.

## Dimensions

|     | Body weight (KG) | Without headrest |         |          | With headrest |
|-----|------------------|------------------|---------|----------|---------------|
|     |                  | Shoulder (A)     | Hip (B) | Back (C) | Back (C)      |
| XXS | 12-17            | 38               | 51      | 34       | 60            |
| XS  | 17-25            | 38               | 54      | 34       | 60            |
| S   | 25-50            | 46               | 64      | 38       | 70            |
| M   | 45-85            | 59               | 83      | 47       | 80            |
| L   | 80-130           | 69               | 96      | 49       | 83            |
| XL  | 125-210          | 86               | 110     | 49       | 85            |
| XXL | 200-300          | 101              | 125     | 49       | 90            |



**Reminder:** To avoid any risk of accident, it is strongly recommended to use only the SCALEO Medical straps compatible with the 4-point suspension of the Poweo® hoist. It is also important to choose the appropriate straps depending on the type of transfer and the environment of the room.

All dimensions are approximate and may vary depending on the model and fabric used. For Comfort straps with headrest, add 10 cm to the 'C' dimensions.

## Cleaning and Disinfection

The following cleaning and disinfection program is established in accordance with the *Good practices for the disinfection of medical devices*, published by the French High Council on Public Health.

**DEVICE CLASSIFICATION:** lowest risk class

**RISK OF INFECTION:** low risk

**TREATMENT LEVEL REQUIRED:** low level disinfection

**This procedure applies to any medical device of the category described:** apply the items if applicable.

## General guidelines

- Always observe general health and safety precautions (gloves, goggles, apron and protective mask).

- Disinfect your hands after removing the gloves.
- Respect the expiry dates of the products.
- Follow the recommended dilutions.
- Never mix different cleaning or disinfecting products.
- In case of contact with eyes, rinse thoroughly with water, and call a doctor in case of persistent pain.
- Never perform a cleaning or disinfection operation when this device is powered on: unplug the device from the power outlet.

## Recommended cleaning and disinfection procedures

- The device should be thoroughly cleaned and/or disinfected at least once a month.
- The device must be systematically and completely disinfected between two patients.

### 1. Preparation of equipment for disinfection:

Objective: To facilitate cleaning, reduce the level of contamination, protect personnel and the environment.

### 2. Cleaning:

Objective: To remove dirt.

### 3. Disinfection:

Purpose: Destroy or inactivate microorganisms.

### 4. Drying:

Objective: Protect equipment from contamination once disinfected.

### 5. Storage:

Purpose: Maintain cleanliness of cleaned and disinfected devices.

## Products to avoid for cleaning and disinfection

- Peracetic acid at concentrations > 10%,
- Organic solvents such as halogenated/aromatic hydrocarbons or acetone,
- Products with pH > 8 and < 5,
- Products containing corrosive or caustic substances.

# Periodic inspection and preventive maintenance

The purpose of a periodic inspection visit is to check the safety and maintenance problems of the equipment. This check, as well as preventive maintenance, must be carried out regularly each year (in accordance with Annex B of standard EN ISO 10535 and the recommendations of the health authorities).

## Periodic inspection and Preventive maintenance

|                                                                                   |                                                                                    |                                        |                                   |                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------|------------------|
|  | Ref: FOR_06_21<br>Version: A                                                       | Form linked to:<br>PRO_06_01           | Written by: CASTINEIRA<br>Gilbert | Date: 22/01/2020 |
|                                                                                   | <b>PERIODIC INSPECTION OF POWEO®</b><br><b>With mechanical opening of the base</b> |                                        |                                   |                  |
| Periodic Inspection:                                                              |                                                                                    | Preventive maintenance:                |                                   |                  |
| <b>Customer</b>                                                                   |                                                                                    | Customer SAGE No.:                     |                                   |                  |
| Name:                                                                             |                                                                                    | City/County:                           |                                   |                  |
| Poweo® model: Urban XS 130                                                        |                                                                                    | Serial number:                         |                                   |                  |
| <b>2- Checkpoints</b>                                                             |                                                                                    |                                        |                                   |                  |
| <b>IP</b>                                                                         | <b>MP</b>                                                                          | <b>Achieved actions</b>                | <b>OK</b>                         | <b>Comments</b>  |
| <input type="checkbox"/>                                                          | <input type="checkbox"/>                                                           | Cleaning/Disinfection                  | <input type="checkbox"/>          |                  |
| <b>Base:</b>                                                                      |                                                                                    |                                        |                                   |                  |
| <input type="checkbox"/>                                                          | <input type="checkbox"/>                                                           | Geometry and flatness of the base      | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Cleaning the front and rear wheels     | <input type="checkbox"/>          |                  |
| <input type="checkbox"/>                                                          | <input type="checkbox"/>                                                           | Bottom column attachment               | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Leg opening system                     | <input type="checkbox"/>          |                  |
| <b>Column:</b>                                                                    |                                                                                    |                                        |                                   |                  |
| <input type="checkbox"/>                                                          | <input type="checkbox"/>                                                           | Checking the wear level of the joints  | <input type="checkbox"/>          |                  |
| <input type="checkbox"/>                                                          | <input type="checkbox"/>                                                           | Checking the actuator hooks            | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Battery support                        | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Electric box                           | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Emergency stop                         | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Emergency lowering                     | <input type="checkbox"/>          |                  |
| <b>Suspension:</b>                                                                |                                                                                    |                                        |                                   |                  |
|                                                                                   | <input type="checkbox"/>                                                           | General condition of the suspension    | <input type="checkbox"/>          |                  |
| <input type="checkbox"/>                                                          | <input type="checkbox"/>                                                           | Checking the grip with the lifting arm | <input type="checkbox"/>          |                  |
|                                                                                   | <input type="checkbox"/>                                                           | Rotational axis                        | <input type="checkbox"/>          |                  |

|                                  |                          |                                             |                          |  |
|----------------------------------|--------------------------|---------------------------------------------|--------------------------|--|
| <b>Electrical system:</b>        |                          |                                             |                          |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Connections                                 | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Actuator                                    | <input type="checkbox"/> |  |
| <b>Checking the accessories:</b> |                          |                                             |                          |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Directional handles                         | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Charger                                     | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Remote control                              | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Battery(s):                                 | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Straps      Quantity presented:             | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Other accessories:                          | <input type="checkbox"/> |  |
| <b>Functional check:</b>         |                          |                                             |                          |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Rolling                                     | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Test: no load lift/lower                    | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Test: load lift/lower                       | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Opening/closing the base                    | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Emergency lowering (electrical, mechanical) | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Emergency stop                              | <input type="checkbox"/> |  |
| <b>Labelling:</b>                |                          |                                             |                          |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | Control thumbnail                           | <input type="checkbox"/> |  |
| <input type="checkbox"/>         | <input type="checkbox"/> | SCALEO Medical or distributor               | <input type="checkbox"/> |  |
|                                  |                          | Number of actions completed                 | <b>Date:</b>             |  |

|                     |            |
|---------------------|------------|
| Name of technician: | Signature: |
|---------------------|------------|



***If the periodic inspection reveals problems related to the safety of the patient or caregiver, the inspecting technician must immediately inform the user and add a comment to the inspection report. The equipment should not be used until the problem is resolved.***

SCALEO medical must be informed of the results of inspections carried out on Poweo® devices.

# Technical specifications

## Poweo® Urban technical specifications

The Poweo® Urban is a lightweight device thanks to its all-aluminium structure. The low-flanged version has a space of only 10 cm between the upper part of the feet and the ground.

The lifespan of the Poweo® hoist is 10 years or 11,000 cycles, provided that the recommended periodic inspections and preventive maintenance are carried out correctly.

All Poweo® hoists are manufactured in France in our workshops under the ISO13485 version 2016 quality system.



*SCALEO Medical hoists are compliant with the European directive 2011/65/EU relating to reduction of hazardous substances. An EU declaration of conformity may be provided upon request.*

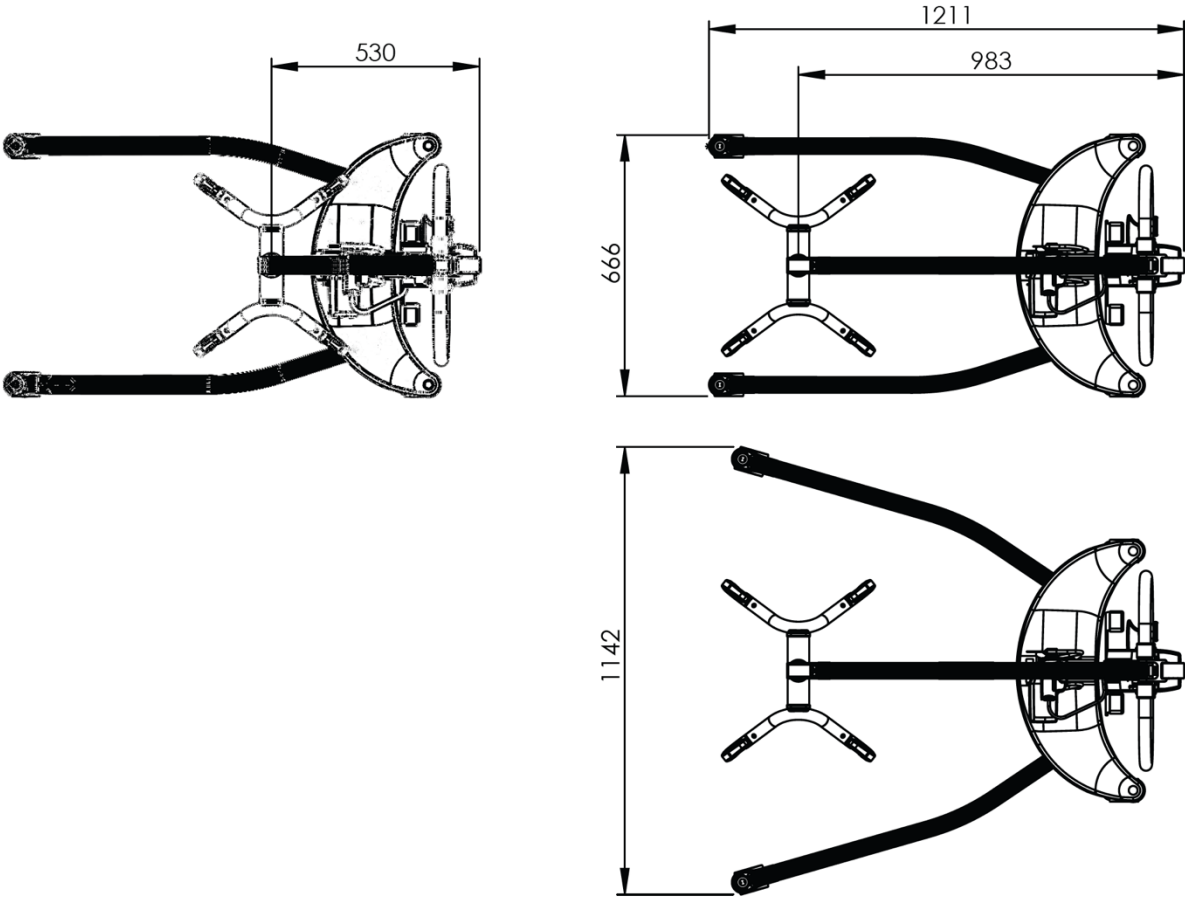


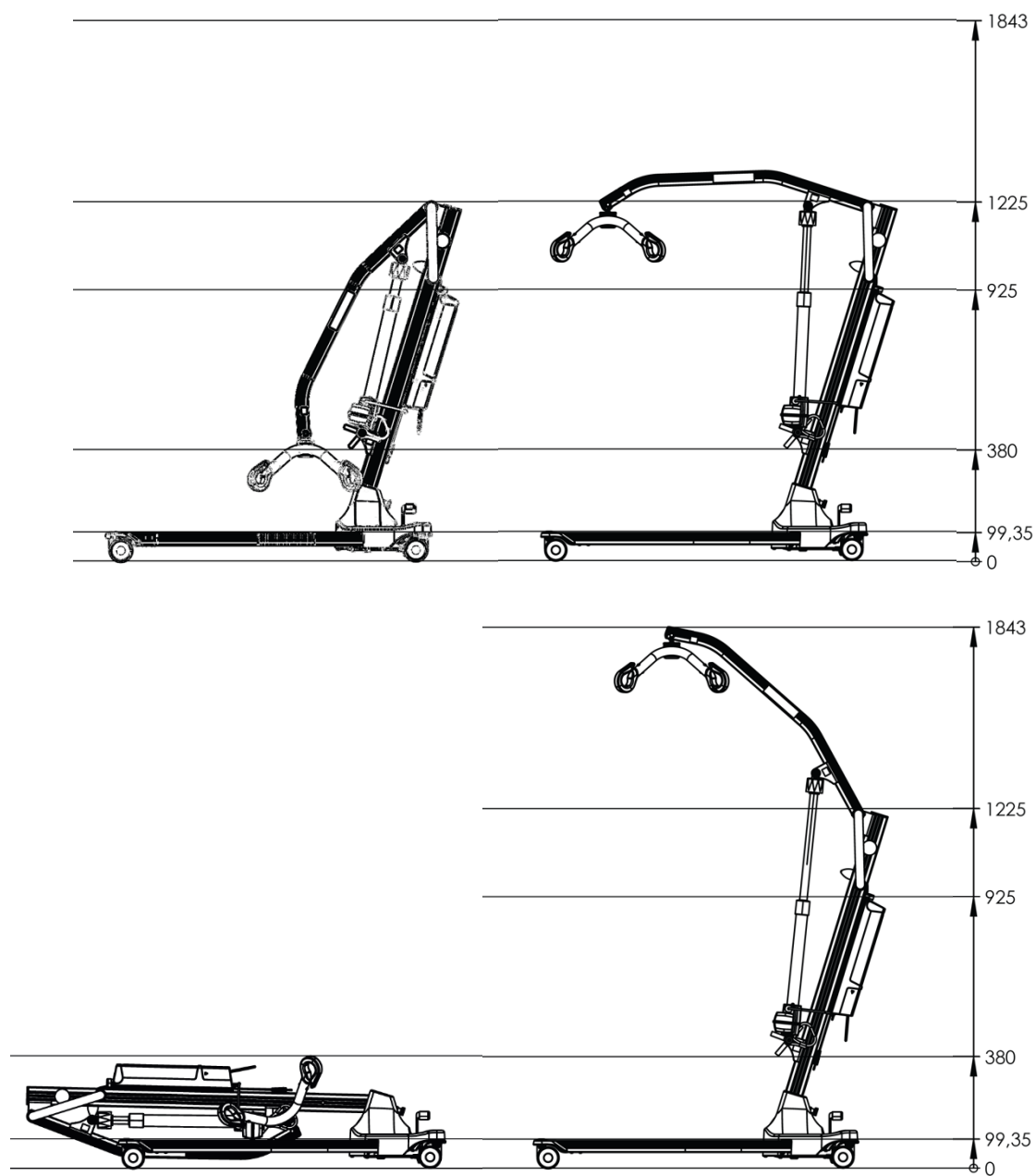
*Battery life is given for a number of 'standard' transfers. A standard transfer is defined as the displacement of 75 kg within a range of 50 cm, around the average position. The number of transfers indicated corresponds to a battery charged up to 100% at the low battery alarm.*



*All measurements refer to a reference device. Measurements on mass-produced products may differ slightly due to tolerances on assembly and manufacturing processes.*

Technical specifications of the standard Poweo® Urban (aluminium and steel)





## Other features

|                             |                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| Compliance with regulations | Class I medical device complying with the European Medical device regulation 2017/745, complying with EN ISO |
| Service Factor              | 2/10                                                                                                         |
| Maximum carrying capacity   | 150 kg (330 lbs).                                                                                            |
| Materials                   | Aluminium                                                                                                    |
| Lifting actuator            | 9000 N                                                                                                       |
| Battery                     | 2x 12V (lead)                                                                                                |
| Front Wheels                | 2 wheels Ø 75 mm                                                                                             |
| Rear Wheels                 | 2 wheels Ø 75 mm with brakes                                                                                 |
| Conditions of use           | For indoor use only                                                                                          |
| IP Classes                  | IPX6 Washable DURA™                                                                                          |
| Operating temperature range | -5°C to +40°C.                                                                                               |
| Noise Level                 | L wa ≤ 50 dB (A)                                                                                             |

## Technical characteristics of removable parts

### Technical specifications of the removable battery

|                             |                                   |
|-----------------------------|-----------------------------------|
| Technology                  | Lead                              |
| Case                        | Linak CAL40                       |
| Voltage                     | 24 V                              |
| Capacity                    | 2.9 Ah                            |
| IP class                    | IPX6                              |
| Compliance with regulations | EN 60601-1:2005 +C1:2006 +C2:2007 |
| Operating temperature range | 41°F to 104°F (5°C to 40°C)       |
| Conditions of use           | For indoor use only               |

**Charger Specifications**

|                             |                                   |
|-----------------------------|-----------------------------------|
| Allowed AC voltages         | 100 to 240 VAC                    |
| Allowed NOC Frequencies     | 50/60 Hz, 1 A                     |
| Maximum load current        | 28 VDC, 1.5 A                     |
| Compliance with regulations | EN 60601-1:2005 +C1:2006 +C2:2007 |
| Operating temperature range | 41°F to 104°F (5°C to 40°C)       |
| Conditions of use           | For indoor use only               |

**Electromagnetic compatibility (EMC)**

- Poweo® hoists require special attention with regard to EMC. They must be installed and commissioned in accordance with the EMC information provided in this user manual.
- RF communication devices and mobile phones may affect Poweo® hoists.
- The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by the manufacturer as replacement parts for internal components, may result in increased emissions or decreased immunity of this device.
- Poweo® lifts should not be used alongside or stacked with other devices. If it is not possible to do otherwise, the Poweo® must be monitored to verify normal operation in the configuration in which it is used.
- According to standard NF EN 60601-1-2:2007, the essential performance of Poweo® is never to perform unwanted movements.

| Guidance and Manufacturer's Declaration - Electromagnetic Emissions                                                                                           |            |                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Poweo® is designed for use in the electromagnetic environment specified below. The user of the Poweo® must ensure that it is used in such an environment. |            |                                                                                                                                                                                |
| Emission test                                                                                                                                                 | Compliance | Electromagnetic Environment - Guidelines                                                                                                                                       |
| RF emissions<br>CISPR 11                                                                                                                                      | Group 1    | The Poweo® uses RF energy only for its internal functions. As a result, its RF emissions are very low and are not likely to cause interference with nearby electronic devices. |

|                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                                                                                                                                                     |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| RF emissions<br>CISPR 11                                                                                                                                                                                                                                                                                                                                                                                           | Class B                                                       | The Poweo® can be used in all premises, including domestic premises and those directly connected to the public electricity network supplying the domestic premises. |                         |
| Harmonic emissions<br>IEC 61000-3-2                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                                                |                                                                                                                                                                     |                         |
| Voltage fluctuations/Flicker<br>IEC 61000-3-3                                                                                                                                                                                                                                                                                                                                                                      | Not applicable                                                |                                                                                                                                                                     |                         |
| Recommended separation distances between portable and mobile RF communication equipment and the Poweo®                                                                                                                                                                                                                                                                                                             |                                                               |                                                                                                                                                                     |                         |
| The Poweo® is designed for use in an electromagnetic environment in which RF radiation disturbances are controlled. The user of the Poweo® can help prevent electromagnetic interference by maintaining a minimum distance between the portable and mobile RF communication equipment (transmitters) and the Poweo®, as recommended below, depending on the maximum transmission power of the communication device |                                                               |                                                                                                                                                                     |                         |
| The rated maximum output power of the transmitter (W)                                                                                                                                                                                                                                                                                                                                                              | Separation distance according to frequency of transmitter (m) |                                                                                                                                                                     |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                    | from 150 kHz to 80 MHz                                        | 80 MHz to 800 MHz                                                                                                                                                   | from 800 MHz to 2.5 GHz |
|                                                                                                                                                                                                                                                                                                                                                                                                                    | Not applicable                                                | d = 0.35vP                                                                                                                                                          | d= 0.7vP                |
| 0.01                                                                                                                                                                                                                                                                                                                                                                                                               | Not applicable                                                | 0.04                                                                                                                                                                | 0.07                    |
| 0.1                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                                                | 0.11                                                                                                                                                                | 0.22                    |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                  | Not applicable                                                | 0.35                                                                                                                                                                | 0.7                     |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                 | Not applicable                                                | 1.1                                                                                                                                                                 | 2.2                     |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                | Not applicable                                                | 3.5                                                                                                                                                                 | 7                       |

## Additional Safety Measures



***Patient hoists can tip over if not used correctly. Not conforming to the following safety measures could lead to serious bodily harm to the patient or caregiver. So please read the following instructions carefully.***

1. Before executing any maintenance, cleaning, or transport procedure, be sure to unplug the hoist from the mains.
2. If the hoist breaks down or has a malfunction, do not try to repair it yourself. You should seek the help of a qualified technician, an authorised distributor, or the customer service department of SCALEO Medical.
3. Always demand original authorised spare parts.
4. The proper use of the Poweo®, just like the use of any electrical and mechanical device requires the abidance to certain fundamental and common rules, such as not pulling the electrical power cables in order to unplug the power cord after recharging the battery.
5. Apply the brakes when the hoist needs to be still. Check that it is properly immobilised.
6. For cleaning the equipment and the accessories, use standard and approved products.
7. Recharge the battery every evening.
8. Abnormal use:
  - Using the hoist while the low-battery alarm is on.
  - Using functions without explanation.
  - Use of the hoist or its accessories by children.
  - Using the hoist with a weight heavier than the maximum safety load.
  - Outdoor use.
  - Use, with or without a patient, on a slope.
  - Moving the hoist over non cleared floors, or thick carpets.
  - Plugging the hoist's charger onto incorrect voltage. This may cause charger or battery destruction and/or malfunctions of the battery charging function.

- Plugging in electrical appliances other than those originally intended.
- Cleaning the hoist with excessive water, or with a pressurised hose.
- Guiding the hoist by using the suspension or other non intended parts.
- Using damaged, torn, or worn straps.



**Injuries or damage to equipment may occur if the Poweo® is not properly used, specifically if:**

- a. The protective covers of the chassis are taken off by non qualified personnel,**
- b. Regular maintenance/ inspection is not set up,**
- c. The maximum load capacity is exceeded,**
- d. Repairs or electrical modifications are made by non qualified personnel.**

## Warranty and Liability

Poweo® Urban hoists are guaranteed for four (4) years, except for the electronic components and the actuator which are guaranteed for two (2) years and the batteries and straps which are guaranteed for one (1) year.

- Any intervention on the machine contrary to this manual will entirely void the guarantee.
- Any abnormal use or non compliant usage will result in the cancellation of the guarantee.
- Any modifications to the device will render the guarantee void.
- Any technical intervention made by non qualified personnel or a non authorised distributor will render the guarantee void.

Batteries that are not maintained in accordance with the maintenance procedure outlined in this user manual will not be covered under warranty.

SCALEO Medical assumes no liability for any injury or harm and consequences thereof directly or indirectly caused to operators, patients, or any third party in the following cases:

- Non compliance with the instructions and recommendations provided in this User Manual.
- Using un-adapted spare parts.
- Assembling, adjusting and repairing carried out by non qualified personnel or a non authorised distributor.
- REGULAR PREVENTIVE AND ANNUAL MAINTENANCE IS NOT CARRIED OUT in accordance with Annex B of the EN ISO 10535 standard, and the advice and instructions presented in this manual.

## Life/Disposal

SCALEO hoists and medical accessories are at least 90% recyclable.

The end-of-life disposal of the device must be done respecting the recycling circuit and local applicable regulations. This particularly concerns the electrical and electronic equipment (WEEE directives) and the lead battery (B.A. directives).

For waste management that respects the environment, please kindly contact the sales manager in your area

# EU Declaration of Conformity



## EU Declaration of Conformity *Déclaration UE de conformité*

Manufacturer / Fabricant

**SCALEO MEDICAL**  
107 rue Dassin, Parc 2000, 34080 Montpellier France

(SRN):FR-MF-000002929

**We hereby declare under our sole responsibility that the following product(s)**  
*Déclarons sous notre entière responsabilité que le(s) produit(s) suivant(s) :*

**POWEO® patient lifter devices listed in annex 1**  
*Lève personnes de la gamme POWEO® listés en annexe 1*  
IUD-ID de base : 3664844POWLPAH

**Class I, rule 13 according to appendix VIII of the REGULATION (EU) 2017/745 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL,**  
*Classe I, règle 13 suivant l'annexe VIII du RÈGLEMENT (UE) 2017/745 DU PARLEMENT EUROPEEN ET DU CONSEIL,*

**Are compliant with the REGULATION (EU) 2017/745 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and amendments concerning medical devices and the French Public Health code by compliance to the Harmonized European standards EN 10535: 2007, EN 14971: 2012 (patient-lifter, stretchers and slings), EN 60601-1:2006+AC:2010+A1:2013, EN 60601-1-2:2001 + A1:2006 (patient lifter only) and compliant with the DIRECTIVE 2011/65/UE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment**

*Sont conformes au RÈGLEMENT (UE) 2017/745 DU PARLEMENT EUROPEEN ET DU CONSEIL relatifs aux dispositifs médicaux et à ses amendements, et au Code de la Santé Publique par conformité aux normes harmonisées européennes EN 10535 : 2007, EN 14971: 2012 (lève-personnes, civières et sangles), EN 60601-1:2006+AC:2010+A1:2013, , EN 60601-1-2:2001 + A1:2006 (lève-personne uniquement) et conforme à la directive 2011/65/UE du Parlement européen et du Conseil du 8 juin 2011 relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques.*

**Montpellier, February 20th, 2023**  
*Montpellier, le 20 Février 2023*

**Michel MALGOUYRES**  
**Président**

DOQA612 -EU Declaration of conformity POWEO Passive lifters - 20230220

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## EU Declaration of Conformity Déclaration UE de conformité

### ANNEX 1

| Reference | Description                                                                                       | Class   | UDI-DI        |
|-----------|---------------------------------------------------------------------------------------------------|---------|---------------|
| S11 010   | Poweo® Nursing with Linak actuator & electronic box w/o screen                                    | Class I | 3664844003039 |
| S11 011   | Poweo® Nursing with Linak actuator & electronic box with screen                                   | Class I | 3664844003022 |
| S11 013   | Poweo® Nursing low base, with Linak actuator & electronic box with screen                         | Class I | 3664844003015 |
| S16 020   | Poweo® 215 with SLS suspension, Scaleo elect. box, Linak jack, NiMh battery                       | Class I | 3664844003008 |
| S16 022   | Poweo® 215 with SLS suspension, Linak electronic box with screen                                  | Class I | 3664844002995 |
| S16 024   | Poweo® 215 with ICU suspension, Scaleo elect. box, Linak jack, NiMh battery                       | Class I | 3664844002988 |
| S16 026   | Poweo® 215 with SLS suspension., Linak jack & electr. Box maintenance screen, Lithium Ion battery | Class I | 3664844002971 |
| S16 030   | Poweo® 200 with electric tilting suspension                                                       | Class I | 3664844002964 |
| S16 040   | Poweo® 200 with electric tilting suspension and Scalix® weighing                                  | Class I | 3664844002940 |
| S16 050   | Poweo® 300 with 4 points SLS suspension                                                           | Class I | 3664844002933 |
| S16 051   | Poweo® 300 with electric tilting suspension                                                       | Class I | 3664844002926 |
| S16 052   | Poweo® 300 with 4 points ICU suspension                                                           | Class I | 3664844003190 |
| S16 064   | Poweo® 140 with Quick Up suspension                                                               | Class I | 3664844002919 |
| S16 068   | Poweo® 180 with Quick Up suspension                                                               | Class I | 3664844002902 |
| S13 601   | Poweo® Urban with Linak actuator & control box                                                    | Class I | 3664844003176 |

## Contact us

The information and advice provided in this user manual is also intended to inform you of the importance of paying attention to safety measures and the necessity of regular maintenance.

This is a matter of responsibility for your establishment, and a question of safety for your patients and staff.

*Please do not hesitate to contact us if you require electrical diagrams, lists of components, descriptions and/or any information that could be useful for your qualified technicians.*



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