USER MANUAL

SCALEO MEDICAL

Poweo® 200 & Poweo® 215

Patient lifters

CE MADE IN FRANCE

Content

Warning and safety instructions

This user manual contains important safety instructions and information. Carefully read this manual before using the lifters.

This user manual concerns:

- The Poweo® 200 referenced S16030 (with electric mobile suspension), S16035 (witout suspension) and S16040 (with electric mobile suspension and Scalis ®).
- The Poweo® 215 referenced S16020 and S16022 (with SLS suspension) and S16024 (with ICU suspension).

The Poweo® 200 and the Poweo® 215 use the same technical base, but the way they are equipped changes their maximum lifting capacity:

- The maximum lifting capacity is 215 kg when the Poweo® is equipped with a standard SLS or ICU suspenstion.
- The maximum lifting capacity is 200 kg when the Poweo® is equipped with an electric mobile suspension.

The Poweo® 200 and 215 are designed and manufactured in order to safely transfer patients up to 215 kg or 200 kg. Beyond this weight, do not use these lifters. Contact SCALEO Medical, for advice on the best lifter that satisfies your transfer needs.

When using a Poweo® with a stretcher, a caregiver should be dedicated to control the position of the stretcher, in order to avoid any undesired movements of the patient during the transfer. The best solution is to use a tilting suspension that allows a precise adjustment of the angle of inclination.

In order to use the Poweo® accessories and components: Scalis® weighing system, transfer slings, stretchers, please refer to their specific instructions for use.

The slings recommended for the Poweo® patient lifters are the SCALEO Medical slings. They have been specifically developed for the suspensions of the Poweo® patient lifters. It is your responsibility to ensure that the slings used are compatible with the lifter: the manufacturer

of the sling must have carried out tests according to standard EN 10535 (weight resistance, resistance of fasteners, and length of loops) ensuring the safety of the assembly and clearly indicating the compatibility of its sling with the lifter in its documentation. If this is not the case, do not use the sling in combination with the lifter: the patient could fall and be seriously injured. SCALEO Medical refuses any liability in the case of an incident while using slings other than those specifically made for their lifters.

Torn, cut, frayed or broken slings can fail, resulting in serious injury to the patient and/or to the user. Only use slings in good condition.

The slings and the lifter have to be used to lift and transfer people. Never use the patient lifters to lift or to carry objects.

Avoid transferring patients on thick carpeted floors. Ragged surfaces and obstacles may block the wheels. If the force is too important, the lifter could be destabilized and can tip over, especially if the lifter is being used at its maximum weight capacity. In these cases, we recommend to open the legs of the lifter before performing the transfer.

The Poweo® must NEVER be used to transfer, lift or transport people over slopes.

Like all patient lifters, the Poweo® is not a transport device. It must be used only for short distance transfers and is not intended to replace wheelchairs nor other types of transport devices.

The maximum load can be lifted for about 1 minute. The delay between two lifts of the maximum load shall be of approximately 10 minutes to let the actuator cool down.

The first Poweo® 200 was commercialized on July 27th, 2018 and the first Poweo® 215 on December 17th, 2017.

References of the Poweo® 200 - 215 models

- The references of the **Poweo® 200** lifter are the following:

  - S16030 Poweo® 200 with with electric tilting suspension
  - S16035 Poweo® 200 without SLS suspension
  - S16040 Poweo® 200 with electric tilting suspension and Scalis® weighing system

The reference S16035 of the Poweo® 200 without suspension, allows to install one of the three following suspensions on the device:

  - S16 21 029 ICU suspension – Intensive Care Unit
  - S16 21 021 SLS suspension – Safe Locking System
  - S19 10 200 Electric mobile suspension for the Poweo® 200

In case the S16 21 029 and S16 21 021 suspensions are installed on the Poweo® 200, the control buttons of the electric suspension will be inactive.

- The references of the **Poweo® 215** lifter are the following:

  - S16020 Poweo® 215 SLS suspension, Scaleo electronics, removable NiMh battery and Linak Actuator
  - S16022 Poweo® 215 SLS suspension, Linak electronic box with maintenance screen
  - S16024 Poweo® 215 ICU suspension, Scaleo electronics, removable NiMh battery, Linak Actuator

Symbols and pictograms

Symbols used in this manual:

This symbol is used to point out information related to safety in the working environment, where injury may occur if the information is disregarded or ignored. Follow these instructions carefully.

This symbol indicates important information regarding the use of the equipment. If not taken into consideration, it may lead to damage or functional defects to the lifter or other equipment.

This symbol indicates important and useful information. If taken into consideration, it will help the operator of the lifter to work efficiently. It may help simplify routines and to explain complicated facts.

Symbols used in labels:

Symbol	Meaning
	Manufacturer
	Date of manufacturing
REF	Device reference
SN	Device serial number
10° 40°	Temperature range
	Do not burn
SECURITY PIN	Security pin: do not remove this pin. Periodically inspect this pin.
	Warning : read user manual for instruction
	Indoor use only
	Do not open or unmount

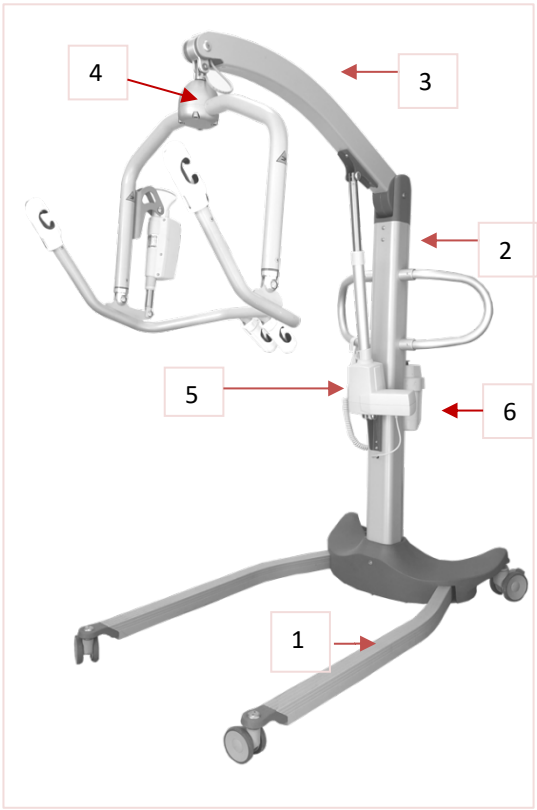
Symbol	Meaning
	Read user manual for instruction
	Direct current power source
	Class II electrical protection type
	B type applied parts
	Danger : the hand may be pinched
max 200 kg max 440 lbs	Maximum safety load (excluding the sling or the stretcher)
CE	In accordance with all applicable European regulations
	Contains potential wastes of electrical or electronic equipment
MD	Medical device

General information about the Poweo® 200-215

You have recently purchased a Poweo® 215 or a Poweo® 200 patient lifter.
We would like to thank you for the trust you have placed in our company.

The Poweo® lifter is delivered in a carton box, including the following:

1. A base with electrical opening of the legs
2. An equipped column
3. An arm
4. A 4-point (SLS or ICU) or a tilting suspension depending on your order
5. An electrical lifting actuator with a mechanical emergency lowering function
6. A removable battery with an emergency shutdown button
7. A remote control (not pictured)
8. This user manual (not pictured)
9. A battery charger (not pictured)
10. Special wrenches, screws and bolts for the assemblage (not pictured)



Accessories and components

The Poweo® 200 and 215 can be used with the following accessories and components (not included):

- Scalis® scale
- Transparent stretcher in 2 parts SCALEO®
- Poweo-PC connection cable for the Poweo® Service Tool

The Poweo® 200 can be used with the following slings:

- All day slings
- Toilet slings without head support

- Comfort slings with head support
- Net bath slings, in polyester

The Poweo® 215 can be used with the following slings:

- Comfort polyester slings
- Soft polyester slings, breathable fabric
- Vinyl slings comfort
- Polyester net bath slings
- Post-operative slings for amputee patients
- Hammock slings
- Polyester home transfer slings
- Polyester toilet slings

Intended use

The Poweo® 200 and the Poweo® 215 are mobile passive patient lifters. They are intended to be used on horizontal floors to safely and comfortably transfer a dependent person of up to 200 or 215 kg (depending on the model), without effort and reducing the risks of work-related injuries to the caregiver.

The Poweo® 200 and the Poweo® 215 are multipurpose and suitable for hospital use, from daily transfers to the most specialized transfer in intensive care units.

Contraindications

The Poweo® 200 and the Poweo® 215 are NOT intended to be used:

- On patients with spine curvature,
- On patients with muscle spasm,
- On patients weighing more than the maximum safety load of the patient lifter,
- To transfer patients for long distance,
- To transfer patients over slopes,
- To replace wheelchairs or other types of transport.

Assembly & commissioning instructions

Instructions for assembly

Before unpacking the patient lifter, please make sure the package is not damaged. If that is the case, immediately notify in written to the freight forwarder and contact SCALEO Medical.

These instructions for assembly concern the standard version of the Poweo® 200 and 215. For the instructions of special models, please contact SCALEO Medical.

Please follow the instructions of this manual to properly assemble the patient lifter. If you note any missing or defective piece, do not use the lifter; contact your distributor or SCALEO Medical.

Using the Poweo® patient lifters requires a good understanding of transfer systems, assemblage and disassemble procedures. Contact SCALEO Medical if you require further information.

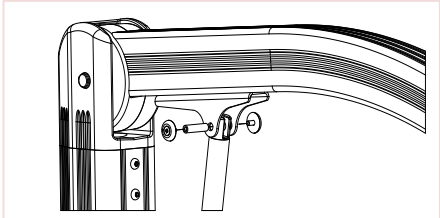
Unpacking and assembling the Poweo® lifters require two people.

SCALEO Medical tests and charges all batteries before packing, however, the batteries must be completely recharged before the first use.

Our lifters and batteries are always delivered with the emergency stop button on the "ON" position. Always remember to release the emergency stop button on "OFF" position before operating or charging the unit.

To start: Unpack the lifter by removing all protection devices and taking the lifter out of its carton box.

Step 1: Install the actuator.
Install the actuator placing one end on the arm and one end on the mast of the lifter, thanks to a hinge. Secure the installation by introducing one spacer and fixing it with two bolts, one at each side. Follow the same procedure for the other end.



The bolts are coated by the “LOCTITE 243” to avoid the lost of screws during the lifting operating mode.

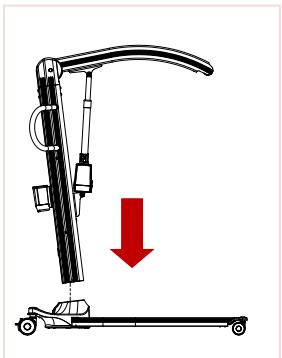
The “LOCTITE 243” is a medium thread lock coated on the screws for the future installation at the customers facilities.

Tighten with a hexagonal wrench or the provided special wrench, without using too much force: the screw head would be deteriorated and it would be impossible to dismount it later.

These operations are very important for the security of the patient and caregivers. Without the security pins, the column or the arm may fall and provoke serious injuries.

You must ensure that these pins are properly secured and perform regular inspections: screws must ALWAYS be present and in good condition. A label near the pins allows a quick identification for inspection.

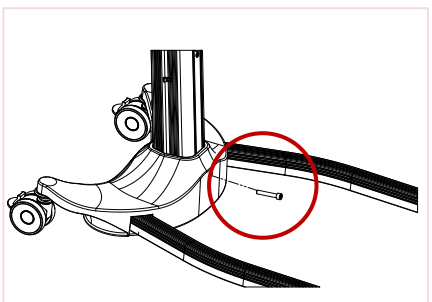
Step 2: Install the mast on the base.



Step 3: Secure the installation with the provided screw and turn it inside the column, without tightening it.

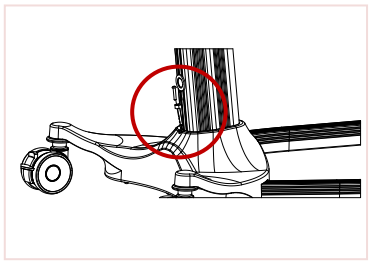
It is VERY important to properly secure the assemblage: the stability of the hoist highly depends on a strong link between the base and the mast.

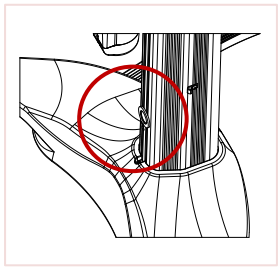
The screw is equipped with a thread lock to prevent the screw from loosening. Install the screw on two or three tread without completely tightening.

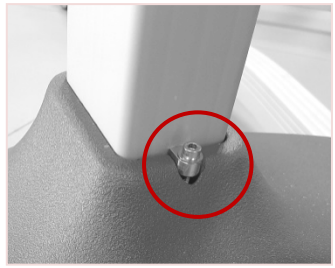


Step 4:

a) Install the clearance removal wedge and tighten the screw so that the column presses the front part of the base.



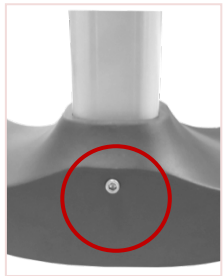




It is normal for the screw and the clearance removal wedge not to be inside the base of the patient lifter. As long as the screw is secured, the installation is safe.

b) Then tighten the main screw to secure the assembly.

Final result:

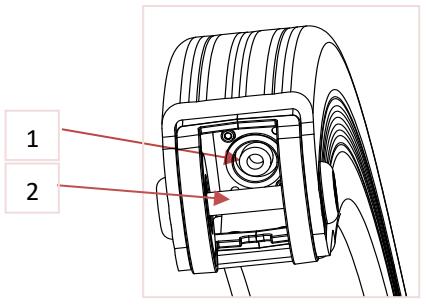


Installation of the suspension

Step 5: For the Poweo® 200 equipped with a tilting suspension.

a) Prepare the installation:
- Check the female jack plug found in the arm (1)
- Remove the fixing axis (2)

b) Connect the jack plug to the female connector.



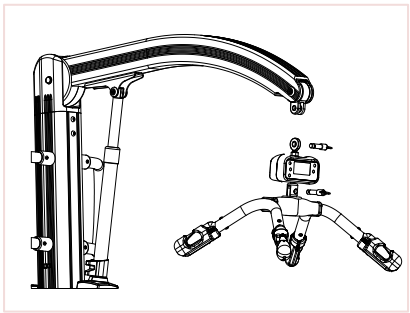
The female jack plug is inside the arm.
The arm end is recessed to lead the cable and protect it.

c) Attach the suspension with the axis and the bolts.

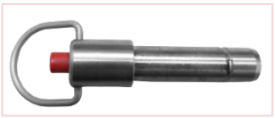
The screw is equipped with a thread lock to prevent the screw from loosening. Tighten the screws firmly. Install the protection.

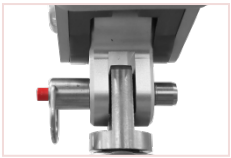
Do some rotational tests before using with a patient.

Step 5 (bis): for the standard 4-point suspension (SLS or ICU).



Install the suspension with the safety pins or with the quick locks (available in option). The installation with the quick locks does not require the use of tools. By pressing the red button the fixing is done quickly. The red button should return to its initial position: fixation assured.



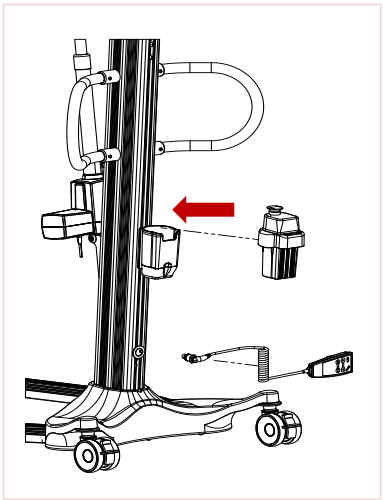


Step 6: Slide the battery into its compartment.

Before using the Poweo® make sure the emergency button is on the "OFF" position. To do this, turn the button clockwise.

OFF position of the emergency button: the lifter is powered.

ON position of the emergency button: the lifter is not powered.



Position the battery into its compartment, and guide it for the best electrical contact between the battery and battery support contacts.

Step 7: Connect the remote control.

Connect the remote control with the plug and make sure that the wire connection is aligned with the mast remote control port. Once aligned, press on the wire to insert the plug.

Step 8: Test the lifter.

Try lifting and lowering, opening and closing the legs to make sure that everything is in order.

Step 9: Remove the battery and recharge it.

Before first use, the battery must imperatively be 100% charged. Please refer to the “Battery management” section for this operation. Your lifter will be ready for use as soon as the battery is charged.

Whenever possible, keep the carton box and packing accessories for later transportations.

Commissioning the Poweo® 200 and Poweo®215

SCALEO Medical provides an universal power supply adapted to any voltage/frequency value. Before charging the battery, please check that the plug provided fits to your local AC outlet.

If the place of use was informed before ordering, SCALEO Medical will provide the right type of AC cord.

Before each use check the correct installation of the lifter and its accessories, verify proper operation before using with a patient.

The control points presented below only take a few minutes and allow you to ensure a safe use of your Poweo® patient lifter:

- Make sure that no part is damaged or show signs of wear,
- Check the tightness of all the safety screws and pins,
- Inspect accessible screws and make sure none are loose,
- Check the lights on the remote control: battery indicator should be solid green; maintenance indicator should be off,
- Check the features: raise and lower the arm, leg opening and emergency stop.

In case of malfunction or doubt about the proper operation, do not use the Poweo® patient lifter. Inform your technical service, your distributor, or contact us at the address on the back of this manual.

The Poweo® patient lifters are designed to be used in room temperature, +10 to +40°C. This should be taken into consideration when transporting the lifter; and therefore, keeping it in a temperate part of the vehicle. Alternatively, the lifter must rest in a temperate room until the equipment has achieved proper working temperature.

Security devices

Emergency stop

The Poweo® patient lifters are equipped with an emergency stop button that will turn off the lifter when pressed.

The emergency stop button is located on the top of the battery on the Poweo® 200 and 215 models equipped with the SCALEO® Power pack battery and on the front of the Poweo® 215 model equipped with Linak® control box.

Once pressed, it must be turned clockwise to release it.

Emergency lowering devices

In case the remote control does not operate correctly, an emergency electric lowering is still possible by activating the hidden button located behind the yellow label of the base.

Perforate the center of the yellow sticker and press the hidden button with a small screwdriver and the patient lifter will perform an emergency lowering. Apply and maintain pressure on the button to obtain the desired height.

In case of a complete failure of the electronics, a mechanical emergency lowering is available.

Activate the RED lever/trigger on the actuator by pulling it upward, and maintain the position until the actuator reaches the desired height.

Lowering speed will depend on the charge and the pressure on the trigger. In case of use, make sure that a chair or a bed can receive the patient when being lowered.

According to the ISO EN 10535 standard, the Poweo® will NOT operate with a patient weighing more than its maximum safety load capacity. For the Scalis® equipped version, the scale will display a ">MAX!" message to indicate that the patient lifter is overloaded.

The opening of the legs is also secured: in the case of a contact between a leg and an obstacle, the legs will automatically stop moving. If during the leg opening, the opening stops, it means that the security device is operating, so the transfer of the patient is not secured.

Battery management

Models with SCALEO® electronics are equipped with a NiMh battery + Poweo® Power Pack charger, which contains advanced safety features, including electronic protections against short circuits, over voltages and over temperature. If one of these parameters exceeds the specified value, the battery will stop working, preventing the user from overheating and the risk of fire.

Models with Linak® electronics are equipped with a lead 24 VDC battery, which also includes all the necessary safety devices. Therefore, the use of SCALEO Medical and Linak® batteries and chargers is perfectly safe.

When the LED indicator of the remote control turns red, it means that the battery needs to be recharged. There is still enough power to perform at least one patient lowering.

When the battery discharge threshold is reached, the user is alerted by a beep. If the battery does not recharge quickly, the display on the control box turns off and the up / down function will not work.

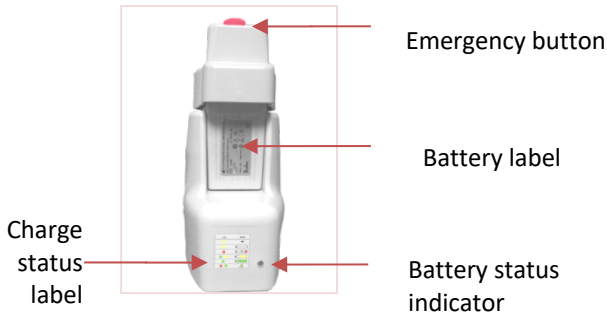
Charging the battery

In accordance with current regulations, the Poweo® does not work while the battery is being charged directly into the patient lifter.

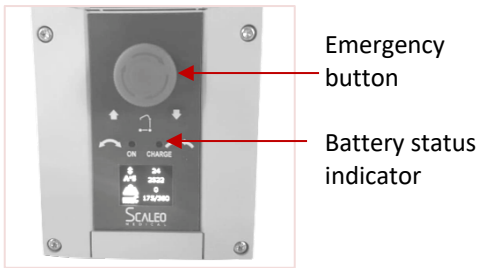
If the emergency stop button is pressed, the battery will not charge.

The Linak® battery can be charged directly onto the patient lifter or using the optional wall charger.
The SCALEO® battery is exclusively charged using the external charger which is supplied by default.

SCALEO® battery



Linak® battery



To charge the Linak® battery:

1. Connect the AC cable to the AC outlet,
2. The green «ON» light turns on,
3. The orange «CHARGE» light turns on, only if the battery is connected correctly.

To charge the SCALEO® battery:

1. Connect the charger to the AC outlet,
2. Place the battery in the battery charger,
3. Once the battery is detected in the charger, the LED indicator lights up.

Models including SCALEO® electronics take 2h30 to 5 hours to recharge 100% empty batteries.
Models including Linak® electronics take 8 to 10 hours to recharge 100% empty batteries.
For intensive daily use a daily recharge will be necessary.

The batteries cannot be overcharged. However, to ensure better performance and longevity, it is recommended to let them rest for a few minutes after charging and before use. It is also important to fully charge the battery.

Upon request, the charger's power connector can be delivered including a plug that ensures additional protection of the charger against splashing water. Remove this plug for charging, and be sure to replace it after recharging.

To charge the patient lifter, use only the supplied cable: charging a battery with an unsuitable cable can cause the cable and/or battery to overheat and damage all components, or cause a fire.

After each charge, be careful to unplug the power cord without pulling it to avoid damaging the cord.

It is recommended to have 2 batteries to replace the discharged battery with the charged one. Therefore, Poweo® will remain functional at all times.

Using the external charger

The external charger allows you to charge one battery while a second battery in being used.

To remove the Linak® battery from its compartment (device or wall charger):

1. Hold the handle with a hand facing up,
2. Close your hand while holding the handle,
3. Remove the battery by pulling towards you.

The handle top should be released from the bracket retaining lugs.

For installation, proceed with the reverse operations, taking care to verify that the battery is inserted correctly.

The removal of the SCALEO® battery does not require any manipulation. It simply needs to be removed by pulling it towards you. Its shape prevents it from being accidentally connected backwards or improperly, either in the patient lifter or in the external charger.

The LED indicator of the charger displays the status of the recharge. Depending on the color of the LED the user can monitor the different status:

CHARGER LED COLOR	MODE
Yellow - ●	The battery is not connected to the charger/ Reset and battery analysis
Orange - ●	Fast recharge
Alternately green and yellow - ● / ●	Compensation charge
Green - ●	Slow charge/end of recharge
Alternately green and orange - ● / ●	Error or battery overheat

Maintenance of the battery

Never recharge batteries in extreme temperatures. If the temperature is too high, the battery charger may stop functioning for security reasons. If this occurs, place the battery and the charger in a cool place, wait a few minutes so the security device let the charge begin, and try again to recharge the battery.

If you plan to not use your lifter for a long time (≥ 1 month), proceed as follows to keep your batteries in good conditions:

- **Fully recharge your battery,**
- **Push the emergency button to OFF position,**
- **Remove the battery from its compartment,**
- **Store your battery charged in a cool, dry, well ventilated area,**
- **Check periodically (every month) the status of charge of the batteries: even if they are disconnected, batteries tend to discharge.**

Compliance with these precautions will help you keep your batteries longer and use your equipment in the best conditions. Failure to follow these instructions will void the warranty of batteries that would come to fail due to lack of maintenance.

In case of an intensive use failing to meet the service factor of the lifter (2/10), a "battery empty" false alarm may appear on the remote control. In this case do the following:

- **Remove the battery from its compartment,**
- **Wait 10 seconds,**
- **Put the battery back on its compartment.**

This operation allows the electronics to reset and cancels the “false” alarm.

The controls

Remote controls for Poweo® 215 and Poweo® 200 equipped with SCALEO electronics

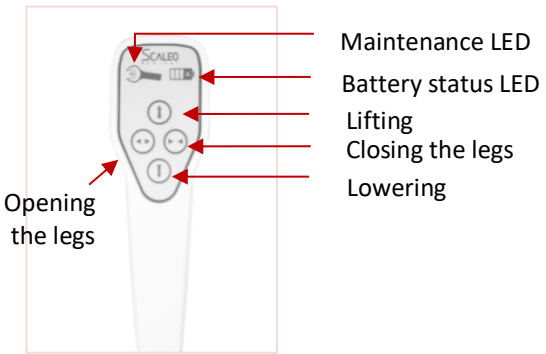
The Poweo® patient lifter equipped with the SCALEO® power pack battery has two controls: one remote control and one fixed control panel installed on the column of the patient lifter. The user can

activate the functions of the lifter (up, down, opening of the legs, closing of the legs...) from both controls indistinctly.

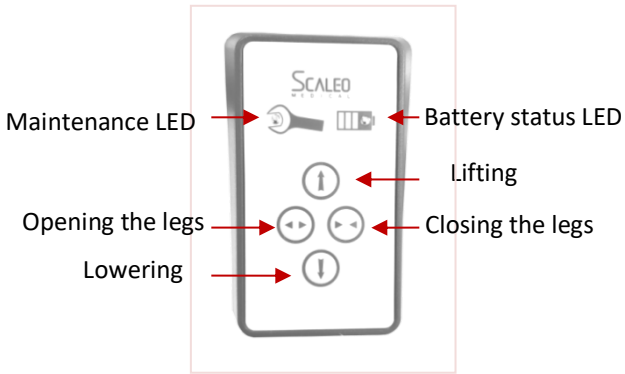
The Poweo® 215 with the standard 4-point suspension is equipped with "4 buttons" controls: lifting, lowering, opening of the legs, closing of the legs. The Poweo® 200 with the electric tilting suspension is equipped with "6 buttons" controls: lifting, lowering, opening of the legs, closing of the legs, sitting position and lying position.

4 buttons controls for Poweo® 215 with the standard 4-point suspension

Hand control

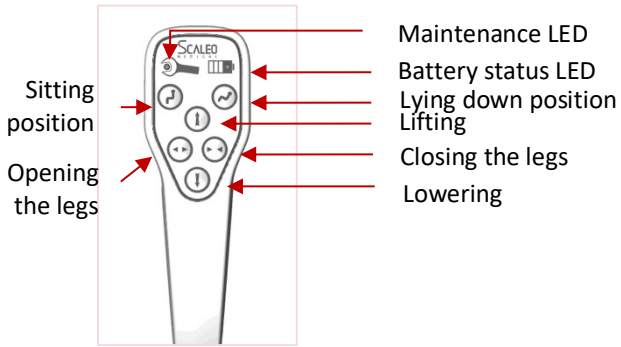


Control panel

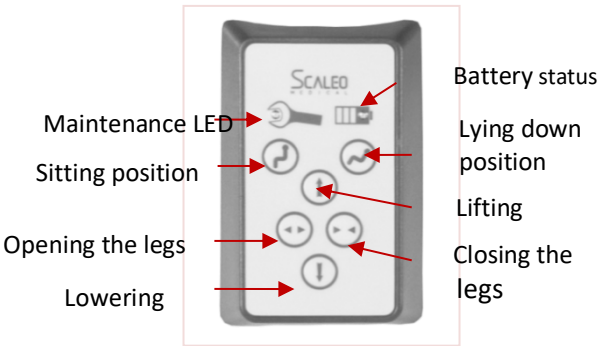


6 buttons controls for the Poweo® 200 with electric tilting suspension

Hand control



Control panel



Understanding the information of the remote control

The maintenance LED indicator is used to warn a possible malfunction AND the periodic inspection status. Therefore, it can display multiple consecutive status. Example: in case of default AND periodical inspection date exceeded, the LED displays alternately flashing RED and solid ORANGE.

Managing the maintenance LED status is easy:

- Continuous solid light = default.
- The light is continuous and the lifter is not operating = main fuse replacement is necessary.
- Flashing light = periodical inspection management.

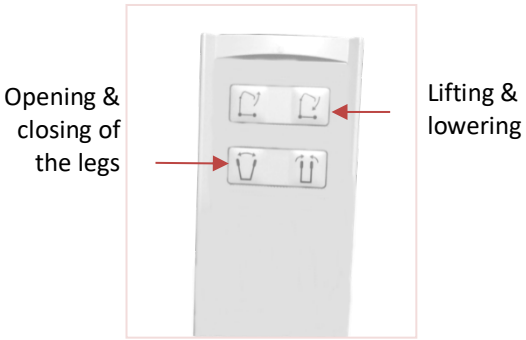
According to the EN 10535 standards, the period between periodical inspections is by established by default to 12 months. The periodical inspection time setting can be changed using the Poweo® service tool software.

BATTERY LED	MAINTENANCE LED
● – Solid green = more than 10 cycles are still possible.	● – Solid orange: default. Use the Poweo® service tool software or call us for maintenance.
● – Solid red: = less than 10 cycles left before battery empty status.	● – Flashing orange: periodic inspection must be performed within 2 months.
● – Flashing red: battery alarm (only one cycle left before the battery is completely empty).	● – Flashing red: periodic inspection has not been performed on time.

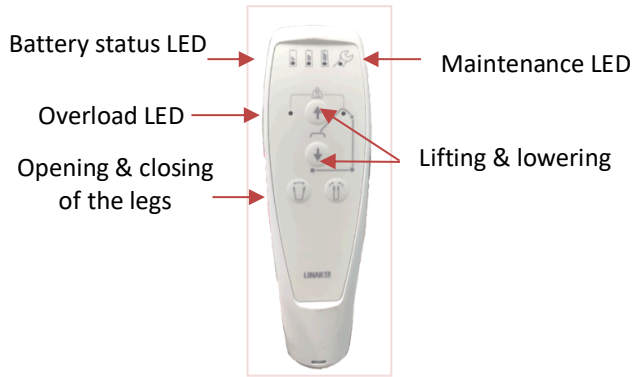
Remote controls for Poweo® 215 equipped with Linak® electronics

Two remote controls are available: the standard remote control for models with a control box without display, and the remote control for models equipped with a control box with display.

Standard remote-control



Remote-control for control box with display



The remote control for the control box with display provides further benefits in use:

- Compact, light and ergonomic,
- Anti-slip coating on the back to prevent dropping,
- Bio compatible materials,
- Exchangeable cable for long lasting usage,
- Protected against pressurized water (IPx6).

It also provides essential information about battery status, overload occurrence and service:

- Overload indicator: if the lifter is overloaded, it cannot be operated. The remote control indicator warns the user.
- Battery status: 3 levels.
- Maintenance status: If the lifter is used for over 12 months or if 8000 lifting cycles have been performed.

The Linak® control box

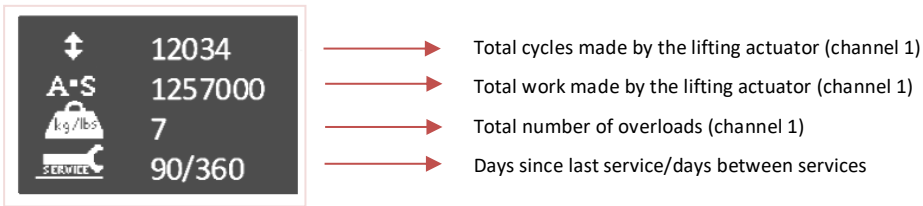
The control box is equipped with the same buttons as the remote control. Therefore, the lifter may be controlled indistinctly using the remote or the control box. Thanks to this, if the remote control is lost or damaged, the lifter can still be used.

An optional LCD display control box is also available, including additional features:

- LCD display with real time information about the current function and the battery status.

- The control box records and displays the most important information for a better management of the lifter.

- Data can be displayed by pressing briefly the button ⇧ :



Choosing the sling

The recommended slings for the Poweo® 200 and the Poweo® 215 are the slings listed in the "Accessories" section of this manual, which are manufactured by SCALEO Medical. SCALEO Medical slings are Class I medical devices (93/42/CEE Directive) and are compliant to the ISO EN 10535 European standard.

It is strongly recommended to use appropriate slings and accessories depending on patient's pathology, height and weight. It is also important to choose the convenient slings considering the type of transfer and the environment of the room.

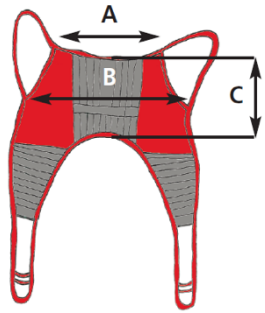
Reminder: When using a tilting suspension, specific slings are to be used: never use a "standard" sling with a tilting suspension, and never use a sling for tilting suspension with a standard suspension. Standard slings and specific slings for the electric tilting suspension have a different shape and different attachment process: they are not always compatible depending of the use.

Slings should never be bleached. The washing conditions and temperatures are showed on the label.

Always consult the user manual of the slings for their use, their cleaning and disinfection, and periodical inspection.

Slings dimensions (in cm)

		Without head support			With head support
	Patient weight (kg)	(A)	(B)	(C)	(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



The dimensions provided are approximate, as they may vary depending on the materials of each sling. In the case of a sling with "Comfort" head support, 10 cm should be added to the height "C".

Secure Safe Locking System (SLS)

The SCALEO Medical 4-point SLS and electric tilting suspensions use the exclusive patented SLS - Safe Locking System for the loops of the sling. This system allows setting and removing the sling using one hand, so that the other can be used to keep a physical contact with the patient.

The locking hook is maintained in the closed position by the weight of the patient, so unlocking the system is impossible during the transfer.

Before each transfer, always check that the locking systems are in "closed "position.

The SLS hook is in open position.

The loop of the sling is inserted into the SLS.

Pushing the SLS with one hand locks the hook and the SLS system is locked and secured.

Lifting and transferring with the Poweo® 200- 215

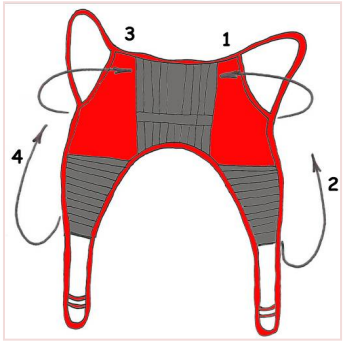
Reminder: it is strongly recommended to use the appropriate type of SCALEO Medical sling, for 4-point or electric tilting suspension, but also depending on patient's pathology, height and weight.

The procedures for installing the sling, lifting and transferring a patient with the Poweo® 200 and the Poweo® 215 are the same, except for the fact the loops of the slings specifically designed for the electric tilting suspension of the Poweo® 200, do not require to be crossed at the legs section, prior to be attached to the suspension.

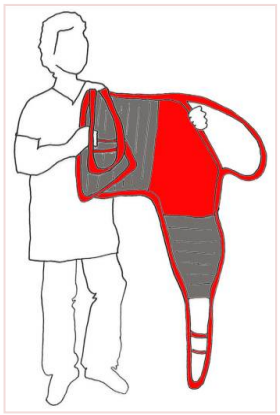
Folding the lifting slings

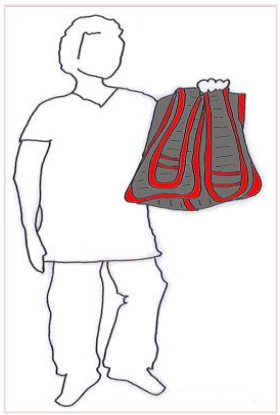
Fold the sling as indicated in the next images before use:

The grey side should be facing away from the user when putting the sling in place. The sling should be held with one hand, leaving the other free to move and support the user.

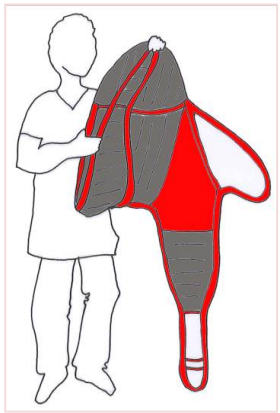


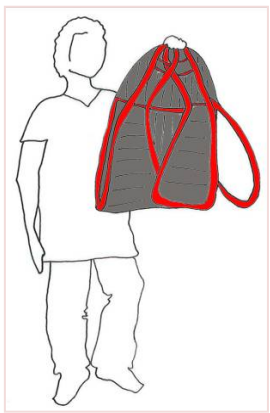
Sling without head support





Sling with head support



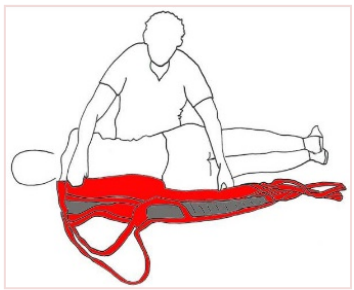


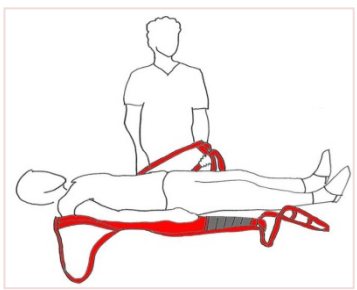
Transfer from a bed

Lifting from bed

1. When using the Poweo® 200, set the suspension in the lying down position before installing the patient in the sling.

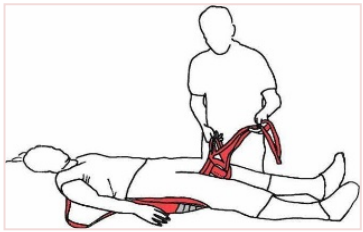
2. Roll the patient onto his side. Put the folded sling behind his back. The center of the sling should be parallel to the spine of the user. Then roll the patient over onto his back.



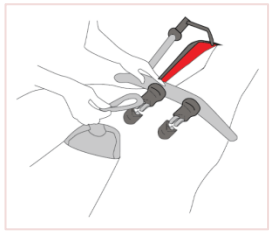


3. Pull the legs loops of the sling forward and under the thighs.

4. When using a 4-point sling for the Poweo® 215, cross the loops one through the other. This step is not necessary for the electric tilting suspension slings of the Poweo® 200.

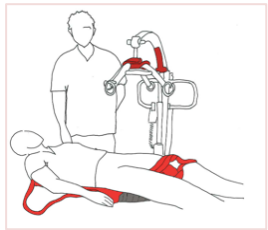


Sling installation for Poweo® 215



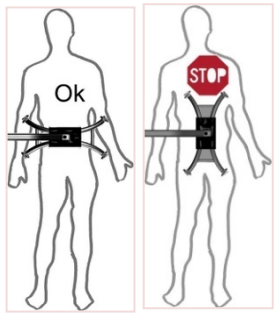
Sling installation for Poweo® 200.

5. Position the legs of the patient lifter under the bed with the suspension over the user. Be careful not to lower the suspension over the patient.



If the bed of the patient can be lowered, it should be lowered as much as possible before the lifting starts. Raising the head support can also be helpful.

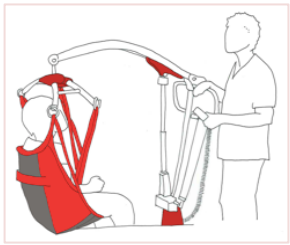
6. Center the suspension across the patient before starting to lift.



Remember that the wheels should not be locked.

7. When all four loops are hooked in the suspension, raise the patient carefully using the remote control.

8. Repositioning the patient while being raised may be needed to attain a safe and comfortable sitting position. For this, use the handle on the back of the sling.



9. Raise the patient until the buttocks are just above the mattress. Lift the user and turn him guiding him by the legs, until he faces the column of the lifter.

10. Use the lifter carefully to minimize swinging, especially if the lifter and patient are close to any furniture.

11. Once away from the bed, lower the patient so that his feet rest on the base of the lifter. This will lower the center of gravity ensuring a maximum stability during the transfer.

12. When using the Poweo® 200, tilt the suspension to position the patient in the right position depending on the chosen destination support: lying down position for bed rest or sitting position for a chair.

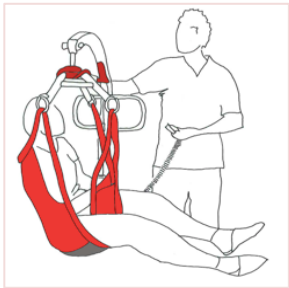
When the patient is to be sat in a chair, tilting the suspension allows to achieve a sitting position without any effort and to position the patient correctly onto the chair.

Setting the patient down onto the bed

1. As described before, lift the patient until his buttocks are just above the bed. Approach the bed with the lifter while being careful of the patient's feet.

2. Center the patient over the bed and turn him so that his feet point to the foot end of the bed.

3. Lower the patient carefully using the remote control. It may be necessary to hold his head.



Transfer from a (wheel) chair

1. When using the Poweo® 200, set the suspension in the sitting position before installing the patient in the sling.

2. Fold the sling as previously described.

If the patient's physique and ability allow, he should be encouraged to take an active part in placing the sling. He can lean forward, lift his thighs and help place the legs section.

3. Lean the patient forward making sure that you support him with an arm around his shoulders. Place the folded sling behind his back and push it down until it touches the seat of the chair.

4. Pull the loops of the legs sections of the sling forward and beneath the thighs of the patient.

5. When using a 4-point sling for the Poweo® 215, cross the loops one through the other. This step is not necessary for the electric tilting suspension slings of the Poweo® 200.

6. Position the lifter close to the chair while setting the feet of the patient onto the chassis.

7. If the patient is sitting in a wheel chair, make sure to activate the brakes.

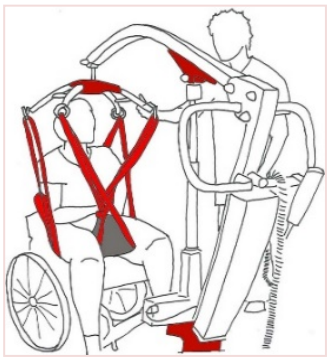
8. Place the 4 loops of the sling into the 4 hooks of the suspension.

9. Using the remote control, gently lift the patient just above the seat of the chair and proceed to do the transfer. It is not necessary to lift the patient too high.

Lowering the patient into the chair

1. Set the lifter so that the back of the patient is in contact with the back of the chair.

Position the patient in the chair, using the following method:



2. Gently push on the knees.

3. Pull the handle at the back of the sling.

4. Slightly tilt the chair backwards.

5. Using the remote control, lower the patient into the chair, unhook the sling and remove the lifter.

Removing the sling

1. Gently pull the legs section to the side, out from the thighs of the patient.

2. Standing by his side, lean him forward (while supporting him with one hand) and pull the sling up from behind his back.

Pulling sharply on the sling may cause the patient to fall forward. This is why it is important to provide support to the patient with one arm.

Bathing

The procedure for lifting and transferring to the bath is the same principle as from the bed, but a special bathing sling is used for this purpose. It is made of polyester net which dries quickly.

The Poweo® lifter is not a water proof device: avoid exposure to water as the internal electronic components may be deteriorated by water or moisture.

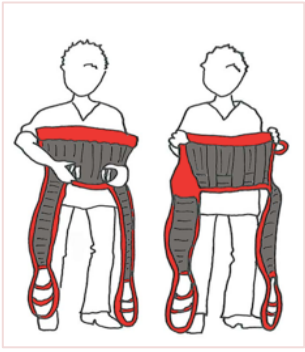
The Poweo® 200 can be used to transfer a patient to a bathroom and put him down in the bath, in a chair or in a shower trolley, either in a sitting or lying down position. The lifter and the suspension are protected against water projections (IPx4) but are NOT waterproof: they should never be immersed in water, or kept in a very humid atmosphere for a long period of time. In order not to deteriorate the actuator of the mobile suspension, the suspension wears a blue label indicating the limit of water which is to be respected.

Toileting

The toilet sling is positioned as follows:

1. Insert the sling behind the back of the patient with the grey side away from him.

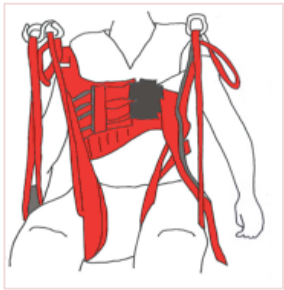
2. Fasten the belt firmly around the waist of the patient.



3. Place the legs section over and down between the thighs. Pull outwards from the inner part of the thighs.

4. Attach the 4 loops to the 4 points of the suspension, in the same way as with the other slings.

5. Set the lifter close to the toilet and lower the patient gently. The sling may be used during the entire operation, since the legs sections of the toilet sling are developed to separate the legs.



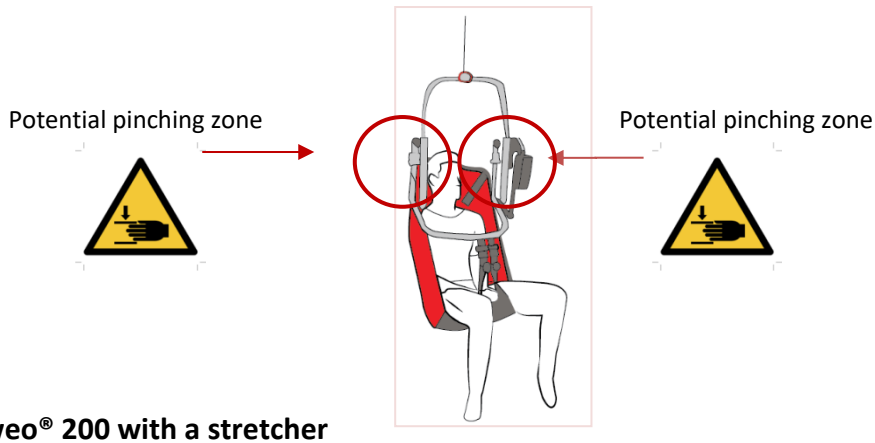
The inside legs section of the toilet slings is made so that the legs of the patient can be spread, they must not be crossed in the same way as the other slings.

Complementary information on the use of the electric tilting suspension of the Poweo® 200

The tilting suspension uses mobile parts. However, because the moving parts move very slowly the risk of pinching fingers or any human part is very low: moving parts require keeping the remote control button pressed. Releasing the button will be enough to stop the movement.

Moreover, if the patient keeps the arms along the body, there is no risk at all of pinching.

We recommend is to monitor the patient during the transfer to ensure that the security advices are taken into consideration.



Use of the Poweo® 200 with a stretcher

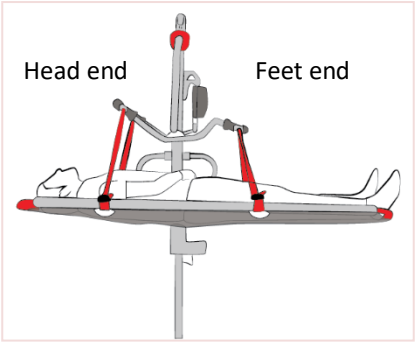
Using the Poweo® 200 with a stretcher requires specific loops and careful installation to assure a safe transfer. Please read carefully the instructions for use of the stretcher before using it with the Poweo® 200. The following concerns only SCALEO Medical stretchers.

Using the Poweo® 200 with the radio-transparent stretcher ref: S1921001 (max load 300kg) or S1921002 (max load 240kg)

The installation requires 4 x 62 cm long loops (ref. S8299003) which are provided with the stretcher.

Make sure the loops are installed in the same manner on the “head” end and “feet” end.

Adjust the tilt of the suspension so that the patient is in a horizontal position. The patient can now be transferred in complete safety.



Cleaning and disinfecting

The following program for cleaning and disinfection has been established in compliance with the "Guide to good practices for disinfection of medical devices" edited by the French council of public Health.
Device classification: *Not critical*
Infectious hazard: *low risk*
Level of treatment required: *Low-level disinfection*
This procedure is relevant to any medical device of the described category: *apply the items when relevant*

General guidelines

- Always respect the general hygiene precautions (gloves, goggles, protective clothes and mask).
- Disinfect your hands after removing your protection gloves.
- Respect the expiration dates of products used.
- Respect the dilutions.
- Never mix different cleaning or disinfection products.
- In case of contact with eyes, rinse thoroughly with water; call a doctor in case of persistent pain.
- Never perform a cleaning or disinfection operation when the device is powered: disconnect the device from the AC outlet.

Recommended procedures for cleaning and disinfecting

- The device should be thoroughly cleaned and disinfected at least once a month.
- The device should be systematically and thoroughly cleaned and disinfected between 2 patients.

1. **Prepare the equipment for disinfection:** Purpose: Makes it easier to clean, lower the level of contamination, protects the staff and the environment.
2. **Clean:** eliminate dirt.
3. **Disinfect:** destroy or inactivate micro-organisms.
4. **Dry:** protect equipment from contamination once disinfected.
5. **Store:** keep the disinfected devices clean.

Products that should be avoided for cleaning and disinfecting:

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

Periodic inspection and preventive maintenance

The aim of a periodic control visit is to control the safety and the maintenance issues on the equipment. This control, as well as the preventive maintenance must be performed regularly every year for the patient lifter and twice a year for the slings – according to annex B of the EN ISO 10535 standard and the recommendations from health authorities.

Periodic control / Preventive maintenance checklist

SCALEO MEDICAL	**Ref:** FOR_06_22 **Version:** A	**FORM ATTACHED TO:** PRO_06_01	**Written by:** CASTINEIRA Gilbert	**Date:** 22/01/2020
	PERIODIC INSPECTION OF THE POWEO® With electric opening of the base			

Periodic inspection :	Preventive maintenance:
CLIENT	SAGE Client N°:
Name :	City/Department :
Poweo® model: 140☐ 150☐ 180☐ 185☐ 200☐ 215☐ 300☐	Serial N°:

2- Checkpoints

PI	PM	Completed actions	OK	Observations
☐	☐	Cleaning / Disinfection	☐	
Maintenance indicator :				
☐	☐	Off ☐ Orange ☐ Red ☐	☐	
☐	☐	Resetting the maintenance program	☐	
☐	☐	Saving data	☐	
Base :				
☐	☐	Base geometry and flatness	☐	
☐	☐	Fixation of the base with the column	☐	
	☐	Cleaning and lubrication of wheels (front & back)	☐	
	☐	Electric emergency lowering	☐	
	☐	Electric opening of the base	☐	
☐	☐	Foot parallelism (closed position)	☐	
Column:				

□	□	Wear level of the joints	□	
□	□	Directional handles	□	
□	□	Check the actuator hooks	□	
□	□	Actuator (wear level)	□	
	□	Battery holder	□	
	□	Power contacts	□	
□	□	Check column fixing screw	□	
Suspension : 4-point SLS □ 4-point ICU □ Electric □ Quick Up □				
□	□	General conditions	□	
□	□	SLS system functional test (if SLS)		
□	□	Fixation with the raising arm	□	
	□	Suspension axis rotation	□	
	□	Rotation axes (if electric)	□	
	□	Actuator condition (if electric)	□	
Accessories check:				
□	□	Charger	□	
□	□	Remote control	□	
□	□	Battery(ies)	□	
□	□	Slings Presented quantity:	□	
□	□	Other accessories:	□	
Functional tests :				
□	□	Rolling	□	
□	□	Test: up/ down with no load	□	
□	□	Test: up/ down loaded	□	
□	□	Opening /closing of the base	□	
□	□	Emergency lowering (electric, mechanic)	□	
□	□	Emergency stop	□	
Labeling:				
□	□	Control label	□	
	□	Manufacturer or distributor logo	□	
		Number of completed actions	**Date :**	
Name of technician:			**Signature :**	

If the periodical inspection reveals problems relating to patient or caregiver security, the technician in charge of the inspection must immediately inform the user, and add a comment in the inspection report. The equipment should not be used until the problem is corrected.

SCALEO Medical should be informed of the result of inspections performed on its devices.

Poweo® Service tool

SCALEO Medical has equipped the Poweo® range (except the Poweo® using Linak® or Timotion® control boxes) with an embedded software to manage the maintenance and inspections of the Poweo® patient lifters. The electronic board has the following main functions:

Control of the lifter

- 3 jacks driving capability (one at a time).
- Electrical emergency lowering.
- Main actuator software safety :
    - The lifter stops if the load is over loaded (max value + 10kg),
    - Legs opening safety: the legs won't open or close if an obstacle is encountered.
- Battery management.
- Alarms. The user will be warned by a visual alarm on the remote control if the periodical inspection date is within two months or has expired.
- Defect detection:
    - Main fuse out of order,
    - Real time clock out of order or incorrect,
    - Main actuator 97% worn.

Record capabilities

- Date of first use: first power ON of the lifter. This date is used to calculate the date of first periodical inspection.
- History of :
    - Transfers per weight range: [10-30kg][30kg-60kg] [60kg-110kg] [110kg 170kg-] [170kg-SWL],
    - Actuators (main and legs opening),
    - Alarms,

- Emergency lowering device use,
- Main actuator use,
- Changes of the period of periodical inspection,
- Changes of the value of SWL,
- Main actuator replacements,
- Battery recharges,
- Battery alarms.

Lifter parameters memorization

- Maximum safety load of the lifter.
- Frequency of periodic inspection, consumption of the actuators.

Most of the functions can be controlled by the technician, using a user-friendly software: the Poweo® Service tool.

	Version : Distributors	
Features	PC software	Card interface
Main fuse test		X
Real time clock repair	X (1)	X
Main actuator control	X (1)	X
Periodical inspection period setting	X	X (2)
Setting the date of periodical inspection at current date	X	X
Disable the periodical inspection alarm	X	X
Real time setting of the lifter	X	
Control of the lifter without the remote control	X	
Reading all the parameters of a Poweo® lifter	X	
Data saving	X	
Writing lifter parameters in a text file	X	
Writing lifter history in a text file	X	

(1) Performed by reading lifter parameters.

(2) *Limited to 6 months or 12 months.*

Technical specifications

Technical specifications of the Poweo® 200 and Poweo® 215

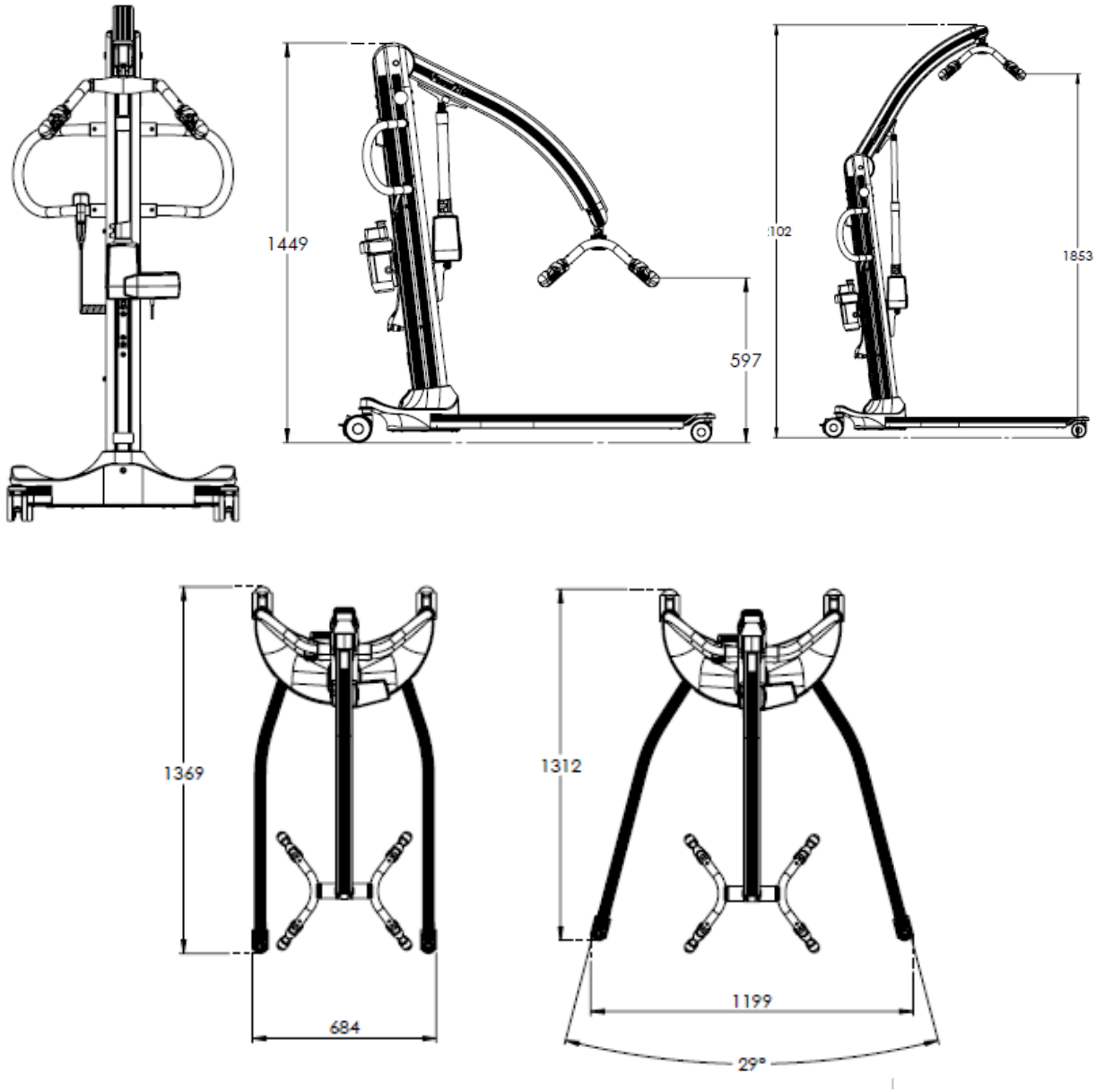
The lifetime of the Poweo® patient lifters is 10 years or 30,000 cycles, provided that the periodic inspections and preventive maintenance are properly made.

SCALEO Medical lifters are compliant with the 2011/65/EU European directive relating to reduction of hazardous substances. The declaration can be found at the end of this manual.

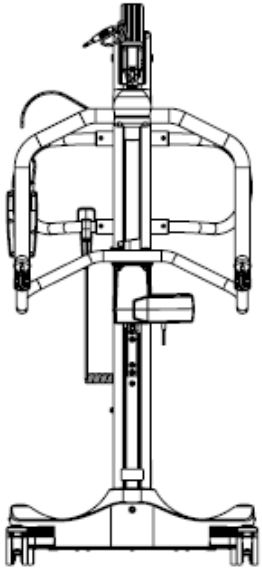
The autonomy of the battery is given for a number of "standard" transfers. A standard transfer is defined as moving 75 kg within a 50 cm range, around the medium position. The number of transfers given is from a 100 % charged battery to the battery alarm. For the Poweo® equipped with a tilting suspension the cycle includes a complete cycle of the suspension.

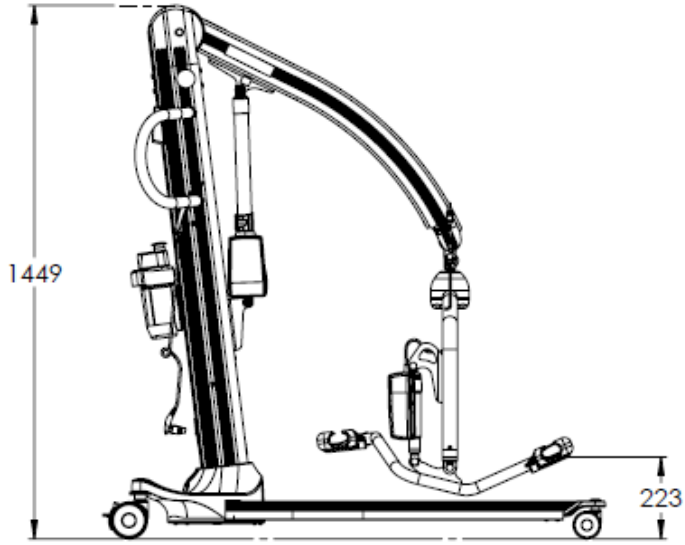
All the measurements refer to a reference device. Measurements on serial products may slightly differ due to tolerances on the assembly and manufacturing processes.

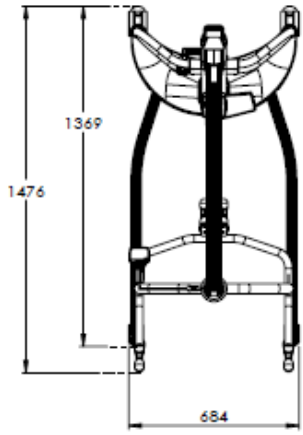
Poweo® 215, with 4-point SLS suspension

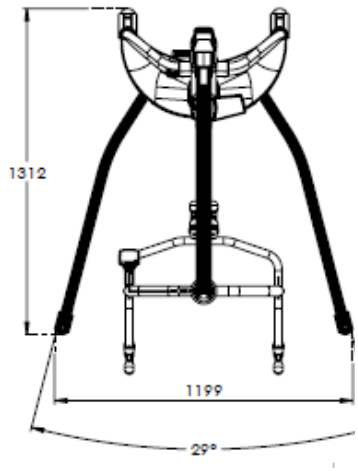


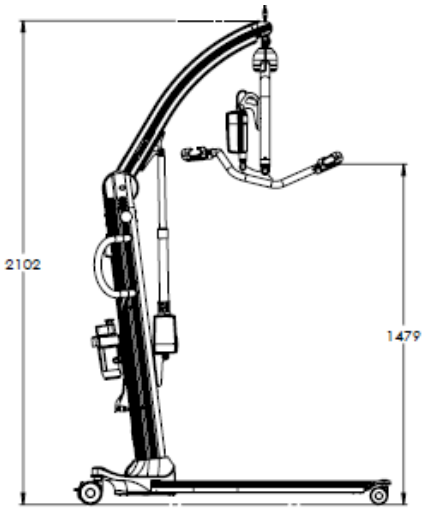
Poweo® 200 with electric tilting suspension









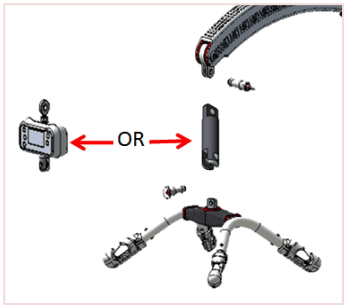


	Poweo® 200 w/electric tilting suspension	Poweo® 215 w/4-point suspension
	In mm	
Ground clearance	50	
Height of the legs	108	
Maximum height	2102	
Minimum height	1449	
Maximum height under suspension	1479	1853*
Minimum height under suspension	223	597*
Hoisting range	1256	
Width (external, open legs)	1199	
Width (external, closed legs)	684	
Length of the base (closed legs)	1369	
Length of the base (open legs)	1312	
Length (overall)	1476	1369
Total weight (including battery)	64 kg	53 kg
Angle open legs	29°	
Lifting speed (no load)	38 mm/s	
Lifting speed (75 kg)	33 mm/s	

*When the Poweo® 215 is used with the Scalis® scale or includes the central distance part, 110mm must be reduced from the maximum and minimum height under suspension.

Available upon request, the central distance part is located between the lifting arm and the suspension, where the Scalis® scale is normally installed. The aim of adding this part is to reduce the minimum height of the hoist, making it easier to lift patients from the floor.

Poweo® 215 with SLS 4-point suspension and center distance part.



Other specifications:

Classification	Class I medical devices (UE 2017/745 regulation)
Maximum safety load	215 kg or 200 kg
Materials	Steel and aluminum
Lifting actuator	24V – 10A
Front wheels (EN 12531 compliant)	2 x Ø 75 mm
Rear wheels (EN 12531 compliant)	2 x Ø 100 mm with brake
Number of lifts with a 100% charged battery	More than de 90
Condition of use	Indoor use only
IP classes	IPX4 in use
Service factor	2/10
Compliance with standards	EN ISO 10535:2007
Temperature of use	+10°C / +40°C
Sound power level	L wa = 49 dB

Technical specifications of the accessories and components

Technical specification of the S1630200 battery:

Technology	NiMh
Plastic case	ABS PC UL94V0
Voltage	24V
Capacity	3 Ah
IP class	IPX4 in use
Compliance with standards	EN 60601-1, UL94V0 case
Temperature range of use	+10°C / +40°C
Condition of use	Indoor use only
Security devices	- Protection against explosion risks: the case is vented for removal of exhaust gas - Built-in electronic protection against surges on intensity, short-circuit ... - Built-in electronic protection against overheating during charging

Technical specifications of the S1750001 battery charger:

The provided charger is able to work with any AC power value: voltage from 100V to 240V, frequency 50Hz or 60Hz. The only adaptation needed is the AC cord.

Input AC voltage	100-240V AC
Input AC frequency	50-60Hz
Output DC voltage and current	N.A. depends on the charge cycle [(1)]
Charging capacity	NiMh batteries, 10 to 20 cells
Maximum output current	0.9A
Compliance with standards	EN ISO 60601-1 , EN ISO 60601-1-2, UL94V0 case
Temperature range of use	-10°C / +40°C
Condition of use	Indoor use only
Security devices	- Operating voltage LED - Modulation of the charging current

	according to the state of charge of thebattery - Automatic load stop with visual alarm in case of overheating of the battery during charging
Usage	As a « table » charger or attached to the wall (pins and screws provided)

(1) The charge of NiMh batteries is a smart charge: a complete charge consists in a fast charging period, then a slow charging period, then a compensation charge.

Optional accessories (Scalis® scale, electric tilting suspension, slings) are delivered with their own user manuals including complete technical specifications.

Electromagnetic compatibility (E.M.C.)

- The Poweo® patient lifters require special care regarding the E.M.C. They must be installed and commissioned considering the EMC information provided in this user manual.
- The RF communication devices and portable phones may affect the Poweo® lifters.
- The use of accessories, transducers and cables other than those specified, except transducers and cables sold by the manufacturer as replacement parts for internal components, can result in increased emissions or decreased immunity of the device.
- It is appropriate that the Poweo® patient lifter is not used next to other devices or stacked with them, 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.
- In terms of the standard NF EN 60601-1-2: 2007, essential performance of the Poweo® is to never perform unwanted movements.

Directives and manufacturer's declaration - Electromagnetic emissions		
The Poweo® is designed to be used in the electromagnetic environment specified below. The user of the Poweo® must make sure to use it in such environment.		
Emission test	**Conformity**	**Electromagnetic environment - Guidelines**
RF Emissions CISPR 11	Group 1	The Poweo® uses RF energy only for its internal functions. Therefore, its RF emissions are very low and are not likely to cause interference in nearby electronic devices.
RF Emissions CISPR 11	Class B	The Poweo® is suitable for use in all premises, including domestic premises and those directly connected to the public power network supplying domestic premises.
Harmonic Emissions IEC 61000-3-2	Not applicable	
Voltage fluctuations / Flicker IEC 61000-3-3	Not applicable	

Recommended separation distances between portable and mobile RF communications equipment and the Poweo®			
The Poweo® is designed to be used in an electromagnetic environment in which radiated RF disturbances are controlled. The user of the Poweo® can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Poweo®, as recommended below, according the maximum transmission power of the communication device.			
Maximum rated output power of the transmitter W	**Separation distance depending on the frequency of the transmitter** m		
	from 150 kHz to 80 MHz	**80MHz to 800MHz**	**de 800MHz to 2,5GHz**
	Non applicable	d= 0,35√P	d= 0,7√P
0,01	Non applicable	0,04	0,07
0,1	Non applicable	0,11	0,22
1	Non applicable	0,35	0,7
10	Non applicable	1,1	2,2
100	Non applicable	3,5	7

Directives and manufacturer's declaration - electromagnetic immunity			
The Poweo® is designed to be used in the electromagnetic environment specified below. The user should ensure it is used in such an environment.			
INMMUNITY test	**Test level - IEC 60601**	**Level of compliance**	**Electromagnetic environment guidelines**
Electrostatic discharges (E.S.D.) IEC 61000-4-2	± 8 kV contact ± 15 kV air	± 8 kV contact ± 15 kV air	Floor materials should be wood, concrete or ceramic tile. If floors are covered with synthetic material, should the relative humidity be at least 30%.
Transitional burst IEC 61000-4-4	± 2 kV for power supply lines ± 1 kV for input/output lines	Not applicable	Not applicable
Transitional surge IEC 61000-4-5	± 1 kV between phases ± 2 kV line to ground	Not applicable	Not applicable
Voltage dips, short interruptions and voltage variations on the input lines Power IEC 61000-4-11	<5% UT (> 95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) 5 s	Not applicable	Not applicable

Magnetic field @ 50/60 Hz IEC 61000-4-8	30 A/m	30 A/m	Quality of power supply network should be of a typical commercial or hospital environment. If the user of Poweo® requires continued operation during network outages of power, it is recommended to feed the Poweo® from an uninterruptible power supply or battery.
NOTE U_T is the AC mains voltage prior to application of the test level.			
Directives and manufacturer's declaration - electromagnetic immunity			
The Poweo® is designed to be used in the electromagnetic environment specified below. The user of the Poweo® must ensure it is used in such an environment.			
			Portable and mobile RF communications should not be used closer to any part of the Poweo®, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of transmitter. Recommended separation distance
Conducted RF disturbances IEC 61000-4-6	3 Vrmsf 150 kHz to 80 MHz	Non applicable	Non applicable
Radiated RF disturbances IEC 61000-4-3	3V/m 80MHz to 2.7GHz with discreet frequencies 385, 450, 710, 745, 780, 810, 870, 930, 1720, 5240, 5500, 5785, 1845, 1970, 2450 with level between 9V/m and 28V/m	3 V/m	d= 0,35√P 80MHz to 800MHz d= 0,7√P de 800MHz to 2,5GHz Where P is the maximum power output of the transmitter in watts (W), according to the transmitter manufacturer and d is the separation distance in meters (m). The field strengths from fixed RF transmitters, as determined by an electromagnetic investigation (a) should be below the level of compliance in each frequency range. (b) Interference may occur in the vicinity of the equipment marked with the following symbol:
NOTE 1: At 80 MHz and 800 MHz frequency range applicable is the highest. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
a: Field strengths from fixed transmitters, such as base stations for radio (cellular / cordless) telephones and mobile radios, amateur radio, broadcasting AM and FM and TV broadcast, cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters should be considered an electromagnetic site investigation. If the field intensity measured at the location where the Poweo® is used exceeds the applicable RF compliance level above, the Poweo® should be observed to verify that operation is normal. If abnormal performance is observed, additional measures may be needed, such as redirect or reposition the Poweo®.			
b: In the frequency range 150 kHz to 80 MHz, it is appropriate that the field strengths are less than 3 V / m.			

Complementary safety warnings

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

1. Before executing any maintenance, cleaning, or transport procedure, be sure to unplug the lifter.
2. If the lifter breaks down or malfunctions, do not try to repair it yourself. You should seek the help of a qualified technician, an authorized distributor, or the customer service department of SCALEO Medical.
3. Always ask for original authorized spare parts.
4. The proper use of this device requires the abidance to certain fundamental and common rules, such as not pulling the electrical power cables in order to unplug the AC cord after the battery has been recharged.
5. Apply the brakes when the patient lifter needs to be still. Check that it is properly immobilized.
6. Use standard and approved products to clean the equipment and the accessories.
7. Recharge the battery every evening.
8. Incorrect use :
    - Using the lifter while battery alarm is on,
    - Using functions without having reading this manual,
    - Use of the lifter or its accessories by children,
    - Using the patient lifter with a higher than the maximum safety load,
    - Outdoor use,
    - Use, with or without a patient, on a slope,
    - Moving the patient lifter over non cleared floors, or thick carpets,
    - Plugging the charger of the lifter onto incorrect voltage,
    - Plugging in electrical appliances other than originally intended,
    - Cleaning the lifter with excessive water, or with a pressurized hose,
    - Guiding the lifter by using the suspension or other non-intended parts,
    - Using damaged, torn, or worn slings.

Injury or damage to the equipment may occur if the Poweo® is not properly used, more precisely when:

- The protective covers of the chassis are taken off by non-qualified personnel,
- A regular maintenance is not set up,
- Maximum load capacity is exceeded,
- Repairs or electrical modifications are made by non-qualified personnel.

Warranty

The Poweo® 200 - 215 patient lifters have a four (4) years warranty, except for the battery and the slings that are guaranteed one (1) year.

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

Batteries not serviced in compliance with the servicing process of this manual will not be taken under warranty.

Liability

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 of the instructions and recommendations supplied within the present user manual,
- Using un-adapted spare parts,
- Assembling, adjusting and repairing carried out by non-qualified personnel or a non-authorized distributor,
- Incorrect use of the equipment, negligence, accident, human error, or maintenance and cleaning with non-adapted products,
- REGULAR PREVENTIVE AND ANNUAL MAINTENANCE IS NOT CARRIED OUT in accordance with the annex B of the EN ISO 10535 standard, and the advices and instructions presented in this manual.

End of life and recycle

SCALEO Medical lifters and accessories are at least 90 % recyclable. The end of life disposal of the device must be done respecting the recycling circuit and local relevant regulation. This particularly concerns the electrical and electronic equipment (WEEE) and the lead battery (B/A). For waste management that respects the environment, please kindly contact the sales manager in your area.

EU Declaration of conformity

SCALEO MEDICAL

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 : 3664844POWLVPAH

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 REGLEMENT (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 1 4971: 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 1 / 2

SCALEO MEDICAL

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 Scalis® 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 information

The information and advice provided in this user manual are 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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