

USER MANUAL

SCALEO
M E D I C A L

Poweo® Nursing

Patient lifter



CE MADE IN FRANCE

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Warnings and safety instructions



This user manual contains important safety information regarding the use of the Poweo® Nursing patient lifters. Please read carefully this manual before using the patient lifter for the first time.

This user manual concerns the Poweo® Nursing in its standard versions, reference S11010 or S11011; where 010 or 011 depends on the equipment: with or without display in the control box.



The Poweo® Nursing should be used by a trained staff only.



The Poweo® Nursing must be serviced by qualified personnel only and using only original parts.



The Poweo® Nursing is designed and engineered to safely transfer patients up to 180 kg. Beyond this weight, do not use the Poweo® Nursing: call SCALEO Medical or your distributor, who will offer you the most suitable patient lifter for your needs.



When the Poweo® Nursing is equipped with a Scalix® scale, the maximum safety load is reduced to 160kg. Because the Scalix® scale is calibrated for a maximum load of 160 kg the scale will display an error message: « > Max! » in the case of an overload.



The Poweo® Nursing is not intended to be used with a rigid stretcher: the installation of a device instead of a flexible sling would alter the stability of the lift and may cause the patient to fall.



In order to use the Poweo® accessories and components: Scalix® weighing system, transfer slings, please refer to their specific user manuals.



Poweo® Nursing is not intended for use in balneotherapy, as salty or chlorinated mists may rapidly degrade the device, rendering it inoperative or hazardous.



The recommended slings are specifically developed by SCALEO Medical for the Poweo® Nursing 4-point suspension. It is inadvisable to use slings from other manufacturers. If you want to use slings from other manufacturers under your responsibility, require proof

of compatibility and test them before using it with a patient. SCALEO Medical cannot be held responsible for any incident that occurs following the use of non-recommended slings.



The slings are 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. If this situation cannot be avoided, open the legs of the hoist before starting the transfer.



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



The maximum load can be lifted while using the engine non-stop for approximately 1 minute. The delay between 2 lifts at maximum capacity should be of around 10 minutes in order to allow the engine to cool down.



The Poweo® Nursing is not a transport device. It must be used exclusively for short distance transfers. It is not intended to replace wheelchairs or other means of transportation.

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

The first Poweo® Nursing was commercialized on September 7th, 2017.

Symbols and pictograms

The symbols used in this manual are:



This symbol indicates instructions and safety information when injuries may occur if warnings are ignored or 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 lifter or other equipment.



This symbol indicates important and useful information. This information will help the user and optimize the use of the material. It will simplify routine operations and provide solutions to complex operations.

Symbols used in labels :

Symbol	Meaning
	Manufacturer
	Date of manufacturing
	Device reference
	Device serial number
	Temperature range
	Do not burn
	Security pin: do not remove this pin. Periodically inspect this pin
	Warning : read user manual for instruction
	Indoor use only

Symbol	Meaning
	Read user manual for instruction
	Direct current power source
	Class II electrical protection type
	B type applied parts
	Do not open or unmount
	Maximum load
	In accordance with European regulation
	Contains potential wastes of electrical or electronic equipment
	Medical device

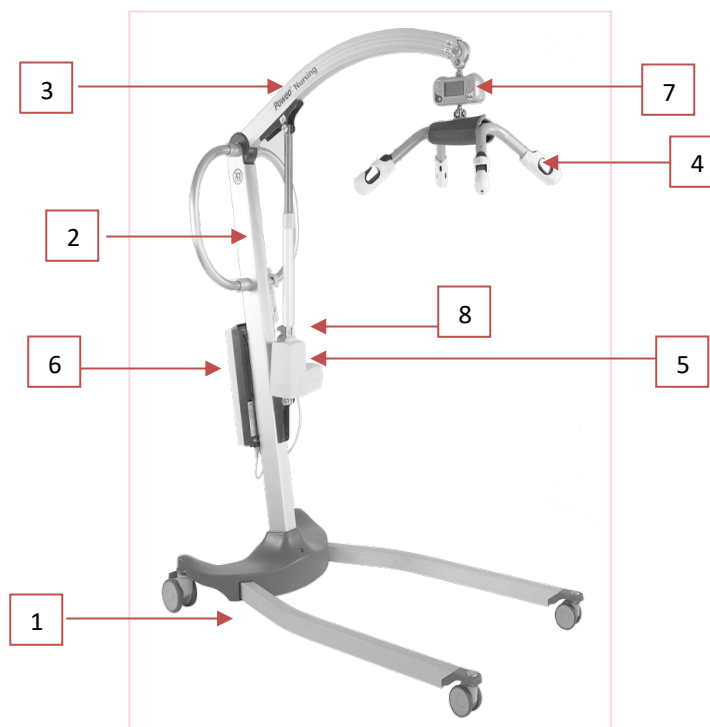
General information about Poweo® Nursing

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

The patient lifter is delivered in a cardboard box containing:

1. A chassis with electric opening of the legs
2. A column
3. An arm
4. A rotating suspension and its protection
5. An electrical lifting actuator
6. An electronic control box including the battery with emergency stop and emergency down buttons
7. Scalis® scale (*in option*)
8. Mechanical emergency lowering
9. The remote control (*not pictured*)
10. This user manual
11. An AC charger or an AC cord (*not pictured*)

Accessories and components



The Poweo® Nursing can be used with the following accessories (not included) :

- Scalis® scale,
- Comfort polyester slings,
- Soft polyester slings, breathable fabric,
- Vinyl slings with head support,
- Net bath sling, in polyester,

- Post-operative slings for amputee patients,
- Hammock slings,
- Walking slings with security belt,
- Toilet slings and slings for spinal plaster.

Intended use

Poweo® Nursing safely and comfortably transfers a dependent person, without effort and reducing the risks of work-related injuries to the caregiver. They are mobile passive patient lifters intended to be used on horizontal floors to transfer up to 180 kg patients.

The Poweo® Nursing is multipurpose and suitable for daily transfers on nursing homes or for homecare.

Contraindications

Poweo® Nursing is NOT intended to be used:

- On patients with spine curvature,
- On patients with muscle spasm,
- For long distance patient transfer,
- To transfer patients over slopes,
- To replace wheelchairs or other means of transportation.

Assembly & commissioning instructions

Before assembling the patient lifter, please ensure that the packaging is not damaged and that there are no missing spare parts. If it is the case, immediately provide written proof to the freight forwarder and contact SCALEO Medical.



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



Unpacking and assembling the Poweo® Nursing requires two people. Do not attempt to unpack or assemble the device alone, as you could be injured during the operation.

In order to assemble the patient lifter, follow these instructions. You can also contact SCALEO Medical if you require further information.

Using a patient lifter requires a good understanding of transfer systems, assembly and disassembly procedures.



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

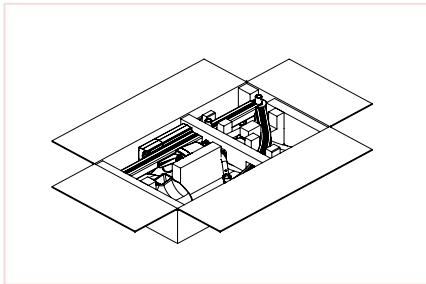


Poweo® lifters are delivered with the emergency stop button switched on the ON position. Put the emergency stop button on OFF before operating or charging the equipment.

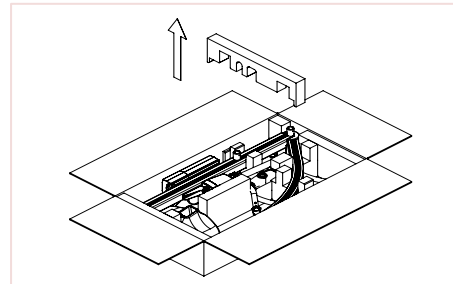
Unpacking the Poweo® Nursing

Unpack the lifter by removing all links and protections

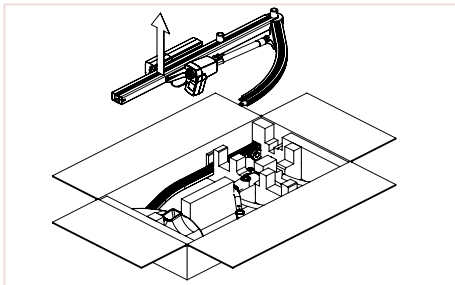
1 - Open the carton box.



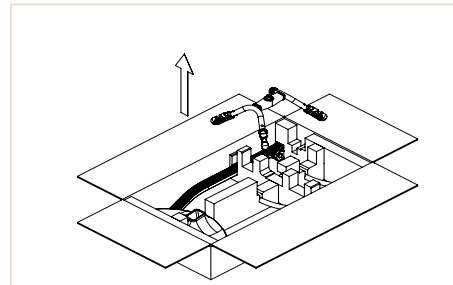
2 - Remove the central dunnage.



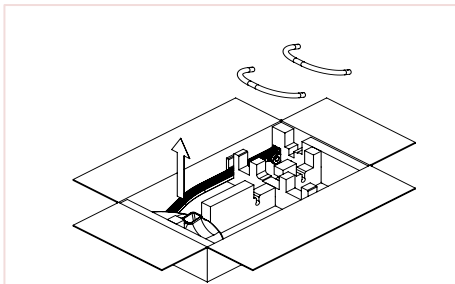
3 - Remove the column.



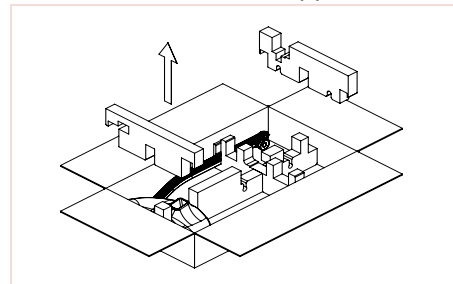
4 - Remove the suspension.



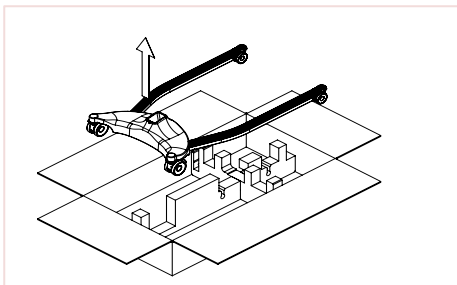
5 - Remove the handles.



6 - Remove the lateral supports.

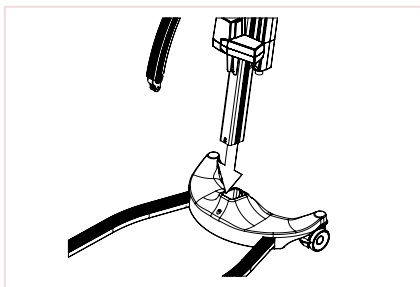


7- Remove the base.

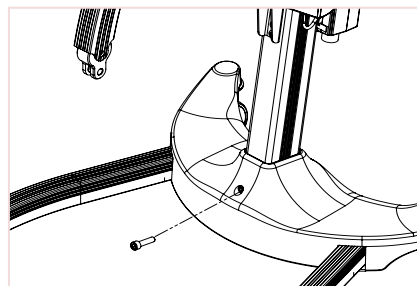


Instructions for assembly

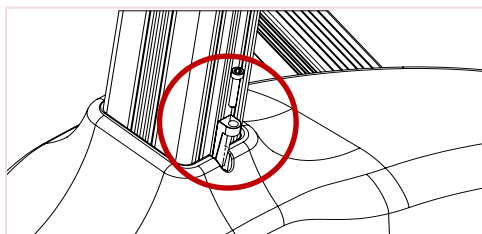
8- Connect the plug coming out of the inside of the column into the base. Insert the column on the base.



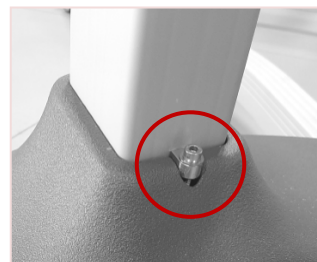
9- Lock the column with a M10x45 screw.



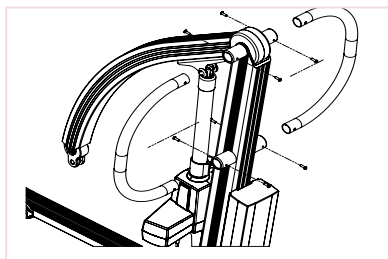
10- On the other side of the column, lock the column with the wedge referenced S1611009 and a crowned screw.



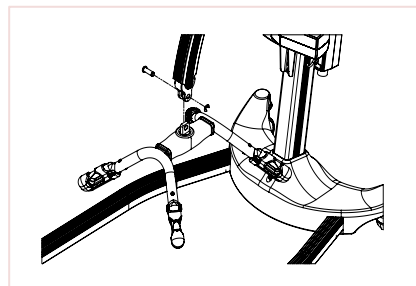
It is normal for the screw and the wedge not to be inside the base of the patient lifter. As long as the screw is secured, the installation is safe.



11- Insert the 2 handles and lock them with the 8 crowned M4x16 screws.

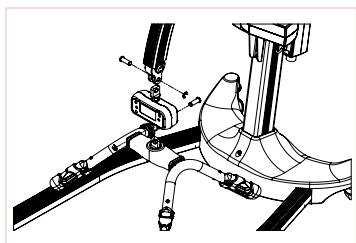


12- Install the suspension with the axis referenced B8310093 and the securing clip referenced B9092010 at the arm's end.



12Bis.- If the Scalix® scale has been ordered, the quick mount axis referenced S1621023 can also be requested as an optional accessory. No tool is required.

By pressing the red button, the fixing is done quickly. The red button should come back to its initial position: fixation is secured.



13- Check the connections of the actuators and the remote control: from left to right, face to the control box, the connections are:

Remote control (use the coded pin as a guide)

Main actuator

Opening of the legs actuator (the cable comes from the column)



Push in the connectors to seal the assembly.

Set the emergency button « OFF » and check that the connections are functional : use the remote control to perform a few moves: up and down, opening and closing the legs.

If all the functions are working, your Poweo® Nursing is ready to be used

Commissioning

The standard control box of the Poweo® Nursing is equipped with an integrated charger, but it can also be equipped with a wall charger, available to be purchased as an optional accessory. In all cases, the charger is able to recharge the batteries for any AC voltage value (100 to 240V) or frequency (50 or 60Hz).



SCALEO Medical provides the charger with the AC plug adapted to your country, as long as the place of use is confirmed with the order.



Before the first use, it is crucial to charge the battery for approximately 8 hours. Refer to the section “charging the battery” for further information.



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

- ***Ensure that no part of the patient lifter is deteriorated or worn,***
- ***Ensure that all the screws and pins are present, in good condition and correctly tightened, especially the ones identified by a "security pin" label:***
- ***Check the main functions : lifting and lowering the arm, emergency switch, opening and closing of the legs.***



In case of a malfunction or if you have any doubt regarding the security, do not use the hoist. Contact your technical department, your distributor or contact us directly using the contact information at end of this manual as soon as possible.



Practice by lifting a colleague and by being lifted by others. It is important to experience how the patient will feel while being lifted and to put yourself in his position. Try and practice using all the relevant slings for the different types of lifts and movements you may encounter. It is also a good idea to reassure the patient by explaining the procedure before starting the transfer.



It is important to use the correct accessories and slings adapted to:

- **The ability of the user,**

- **The body shape of the user,**
- **The weight of the user,**
- **The specific type of transfer.**



The Poweo® Nursing is 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 Poweo® Nursing must rest in a temperate room until the equipment has achieved the proper working temperature.

Instructions for use

Safety devices

Emergency stop

The Poweo® is equipped with an emergency stop button that will power off the lifter when pressed. The emergency stop button is located on the control box. Once pressed it must be turned clockwise to release it.

Electric emergency lowering

In the event that the remote control does not work, an electric lowering is still possible by operating the buttons located on the control box.



Mechanical emergency lowering

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.

Mechanical
emergency
lowering



The lowering speed will depend on the charge and the pressure on the trigger. It is advisable to prepare a bed or a chair underneath for the patient.



According to the EN ISO 10535 standard, the Poweo® will NOT operate with a patient weighing more than the maximum capacity of the lifter. Because the scale is limited to 160 kg, it will display a "> MAX !" message to indicate that the lifter has surpassed its capacity.



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. When the leg opening movement stops, it is a warning for the user: it means that the security device is operating and the transfer of the patient is not secured.

Battery management

The remote control has three (3) LED indicators that show the battery's charge level: full, half full, empty. When the indication appears “empty”, there is still enough energy to lower the patient.

The battery of the Poweo® Nursing can be charged directly onto the patient lifter or using the optional wall charger.

To charge the battery, please follow the next steps :

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

Battery charge
status
indicator



The battery charge indicator allows the user to verify if the charge is running.

Full charging the battery will take about 8 hours.

For intensive daily use an everyday recharge will be necessary.



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



Reminder: if the emergency stop button is pressed, the battery will not charge.



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



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

Maintenance of the battery



Never charge 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 deactivates and then 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 the OFF position,
- Store your charged battery in a cool, dry, well ventilated area,
- Check periodically (every month) the status of the charge of the batteries; even if they are disconnected batteries tend to discharge.

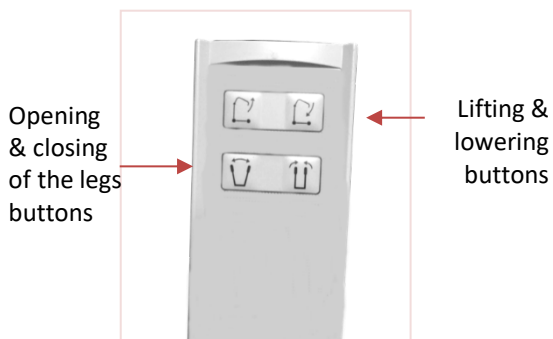
Compliance with these precautions will help you keeping your batteries longer and to use your equipment in the best conditions.

Failure to follow these instructions will void the warranty of the batteries that would fail due to lack of maintenance.

The remote controls

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

Standard remote-control



Remote control for display control box



The remote control for the control box with display provides further benefits in use. It provides essential information about battery status, overload occurrence and service:

- 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),
- Overload indicator: if the lifter is overloaded, it cannot be operated. The user is warned through the remote control,
- 3 levels of battery status,
- Maintenance status: when the lifter is used for over 12 months, or when 8000 lifting cycles have been performed.

The maintenance period is set before shipping. Specific tools and software are required to modify it.

The control box

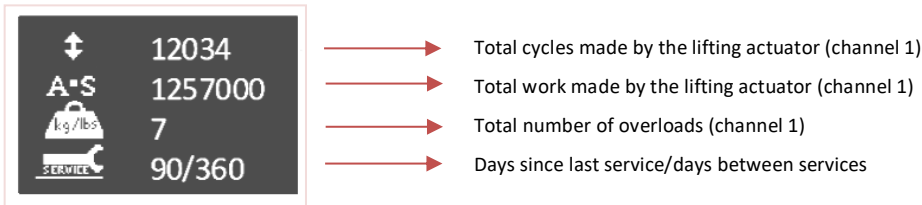
The control box is equipped with the same buttons as the remote control. Therefore, the lifter may be controlled indistinctly using the remote or the control box. Due to this, if the remote control is lost or damaged, the lifter still can be used.
An optional LCD display control box is also available, 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  :



Lifting and transferring with the Poweo® Nursing

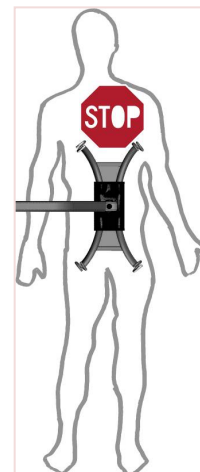
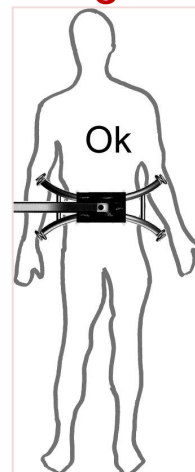


For your safety, before performing a lift or transfer, read the safety warnings indicated in the first part of this user manual.

Positioning the suspension

The suspension should be positioned across the patient as shown on the picture:

Position the patient as low as possible during the transfer, as the patient's center of gravity is lower, maximum stability is ensured.



If possible, the patient's feet should be touching the chassis of the lifter during the transfer.

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



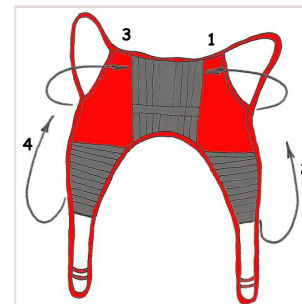
The buckle of the sling is introduced.



A tension on the sling locks the hook.

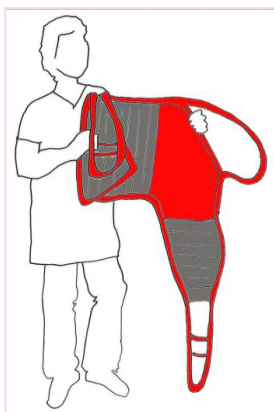
Using passive transfer slings

Fold the sling as indicated in the following images before using.
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 to support the patient.

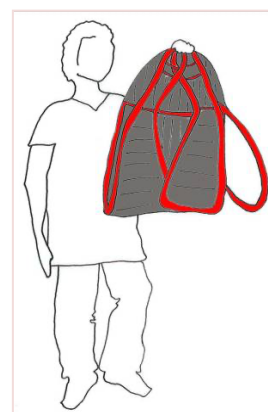
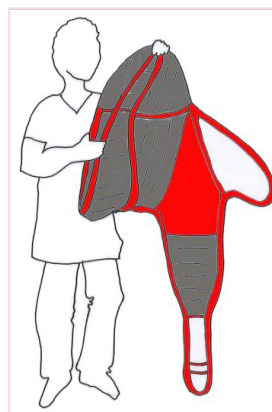


Torn, cut, worn or broken slings can fail, resulting in serious injuries to the patient. Only use slings in good condition.

Sling without head support



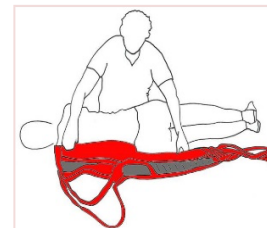
Sling with head support



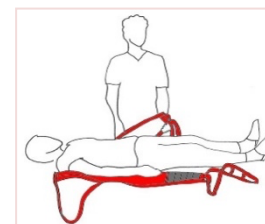
Transfer from a bed with the Poweo® Nursing with 4-point SLS suspension

Lifting from bed

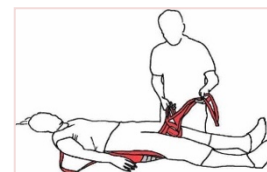
1. Roll the patient onto his side. Put the folded sling behind his back. The center of the sling should be parallel to the spine of the user. Then roll the patient over onto his back.



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

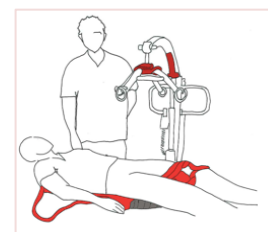


3. Cross the loops one through the other.

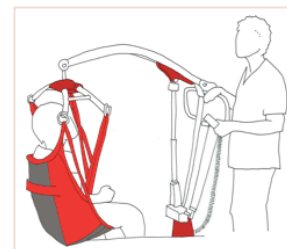


If the bed of the patient can be lowered, it should be lowered as much as possible before the lifting starts. Raising the head support can also be helpful.

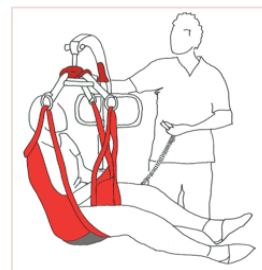
4. Position the legs of the patient lifter under the bed with the suspension over the user. Be careful not to lower the suspension onto the patient.
5. Center the suspension over the patient before starting to lift. Remember that the wheels should not be locked.



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



8. Raise the patient until his buttocks are just above the mattress. Lift the user and turn him by guiding by his legs, until he faces the column of the lifter.
9. Once away from the bed, lower the patient so that his feet rest on the chassis.



Setting the patient down onto the bed

1. As described before, lift the patient until his buttocks are just above the bed. Approach 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. Lower the patient carefully using the remote control. It may be necessary to hold his head.

Transfer from a (wheel) chair

1. 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.



2. 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.
3. Pull the loops of the legs section of the sling forward and beneath the thighs of the user. Then cross the loops one through the other.
4. Position the lifter close to the chair while setting the feet of the patient onto the chassis.



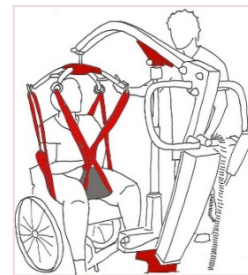
5. If the patient is sitting in a wheel chair, make sure to activate the brakes.
6. Using the remote control, gently raise the patient just above the seat of the chair and proceed to do the transfer. It is not necessary to raise the patient too high.

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.

To position the patient in the chair, use 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 the patient must be supported by one arm as indicated in the image.



Bathing

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

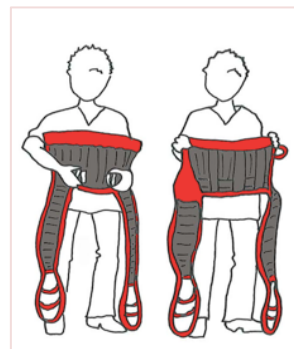


The Poweo® lifter is not a water proof device: avoid exposure to water as the internal electronic boards may be deteriorated by water or moisture.

Toileting

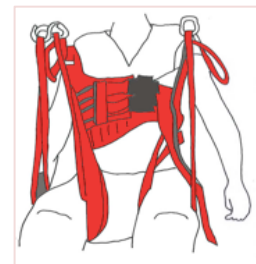
The toilet sling must be positioned as follows:

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. Attach the 4 loops to the 4 points on the suspension, in the same way as with the other slings.
4. Set the lifter close to the toilet and lower the patient gently. The sling may be used during the entire operation.



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.

The legs sections of the toilet sling are developed to separate the legs.

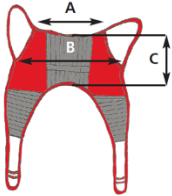


Choosing the sling

The recommended slings for the Poweo® Nursing 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 (European medical device regulation 2017/745) and are compliant to the ISO EN 10535 European standard.

Dimensions

		Without head support			With head support
	Patient weight in kg	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 only use the SCALEO Medical slings compatible with the 4-point suspension of the Poweo® patient lifter. It is also important to choose the appropriate slings considering the type of transfer and the environment of the room.

All dimensions are an approximate and may vary depending on the model and the fabric used. For slings Comfort with a head support, add 10 cm to the “C” dimensions.

Cleaning and disinfecting

The following program for cleaning and disinfection is established in compliance with the “Guide for good practices for medical devices disinfection” edited by the French council of Public Health.

■ **Device classification:** Non critical.

■ **Level of treatment required:** Low-level disinfection.

■ **Infectious hazard:** Low risk.

■ **This procedure is relevant to any medical device of the described category :** Apply when relevant.

General guidelines

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

Recommended procedures for cleaning and disinfecting

- The device should be thoroughly cleaned and / or disinfected at least once a month.
 - The device should be systematically and thoroughly disinfected in 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:** eliminates dirt.
 3. **Disinfect:** destroys or inactivates micro-organisms.
 4. **Dry:** protects equipment from contamination once disinfected.
 5. **Store:** keeps 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.

Periodical 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

	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 periodic inspection reveals issues related to patient or caregiver safety, the technician in charge of the inspection should inform the user and add a comment to the inspection report. The equipment should not be used until the problem is corrected.

SCALEO Medical must be informed of the results of the inspections carried out to its devices.

Technical specifications

Technical specifications of the Poweo® Nursing

The standard Poweo® Nursing is a lightweight device thanks to its aluminum legs, arm and column.

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



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



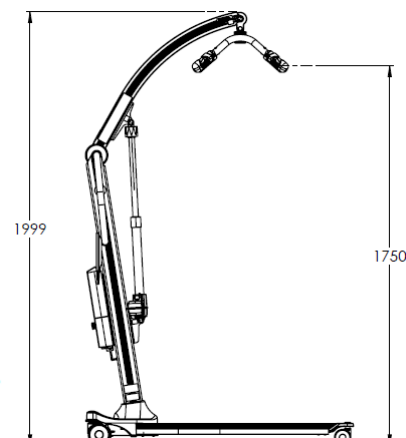
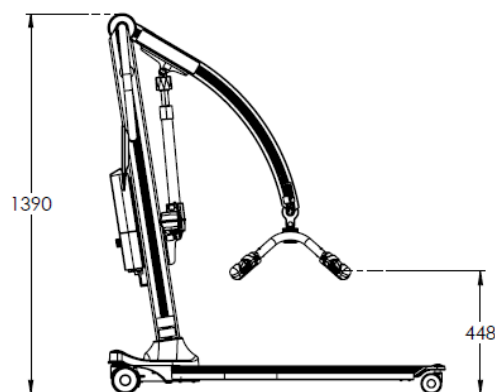
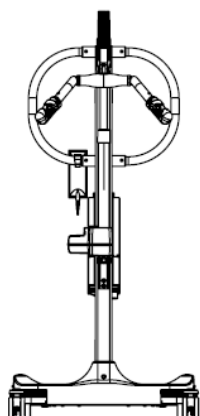
The autonomy of the battery is given for a number of “standard” transfers. A standard transfer is defined as moving 75 kg within a 50 cm range, around the medium position. The number of transfers given is from a 100 % charged battery to the battery alarm.

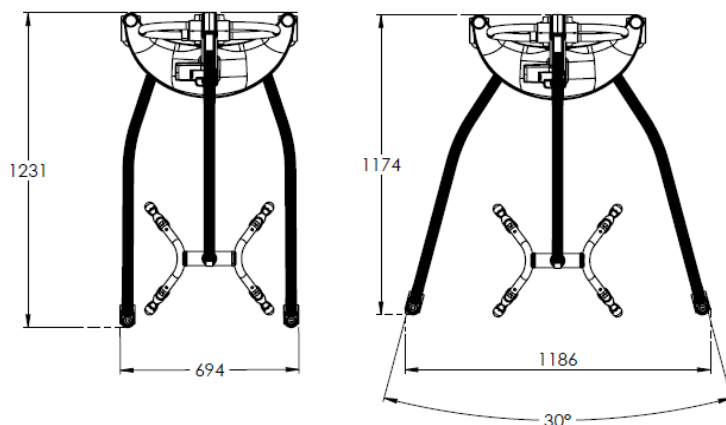
All Poweo® lifters are built in France in our workshop under the ISO13485 quality system.



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® Nursing, with 4-point SLS suspension





	Poweo® Nursing, SLS suspension (Linak electronics with and without display) In mm
Ground clearance	50
Maximum height	1999
Minimum height	1390
Maximum height under suspension	1750
Minimum height under suspension	448
Hoisting range	1302
Width (external, open legs)	1186
Width (external, closed legs)	694
Length of the base (closed legs)	1231
Length of the base (open legs)	1174
Total weight (including battery)	41 Kg
Angle open legs	30°
Lifting speed (no load)	45 mm/s
Lifting speed (75 kg)	42 mm/s

Other specifications:

Type of device	European Medical Device Regulation 2017/745 class I medical device
Compliance with standards	EN ISO 10535, EN 60601-1, EN 60601-1-2
Service factor	1/10
Maximum load capacity	180 kg without Scalis® scale 160 kg with the Scalis® scale
Material	Steel and aluminum
Lifting actuator	24V
Front casters	2 casters Ø 75 mm
Rear casters	2 casters Ø 100 mm with brake
Condition of use	For indoor use only
IP classes	IPX4 in use
Temperature range of operation	+5°C / +40°C
Noise level	L wa = 49 dB

Technical specifications of the accessories

Linak® battery specifications:

Technology	Lead
Enclosure	ABS UL94V0
Tension	24V
Capacity	2,9AH
IP Class	IPX5
Compliance with standards	EN 60601-1 :2005 +C1:2006 +C2:2007, RoHS
Temperature range of operation	+5°C / +40°C
Condition of use	For indoor use only

Control box integrated charger specifications:

Permissible AC tensions	100~240V AC
Permissible AC frequencies	50/60Hz, 1A
Maximum charge current	400 mA
Compliance with standards	EN 60601-1 :2005 +C1:2006 +C2:2007 , RoHS
Temperature range of operation	0°C / +40°C
Condition of use	For indoor use only

Electromagnetic compatibility (EMC)

- The Poweo® patient lifters require special care regarding the EMC. They must be installed and commissioned by 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 lifters are not used next to other devices or stacked with them. If it is not possible to do otherwise, the Poweo® patient lifter has to 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® patient lifter is to never perform unwanted movements.

Directives and manufacturer's declaration - Electromagnetic emissions			
The Poweo® patient lifter is designed to be used in the electromagnetic environment specified below. Should the user of the Poweo® ensures it is operated in such an 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® patient lifter 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= 0,35VP	d= 0,7VP
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

Complementary safety warnings



The patient lifters can fall down if they are not used correctly. Not conforming to the following safety measures could lead to serious harm to the patient or the caregiver. 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 of SCALED Medical.*
- 3. Always ask for original authorized spare parts.*
- 4. As with any electrical device, the use of the Poweo® Nursing 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 is 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, when used on daily basis.*
- 8. Incorrect use :*
 - Using the lifter while the battery alarm is on,*
 - Using functions without having read this user manual,*
 - Use of the lifter or its accessories by children,*
 - Using the patient lifter to lift a heavier weight than the maximum safety load,*
 - Outdoor use,*
 - Using the hoist, 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. This may cause the charger or the battery destruction and/or malfunction of the battery charging function,*
 - Plugging in electrical components 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® Nursing is not properly used, more precisely if:

- a) The protective covers of the chassis are taken off by non-qualified personnel,**
- b) A regular maintenance is not performed,**
- c) The maximum load capacity is exceeded,**
- d) Repairs or electrical modifications are made by non-qualified personnel.**

Warranty

The Poweo® Nursing patient lifters and all their parts have a four (4) years warranty, except for the batteries and the slings that are guaranteed one (1) year.

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

Batteries not serviced in compliance with the servicing process indicated in 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.
- Assemblies, adjustments and repairs carried out by non-qualified personnel or non-authorized distributors.
- Incorrect use of the equipment, negligence, accident, human error, or maintenance and cleaning with non-adapted products.
- If the 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, 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 : 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 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 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

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 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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