

User Manual - English



Sherpa 3

REF

1700055X	200kg / 440lbs
1700056X	200kg / 440lbs
1700057X	200kg / 440lbs
1700058X	400kg / 880lbs
1700059X	200kg / 440lbs
1700060X	400kg / 880lbs
1700061X	200kg / 440lbs



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About this manual

We hope this product meets or exceeds your expectations.

This manual is designed to help acquaint users with the Sherpa 3 ceiling hoist. It provides information on what the device is and how it is intended to be used. It also describes technical information concerning the product's parts, maintenance and service. Please read this manual before use.

This manual applies to the following products:

Product	Article nr
Sherpa 3, Without spreader bar	17000550
Sherpa 3, Two-point spreader bar	17000551
Sherpa 3, X-shaped spreader bar	17000552
Sherpa 3, Four-point balance spreader bar	17000553
Sherpa 3, Four-point electric spreader bar	17000554
Sherpa 3, Four-point electric child spreader bar	17000555
Sherpa 3, Drive, Without spreader bar	17000560
Sherpa 3, Drive, Two-point spreader bar	17000561
Sherpa 3, Drive, X-shaped spreader bar	17000562
Sherpa 3, Drive, Four-point balance spreader bar	17000563
Sherpa 3, Drive, Four-point electric spreader bar	17000564
Sherpa 3, Drive, Four-point electric children's spreader bar	17000565
Sherpa 3, Quick Release, Without spreader bar	17000570
Sherpa 3, Quick Release, Two-point spreader bar	17000571
Sherpa 3, Quick Release, X-shaped spreader bar	17000572
Sherpa 3, Quick Release, Four-point balance spreader bar	17000573
Sherpa 3, Quick Release, Four-point electric spreader bar	17000574
Sherpa 3, Quick Release, Four-point electric child spreader bar	17000575
Sherpa 3, 400 kg, Without spreader bar	17000580
Sherpa 3, 400 kg, X-shaped spreader bar	17000582
Sherpa 3, 400 kg, Electric bariatric spreader bar	17000584
Sherpa 3, Drive, MilkyWay, Without spreader bar	17000590
Sherpa 3, Drive, MilkyWay, Two-point spreader bar	17000591
Sherpa 3, Drive, MilkyWay, X-shaped spreader bar	17000592
Sherpa 3, Drive, MilkyWay, Four-point balance spreader bar	17000593
Sherpa 3, Drive, MilkyWay, Four-point electric spreader bar	17000594
Sherpa 3, Drive, MilkyWay, Four-point electric children's spreader bar	17000595
Sherpa 3, 400 kg, MilkyWay, Without spreader bar	17000600
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Sherpa 3, 400 kg, MilkyWay, Electric bariatric spreader bar	17000604
Sherpa 3, Quick Release, MilkyWay, Without spreader bar	17000610
Sherpa 3, Quick Release, MilkyWay, Two-point spreader bar	17000611
Sherpa 3, Quick Release, MilkyWay, X-shaped spreader bar	17000612
Sherpa 3, Quick Release, MilkyWay, Four-point balance spreader bar	17000613
Sherpa 3, Quick Release, MilkyWay, Four-point electric spreader bar	17000614
Sherpa 3, Quick Release, MilkyWay, Four-point electric children's spreader bar	17000615

1 Intended Use, User & Environment

United Care's Sherpa 3 is a ceiling suspended lifting device which, together with approved accessories, assists in lifting and/or transferring patients in a seated or supine position over short to medium length distances indoors, such as from one room to another.

The ceiling hoist is to be used for/by:

- Patients/residents: persons with little to no muscular function who are subjected to the care of a caregiver. The user has limited to no possibilities to move around independently and/or perform (part of) the movements related to standing or walking. Patients/residents are persons, with a body mass of >20kg, a body length of at >80cm with a maximum of 200kg or 400kg depending on the version.
- Caregivers with medical training: healthcare professionals with medical education of different levels, who operate the device, assisting a patient with physical disability after training. They have knowledge of intended medical indication and how to approach a patient. They are literate and can read and interpret instructions for use.
- Caregivers without medical training: laypersons with no medical education, who operate the device, assisting a patient with physical disability after product training. They are literate and can read and interpret instructions for use and have received training from United Care / DHG on how to operate the device.
- Service personnel: technically savvy personnel at professional healthcare facility or assisting caregivers in home healthcare environment with repairs of the device. Service personnel have received training from DHG / United Care on how to repair the device.
- DHG / United Care Service Technicians: technically savvy DHG / United Care personnel with expertise in repairing and servicing the device.

The Ceiling Hoists are intended to be used in both Home healthcare environment and Professional healthcare facility environment.

- Home Healthcare environment is limited to indoor domestic area, excluding high humidity environments such as swimming pools. Operating conditions are +5°C to +40°C, Relative Humidity of 15%-90% atmospheric pressure of 700hPa – 106hPa.
- Professional Healthcare facility environment includes long-term care (residential cares, rehabilitation, and geriatric facilities), clinics, limited care facilities, hospitals (patient's rooms, emergency rooms, intensive care, surgery rooms except near high frequency surgical equipment).

2 Contraindications, Precautions and Warnings



READ THIS INSTRUCTION MANUAL BEFORE USING THE PRODUCT.

Failure to comply with the following points of attention and the further descriptions in this manual can lead to dangerous situations. Improper and careless use can cause damage to the device, and can lead to dangerous situations and incidents with injuries. In such situations, decommission the device and contact the supplier.

Contraindications

- The device may not be used for patients/residents above the maximum weight indicated on the device, label of the device and this user manual.
- The device is designed to lift and move patient/residents in combination with an appropriate sling and as such may only be used for this purpose. Any other purpose is not permitted.

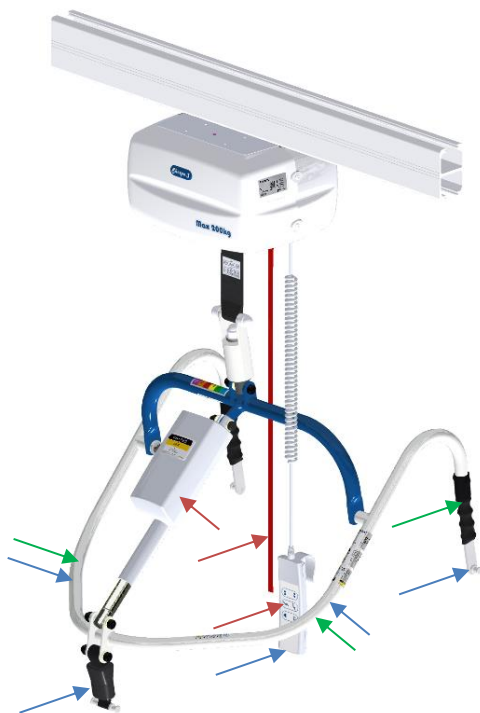
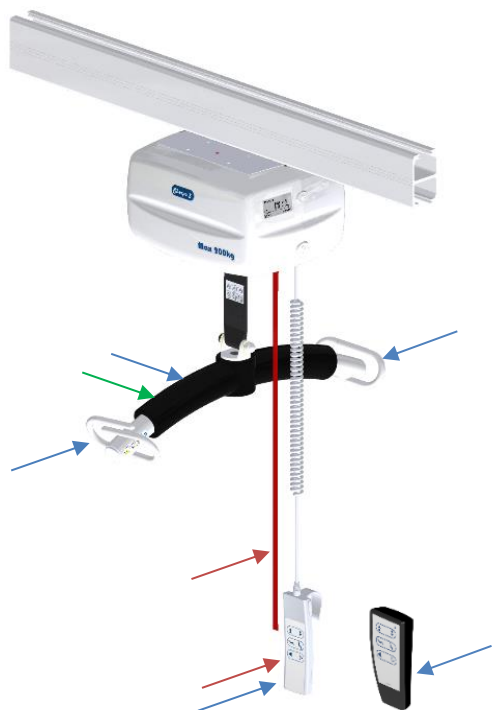
Precautions

- Treat the device with care and ensure a clean, tidy working environment.
- Check the condition and functions of the device regularly.
- Service and maintenance of the device is only permitted by trained persons. The lifetime of the device can be decreased by improper maintenance.
- The replacement of spreader bars or other structural parts of the device that are not intended to be removed is only permitted by trained persons.
- Operating the device is only permitted by trained persons.
- Charging the battery should always be done in a well-ventilated, dry room.
- Chargers need to be connected according to the installation guide and should be periodically inspected at least once a year.
- When moving the device, always check that the space where the transfer takes place is free of obstacles.
- The device must be inspected periodically at least once a year.
- Always report defects on the device to the supplier.
- Keep the manual where it is accessible to users of the device.
- If the maximum load between the hoist, spreader bar and sling differs, the lowest maximum load must always be used.

Warnings

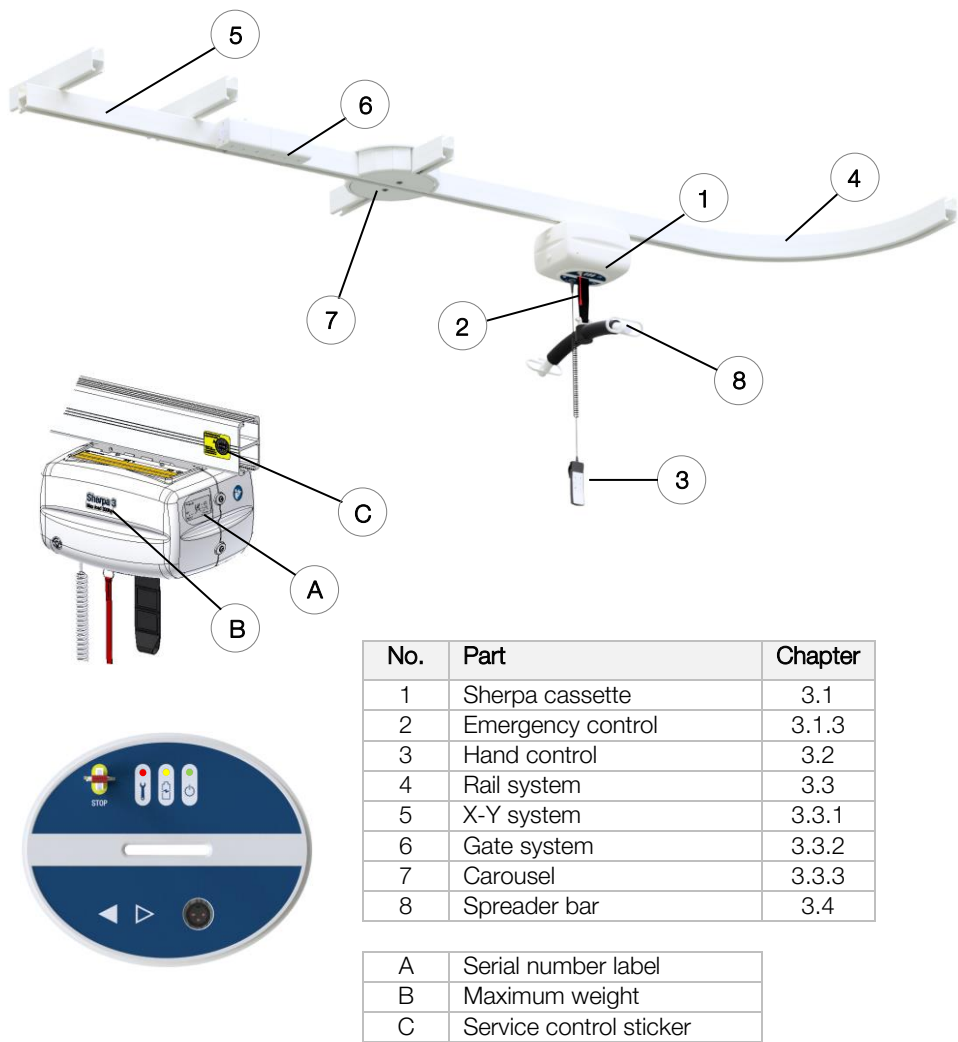
- Never use the device if you have not had a proper training on how to use the device including the accessories.
- Never leave the patient/resident unattended during a transfer situation.
- Only use the device with approved accessories. (If you intend to use a different type of sling, always contact United Care).

- Attaching the clips or loops of a sling to the spreader bar must be done carefully. Incorrect attachment of a clip/loop can result in hazardous situations.
- For service and repair, use only original parts supplied by United Care.
- Do not use the device if defective. If there is a red sticker with 'rejection' on the device, the device may not be used either.
- If deformations have occurred on the lift due to incorrect use or transport, it may no longer be used and must be returned to the supplier.
- Do not use the device if any of the cables shows signs of wear and tear.
- The device must not be left or stored in a damp or humid environment.
- The device must not be charged in a damp or humid environment.
- The device must not be cleaned using steam.
- The device may only be used indoors.
- No maintenance may be carried out while using the device or while the device is on charging.
- The device may not be modified in any way.
- Do not use other devices in combination with the Sherpa without approval of United Care/DHG.
- Always keep hands, legs and feet clear from the moving and folding parts.
- Do not use the handset, handset cord and spreader bar cord as a drag cord to move the patient/resident (red arrow). This may damage the wiring.
- The device is safe for caregivers to grab and operate on parts indicated by the blue arrow seen below. It is safe to use the spreader bar as a handle for the movement of a patient/resident (blue arrow).
- The device is safe for patient/residents to grab on parts indicated by the green arrow seen below.
- The motor of the electric spreader bar is solely intended for tilting device. It should never be used as a support, handle or push / pull bar.



3 Overview Sherpa

The following parts are described more thoroughly in the coming subchapters.



Sherpa 3

4F

UDI

Max Load

200 kg

Tot. Weight

209 kg

(01) 0 8720618 14384 6 (11) 250704 (21) 2500002

REF 17000550

Rev. B

SN 25000002

How to read the UDI number (product label):

(01)87206480600078(11)220616(21)2304416	
(01)	Device identification number, GTIN
(11)	Production date, YYMMDD
(21)	Serial number, first 2 digits is the year, last 5 digits is a tracking number.

3.1 Sherpa cassette

The Sherpa is a cassette that is hung in a rail system attached to the ceiling. It is a very reliable cassette that rolls silently and lightly through the rail. The Sherpa has a hand control with which the cassette is controlled. The cassette ensures safe lifting and lowering of the lifting belt with the spreader bar attached.

Attached to the spreader bar is the sling in which the patient/resident takes place. Operating the Sherpa can be done with the handset with curling cord or with an infrared handset (IR).

The Sherpa is equipped with a 'gravity power system'. The energy for braking the lifting belt is used for charging batteries. As a result, the battery needs to be charged less often and for a shorter period of time. This ensures a energy saving and a longer battery life. The Sherpa cassette is equipped with a mechanical free fall safety device. In case of failure of parts related to lifting and lowering and the weight comes in a state of free fall, this device will activate causing an immediate stop.



When the free fall safety is activated, do not use the device and contact United Care.

3.1.1 Control lights

The Sherpa cassette has three indication lights. The green light is on when the cassette is on and off when the cassette is off or in sleep mode. The lift automatically goes into sleep mode after 10 minutes and can be brought out of sleep mode by pushing a button to operate. The yellow light is on when the cassette is being charged, flashes when the cassette needs to be charged, and is off when the cassette is fully charged. The red light is on in case of a malfunction.



3.1.2 Charging

The batteries of the cassette are charged at a fixed place on the rail indicated by a sticker. The battery status is shown on the cassette. The yellow light lights up during charging and turns off when the battery is full. The light flashes when the battery is low. When the light starts flashing (20% full), there is still enough power to complete the transfer. Place the cassette on the charger after the transfer. When the battery reaches the 10% the lift only can be operated down. The lift needs to be charged after lowering.

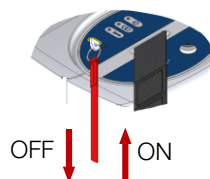


The charger of the cassette is fast and energy efficient. Charging takes up to 4 hours.

3.1.3 Emergency control

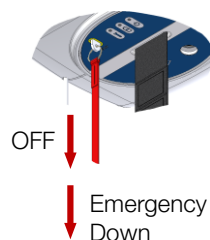
Emergency stop

Under the cassette hangs a red emergency cord. This cord is for emergencies only. When you pull the cord you disconnect the power to the PCB-board and the cassette will stop instantly. To cancel the emergency stop push back the bracket, to which the red cord is attached, into the cassette.



Electrical emergency down

When the cassette is not responding and the patient/resident has to be moved out of the device, pull the emergency stop cord. By holding the cord, the device will go down. This feature is for emergencies only.



Release the emergency cord to stop lowering the lift!



Only use the emergency down function when the hand control is not working!

Mechanical emergency down

In extreme cases when the cassette can no longer use the residual power to lower the patient/resident, you can mechanically turn the cassette down. Turn off the cassette by pulling down the emergency stop cord. Insert the supplied Allen wrench into the designated hole. By turning the wrench clockwise, the lifting belt with the patient/resident slowly lowers.



The strap lowers very slow when using the mechanical emergency down function.



3.2 Hand control

On the cassette is a remote to control the Sherpa. The hand control has 3 functions:

- ▲ ▼ Up and down
- ↘ ↙ Tilt adjustment electrical spreader bar (optional)
- ◀ ▶ Driving forwards and backwards (optional)

The handset is standard equipped with a curling cord to be able to stay close to the resident/patient during the transfer. The Sherpa can also be supplied with a wireless hand control using an infrared signal.



Never use the handset cord as a pulling cord to move the cassette. This can lead to damage to the cable.



Standard hand control



Infrared hand control

3.3 Ceiling rail system

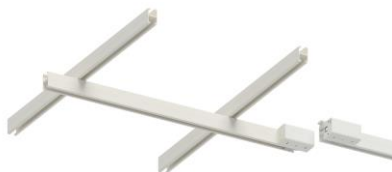
The cassette rolls through a rail that is mounted to the ceiling. The rail can be connected directly to the ceiling or slightly below the ceiling. The system can cover multiple surfaces by using bent rail segments (45°, 60° and 90°). The rail is attached to the ceiling every metre. The rails can be mounted to each other to provide a long system. This makes the system highly modular and adaptable to the user's needs.



Please refer to the installation manual for more information about installing the rail system.

3.3.1 X-Y system

An X-Y system is a rail system where two rails are fixed parallel to the ceiling. Perpendicularly under these rails, a movable rail will be mounted in which the cassette is placed. This makes it possible to move the cassette in the X and Y direction of a room to create a large and flexible lifting range.



3.3.2 Gate system

The Gate can be used to connect a movable rail (X-Y system) to a fixed rail on the ceiling, e.g. to couple the rails and go through a door. When you move the gate on the movable rail right in front of the fixed rail gate, the gates connect to each other and provides a safe passage from a X-Y system to a fixed rail system. The Gate is locking in three directions automatically when the cassette comes nearby.



3.3.3 Carousel

A carousel is used to be able to switch from one rail system to another by turning and connecting the rails. When you are driving through the carousel you stay on the original track. When you wait a few seconds in the carousel it will turn with the cassette automatically and align to another track. The carousel can take a turn of 90 degrees or 45 degrees and have a maximum of four rail connections. As soon as the cassette is positioned under the carousel, it will beep and after a few seconds it will automatically turn.



The X-Y, Gate and Carousel systems do not support the 400kg version of Sherpa 3 and can therefore not be used with it.

3.4 Spreader bar

The Sherpa is equipped with a spreader bar. The spreader bar is a construction to which the sling is attached in which the patient/resident takes place. The spreader bar is connected to the lifting strap with a coupling piece. This coupling ensures that the spreader bar can turn and tilt freely. There are six types of spreader bars available for the Sherpa:

- Two-point spreader bar (200 kg)
- X-shape spreader bar (200 kg & 400 kg)
- Balance spreader bar (200 kg)
- Electric spreader bar (200 kg)
- Electric bariatric spreader bar (400 kg)
- Children's electric spreader bar (200 kg)

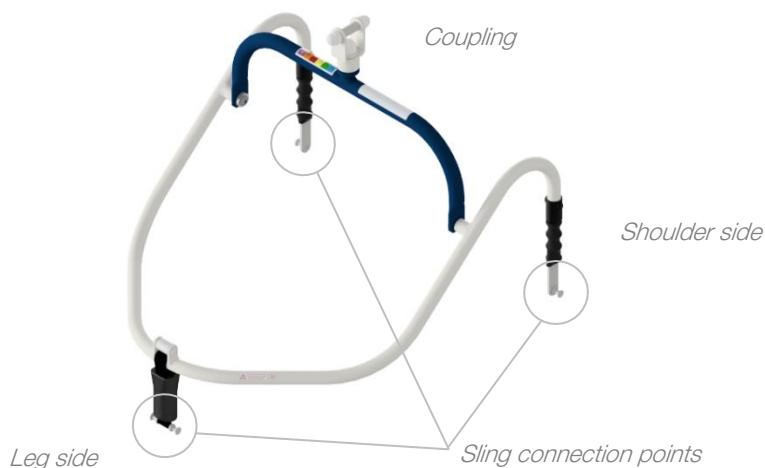
3.4.1 Two-point spreader bar

The two-point spreader bar is used in combination with slings with loops. These loops can be connected to the hooks of the two-point spreader bar. Due to the different lengths of loops, the patient/resident can be lifted in both lying and sitting position. The two point spreader bar can carry up to 200kg when mounted to the Sherpa 3.



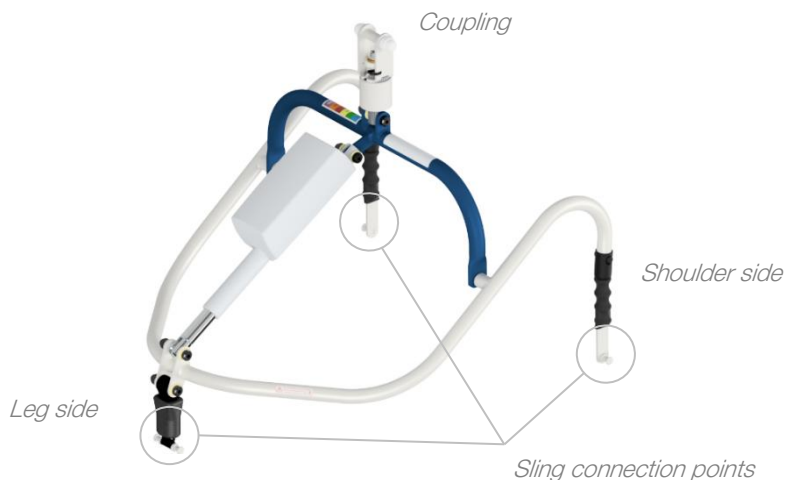
3.4.2 Four-point balance spreader bar

The balance spreader bar can bring the patient/resident into a sitting or a lying position by pushing the patient/resident to the desired position. The spreader bar ensures the position of the patient/resident is retained through balance. The sling is attached using clips. These clips are part of the sling and can be attached to the connection points of the spreader bar.



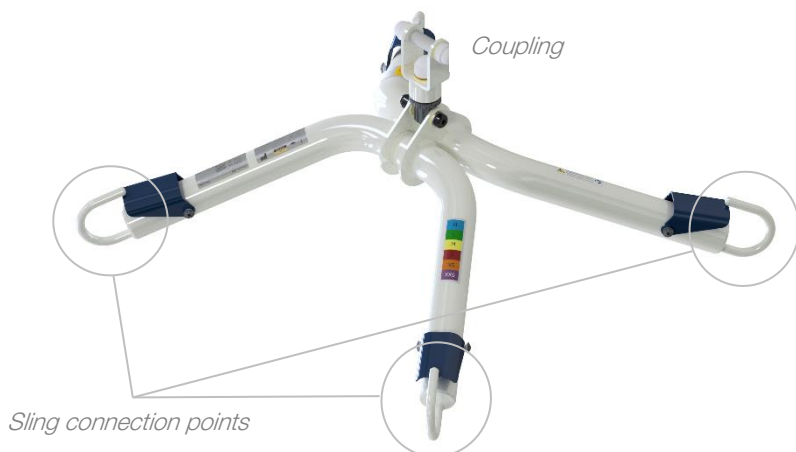
3.4.3 Four-point electric spreader bar

The electric spreader bar can bring the patient/resident into a sitting or a lying position by adjusting the spreader bar by means of an electric actuator operated by the hand control. The sling is attached using clips. These clips are part of the sling and can be attached to the connection points of the spreader bar. The children's spreader bar is a narrow version of the standard spreader bar, making it suitable for children and smaller people.



3.4.4 X-shaped spreader bar

The x-shaped spreader bar is available in both 200 kg and 400 kg (bariatric) variants for the Sherpa 3 and is used with loops slings. The shape of this spreader bar accommodates for more comfort and space for patients/residents.



3.4.5 Bariatric spreader bar

The bariatric spreader bar can be used for patients/residents up to 400 kg and accommodates for clip slings only. The clips can be attached to the six connection points indicated by the grey circles.



3.5 Sherpa 3 Quick-Release

The Sherpa 3 is available with Quick-Release functionality. The cassette can be easily removed from the trolley, in case it needs to be moved to a different area. That way one Sherpa 3 cassette can be used for multiple rail systems.

See chapter 4.5 for more information about how to use the Quick-Release functionality.

3.6 Sherpa 3 400 kg

The Sherpa 3 is available with a maximum load of 400kg (880 lbs.). It is particularly suited for bariatric care, ensuring both comfort and safety for heavier patients/residents.



Sherpa 3 400 kg is only available with the spreader bar designed for the heavier load. See the product overview for available options.



Sherpa 3 400 kg cannot be used in combination with the Carrousel and Gate accessories.



Quick-release and drive functionality is not available for Sherpa 3 400kg.



Due to the pulley system the lifting speed and range of the lifting strap is halved compared to Sherpa 200kg.

3.7 Sherpa 3 Drive

The Drive version of Sherpa 3 is equipped with a driving motor that provides motorized movement through the ceiling tack. The direction of movement is controlled via the buttons on the hand control.

Quick-Release



400 kg



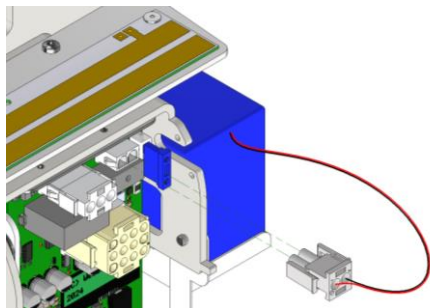
Drive



4 Using the Sherpa

4.1 Before use

Before the very first use of Sherpa 3 remove the covers as shown in §10.1 and connect the battery plug as shown below:



Before every use of the Sherpa, make sure to follow the next steps:

1. Visually inspect the Sherpa. The occurrence of the following must be checked;
 - Cracks or damages to the cassette or lifting strap.
 - Cracks or damages to the rail system.
 - Cracks or damages to carrousel or gates.
 - Cracks or damages to the spreader bar.
2. The cassette is automatically turned on when operating the buttons on the handset.
3. Check the condition of the sling.
4. Check the condition of the clips or loops of the sling.
5. Check that the end stops are securely fastened to the rail.

The Sherpa is ready for use. Always maintain a neat and clean work environment.



If any of these points apply, the product should be put out of operation and must be repaired or parts must be replaced first. Dispose discarded products or parts as environmentally as possible according to the local regulations. Contact United Care when in doubt of the condition of the Sherpa.



Do not use the lift or accessories when its condition is insufficient and contact the owner and/or supplier.



During a first use or after repair, always check whether the end stops are securely attached.

4.2 Applying the sling to the patient/resident

Consult the user manual of the passive slings application before use.

4.3 Attaching the sling to the spreader bar

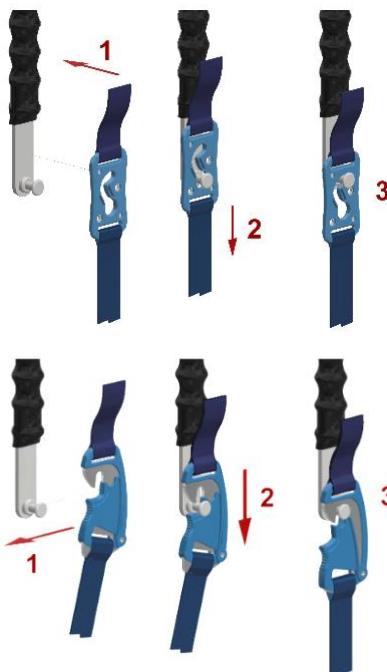
Attaching the sling to the device depends on the type of spreader bar and sling that is being used. First determine which spreader bar and sling will be used. Then follow the steps described below.

4.3.1 Spreader bar for clips

1. Position the lift near the patient/resident and apply the sling to the patient.
2. Lower the lift to a height from which the clips can easily be attached to the spreader bar.
3. Attach the clips to the spreader bar. Make sure that the clips are always attached to the correct side of the spreader bar. Follow the instructions below, depending on which clips are being used.

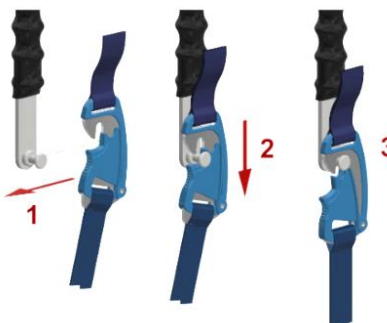
UCP clip (C):

1. Hold the strip of the clip with one hand, and pull the large hole of the clip over the head of the suspension point, check that the band (where the clip is attached to the sling) is not turned.
2. Take the strap under the clip of the sling and pull it down
3. Pull the clip of the sling so that the suspension point falls into the security. The suspension point is now locked in the hole at the top of the clip.



iQ clip (Q):

1. Before applying (and removing) the clip, make sure that the tension is off the sling. Hold the clip with one hand, and push the latch open with the thumb. You can also press the clip over the pen instead of opening it first. Check that the tape, with which the clip is attached to the sling, is not twisted.
2. Hook the clip over the suspension point and pull it down. The clip snaps into place.
3. Now the clip is fixed and secured. Due to the tension on the tape, the clip can never go off. Half assembly is no longer possible here.



Always double check if the clips are securely fastened to the spreader bar!

4.3.2 Spreader bar for loops

1. Position the lift near the patient/resident.
2. Position the spreader bar above the torso of the patient/resident.
3. Lower the lift to a height from which the clips can be easily attached to the spreader bar.

4. Attach the loops of the sling to the loop hooks of the spreader bar. Make sure that the loops on the leg side are applied crosswise.
 - a. Use the long loops for the legs and the short loops for the shoulder for a transfer in **a sitting position**.
 - b. Use the short loops for the legs and the long loops for the shoulders for a transfer in **a lying position**.



Always double check if the loops are properly attached to the spreader bar!

4.4 Making a transfer

1. Make sure the sling is applied according to the instructions in the sling user manual.
2. Put the spreader bar in the correct position and attach the sling to the spreader bar according to §4.3.
3. Lift the patient/resident by pressing the  - button on the hand control. Check that the clips/loops are (still) correctly attached after the sling is in tension, before lifting further! The ideal lifting height is if there is good eye contact between the patient/resident and the caregiver.
4. Move the patient/resident to the desired location by using the spreader bar as a handle. During the transfer, walk with the device and stay close to the patient/resident.
5. Bring the patient/resident into the desired position, in lying position by pressing the  - button or in sitting position by pressing the  - button on the hand control (this function is only possible if the Sherpa is equipped with an electric spreader bar).
6. Lower the patient/resident by pressing the  - button on the hand control until the patient/resident's weight no longer rests on the lift and there is no more tension on the sling.
7. Disconnect the sling from the spreader bar.
8. Remove the patient/resident's sling according to the instructions in the user manual of the sling.



Do not use the hand control or the cord as a drag cord. Stand next to the patient/resident and push it along the course of the rail to the desired place. The spreader bar can be used as a 'handle' for the movement.



When moving the lift make sure the pathway is free of any obstacles.

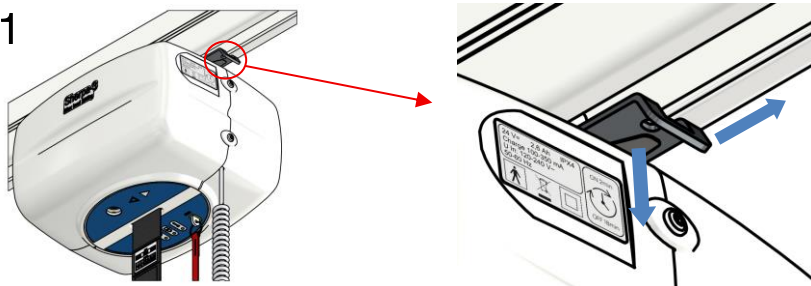


Always consider the safety of the patient/resident while operating the lift.

4.5 Quick-release functionality

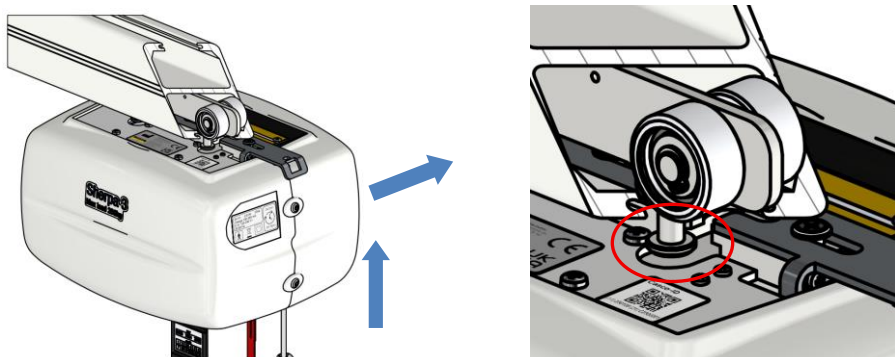
To remove the cassette from the rail follow the steps below:

1



Pull the steel lip down and pull the locking plate away from the cassette

2



Move the cassette up and to the side until the pedestals are disconnected from the frame

3



Carry the cassette off the trolley

To reattach the cassette to the trolley again, reverse the steps above.



Make sure the locking plate is slid into place correctly when mounting the cassette. Otherwise the Sherpa 3 does not work!

5 Sherpa 3 – MilkyWay

The Sherpa 3 can be used in combination with SystemRoMedic's® MilkyWay ceiling track system. The trolley is specially designed to fit the track system and can be used with the in-rail and endpoint charging option of MilkyWay. The following options are available:

Product	Article number
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Sherpa 3, Quick Release, MilkyWay, Four-point electric child spreader bar	17000615

The Sherpa 3 can also be used in combination with SystemRoMedic's® Spreader bars and Quicklink systems. When choosing this option make sure to order the Sherpa 3 without spreader bar and the SystemRoMedic® spreader bar separately.

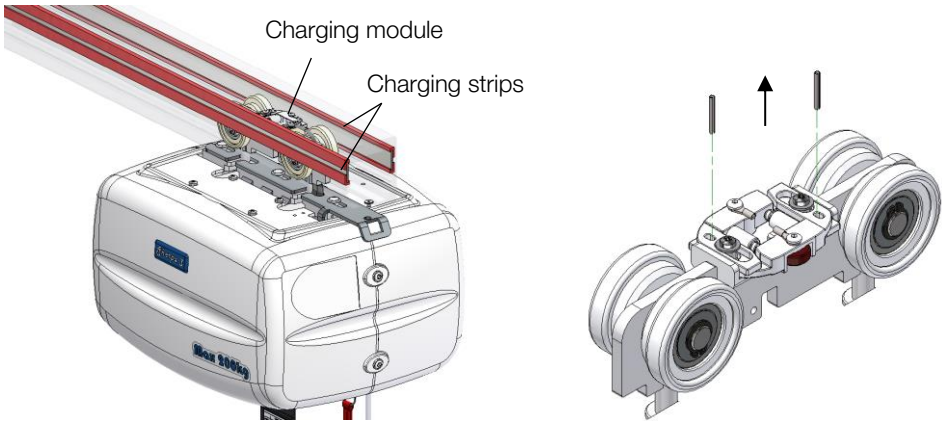
Product	Article number
SystemRoMedic SlingBar S	70200001
SystemRoMedic SlingBar M	70200002
SystemRoMedic SlingBar L	70200003
SystemRoMedic Sling bar RFL X4	70200017

Contact Direct Healthcare Group for more information about spreader bars.

5.1 In-rail charging

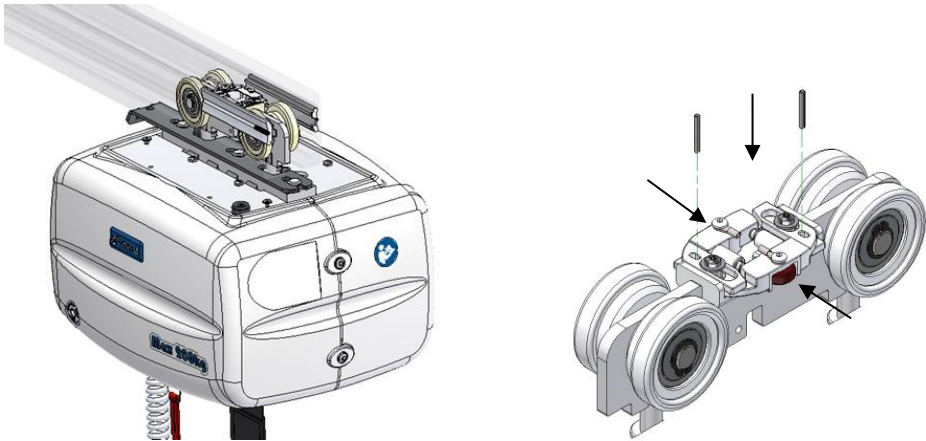
The Sherpa 3 MilkyWay can be charged using the in-rail charging system of MilkyWay. This ensures it is always charged regardless of where the Sherpa is placed. The trolley uses a

charging module with connects to the charging strip inside the rail. It is important that the pins are removed from the charging modules before installation.



5.2 Endpoint charging

End point charging works similar to in-rail charging except that the charging strips are only at the end of the rail system. The Sherpa must be moved to the end of the rail to charge. It is important that the pins stay in the charging module during installation.

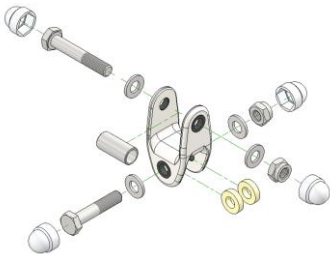


Refer to the SystemRoMedic® MilkyWay manual for more information about the MilkyWay rail system.

5.3 Attaching a SystemRomedic® spreader bar or QuickLink to Sherpa 3

SystemRomedic spreader bars can be attached to Sherpa 3 by using the coupling set (article number: 32400784). Before mounting the new spreader, the old spreader bar first needs to be removed if present. Follow the steps below to attach the new spreader bar or quicklink.

1.



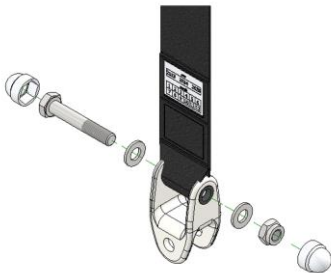
Disconnect all bolts, nuts, washers and caps.

2.



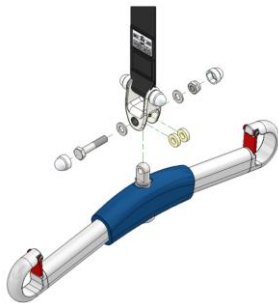
Place the bushing in the loop of the lifting strap.

3.



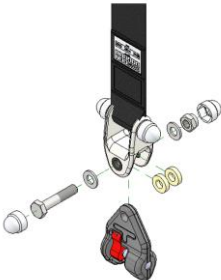
Mount the cardan to the strap. Tighten the nut until everything is secured and there is no space between the parts.

4a.



Mount the spreader bar to the cardan. Tighten the nut until everything is secured and there is no space between the parts.

4b.



Mount the QuickLink to the cardan. Tighten the nut until everything is secured and there is no space between the parts.

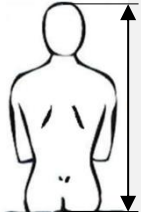
6 List of accessories

The accessories below can be used in combination with the Sherpa 3:

Description	Article number
Two-point spreader bar	32000740
Four-point balance spreader bar	32000021
Four-point electric spreader bar	32000260
Four-point electric children's spreader bar	32000680
X-shaped spreader bar 200 kg	32000633
X-shaped spreader bar 400 kg	32000632
Electric bariatric spreader bar	32000651
Quick-release trolley	17400380
Quick-release trolley MilkyWay	17401510
Quick-release trolley MilkyWay with charging	17401520
Lowering set Sherpa (not available for MilkyWay version)	17400270
SystemRoMedic coupling set – Sherpa 3	32400784
QuickLink	70200101
SystemRoMedic SlingBar S	70200001
SystemRoMedic SlingBar M	70200002
SystemRoMedic SlingBar L	70200003
SystemRoMedic Slingbar RFL X4	70200017
Weighing scale set – Sherpa	32400341

7 List of compatible slings

The table below shows all slings compatible with the Sherpa 3. The characters (X and Y) at the end of the article number refer to the size and connection respectively. Refer to the slings Instructions For Use for the complete list of article numbers.

Colour	Code	Size	Crown-Tailbone height		X = Size : 0-6 Y = Connection : C = UCP-Clip Q = iQ-Clip P = Loops
Purple	0	XXS	45-60 cm		
Brown	1	XS	60-80 cm		
Red	2	S	80-87 cm		
Yellow	3	M	85-90 cm		
Green	4	L	90-97 cm		
Blue	5	XL	95-102 cm		
Orange	6	XXL	102-106 cm		

Sherpa with electrical/balance spreader bar

Sling type	Art. Nr.	Material	Size
Standard	3010905 XY	Polyester	S-XXL
	3010904 XY	Mesh	S-XXL
Amputee	3010154 XY	Mesh	M-XXL
	3010155 XY	Bamboe	M-XXL
	3010158 XY	3D	M-XXL
Long Stay	3010188 XY	Bamboo	S-XXL
	3010911 XY	3D	S-XXL
Toilet	3010960 XY	Polyester	S-XXL
Anti-spasm	3010193 XY	Mesh	S-XXL
	3010903 XY	Bamboo	S-XXL
	3010912 XY	3D	S-XXL
Long Seat	3010934 XY	Mesh	S-XXL
	3010931 XY	3D	S-XXL

*only clip slings can be used with the electric/balance spreader bar

Sherpa with 2-point spreader bar (only loops)

Sling type	Art. Nr.	Material	Size
Long Stay	3010188 XY	Bamboo	XXS-XXL
	3010911 XY	3D	XXS-XXL
Anti-spasm	3010193 XY	Mesh	XXS-XXL
	3010903 XY	Bamboo	XXS-XXL
	3010912 XY	3D	XXS-XXL

*only loop slings can be used with the 2-point spreader bar

Sherpa with bariatric electrical spreader bar

Sling type	Art. Nr.	Material	Size
Bariatric	30101200 XY	Mesh	XXL

*only clip slings can be used with the bariatric spreader bar

Sherpa with spin spreader bar 230 kg

Sling type	Art. Nr.	Material	Size
Long Stay	3010188 XY	Bamboo	XXS-XXL
	3010911 XY	3D	XXS-XXL
Anti-spasm	3010193 XY	Mesh	XXS-XXL
	3010903 XY	Bamboo	XXS-XXL
	3010912 XY	3D	XXS-XXL

*only loop slings can be used with the spin spreader bar

Sherpa with spin spreader bar 400 kg

Sling type	Art. Nr.	Material	Size
Long Stay	3010188 XY	Bamboo	XXS-XXL
	3010911 XY	3D	XXS-XXL
Anti-spasm	3010193 XY	Mesh	XXS-XXL
	3010903 XY	Bamboo	XXS-XXL
	3010912 XY	3D	XXS-XXL

*only loop slings can be used with the spin spreader bar

All slings that are compatible with the SystemRoMedic® spreader bars are also compatible with Sherpa 3 – MilkyWay provided that the correct spreader bar is installed. For more information about the compatibility of slings refer to SystemRoMedic's® instructions for use.

8 Maintenance and service

The Sherpa is designed so that maintenance can be kept to a minimum. It is advised to follow the maintenance schedule below:

- Daily and weekly maintenance can be done by the caregivers.
- Semi-annual maintenance should be performed by the technical service.
- The annual inspection and any resulting repair should be carried out by United Care or a partner trained by United Care.

8.1 Daily Maintenance

The following operations can be performed by caregivers on a daily basis.

The Sherpa 3

Check if everything is present before using the lift. Check if the battery is charged enough before use. Check the state of the cassette according to §4.1.

The slings

Before use, always check if the sling is clean and in good condition as stated in the manufacturer's instructions.



When in doubt on the condition of the lift or sling, always contact the technical service or United Care!



Place the Sherpa back on the charger after use and at the end of the day.

8.2 Weekly Maintenance

The following operations can be performed by caregivers on a weekly basis.

The Sherpa 3

- It is recommended to clean the cassette and spreader bar weekly. This is best cleaned with normal household detergent and a well-squeezed damp cloth.
- Check the operation of the lift and the operation of the emergency stop.
- Check that all movable parts move easily, without annoying noise.

The sling

- Inspect and disinfect the sling in accordance with the manufacturer's instructions.
- If disinfection is required, use a product intended for cleaning of such products. Use a detergent with a maximum of 5% alcohol or max 1% Salicylic Acid. The product is not intended to be sterilised or cleaned by steam.

8.3 Semi-Annual Maintenance

The list below provides an overview of the maintenance that the technical service can perform on the Sherpa every six months.

1. Check the readability of the serial number label, the presence of a manual, quick guide and logbook.
2. The sling(s) is(are) safe to use after inspection as stated in the manufacturer's instructions.
3. Check for damage
4. Check the cabling for visible damage
5. Check whether the Sherpa runs well through the rails
6. Thoroughly check the Sherpa for smooth movement of moving parts
7. Check the operation of the emergency stop
8. Check the operation of the emergency down control
9. Check the condition of the lifting strap.
10. Check the condition of the spreader bar strap.
11. Clean the contact springs of the charger and the contact surfaces on top of the cassette with a contact cleaner (without lubricant)
12. Put the Sherpa on the charger and charge until the yellow light goes out
13. Check that visible bolts are tightened properly
14. Check the rail system for damage or deformations
15. Check the rail and ceiling mount
16. Clean the rail with a detergent and a squeezed damp cloth
17. Clean the wheel surface on the inside of the rail
18. Check that the end stops are still firmly attached.
19. Clean the lift thoroughly:

The device can be cleaned regularly using normal household detergent. If disinfection is required, use a product intended for cleaning of such products. Use a detergent with a maximum of 5% alcohol or max 1% Salicylic Acid. The product is not intended to be sterilised or cleaned by steam.



If the lift does not comply with one or more of the points above, the lift must be put out of operation and the technical service or United Care must be contacted.



Service and maintenance of the lift is only permitted by trained persons.

8.4 Annual Maintenance

According to the requirements it is recommended to inspect a patient/resident lift once a year. This must be done by United Care or another authorized company. United Care offers you the opportunity to have your lift thoroughly inspected once a year, by means of a maintenance agreement. The next inspection date can be found on the service check label (see image on the next page). This label is on the Sherpa 3 cassette or nearby the charger. For more information, please contact United Care by phone.

The service check label indicates the date on which the next Periodic Inspection must be performed on the Sherpa.



Chargers need to be inspected once a year as well, according to the applicable regulations.



8.5 Preventive Maintenance

In addition to the mandatory annual inspection, the following parts should also be reviewed each year:

- The LiFePo4 battery has a lifetime between 5 and 10 year. It is recommended to replace the battery every 5 years to avoid any issues.
- The lifting strap of the cassette needs to be replaced every 5 years due to reduced condition of the fabric through wear and age. It must be checked every year for fraying of fabric, loose stitching, cracks in the fabric, etc. A small damage is rejection.
- A sling is recommended to be replaced every 2 to 3 years due to reduced condition of the fabric through washing, drying, usage and age. The clips of the sling also need to be checked every year.
- The clip strap of the spreader bar must be replaced every 5 years.



If in doubt, always contact the technical service or United Care.

8.6 Replacement/Removal of Parts

When the product or parts of it are no longer usable it should be recycled in accordance with legislation and regulations in the country concerned. All electrical parts including batteries must be removed and recycled as electrical components. Ask your local recycling station for further information about how the different materials in the product (metals, plastics, electronics) should be recycled. Used batteries can also be returned to United Care, Direct Healthcare Group or a Direct Healthcare Group distributor for recycling.



9 Troubleshooting



If the repair table below does not resolve the complaint or in case of doubt, do not use the lift/sling and contact United Care.

Complaint	Possible cause	Action
Sherpa does not work.	Emergency stop activated.	Push up on emergency stop.
	Hand control is loose or broken.	Connect or replace the hand control.
	The battery is empty	Charging the Battery
Spreader bar does not work	Emergency stop activated	Press emergency stop
	Hand control is loose or broken	Reconnect or replace the hand control.
	Spreader bar cable is loose or broken.	Reconnect the cable or replace it.
	Damage to the spreader bar coupling / cable.	Replace the spreader bar coupling or check the condition of the carbon brushes.
	Spreader bar motor broken.	Replace the motor.
Sherpa does not drive.	Emergency stop pressed.	Press the emergency stop.
	Hand control is loose or broken.	Connect or replace the hand control.
	Riding motor broken.	Replace the motor.
The lift creaks	Dry running of the bearings.	Use slightly penetrating oil.
	Motor rattles.	Replace motor.
Sherpa does not charge	Charger contact surfaces dirty.	Clean surface (use, if necessary, contact spray)
	LED is not giving any sign on the charger.	Charger not plugged in or broken.
	Contact point is broken.	Replace contact point.
	Cassette does not touch the charging station.	Moving the charging station.
	Interruption in cabling.	Check the cables and reconnect the plugs.
Sherpa has little power	Low battery.	Battery charging.
	Battery bad.	New battery or new cells.
	Motor bad.	Motor replacement.
Battery drains quickly.	Bad battery.	Battery replacement.
Battery empty, light keeps flashing.	New batteries installed.	During use and charging the PCB will learn better how full the battery really is. After 1 transfer the PCB knows enough.
Gate.	Gate does nothing at all.	Check power supply and interfaces.
	Gate does not pair (it beeps).	Removing Gates from each other. And try again.
	Gate does not stop on micros but on max current.	Adjust gate-terminal block or micros.
	Cassette between ports.	Manually opening the gate with a magnet.
Carrousel.	Carrousel does nothing.	Check power supply.
	Carrousel turns difficult.	Check the fixing ceiling.
	Carrousel does not stop in time.	Checking / adjusting micros.

10 Repairs to the cassette



Maintenance and repairs may only be carried out by authorised persons. In case of doubt, problems and malfunctions, please contact United Care.



Pay attention to hands and fingers if the caps of the cassette are disassembled. Do not keep near rotating parts, this can lead to serious injuries.



When parts need to be replaced, disconnect the power first. You do this by turning off the lift with the pull cord and then disconnecting the cables from the batteries.

After maintenance or repair, check the following points:

1. Check all the functions of the cassette.
2. Check the operation of the cassette, rotating and sliding parts should be able to move freely.
3. Check the state of the lifting strap.
4. Check that the lifting strap rolls up straight.
5. Check the strap slack protection microswitch.
6. Check the end stop microswitches, they should switch and stops the upper movement.
7. Check the emergency stop switch and whether the switch plate is moving easily.
8. Check the emergency down switch.
9. At least make a full stroke in and out with the lifting strap once.
10. Check that the end stops in the rail are securely attached.
11. Clean the contact surfaces on the cassette, interface and chargers.



If any maintenance or repairs have been carried out on the Gate or Carousel, please check the following points:

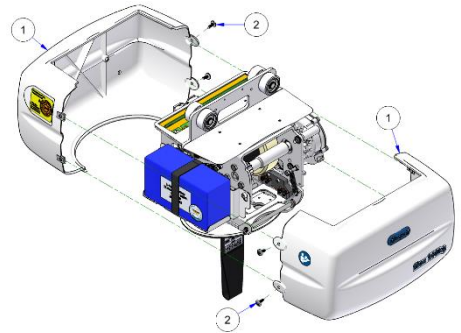
1. Check if all parts rotate and move smoothly.
2. Check the operation of the microswitches.
3. Check the operation of the protections.
4. Clean all contact surfaces.



Before carrying out repairs or maintenance, push in the emergency button, remove the covers and remove the batteries.

10.1 Disassembling the cover

The covers of the Sherpa (figure beside, position 1) must be disassembled for inspection, maintenance or repair. By unscrewing the two screws (Torx20) on the side of the cassette (figure beside, position 2), the caps can be removed from each other. Remove both caps at the same time to prevent the caps from falling.



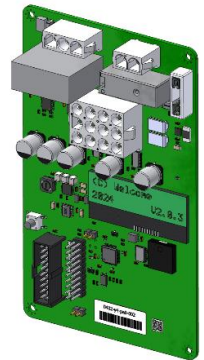
Pay attention to the hands and fingers while operating the device without the caps. Do not keep near rotating parts, this can lead to serious injuries!

10.2 PCB readout

When the covers of the Sherpa are removed, the circuit board (PCB) is visible. On this PCB is a screen with information that correspond to the operating function of the cassette. Each letter represents a function. When you operate this function, the letter of the function will change to a capital letter (or to a small letter). For example, in the event of a malfunction, you can check if the operation is coming reaching the PCB or not.

The meaning of the letters is as follows:

h (H)	up	hand control
d (D)	down	hand control
v (V)	drive forward	hand control
a (A)	drive backwards	hand control
z (Z)	sitting position spreader bar	hand control
l (L)	lying position spreader bar	hand control
E (e)	first lift – end stop	(micro switch with yellow cable)
T (t)	second lift – end stop	(micro switch with orange cable)
b (B)	strap slack micro	(micro switch with green cable)



The voltage of the batteries is also indicated on the right side of the screen. On the lowest line u see a live current value of the H/L motor and the spreaderbar motor. Beside that you can read the battery capacity:

- 100% is a full battery.
- 50% is a half full battery.
- 20% the orange LED goes blinking (charge needed)
- <10% the lift only can lower the weight.

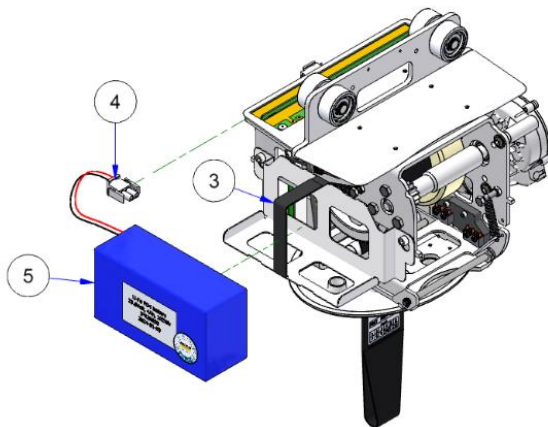
10.3 Battery replacement

It is recommended to replace the battery every 5 years to prevent problems. The replacement of the battery may only be carried out by authorized persons. Only use a battery supplied by United Care. The battery can be replaced by following the steps below:

1. Turn off the cassette with the emergency cord.
2. Remove the covers from the cassette (see §10.1)
3. Disconnect the connector of the battery (figure under, pos. 4) from the PCB.
4. Remove the Velcro strip (figure under, pos. 3) from the battery.
5. Remove the battery from the battery case (figure under, pos. 5).
6. Insert the new battery with the cable on the left.
7. Secure the batteries with the Velcro strip.
8. Connect the connector to the PCB.
9. Turn on the cassette by pushing in the emergency stop. The cassette immediately turns back on.
If this is not the case, check connection of the battery, check the fuse on the PCB.
10. Place the covers back on the cassette. Make sure that the hole used for the emergency down is lined up with the motor.

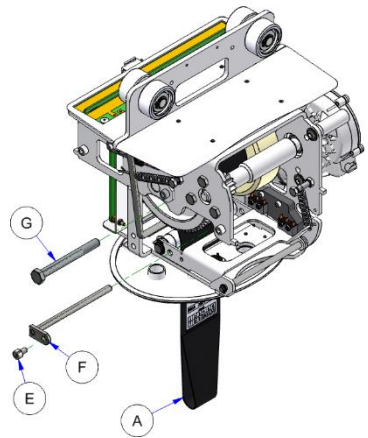
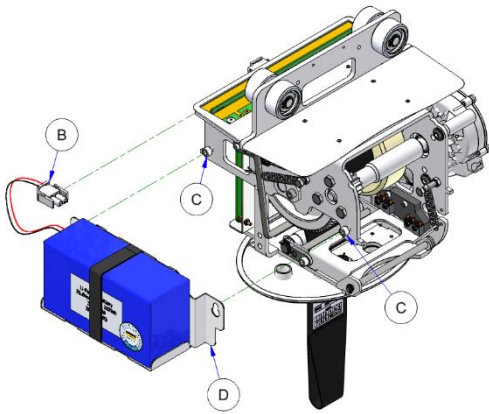


Always disconnect the power source during a repair. This prevents short circuits or uncontrolled movements. Also move the cassette away from the charging point.



10.4 Lifting strap replacement

1. Remove the spreader bar from the strap.
2. Remove the caps from the cassette (see §10.1).
3. Lower the lifting strap (A) all the way down until the belt is fully unwound. Mounting bolt (G) is now positioned at the bottom.
4. Turn off the cassette by pulling the emergency CORD.
5. Remove the connector (B) of the battery from the PCB.
6. Remove the battery with bracket by loosening the bolts (C)
7. Remove the bolt (E) from the strap guide and pull out the stop rod (F).
8. Disassemble the bolt from the strap spool (G) and remove the sling.
9. Insert the new lifting strap through the cover and strap guide and attach it to the spool with the bolt (G).



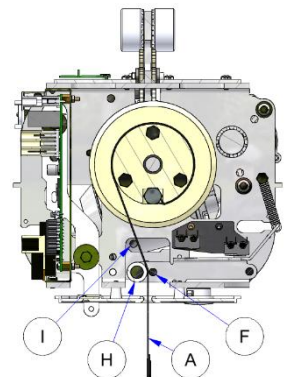
Remember that the lifting strap is placed on the right side of the strap slack rod (I). In case of incorrect assembly, the lift will not lower.

10. Place the stop rod (F) back into the strap guide and tighten the bolt (E).



Always check that the strap is between the roller (H) and stop rod (F) and that the bolt is attached correctly. This is essential.

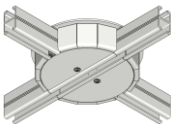
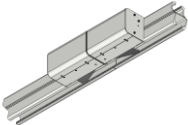
11. Mount the battery back to the frame in and plug the connector into the PCB.
12. Turn the lift back on by pushing in the emergency bar in the cassette.
13. Wind up and unwind the lifting strap fully and check all the end stops.
14. Check all bolts of they are retightened correct.
15. Place the covers back on the cassette.
16. Mount the spreader bar back as intended.

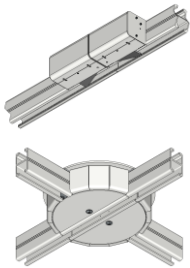


11 Technical Data

11.1 Technical Specifications

General specifications		
<i>Sherpa 3</i>	200kg version	400kg version
Weight of the device	8,5kg	11kg
Maximum load	200 kg	400kg
Total maximum weight	208.5 kg	411kg
<i>Gate</i>		
Weight of the device	7 kg	
<i>Carousel</i>		
Weight of the device	15 kg	
Sherpa cassette		
Noise Level	Max 44 dB(A)	
Ingress Protection	IPX4	
Duty Cycle	10%	
Lifting motor	24 Vdc~	
Drive motor	24 Vdc~	
Battery LiFe-P04	25.6V~ nom. 4Ah	
Electrical Spreader Bar	24 Vdc~ max 5,5A	
Charger		
Primary	100-240 V~ 50/60 Hz	
Secondary	28 Vdc max 0.56A	
Ingress Protection	IP67, EN60601-1	
Hand control		
Ingress Protection	IP54	
Type	6 Functions	
Gate		
Noise Level	Max 50 dB(A)	
Ingress Protection	IPX4	
Duty Cycle	10 %	
Voltage	24 Vdc~	
Carousel		
Noise Level	Max 54 dB(A)	
Ingress Protection	IPX4	
Duty Cycle	10 %	
Voltage	24 Vdc~	





United Care will make available any other technical data like circuit diagrams, parts lists, description or calibration instructions if requested.

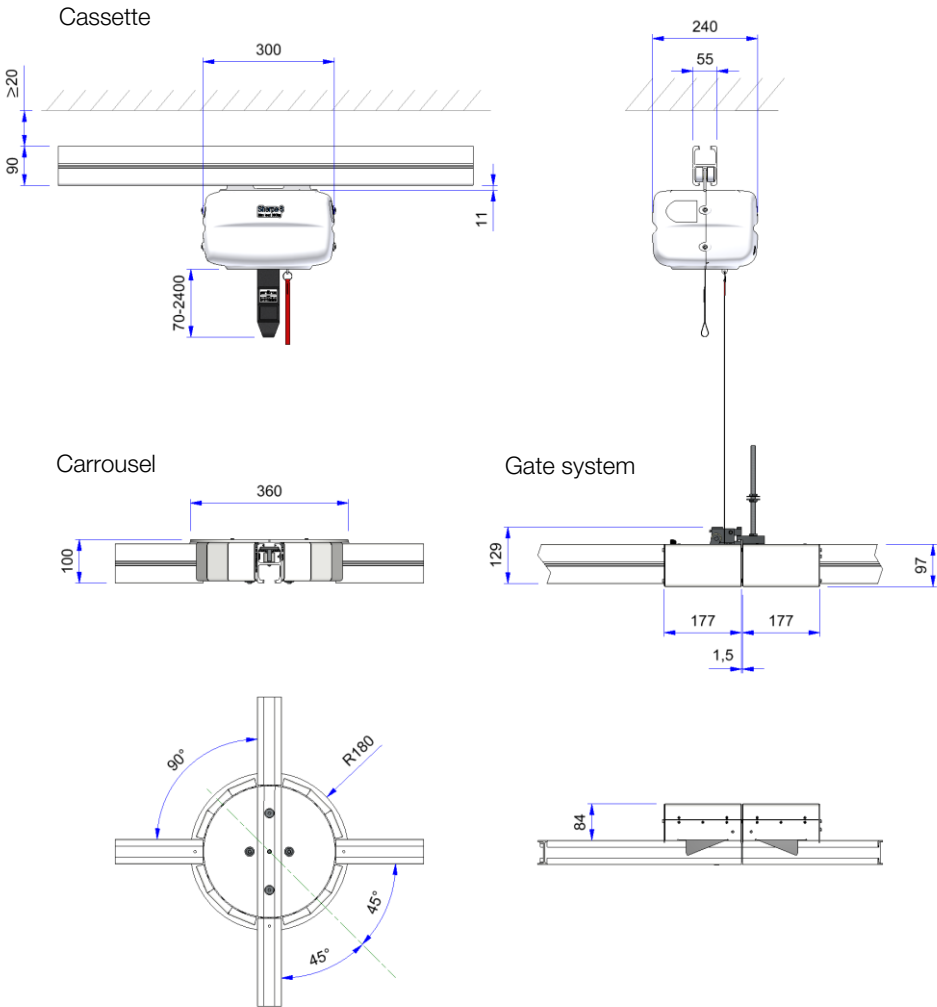
11.2 Operating forces

The operating forces of controls should not exceeds the values in the table below:

Operation Control	Maximum required force
Hand control buttons	2 N (0,2 kg)
Emergency stop	3 N kg (0,3 kg)
Emergency down	5 N (0,5 kg)
Moving the lift	25 N (2,5 kg)

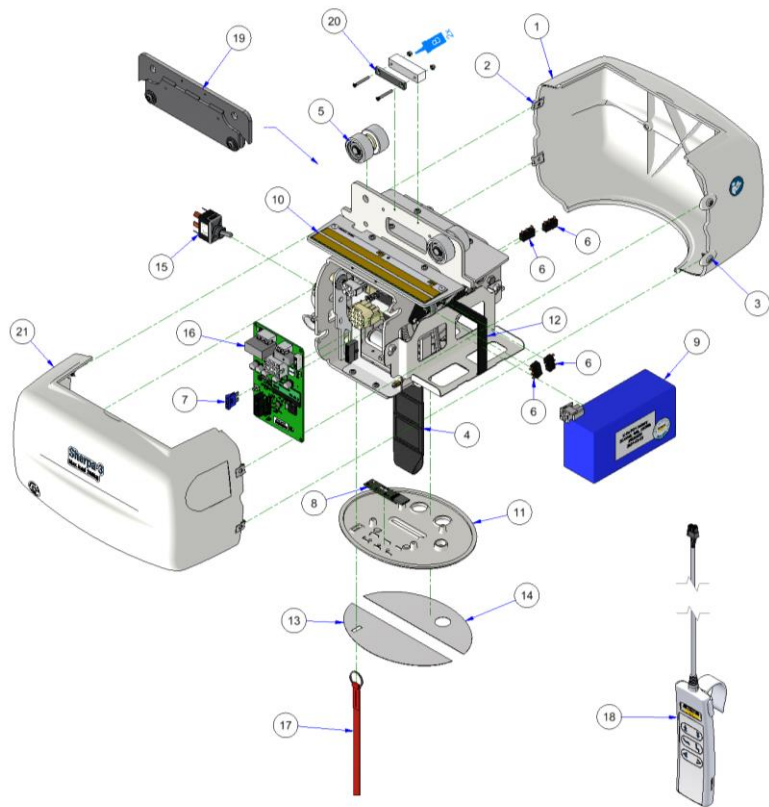
11.3 Dimension specifications

Dimensions are in mm.



12 Parts list

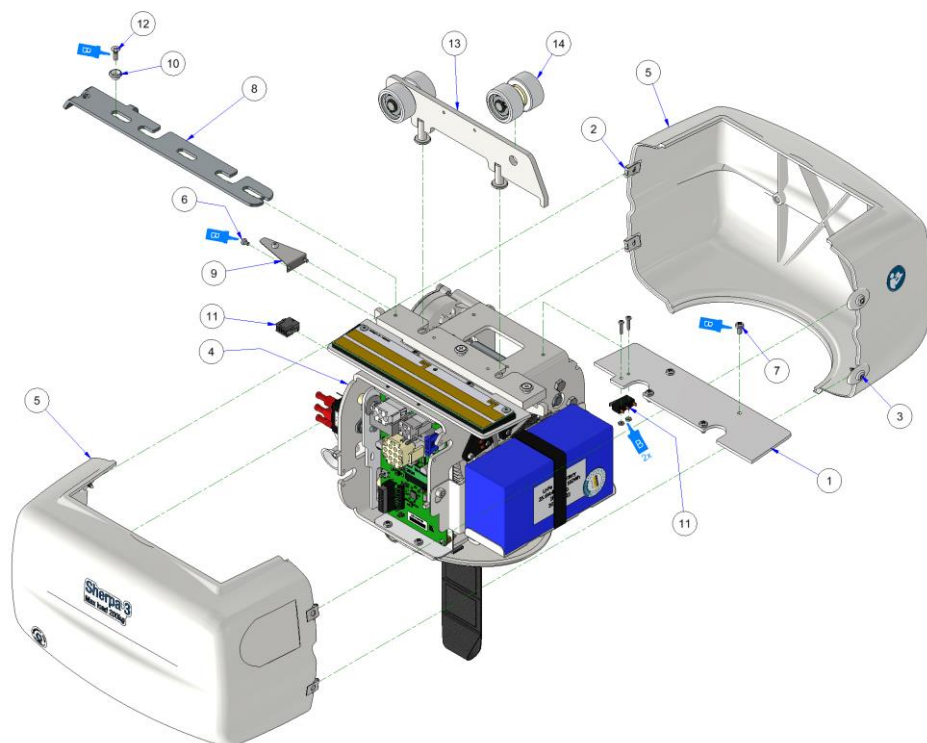
12.1 Parts list cassette



No.	Description	Art. No.
1	Cover half	17107190
2	Sheet metal nut	17107300
3	Screw Ø3,9x16 RAL9010	17107320
4	Lifting tape Sherpa	17106270
5	Wheel set	17400950
6	Micro switch	10100290
7	Plug-in fuse 15A 32Vdc (ATC-15)	32100121
8	PCB LED	17106100
9	Battery LiFe-P04	17108010
10	Loom contact strip	17400753

No.	Description	Art. No.
11	Cover 'wieber'	17107200
12	Velcro strip	17107290
13	Sticker 'wieber' (LED)	17107220
14	Sticker 'wieber' (conn.)	17107210
15	Toggle switch	17105130
16	PCB Controller	17108070
17	Pulling cord 100mm	17106461
18	Hand control	17107980
19	Service lowering set (40mm)	17400270
20	Service set magnet and socket	17400333
21	Cover half, with holes	17107192

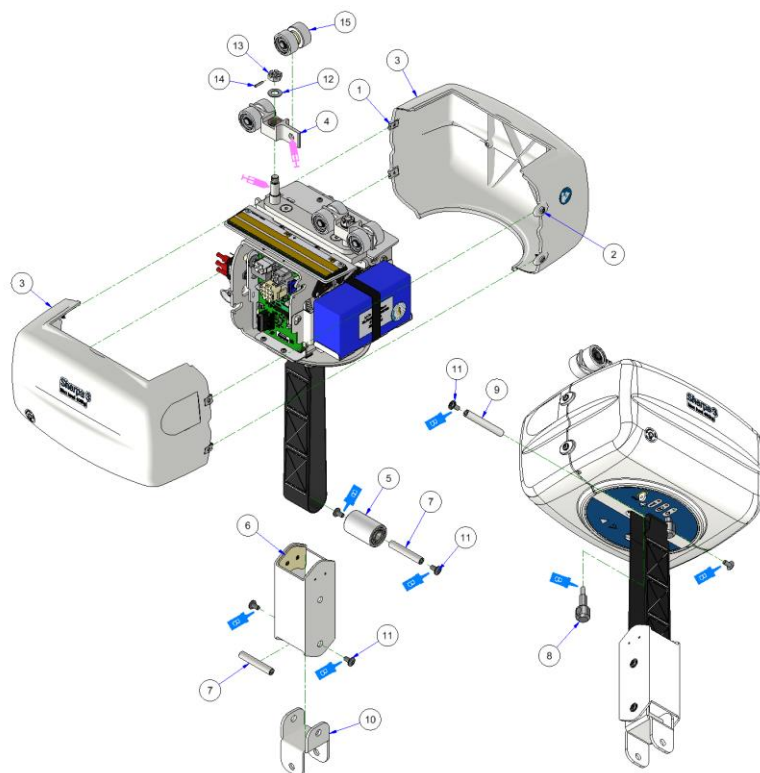
12.2 Parts list Cassette QR (Quick-Release)



No.	Description	Art. No.
1	Insulation plate - Sherpa 3 QR	17204000
2	Plate nut 3.9 mm	17107300
3	Plate screw 3.9x16 RAL9010	17107320
4	Frame 400kg, QR - Sherpa 3	17300950
5	Scale part Sherpa 2	17107190
6	Metal screw. M3x5-H elvz 4.8 DIN 7985	17106570
7	Metal screw M4x8-H elvz 4.8 DIN 7985	11100890
8	Locking strip - Sherpa 3 QR	17204010
9	Locking spring - Sherpa 3 QR	17204020
10	Sliding bushing - Sherpa 3 QR	17204030
11	Cable harness Sherpa 3 - quick release QR	17401412
12	Metal shr. zinc-plated. M4x12 elvz 4.8 ISO 7046	17104830
13	Trolley Quick-Release set	17400380
14	Wheel set, wheel axle bushings and bulk - Sherpa	17400950

Refer to the parts list in §11.1 for parts that are not indicated in this parts list.

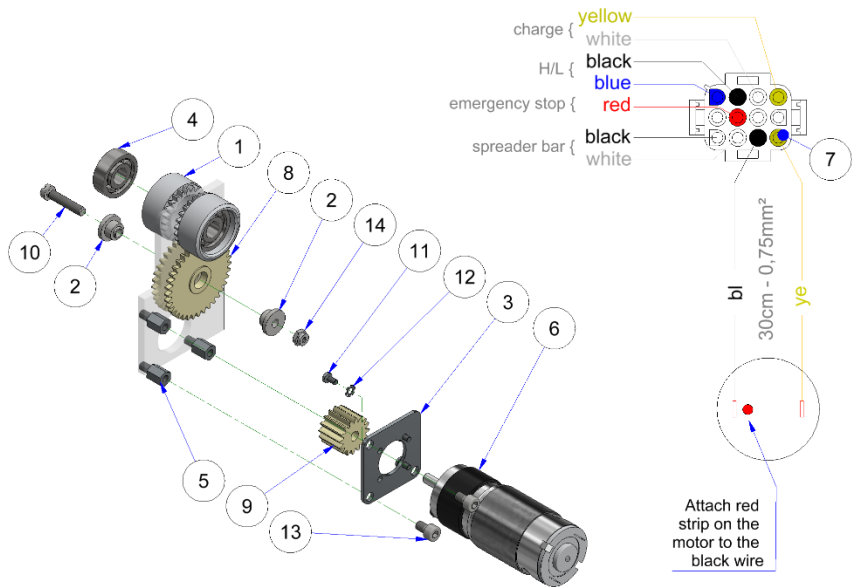
12.3 Parts list Cassette 400 kg



No.	Description	Art. No.
1	Plate nut 3.9 mm	17107300
2	Plate screw 3.9x16 RAL9010	17107320
3	Cover half Sherpa	17107190
4	Wheel frame - Sherpa 400kg	17203420
5	Strap roller	17203510
6	Strap guide	17203530
7	Roller axle	17203540
8	Lifting strap coupling	17203560
9	Lifting strap pin	17203580
10	Cardan bracket	17203590
11	Button screw. M6x12 elvz	11101170
12	Spacer washer M10x1 steel DIN522	11100580
13	Crown nut low M10-17 elvz DIN979	17106790
14	Spring pin (fitting pin) 3 x 16 A bl. ISO 8752	11100620
15	Wheel set, wheel axle bushings and bulk - Sherpa	17400950

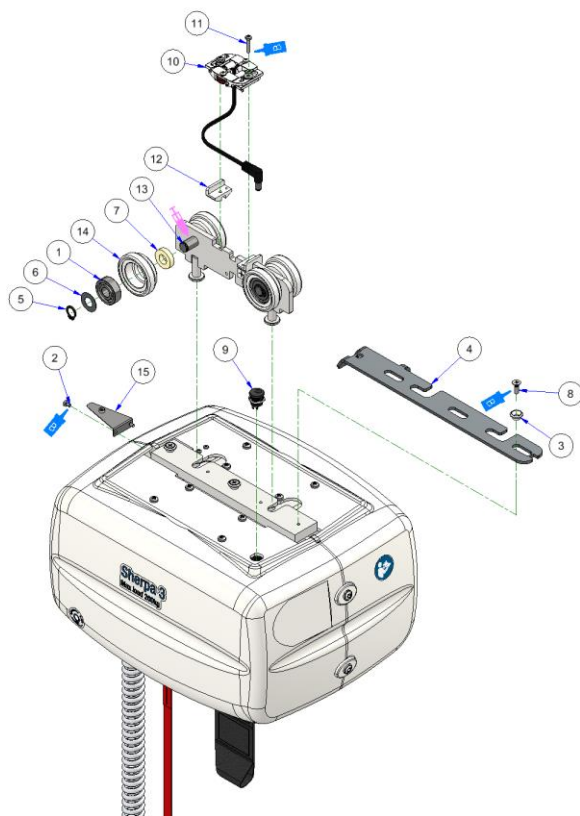
Refer to the parts list in §11.1 for parts that are not indicated in this parts list.

12.4 Parts list drive option



No.	Description	Art. No.
1	Drive wheel Sherpa	17202310
2	Support bushing Sherpa	17202360
3	Bracket drive motor Sherpa	17202860
4	Ball bearing Ø10xØ26x8	17104540
5	Spacer M5x8 L12mm	17105070
6	Geared motor	17105090
7	Crimp pin 24-18, MLX	17106520
8	Transmission gear drive	17202340
9	Gear drive	17202350
10	Pan head screw slotted M5x25 zinc plated DIN84	17104700
11	Pan head screw M3x6 zinc plated DIN7985	17104910
12	Serrated lock washer M3 zinc plated DIN6798	17105270
13	Allen bolt M5x8 zinc plated DIN912	17105530
14	Locking nut low M5 zinc plated DIN985	17105580

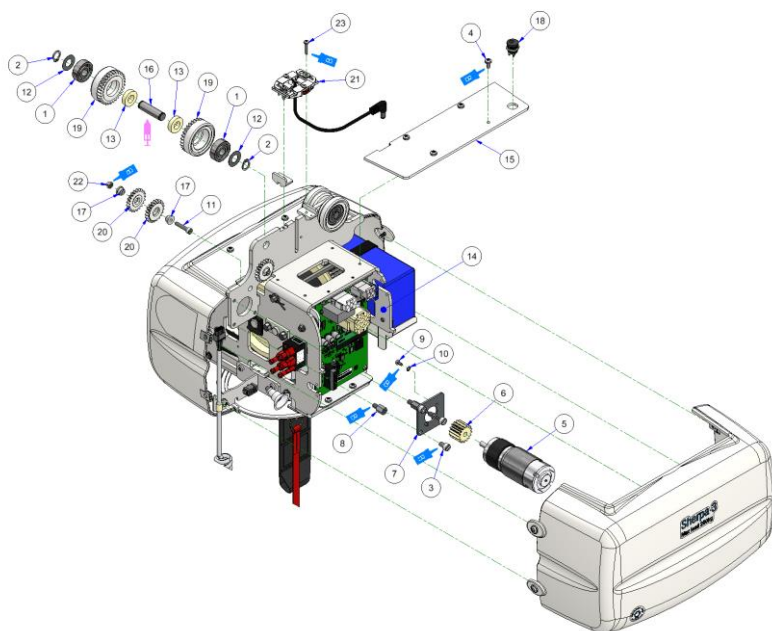
12.5 Parts list Cassette MilkyWay QR (Quick-Release)



No.	Description	Art. No.
1	Ball bearing Ø26xØ10x8	17104540
2	Metal screw M3x5-H elvz 4.8 DIN 7985	17106570
3	Sliding bushing - Sherpa 3 QR	17204030
4	Locking strip - Sherpa 3 QR	17204010
5	Circlip Ø10 zw DIN471	17104560
6	Spacer ring M10x0.3 steel DIN522	11100581
7	Spacer bushing D20Xd10 L=5	17104551
8	Metal screw zinc plated. M4x12 elvz 4.8 ISO 7046	17104830
9	Cable harness charger - Sherpa 3 MW	17401430
10	Charging set, in-rail/end point - Sherpa3 MW	17108170
11	Metal screw M3x16-H elvz 4.8 DIN 7985	17104752
12	Seating charge station - Sherpa 3 MW	17205060
13	Shaft Ø10x36 double groove - Sherpa MW	17205090
14	Wheel MW - Sherpa 3 MW	17205110
15	Locking spring - Sherpa 3 QR	17204020

Refer to the parts list in §11.1 for parts that are not indicated in this parts list.

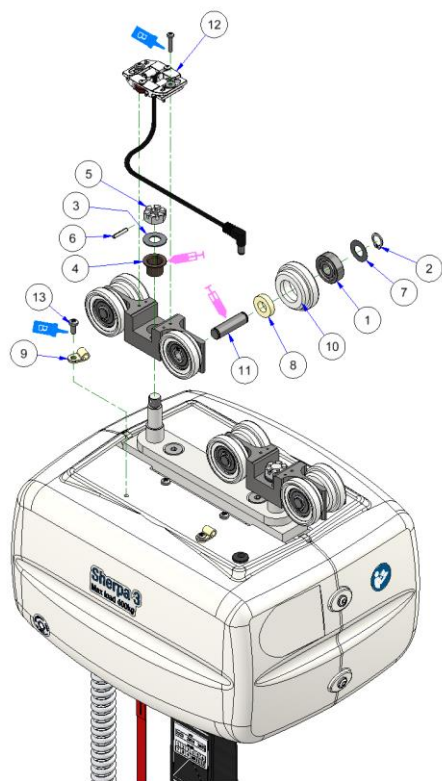
12.6 Parts list Cassette MilkyWay Drive



No.	Description	Art. No.
1	Ball bearing Ø26xØ10x8	17104540
2	Circlip Ø10 zw DIN 471	17104560
3	Allen bolt M5 x 8 elvz 8.8 DIN 912	17105530
4	Metal screw M4x8-H elvz 4.8 DIN 7985	11100890
5	Geared motor	17105090
6	Gear	17202350
7	Motor mount plate	17202860
8	Spacer bushing M5x12	17105070
9	Metalsch. M3x6-H A2 4.8 DIN 7985	17104911
10	Serrated spring washer M3 DIN 6798	17105270
11	Allen bolt M4 x 20 elvz 8. 8 DIN 912	12100330
12	Spacer washer M10x0.3 steel DIN522	11100581
13	Spacer bushing D20XØ10 L=5	17104551
14	Frame MW - Sherpa 3	17300970
15	Insulating plate with charger hole - Sherpa 3 MW	17205080
16	Shaft Ø10x36 double groove - Sherpa MW	17205090
17	Support bushing - Sherpa 3 MW	17205100
18	Cable harness charger - Sherpa 3 MW	17401430
19	Wheel MW with gear - Shepra 3 MW 6F	17205120
20	Gearwheel tranmission - Sherpa 3 MW	17205130
21	Charging set, in-rail/end point - Sherpa3 MW	17108170
22	Locknut M4 elvz DIN 985	10100430
23	Metal screw M3x16-H elvz 4.8 DIN 7985	17104752

Refer to the parts list in §11.1 for parts that are not indicated in this parts list.

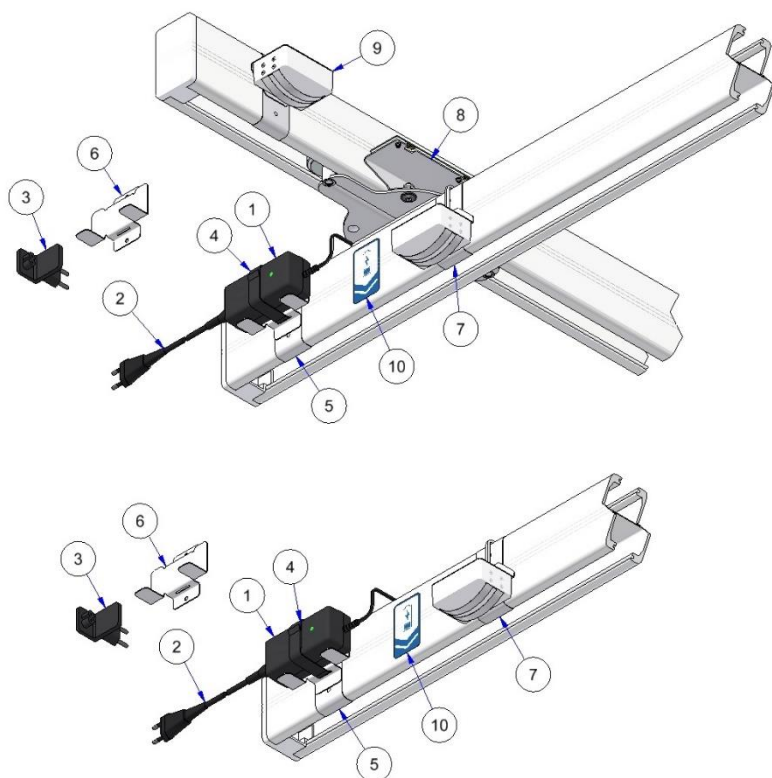
12.7 Parts list Cassette MilkyWay 400 kg



No.	Description	Art. No.
1	Ball bearing Ø26xØ10x8	17104540
2	Circlip Ø10 zw DIN 471	17104560
3	Spacer washer M10x1 steel DIN522	11100580
4	Slide bearing Ø12xØ14x12, collar, metal	10100600
5	Crown nut M10-17 elvz DIN979	17106790
6	Spring pin 3 x 16 A zw ISO 8752	11100620
7	Spacer washer M10x0, 3 steel DIN522	11100581
8	Spacer Ø 20x Ø 10 L=5	17104551
9	Cable clamp Ø5 nylon	17108090
10	Wheel MW - Sherpa 3 MW	17205110
11	Shaft Ø10x36 double groove - Sherpa MW	17205090
12	Charging set, in-rail/end point - Sherpa3 MW	17108170
13	Metal screw M4x10-H elvz 4.8 DIN 7985	10100391

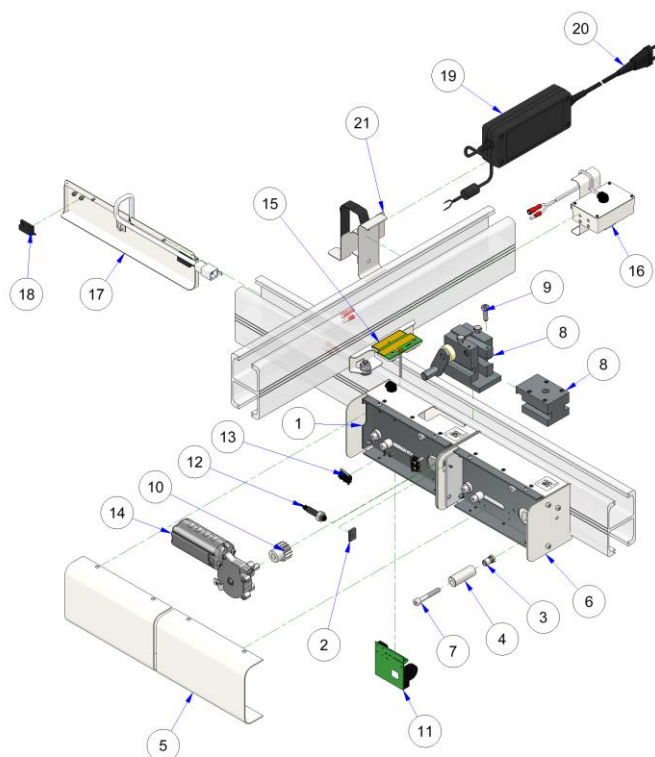
Refer to the parts list in §11.1 for parts that are not indicated in this parts list.

12.8 Parts list Charger



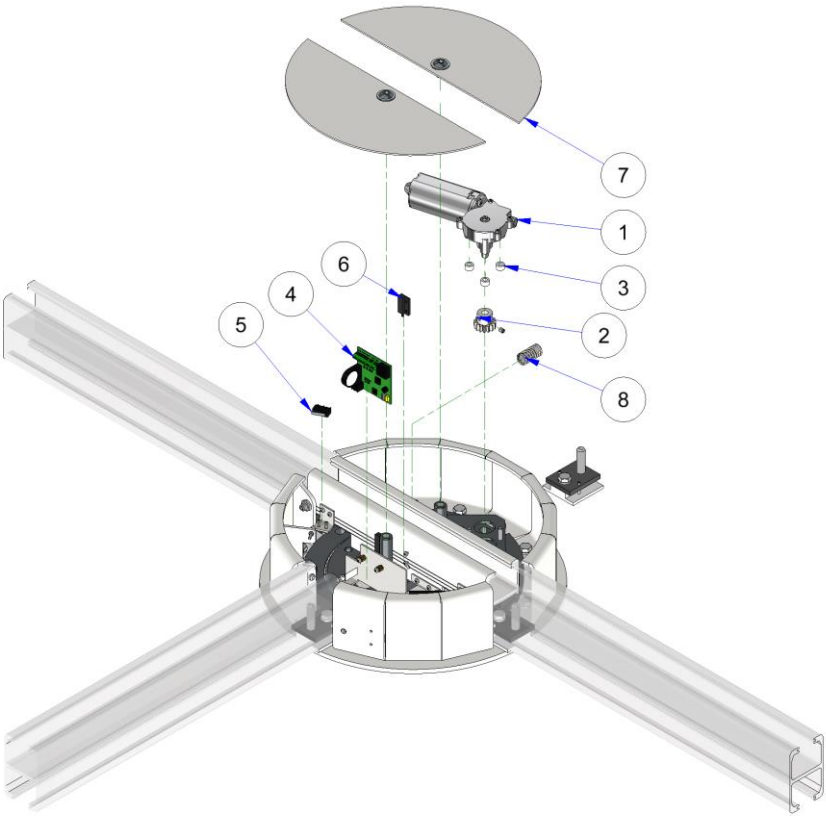
No.	Description	Art. No.
1	Charger LiFe-P04	17108020
2	Power cord (EU)	17107821
	Power cord (UK)	17107820
3	Power plug adapter (EU)	17108021
	Power plug adapter (UK)	17108022
4	Velcron strip 38cm	17107930
5	Rail mount bracket	17300930
6	Wall mount bracket	17204930
7	Charger interface (AMP)	17400202
8	Interface	17400224
9	Interface sensor	17400211
10	Sticker charging point	17106740

12.9 Parts list Gate



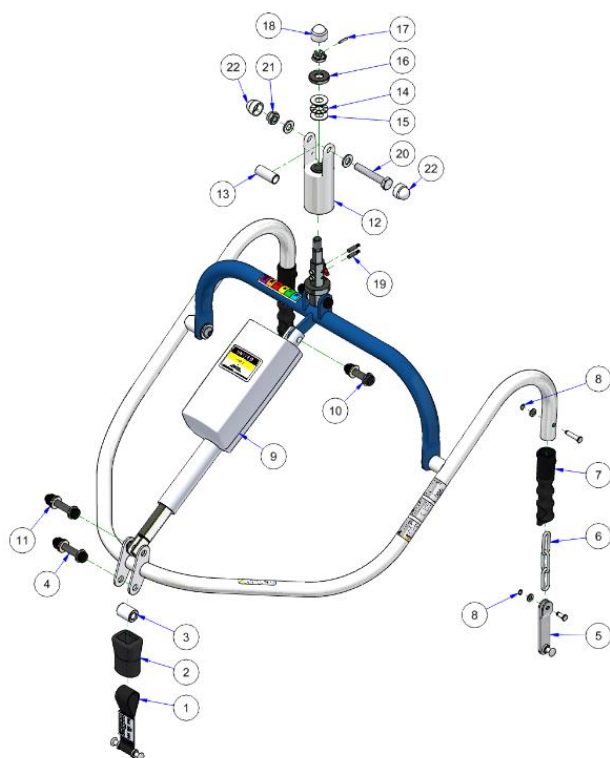
No.	Description	Art. No.
1	Electric Gate complete	17400682
2	Magnet plate 17,5x12,5mm	17104180
3	Blind rivet nut M6xØ9x14,5 zinc plated	13100320
4	Rivet bushing long	17203160
5	Front cover	17202330
6	Mechanical Gate complete	17400690
7	Allen bolt M6x40 zinc plated DIN912	17100070
8	Service height limit system	17400700
9	Set screw with tap M6x20 DIN915	17100221
10	Gear	17104260
11	PCB program S8 Gate	17106761
12	Magnet position switch, round	17104190
13	Magnet switch MS324	17106990
14	Gearmotor	17104251
15	Interface (gate)	17400222
16	Interface sensor	17400211
17	Service set magnet interface	17400330
18	Microswitch small	10100290
19	Power supply MeanWell - Gate/Carrousel	17107910
20	Mains EU-plug MeanWell	17107911
21	Mounting bracket power supply	17300930

12.10 Parts list Carrousel



No.	Description	Art. No.
1	Gearmotor	17104251
2	Gear wheel small	17104261
3	Distance ring Ø10xØ5x6 white nylon	17106061
4	PCB program S7	17106762
5	Microswitch small	10100290
6	Magnet switch MS324	17106990
7	Cover	17201361
8	Compression spring Ø15x28 Ø1,5 zinc plated	17106210

12.11 Parts list electric Spreader bar

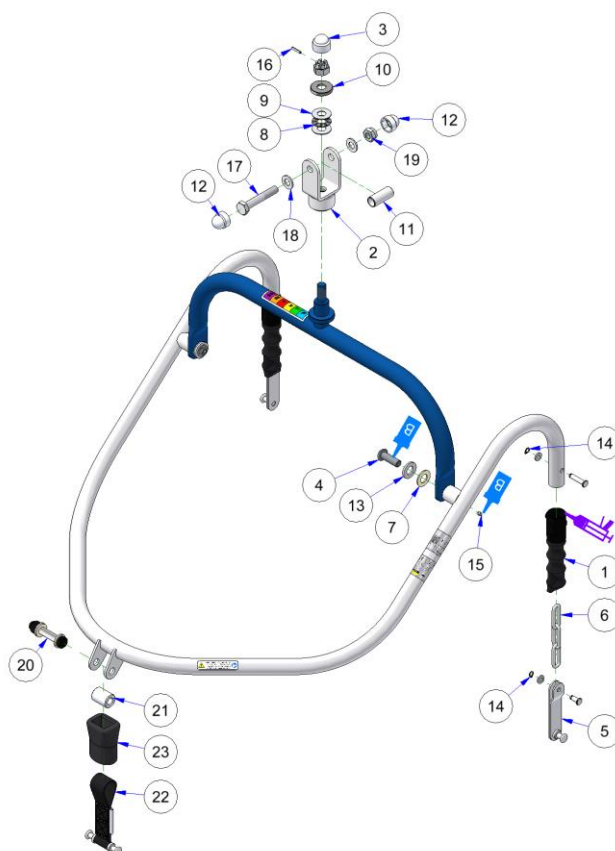


No.	Description	Art. No.
1	Double cliphook (low)	22300210
2	Protective cover (foam) 6,5cm	32100440
3	Bushing	22200550
4	Bolt set 34mm	11400430
5	Cliphook	32300150
6	Chain	32101760
7	Rubber sleeve	32201400
8	Circlip Ø6	32101740
9	Actuator La28, 150mm	32102530
10	Bolt set 26mm	11400390
11	Bolt set 34mm	11400430

No.	Description	Art. No.
12	Coupling set	32400152
13	Bushing	32201750
14	Axial bearing ring	32103460
15	Axial disc	32103470
16	Cap bearing	32202180
17	Spring pin Ø3x16	11100620
18	Bolt cap M12 white	11101120
19	Carbon brush	32100720
20	Hex bolt M10x60	11100300
21	Lock nut M10	11100250
22	Bolt cap M10 white	32103200

For the children's electric spreader bar the same service parts are used as the electric spreader bar. The difference in the children's version is that it has a narrower base.

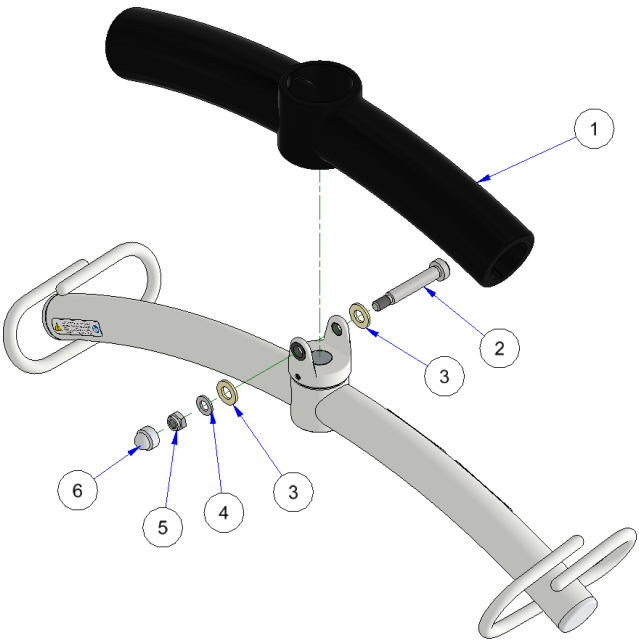
12.12 Parts list Balance Spreader bar



No	Description	Art. No.
1	Protective rubber	32201400
2	Suspension white	32300280
3	Cover cap M12 white	11101120
4	Button screw M10x30 elvz ISO7380	32101730
5	Clip hook	32300150
6	Link chain, Ø4	32101760
7	Padding ring M12x1.5 (Ø24) nylon	32102530
8	Axial wreath Ø26x12	32103460
9	Axial disc Ø26x12	32103470
10	Bearing cover cap	32202180
11	Bushing stainless steel L=36	32201750
12	Cover cap M10 white	32103200

No	Description	Art. No.
13	Washer M12 elvz DIN 125	14100090
14	Circlip Ø6	32101740
15	Set screw M5x6 ISO 4027	11100560
16	Tension pin (dowel pin) 3x16 A zw ISO 8752	11100620
17	Hex bolt M10x60 elvz 8.8 DIN 931	11100300
18	Washer M10 elvz DIN 125	11100220
19	Locknut M10 elvz DIN 985	11100250
20	Pass bolt M8xØ10x40 ISO7379	11100760
21	Rotary bush clip hook	22200550
22	Double clip hook low	22300210
23	Protective cover 6.5cm	32100440

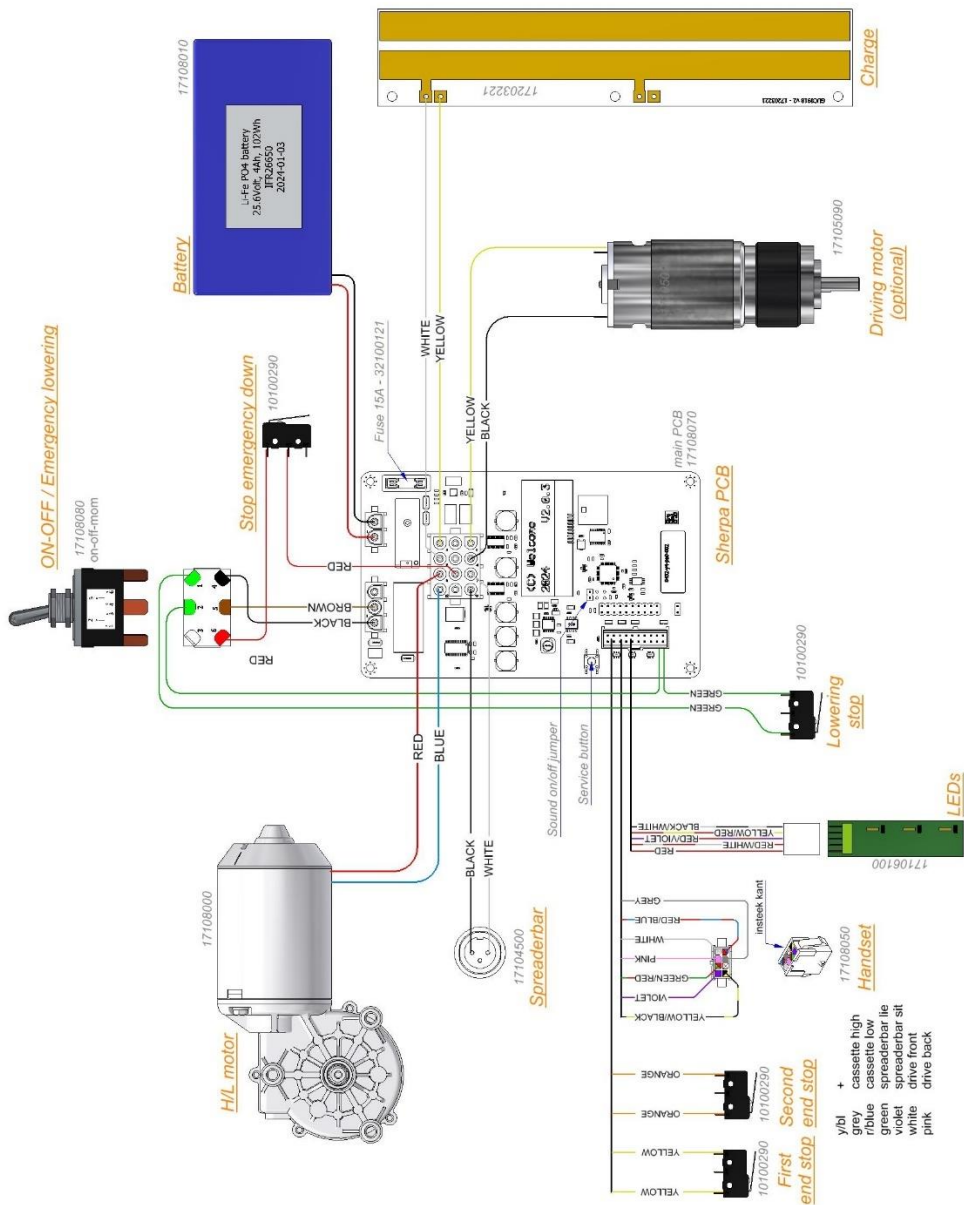
12.13 Parts list Two-point Spreader bar



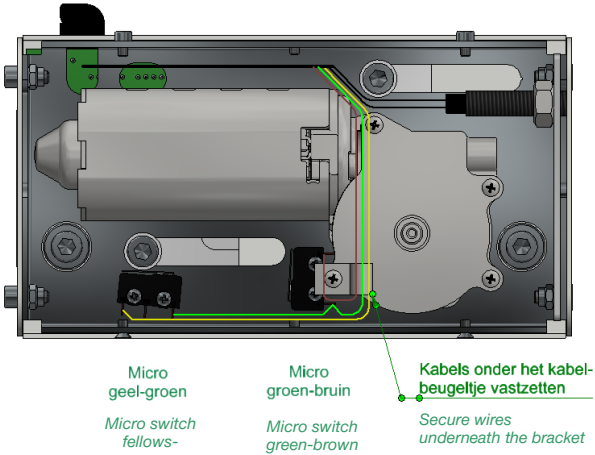
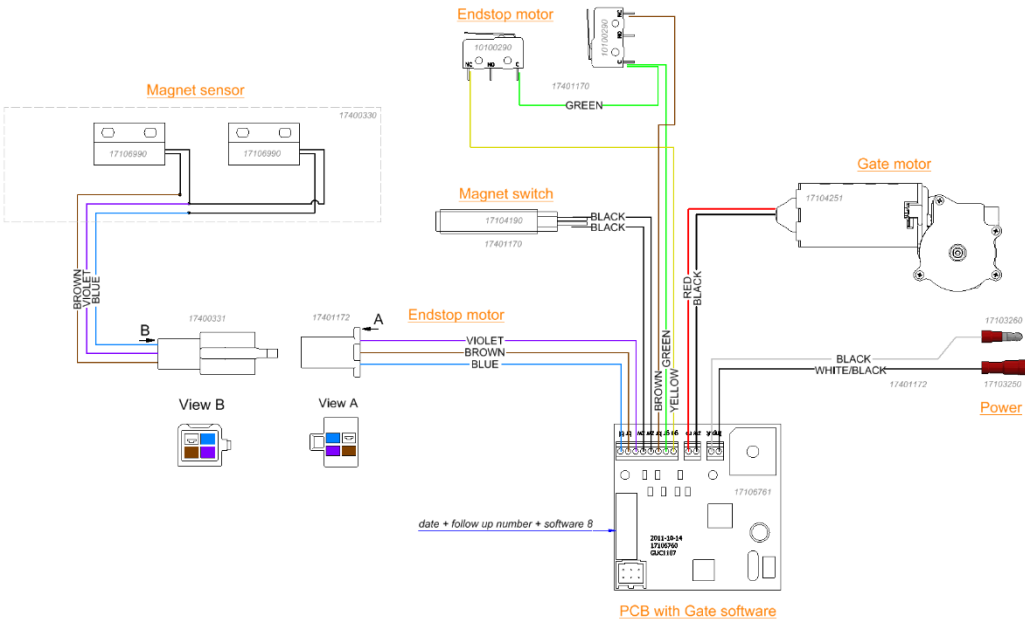
No.	Description	Art. No.
1	Cover, black, for 2 point spreader bar	32109301
2	Fitting bolt M8xØ10x50 12.9 ISO7379	11101890
3	Flat washer M10 nylon DIN125	32102520
4	Flat washer M8 zinc plated DIN125	20100090
5	Locking nut low M8 zinc plated DIN985	12100710
6	Cover M8 (kw 13) white	17103630

13 Electrical diagrams

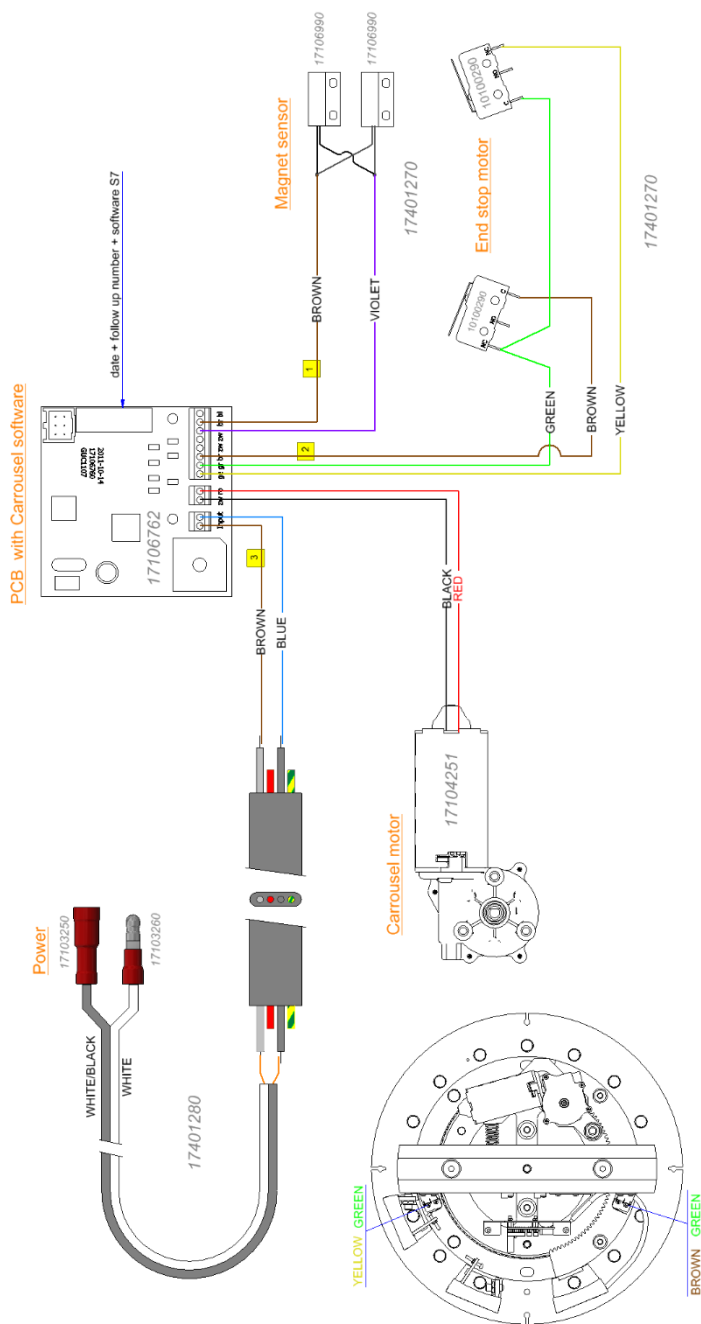
13.1 Electrical diagram Sherpa



13.2 Electrical diagram Gate

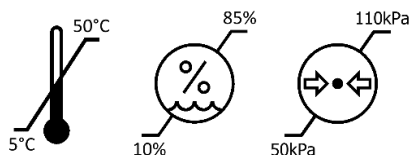


13.3 Electrical diagram Carousel



14 Storage conditions

- Do not store wet or in wet environments such as bathrooms.
 - Do not charge the batteries in wet environments such as bathrooms.
 - Do not store in high temperature, high pressure and high humidity environments.
- The slings should be transported and stored in 5 °C to 50 °C and in normal humidity, 10 % to 85 %. The air pressure should be between 50 kPa and 110 kPa.



15 Lifetime of the Product

The life expectancy of the Sherpa 3, under normal use, under normal conditions and excluding straps, slings and batteries, is 10 years when properly maintained.

Using the Sherpa in a humid environment or in an environment with aggressive damping are not considered to be 'normal conditions' and can shorten the lifetime of the product.

16 Warranty

United Care products gives a 1 year warranty on the Sherpa 3. United Care products does not give warranty on parts that are susceptible to wear or careless use (such as castors and batteries). Furthermore, the warranty does not apply to damage or defects that may arise to the Sherpa 3 due to incorrect or injudicious use and repairs by third parties. The assessment lies with United Care products or with a representative to be designated by United Care products. United Care products reserves the right to make changes to the product that deviate from what is described in this manual. For this United Care does not need to provide accountability.

17 How to report an incident

In case of a serious incident with the product which affects the caregiver or user, the incident should be reported to the supplier or distributor. Within the European Union, the caregiver should also report to a competent body in the concerning Member of State.

18 Table of Symbols

	The product meets all legal requirements for products sold within the European Union		Product meets all legal requirements for products sold within Great Britain.
	Medical Device		Intended for indoor use only
	General Caution		Maximum permissible patient weight/load.
	Legal Manufacturer		Indicates the total maximum weight of the device and the patient.
	Type BF applied parts. Indicates that parts have medium to long term contact with the patient/resident		Refer to instruction Manual
	WEEE Symbol May not be discarded in domestic waste.		Storage and transport condition pressure range: 50kPa - 110kPa
	Duty Cycle: 2 min in active (ON) mode 18 min in rest (OFF) mode		Storage and transport condition humidity range: 10% - 85%
	Read the manual		Storage and transport condition temperature range: 5°C - 50°C
	Reference Number		Keep Dry
	Do not grab, push or pull		Serial number
IPX4	resistance to environmental elements. IPX4 – Protects against splashing water from any direction.		

19 Electromagnetic compatibility (EMC)

The Sherpa 3 has been tested for compliance with current regulatory standards regarding its capacity to block EMI (electromagnetic interference) from external sources. The Sherpa has been tested according to IEC60601-1-2 Edition 4. Some procedures can help reduce electromagnetic interferences, such as following the intended environment.

Intended Environment: Home Healthcare Environment and Professional Healthcare facility environment.

The following are exceptions to the above intended environment: Near HF Surgical Equipment and in a RF Shielded room of an ME SYSTEM for magnetic resonance imaging.



In case the unit stops operating, behaves in an unexpected way, or moves unintentionally due to possible electromagnetic disturbance or interference, the unit should be switched off. It should be switch on again and its function should be verified before use. If the problem remains the unit should be used in another room or environment. In case of other equipment being disturbed, its function should be verified before using again.



Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.



Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Sherpa 3 including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.



User of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Emissions Test		Compliance
RF emissions CISPR 11		Group 1
RF emissions CISPR 11		Class B
Harmonic emissions IEC 61000-3-2		Class A
Voltage fluctuations/flicker emissions IEC 61000-3-3		Complies
Immunity test		IEC60601-1-2 Edition 4 Test levels and Compliance
Surges IEC 61000-4-5		$\pm 0,5 \text{ kV}$, $\pm 1 \text{ kV}$
Voltage dips IEC 61000-4-11		0% UT; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles Single phase: at 0
Voltage interruptions IEC 61000-4-11		0 % UT; 250/300 cycle
Electrostatic discharge IEC 610004-2		$\pm 8 \text{ kV}$ contact $\pm 2 \text{ kV}$, $\pm 4 \text{ kV}$, $\pm 8 \text{ kV}$, $\pm 15 \text{ kV}$ air
Conducted disturbances induced by RF fields IEC 61000-4-6		Home Healthcare Environment 3V 0,15 MHz – 80 MHz 6V in ISM and amateur bands between 0,15 MHz and 80 MHz 80% AM at 1 kHz
Radiated RF electromagnetic fields IEC 61000-4-3		Home Healthcare Environment 10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz
Proximity fields from RF wireless communications equipment IEC 61000-4-3		385 MHz - 27 V/m 450 MHz - 28 V/m 710, 745, 780 MHz - 9 V/m 810, 8hpa, 930 MHz - 28 V/m 1720, 1845, 1970, 2450 MHz - 28 V/m 5240, 5500, 5785 MHz - 9 V/m
Electrical fast transient/burst IEC 61000-4-4		$\pm 2 \text{ kV}$ 100 kHz repetition frequency
RATED Power frequency Magnetic fields IEC 61000-4-8		30 A/m 50 Hz or 60 Hz

About United Care

Performing patient transfers in the healthcare sector requires considerable efforts from various parties involved, and especially healthcare providers who need to employ considerable expertise.

United Care is a company dedicated to providing services and products for those involved in performing patient transfers on a daily basis. Our primary goal is to support user mobility. We work closely with carers and users to develop solutions that maintain and even improve mobility.

Our starting point is to strive for optimal quality of care for the carer, while improving the working conditions of the carer. We achieve this by connecting to and making optimal use of the mobility possibilities of the care user. In this way, we contribute to increasing the overall quality of care in the healthcare sector.

United Care supplies the following products/services for this:

- Active Mobile Lifts
- Passive Mobile Lifts
- Sit-to-Stand Aids
- Ceiling Lifts
- Shower Chairs
- Shower Stretchers
- Accessories for transfer aids
- Training and Advice

United Care's vision, services and products make it an excellent partner in collaboration with care providers and care recipients.

For the most recent version of this manual, manuals in other languages or information for users with a reading or visual impairment, please contact United Care.

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Medical Device Class I. The product complies with the requirements of the Medical Devices Regulation 2017/745



Medical Device Class I product conforming to the requirements of the UK Medical Devices Regulations 2002 (UK MDR 2002)



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A DIRECT HEALTHCARE GROUP COMPANY



Moving Health Forward