



Instruction for use
Reflex XL & XXL
shower toilet chair



Instruction for use

(IFU5900-2026-01 EN)

Reflex XL & Reflex XXL

shower toilet chair



Reflex XL shower toilet chair: 5100 5950
Basic UDI-DI: 872025610365351005950NU



Reflex XXL shower toilet chair: 5100 5900
Basic UDI-DI: 872025610366051005900M5

Important:

Please read these instructions carefully before using the Reflex XL/Reflex XXL!

Date first used
User
Name
Address

Manufacturer

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All of the aids produced by Lopital comply with the applicable standards for Class I medical products (MDR (EU) 2017/745).

Explanation of symbols in 'Instruction for use' and on labels			
	Note		Read the user manual before use.
	Manufacturer data		Read the cleaning and disinfection protocol.
	Production date		Antibacterial
	Maximum load		Temperature
	Article number		Air pressure
	Conformité Européenne		Humidity level
	Medical device		Serial number
	GS1 Datamatrix containing the following information: (01) Global Trade Item Number. (11) Production Date (21) Serial Number		Keep the tool away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.
	DC voltage		Protection Class II device
	Type B applied part		

Table of contents

1.	Introduction	5
1.1.	Introduction	5
1.2.	Safety.....	5
1.3.	Warranty.....	10
2.	Use	10
2.1.	First use	10
2.2.	Working with the Reflex XL/Reflex XXL	10
3.	Operation.....	11
3.1.	Wheel lock.....	11
3.2.	Direction wheel.....	11
3.3.	Footrests.....	11
3.4.	Armrests.....	14
3.5.	Head/neck support.....	15
3.6.	Backrest.....	15
3.7.	Move up/down	15
3.8.	Tilting	16
3.9.	Control panel.....	16
3.10.	Toilet function.....	17
3.11.	Using a bedpan or bucket.....	17
3.12.	Removable seat.....	18
3.13.	Charging battery	18
4.	Safety features	19
4.1.	Emergency Stop	19
4.2.	Emergency lowering.....	19
4.3.	Sleep mode.....	20
4.4.	Status notification	20
5.	Cleaning and maintenance	21
6.	Environmental Conditions.....	23
7.	Removal Parts	23
8.	Technical data.....	24
8.1.	Construction.....	24
8.2.	Drive.....	25
8.3.	Dimensions	25
9.	Resetting.....	29
10.	Electromagnetic compatibility	30

1. Introduction

1.1. Introduction

The electrically height-adjustable shower toilet chair Reflex XL/Reflex XXL is an aid for the ergonomic care and washing of clients. It offers optimal comfort for both the client and the caregiver. The Reflex XL/XXL can also be used as a toilet chair with the use of a bedpan/bedpan holder/bucket or in combination with a toilet.



The product is suitable for use in care institutions and hospitals. The Reflex XL/Reflex XXL may only be used by persons who are demonstrably authorized to do so. The Reflex XL/Reflex XXL consists of a base and a seat section. The seat section offers the same comfort as a normal chair and provides the same correct support. The seat section of the Reflex can be tilted up to 30 degrees backward and 10 degrees forward. There are no “essential performances.”

The frame of the Reflex XL/Reflex XXL has an antibacterial coating. The coating contains silver ions. Antibacterial coating based on silver ions prevents dangerous microorganisms such as bacteria, fungi and algae from multiplying and spreading. Its effectiveness was confirmed in several tests. Pathogens were demonstrably reduced by up to 99.99% in a short period of time. The coating only has an effect on bacteria that settle on the surface and not on microorganisms. The coating does not protect users or others from pathogenic bacteria, germs, viruses or other harmful organisms. When the surface is dirty, the coating loses its antibacterial effect. Thus, proper cleaning and disinfection still remains a must.

The expected lifetime of the Reflex XL/XXL is 10 years, provided daily and periodic maintenance is performed according to manufacturer's indicated maintenance schedule (*See Chapter 5 Cleaning and Maintenance*).

The Reflex XL/Reflex XXL is a Class 1 medical product with CE marking. This marking is in accordance with Regulation MDR (EU) 2017/745. The Reflex XL/XXL has been tested for electromagnetic radiation according to the 60601-1-2 standard.

1.2. Safety



Failure to follow the safety points below and the further descriptions in this user manual may lead to dangerous situations. Therefore, please read carefully before use.

Use

- Before you start working with the Reflex XL/Reflex XXL, check that it is no longer connected to the charger.

- The Reflex XL/Reflex XXL automatically switches to standby mode after a few seconds when the seat is not in use.
- When transferring clients, make sure the Reflex XL/Reflex XXL is always on the brake.
- Instruct the client before moving the Reflex XL/Reflex XXL.
- Do not place your feet on the lower frame when raising, lowering, or tilting the seat section to prevent entrapment.
- Ensure that the client always places his/her arms on the designated armrests to prevent any entrapment.
- Keep the armrests down while moving the Reflex XL/Reflex XXL.
- Avoid obstacles when moving up and down and when tilting.
- Only drive and maneuver with the Reflex XL/Reflex XXL in a low position.
- While moving the Reflex XL/Reflex XXL, do not move or tilt the Reflex XL/Reflex XXL up or down.
- It is preferable to always drive backwards over speed bumps or raised surfaces.
- Set the Reflex XL/Reflex XXL to the correct height before using it with the toilet.
- It is not permitted to load the Reflex XL with a weight over 227 kg and the Reflex XXL with a weight over 275 kg.
- The Reflex XL/Reflex XXL is only suitable for moving and caring for one person.
- Use only original Lopital parts.
- The use of non-original parts (chargers, cables, actuators, batteries) could result in increased emissions or reduced immunity of the Reflex XL/Reflex XXL.
- The use of non-original accessories, transducers and cables other than those specified or provided by Lopital could result in increased emissions or decreased electromagnetic immunity of the product and result in improper operation, potentially compromising the safety, reliability, or performance of the product.
- Use the Reflex XL/ Reflex XXL in a clean and tidy work environment.
- Working with the Reflex XL/Reflex XXL is only permitted by demonstrably authorized persons.
- Charge the battery in a well-ventilated dry area.
- Swimming pool conditions are not considered “normal conditions” and will shorten the service life of certain parts.
- The Reflex XL/Reflex XXL should not be used on a surface with a side slope of more than 5 degrees.
- The Reflex XL/Reflex XXL must not be used on a surface with a slope of more than 10 degrees forward/backward.
- The Reflex XL/Reflex XXL should only be used indoors.
- Medical electrical equipment requires special precautions with regard to EMC and must be used in accordance with the EMC information described in the user manual.
- Portable and mobile RF communications equipment can affect medical electrical devices.
- Portable RF communications equipment (including peripheral equipment such as antenna cables

and external antennas) must not be used closer than 30 cm (12 inches) to any part of the Reflex XL/Reflex XXL, including cables specified by the manufacturer. Otherwise, the performance of the Reflex XL/Reflex XXL may be impaired.

- The emission characteristics of the Reflex XL/Reflex XXL make it suitable for use in industrial areas and hospitals (CISPR 11 class A). When used in a residential environment (which normally requires CISPR 11 class B), this equipment may not provide adequate protection for radio frequency communication services. The user may need to take mitigating measures, such as moving or reorienting the equipment.
- Do not place the Reflex XL/Reflex XXL directly next to or on top of other electrical appliances. If this is necessary, it must be checked whether the chair also functions normally in this configuration.
- To completely isolate the shower-toilet chair from the mains power supply, the Magcode charging plug must be disconnected from the charging port.
- Ensure that the mains plug is accessible at all times.

Maintenance

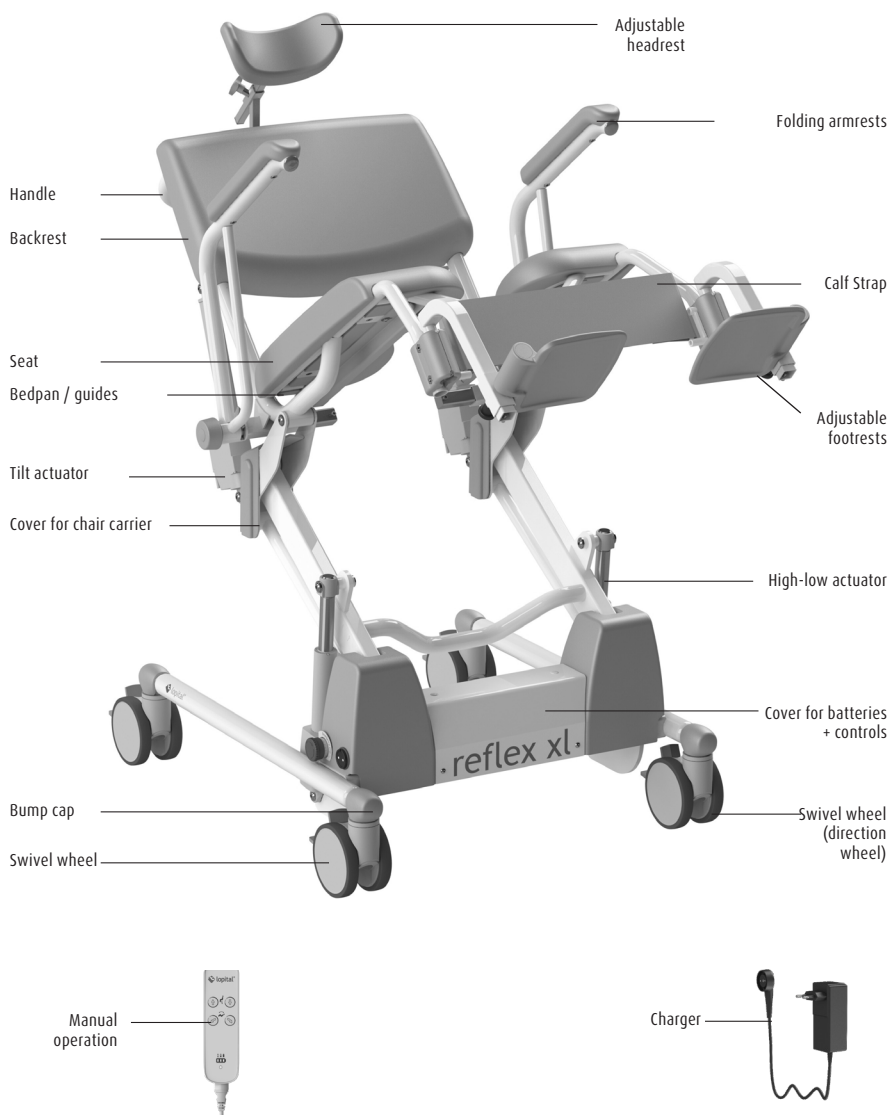
- Always replace the charger or charging cable if damaged.
- If the seat, backrest, or headrest is damaged, always replace it for hygiene and safety reasons.
- The Reflex XL/Reflex XXL must be inspected and serviced at least once a year.
- Service and maintenance on the Reflex XL/Reflex XXL is permitted only by persons qualified to do so by Lopital.
- Replacement of constructive parts of the Reflex XL/Reflex XXL is only permitted by persons qualified by Lopital for this purpose.
- Service and maintenance should not be performed while a client is sitting on the shower toilet chair.
- Ensure that the shower-toilet chair is disconnected from the mains power supply before any servicing, maintenance, or cleaning is carried out.
- If there are any deformations and/or damages to the construction of the Reflex XL/Reflex XXL due to incorrect use, transport, an accident, or improper maintenance, it must no longer be used and the supplier must be contacted.

In case of malfunctions, please contact Lopital or your local supplier. E-mail: info@lopital.nl

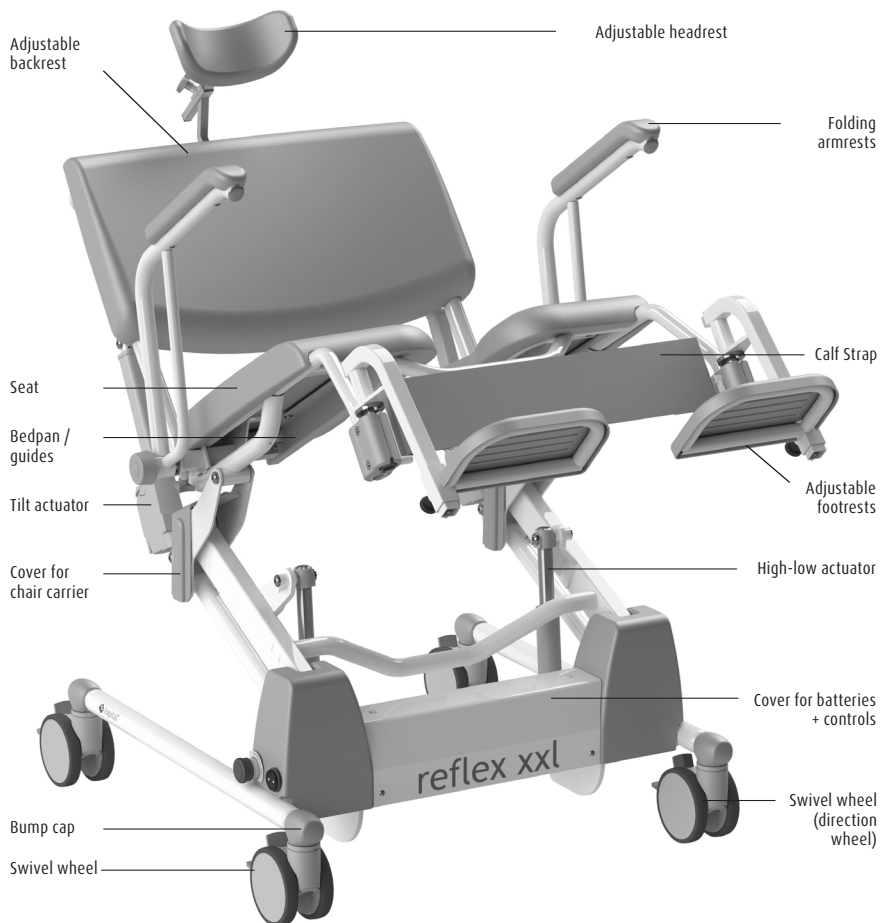


The Reflex XL/Reflex XXL shower toilet chair should only be operated by expert personnel who also have experience working with the user target group and have watched the instruction/training videos on the Lopital website.

Reflex XL (art.no. 51005950)



Reflex XXL (art.no. 51005900)



 **The Reflex XL/Reflex XXL is designed and manufactured for use in a professional healthcare environment.**

 **Making changes to the construction may affect the safety of the Reflex XL/Reflex XXL. Furthermore, this will void Lopital's liability and warranty conditions. As a result, the Reflex XL/Reflex XXL no longer complies with the MDR (EU) Regulation 2017/745 for medical devices.**

 **If a serious incident occurs, related to this medical device, that affects the caregiver or client, the incident should be reported to Lopital or the distributor of the medical device.**

1.3. Warranty

Lopital products are guaranteed for 5 years against construction and/or material defects. In case of different terms, the exact warranty period is mentioned on your invoice which also serves as warranty certificate. No warranty is given on parts subject to wear and tear, unless there are construction and/or material defects.

2. Use

2.1. First use

On the pages 8 and 9 you can find the components of the Reflex XL/Reflex XXL. The headrest, bedpan and footrests are the detachable parts of the shower toilet chair.

2.2. Working with the Reflex XL/Reflex XXL

Step 1

If necessary, remove the Reflex XL/Reflex XXL from the charger.

Step 2

Fold up the armrests if necessary (*See Section 3.4 Armrests*).

Step 3

If necessary, fold up the footrests or detach the footrests from the Reflex XL/Reflex XXL (*See section 3.3. Footrests*).

Step 4

The Reflex XL/Reflex XXL must be on the brake during person transfers

(See paragraph 3.1. *Wheel Lock*).

Step 5

The client can take a seat in the chair. Support the client as needed. If desired, the chair can be tilted 10 degrees forward to facilitate getting in.

Step 6

Place both feet on the footrests and calves against the calf strap (See paragraph 3.3. *Footrests*).

Step 7

Fold down the armrests after the client is seated in the chair (See paragraph 3.4. *Armrests*).

Step 8

Notify the client about the processes you will be carrying out.

Step 9

Take the chair off the brake when you want to move the chair (See paragraph 3.1. *Wheel lock*).



Always drive with the seat in a low position.

Step 10

If you want to tilt the chair or move it up or down, you must apply the brake again (See paragraph 3.7. *Move up/down and the section 3.8. Tilting*).

3. Operation

3.1. Wheel Lock

- The Reflex XL/Reflex XXL can be put on the brake by kicking the grey lip (1) on the wheel, downwards (See figure 1).
- To remove the Reflex XL/Reflex XXL from the brake, lift the same lip of the wheel by pushing on the top of the lip (2) (See figure 1).

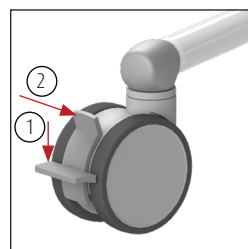


Figure 1. Swivel wheel.

3.2. Direction wheel

- The Reflex XL/Reflex XXL comes standard with a directional wheel mounted on the left front (See figure 2). The direction

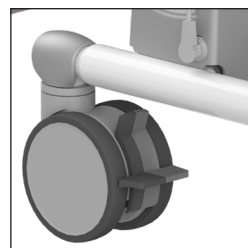


Figure 2. Direction wheel.

of the wheel can be blocked by the green lip on the wheel. This makes pushing over longer distances less stressful because the chair will drift less sideways.

- To release the blockage, the green lip must be brought back up.
- The red lip provides the braking function. When the brake is engaged, the direction will also be fixed.

3.3. Footrests

Reflex XL

- Before the client takes a seat on the Reflex XL, the footrests must be folded upwards (See *figure 3*). This creates enough space so that the client can easily sit down. If even more space is required, the footrests can be folded away (See *figure 4*). First the footrests are lifted slightly (1) and then turned away (2).
- After the client takes a seat, the caregiver or client first lifts one leg up, the caregiver then rotates the footrest forward until it drops into the latch. The client can raise his/her foot on the footrest (See *figure 5*).
- Then repeat the same procedure for the other leg.
- The footrests on the Reflex XL are height adjustable. To adjust the height, pull the knob and select the desired position (See *figure 6*).

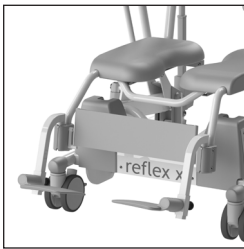


Figure 3. Folding up footrests.

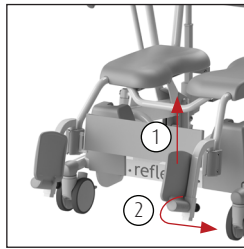


Figure 4. Turning out footrests.



Figure 5. Folding down footrests.

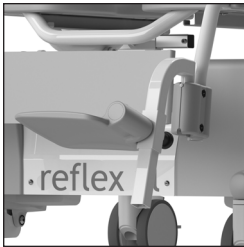


Figure 6. Height adjustment Reflex XL.



Figure 7. Footrests turned away.

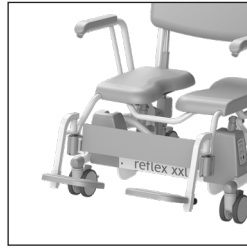


Figure 8. Footrests Reflex XXL.



Always replace this component on the chair when you have finished using it. This will avoid the component being lost.

Reflex XXL

- Before the client sits down on the Reflex XXL, the footrests are turned away (See Figure 7). First, the footrests are lifted slightly and then turned away. This creates enough space for the client to sit down easily.
- Once the client is seated, the carer or client first lifts one leg, then the carer turns the footrest forward until it locks into place. The client can rest his/her foot on the footrest.
- Then repeat the same procedure for the other leg (See figure 8).
- The footrests of the Reflex XXL are height adjustable. To do this, loosen the pull knob and select the desired position (See figure 9).
- The footrests of the Reflex XXL can be adjusted 30 degrees outward. To do this, lift the footrest (1) and turn it to the desired position (2). Please note: ensure that the locking pin clicks properly into place (See figure 10).

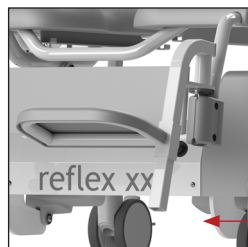


Figure 9. Height adjustment Reflex XXL.

The adjustable footrests of the Reflex XXL are available as an option for the Reflex XL.

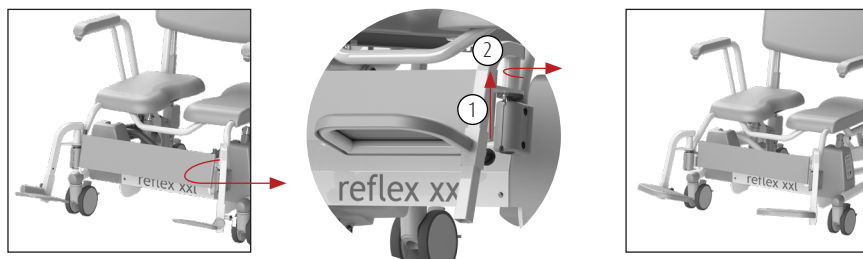


Figure 10. Width adjustment Reflex XXL.

Option: Comfort leg support for Reflex XL and Reflex XXL.

The comfort leg supports provide extra support for the legs. The comfort leg supports can be adjusted in length as well as according to the sitting angle. The angle of the leg supports can be adjusted to 4 positions (See figures 11 to 14). To change the seat angle, unlock the locking pin. Once the correct position has been determined, lock the seat angle of the comfort leg support again (See figure 14).



Make sure that the locking pin fits properly into one of the 4 holes.

To adjust the leg support length, unlock the locking pin at the bottom by turning it slightly (See figure 15). Select the correct length of the leg support and tighten the locking pin again.



Make sure that both the sitting angle and the length of the leg support are securely locked before applying weight.

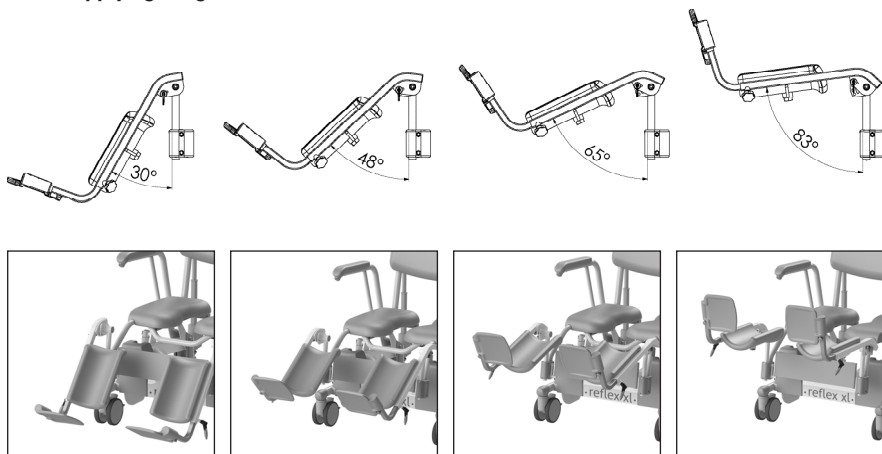


Figure 11 to 14. Adjustable angle.

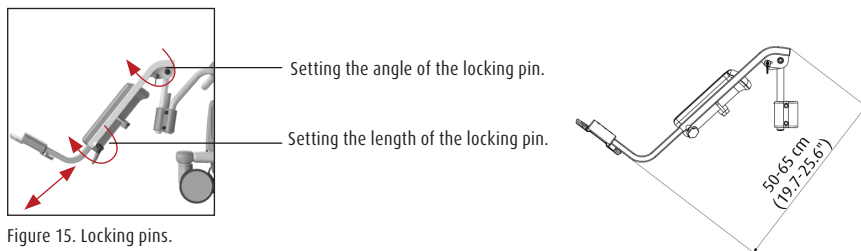


Figure 15. Locking pins.

3.4. Armrests

- The independently foldable armrests are easy to fold up (See figure 16).
- Press the blue button to unlock the armrest. The armrest can now be folded up.
- Protect the user when raising and lowering the armrests.
- The armrests can also be used as support when sitting down and standing up while in the lowered position.



Figure 16. Armrests.



When folding down the armrests, avoid the hinging point to prevent possible entrapment.



When folding the armrests away, avoid fingers or body parts becoming entrapped between the armrest and the back support.



The armrests must not be used as a lever arm (e.g. when moving the chair over an obstacle) or as a push / pull bar. You must not sit on it either. This could damage the Reflex XL/Reflex XXL and /or present a hazard.

The armrests of the Reflex XL and Reflex XXL are adjustable in width (See figure 17). Loosen the wing bolt (1) of the armrest (See figure 18) and slide the armrest to the desired position (2). Once the correct position has been reached, tighten the wing bolt again.



Figure 17. Armrests adjustable in width.

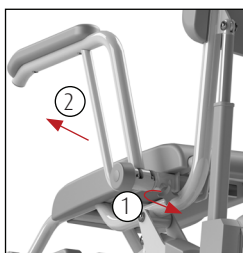


Figure 18. Cross knob.

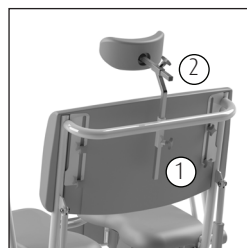


Figure 19. Head/neck support.

3.5. Head /neck support

- The Reflex XL/Reflex XXL has a head/neck support that can be adjusted both vertically and horizontally.
- To adjust the height of the head/neck support, loosen the wing bolt (1) at the rear of the seat. Once the correct height has been reached, tighten the wing bolt again (See figure 19).
- To adjust the depth of the head/neck support, loosen the cross knob at the top of the seat (2). Once the correct height has been reached, tighten the cross knob again.
- The Reflex XL/Reflex XXL has a curved head/neck support, providing optimal support for the client's head.

3.6. Backrest

The Reflex XXL has a height-adjustable backrest. In this way, extra seating space is created (See figure 20).

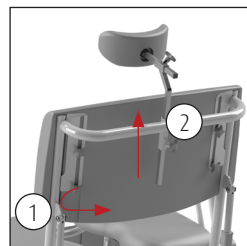


Figure 20. Backrest Reflex XXL.

To adjust the height of the backrest, loosen the four cross knobs at the back of the backrest. Then slide the backrest to the desired height and tighten the cross knobs.

3.7. Move up/down

Moving up

- When the client is seated in the chair, first apply the brakes and only then move the chair up.
- The seat section is moved up by pressing the control button with the arrow pointing up. The seat frame will then move up evenly. The indicator LED on the hand control will start flashing green, and the battery status LED indicator will light up (See figure 21).
- You can stop the movement at any desired height by releasing the button.
- Maintain contact with the client during the upward movement.



Figure 21. Moving upwards.



When the chair is moved upward from the lowest position while the seat is tilted forward, the upward movement stops as soon as the chair frame has risen 9 cm. The chair frame will first move to a horizontal position, after which the chair will continue to rise.



Figure 22. Moving downwards.

Moving down

- The seat section is moved down by pressing the control button with the down arrow. The seat frame of the Reflex XL/Reflex XXL will then descend evenly. The indicator LED on the hand control will start flashing green, and the battery status LED indicator will light up (See figure 22).
- You can stop the movement at any desired height by releasing the button.
- Keep contact with the client during the downward movement.



Figure 23. Tilting backwards.



Before moving the chair downwards, check to ensure there are no persons or objects in the vicinity of the chair.

3.8. Tilting

- The Reflex XL/Reflex XXL is equipped with a tilt function of up to 30° backwards. This function can be operated by pressing the control button with the arrow pointing backwards. The seat section will then tilt. The indicator LED on the hand control will start flashing green, and the battery status LED indicator will light up. (See figure 23).
- The chair frame of the Reflex XL/ Reflex XXL tilts 10° forward when the control button with the forward arrow is pressed (See figure 24).



Figure 24. Tilting forwards.

- When the chair reaches the maximum tilting angle, the movement will automatically stop. The carer can stop the movement at any moment by releasing the button.
- To tilt the Reflex XL/Reflex XXL forward again, use the control button with the forward arrow (See figure 24).
- Once the chair is back in the horizontal position, the movement will automatically stop.
- During tilting the armrests must be folded downwards and the arms of the client must rest on the armrests.
- Maintain contact with the client during tilting.



Before tilting the chair, first check that there are no persons or objects under the chair.



When the chair has been adjusted upward by more than 9 cm from the lowest position, the forward tilt control button is disabled for safety reasons.

3.9 Control panel

There is an additional control panel on the side of the seat (See figure 25). This panel contains control buttons that can be used to adjust the height and angle of the seat in the event of a malfunction of the hand controls. There is also an emergency lowering button. Only use the emergency lowering button in case of emergency. After using the emergency lowering button, always contact the technical service department. Explanations on how to use this can be found in section 4.2 'Emergency lowering'.



Figure 25. Control panel.

In addition to these functions, the control panel has an information display. This display can show codes that make it easy to determine the status of the chair. The codes are explained in section 4.4. Status notification.

3.10. Toilet function

3.10.1. In combination with toilet

- The Reflex XL/Reflex XXL can also be moved over the toilet.
- Once the client is seated and the armrests are folded down, the caregiver adjusts the Reflex XL/Reflex XXL to the correct height.
- Move the Reflex XL/Reflex XXL up or down as necessary to achieve the correct position.
- The Reflex XL/Reflex XXL can now be moved backwards over the toilet.
- Lower the Reflex XL/XXL as necessary to achieve the correct position.



The Reflex XL/Reflex XXL does not fit over every toilet.

3.11. Using a bedpan or bucket

- If the Reflex XL/Reflex XXL is being used as a toilet chair, the special guides under the seat can be used to accommodate a stainless steel / plastic bedpan or bucket.
- The bedpan or bucket is inserted at the rear of the chair (See figure 26).
- The position of the plastic bedpan or bucket in the guide can be determined by the user (See figures 27 to 29).

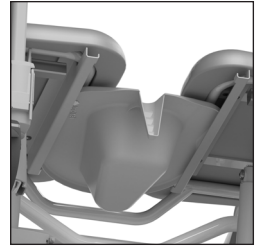


Figure 26. Bedpan.

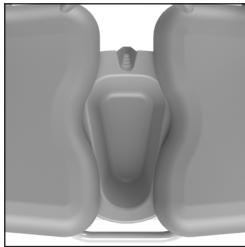


Figure 27. Lopital plastic bedpan.

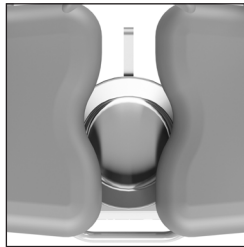


Figure 28. Stainless steel bedpan at front.

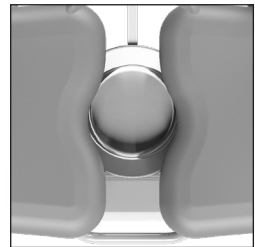


Figure 29. Stainless steel bedpan at rear.



The Lopital plastic bedpan, stainless steel bedpan, and bucket must be cleaned and disinfected after use, for example in a bedpan washer.



If the Lopital plastic bedpan, stainless steel bedpan or bucket has been used, it must be removed from the chair before the chair is moved or adjusted in height.

3.12. Removable seat

If required, the seat of the Reflex XL can be taken off the frame (See figure 30). By doing so, the seat can be cleaned even better. The seat can be taken off the frame without using tools. Pull the seat upwards in the front. To put the seat back, press the seat back onto the frame. Ensure that the seat fits well around the frame.

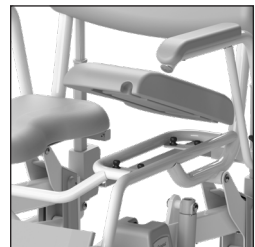


Figure 30. Removable seat.

3.13 Charging battery

- The Reflex XL/Reflex XXL is an electrically powered high/low shower toilet chair that runs on a battery.
- The charging point is located on the right side of the seat (1) (See figure 31).

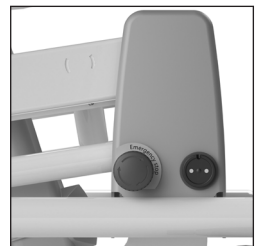


Figure 31. Charging point.

- A battery indicator is displayed on the hand control (See figure 32).
- If the LED lights up red continuously, the battery must be charged immediately. The chair can no longer be used.
- Connect the charger to the Reflex XL/Reflex XXL (See figure 31).
- When the charger is connected to the Reflex XL/Reflex XXL, the control unit goes into sleep mode (all functions are then switched off). The letter C (charge mode) appears on the information display on the additional control panel.

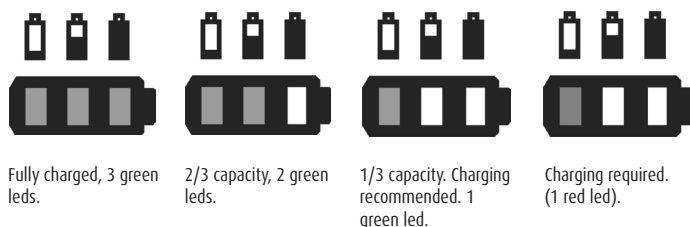


Figure 32. Battery indication hand control.



Make sure you insert the plug into the correct, appropriate position in the charging point.



Only the original charger for the Reflex XL/ Reflex XXL may be used. If you use another charger, Lopital cannot be held liable for any consequences, such as damage to the electronics.



Once the charger is connected to the Reflex XL/Reflex XXL, the controls will go into 'sleep' setting (all functions are switched off).



The charger that must be used for the Reflex XL/Reflex XXL is the 'Mascot 3743'.

During charging, the indicator light on the charger lights up orange. When the indicator light on the charger turns green, the battery is sufficiently charged. The charger can remain connected when the battery is sufficiently charged. No damage will occur if the charger remains connected.

Disconnect the Reflex XL/Reflex XXL from the charger.



Charge the battery in a well-ventilated, dry place once a week!



After use, connect the chair to the charger to maintain the battery. Charge the chair at least once a week!

For instructional videos, go to www.lopital.com or visit www.youtube.com/user/LopitalNL

4. Safety Features

4.1. Emergency Stop

The emergency stop is located on the side of the chair. Operate the emergency stop in case of an emergency where the upward or downward movement must be stopped immediately. After the emergency stop has been pressed, none of the electrical controls will work, with the exception of the emergency descent button. The emergency stop cuts off all power. An orange LED will flash on the control panel.

Once the situation has stabilized, operation can be resumed. Turn the emergency stop a quarter turn clockwise to unlock it (See figure 33).



Figure 33. Emergency stop.

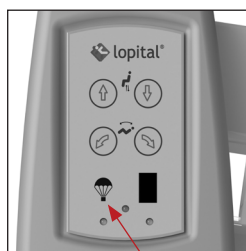


Figure 34. Emergency lowering.

4.2. Emergency lowering

If the controls are no longer functioning and the chair is in a high position, the chair can be lowered using the emergency lowering button. Press the emergency descent button (parachute symbol) (See figure 34).

The chair will now lower to its lowest position (make sure that there are no persons or objects under the chair). Remove the client from the chair and do not use the chair until it has been repaired. Place the chair in a safe place and indicate that it is defective. Contact the technical department or service department of Lopital. Email: info@lopital.nl



Figure 35. Control panel.

4.3. Sleep mode

After approximately ten seconds, the chair will enter sleep mode and the battery indicator LEDs on the hand control will turn off. To deactivate sleep mode, press any button on the hand control or control panel. The chair will then be activated immediately.

4.4. Status notification

A display is shown on the control panel (See figure 35).

Below is an explanation of the various error codes. Service and maintenance of the Reflex XL/ Reflex XXL may only be carried out by persons qualified by Lopital.

Please contact the technical service or service department of Lopital. E-mail: info@lopital.nl

Codes	
1	Possibly incorrect position value of an actuator. The position of the actuators must be reset by a service technician (<i>See paragraph 9</i>).
2	One or more actuators are defective or there is a short circuit in the cabling.
3	One or more actuators are defective or there is a cable break.
4	The manual control is disconnected, the manual control is defective or there is a cable break.
5	The control panel is defective or there is a cable break.
6	A button on the control panel or a button on the hand control sticks and does not respond properly.
7	The battery voltage is too low; the battery may be defective.
8	Inconsistency between the actuators. Code 8 may occur temporarily while the control system attempts to resolve the difference between the actuators. If this error message persists, the product must be reset (<i>See paragraph 9</i>).
9	The emergency lowering button has been used. To use the chair again, it must first be reset (<i>See paragraph 9</i>).
C	Charging mode, the C lights up in the display when a button is pressed.

LED explanation		
Left LED	Flashing blue	There is a power interruption, contact Lopital or your local supplier.
Middle LED	Flashing green	A button has been activated (up/down/tilt).
Right LED	Flashing orange	The emergency stop has been activated.

5. Cleaning and maintenance

The Reflex XL/Reflex XXL must be cleaned after every use, with water and regular household cleaning agents. PUR integrated foam components with IMC coating should be rubbed clean and disinfected. Do not use any abrasive or other aggressive cleaning products. If necessary, the PUR components can be disinfected with a solution of 70% ethanol or propanol.

The time the products must be left on the components has a significant impact upon the lifespan of the PUR components. As a result of the material properties of PUR, contact with sharp objects

must be avoided. This could lead to damage or tears in the material. Finally, we would like to point out that non-critical parts of the PUR components must also be cleaned and disinfected.

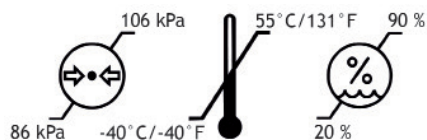
Check the wheels regularly for hairs, dust and soap residues and remove when necessary. Maintenance and repairs to the Reflex XL/Reflex XXL may only be carried out by authorised personnel.

Maintenance schedule	
After each use	• Clean the chair with water and normal household cleaning products. • Clean and disinfect the PUR integral foam parts. • Check to ensure all parts of the Reflex XL/Reflex XXL are present, such as the headrest, footrests, and hand controls.
Weekly	• Check wheels for hair, dust, and soap residue and remove if necessary. • Check that the chair is still working properly. • Charge the battery at least once a week.
Annual  Service & Onderhoud Tel: +31 (0)13 523 9300 www.lopital.nl info@lopital.nl	• According to the MDR (EU) 2017/745 medical device regulation, the Reflex XL/Reflex XXL must be maintained in accordance with the manufacturer's guidelines. The maintenance protocol can be found on the Lopital website (www.lopital.com). This should preferably be done by Lopital or another authorized body. Lopital offers the option of having the chair thoroughly inspected and maintained once a year through its Periodic Preventive Maintenance program. For more information about the maintenance contract, please contact Lopital (info@lopital.nl) or your supplier.

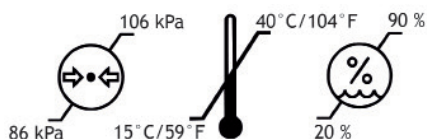
For complete cleaning and disinfection instructions, please refer to the cleaning and disinfection protocol on the Lopital website (www.lopital.com/downloads/).

6. Environmental Conditions

Ambient conditions during storage and transportation



Ambient conditions during operation



7. Removal parts

All parts that are replaced or removed can be sent back to Lopital BV. You may also offer the parts to the engineer for destruction. We will ensure that all parts are processed in an environmentally friendly manner. If you take care of disposal of the product yourself, you must take account of the fact that batteries and chargers must be disposed of as small chemical waste.

8. Technical data



The Reflex XL/Reflex XXL shower-toilet chair is classified as protection class II during charging.



The seat, backrest, and armrests are Type B applied parts.

	Specification	Explanation
Degree of protection (device)	IPX4	Splash-proof, suitable for use in the shower
Degree of protection (electronics)	IPX6	The actuators are protected against powerful water jets
Pollution Degree	2	Suitable for damp and partially wet environments with conductive contaminants
Overvoltage Category	1	Operates on low voltage circuits (batteries), not exposed to high voltage spikes

8.1. Construction

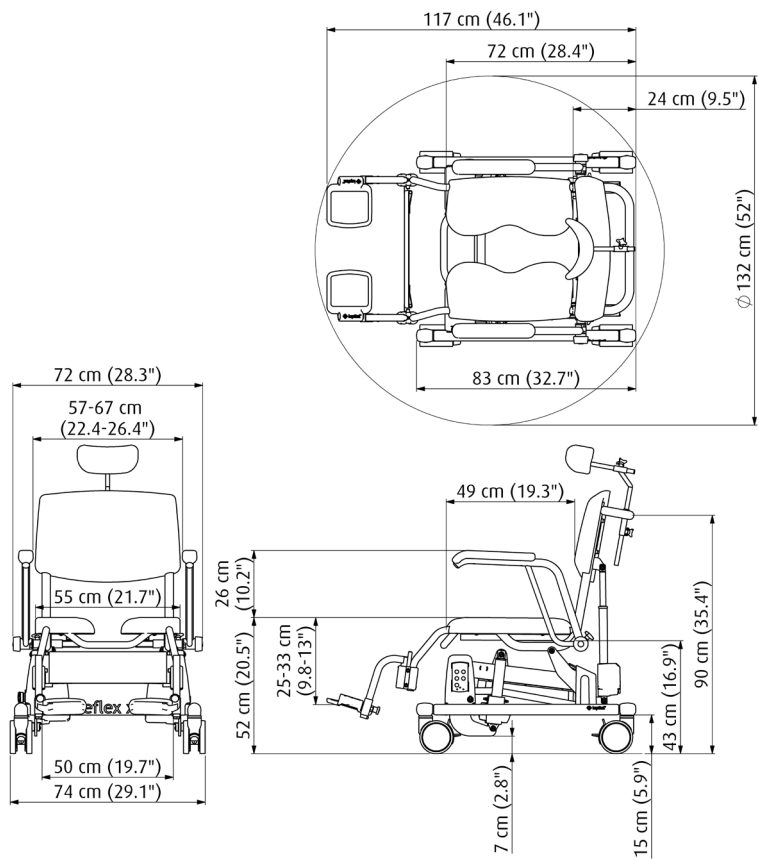
Frame:	Stainless steel and steel tubing and sheet metal with two-layer powder coating
Hinge points:	Stainless steel, covers made of plastic V0
Wheels:	Plastic, Ø 12.5 cm, double lockable
Body support:	PUR (polyurethane).
Weight:	5100 5950: 63 kg / 138.89 lbs 5100 5900: 70 kg / 154.32 lbs
Maximum load:	5100 5950: 227 kg / 500.45 lbs 5100 5900: 275 kg / 606.27 lbs
Weight of footrest:	1.2 kg / 2.7 lbs
Weight of comfort leg support:	3.6 kg / 7.9 lbs per piece

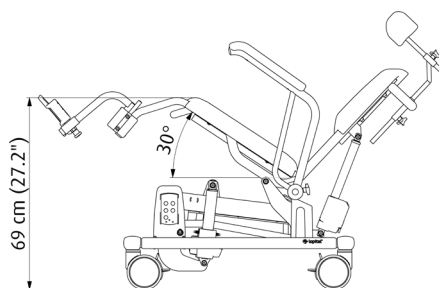
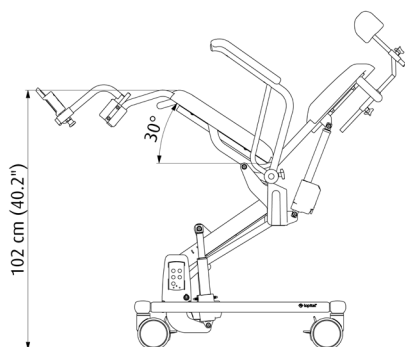
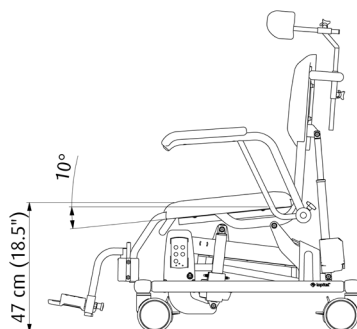
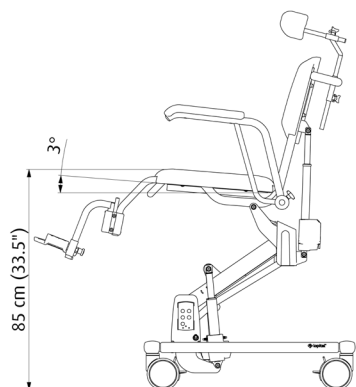
8.2. Drive

Drive:	2 x 24V actuator for high/low adjustment 2 x 24V actuator for tilt adjustment
Battery:	2 x battery capacity 7A
Charger (Mascot 3743):	The device is charged via an external charger (Mascot charger). 110-240 V AC, 50-60Hz, max. 035A, cable length 1.5 m
Cables:	Battery cables: UL - E198296 Actuator high/low cable: CAB0965807-0850 Actuator tilt cable: 0237001-1500 Cable between hand control and control box: LIKO standard (Hand) control cable: Lapp Group Multistandard SC2.1
Fuses:	Fuse F2 (internal, located in the power line of the emergency lowering function), Littelfuse, 0287004.PXCN, 32 V, 4 A Fuse F3 (between the batteries), Littelfuse, 0287015.PXCN, 32 V, 15 A
Mode of operation:	Non-continuous (10% 2min ON, 18min OFF)

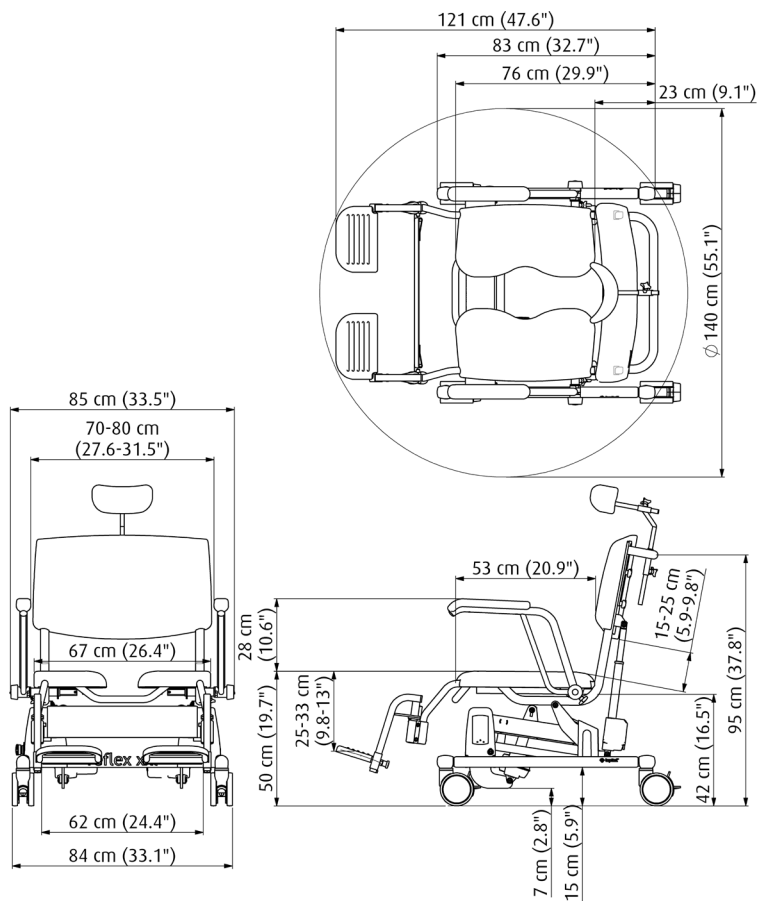
8.3. Dimensions

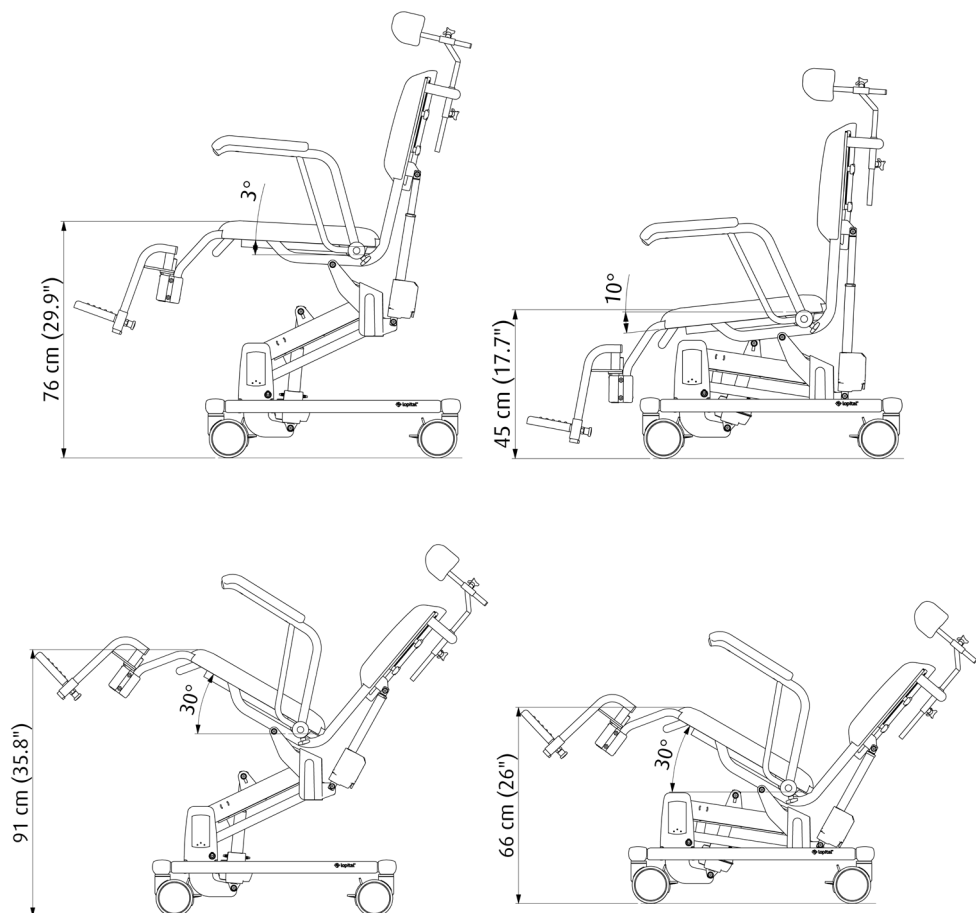
External dimensions:	Reflex XL: 74 cm / 29.1 inch wide, 117 cm / 46.1 inch deep Reflex XXL: 84 cm / 33.1 inch wide, 121 cm / 47.6 inch deep
Seat height:	Adjustable: Reflex XL: Minimum 47 cm / 20.9 inch, maximum 85 cm / 33.5 inch Reflex XXL: Minimum 45 cm / 19.7 inch, maximum 76 cm / 29.9 inch
Footrest adjustment:	8 cm / 3.15 inch
Head/neck support adjustment:	Depth 7 cm / 2.76 inch & height 12 cm / 4.72 inch
Stepless tilt adjustment:	30° backward, 10° forward





Reflex XXL





9. Resetting

When the emergency lowering button has been used, error code 9 appears on the control panel display. When an incorrect position value of an actuator is detected, error code 1 appears on the display. In both cases, the Reflex XL/Reflex XXL must be reset. To do this, move the Reflex XL/Reflex XXL completely to the lowest position. For this, use the button with the downward arrow (not the emergency lowering button (parachute)). Ensure that there are no obstacles during the lowering process.

10. Electromagnetic compatibility

Guidelines and manufacturer's declaration - electromagnetic emissions		
The Reflex XL/Reflex XXL is intended for use in the electromagnetic environment below. The customer or user of the Reflex XL/Reflex XXL must ensure that the chair is used in such an environment.		
Emissions test	Compliance	Electromagnetic environment - Guidelines
RF emissions CISPR11	Group 1	The Reflex XL/Reflex XXL uses RF energy only for its internal functions. Thus, the chair's RF emissions are very low and are not likely to interfere with nearby electronic equipment.
RF emissions CISPR11	Class A	The Reflex XL/Reflex XXL is suitable for use in all buildings other than homes and buildings directly connected to the public low voltage network in buildings used for residential purposes.
Harmonic emissions IEC 61000-3-2	Class A	The Reflex XL/Reflex XXL complies with Class A harmonic emission limits and is intended for use in industrial and commercial environments.
Voltage fluctuations / flicker emissions	Complies	The Reflex XL/Reflex XXL does not produce voltage fluctuations or flicker above acceptable levels.

Directive and manufacturer's declaration - electromagnetic immunity			
The Reflex XL/Reflex XXL is intended for use in the electromagnetic environment below. The customer or user of the Reflex XL/Reflex XXL must ensure that the device is used in such an environment.			
Immunity Test	IEC 60601-1-2 Test level	Compliance level	Electromagnetic environment
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV atmosphere	±8 kV contact ±15 kV atmosphere	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical jump voltage/peaks	±1 kV for input/output lines	±1 kV for input/output lines	
Overvoltage IEC 61000-4-5	Not applicable	Not applicable	
Voltage drop, short power interruptions and voltage fluctuations on power cables	Not applicable	Not applicable	
Mains frequency (50/60 Hz) Magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency-based magnetic fields should be maintained at levels characteristic of a common location in a common commercial or hospital environment.

Directive and manufacturer's declaration - electromagnetic immunity			
The Reflex XL/Reflex XXL is intended for use in the electromagnetic environment below. The customer or user of the Reflex XL/Reflex XXL must ensure that the chair is used in such an environment.			
Immunity Test	IEC 60601-1-2	Compliance level	Electromagnetic environment - Guidelines
Led RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 6 V in ISM and amateur bands 150 kHz to 80 MHz 10 V/m 80 MHz	3 V 6 V in ISM and amateur bands 10 V/m	
Immunity to proximity magnetic fields		9 kHz – 13.56 MHz	Immunity test for magnetic fields in close proximity

Test frequency (MHz)	Band a) (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	Immunity test level (V/m)
385	380 - 390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27
450	430 - 470	GMRS 460, FRS 460	FM c) ± 5 kHz deviation 1 kHz sinusoidal	2	0,3	28
710	704 – 787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9
745						
780						
810	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0,3	28
870						
930						
1720	1 700 – 1 990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 217 Hz	2	0,3	28
1845						
1970						
2450	2 400 – 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28
5240	5 100 – 5 800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9



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