RiseAtlasSeries

SystemRoMedic

MD CE

Celing Lift Units

Instructions for use – English

REF

Article Number	Product name
50100051	Rise Atlas 450 HH.
50100057	Rise Atlas 450 M.
50100059	Rise Atlas 625 M.

SWL:
RiseAtlas 450HH : 205 kg/450 lbs
RiseAtlas 450M : 205 kg/450 lbs
RiseAtlas 625M : 285 kg/450 lbs

IFU no: 921 Ver. 1 210923

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RiseAtlas ceiling lift series are safe and easy-to-use stationary ceiling lift units operated indoors along the rails, both on permanent rail systems and on portable, freestanding lift stands, in most types of rooms, for transferring persons with physical disabilities (with little or no muscular function, including loss of voluntary movement functions) between two points for example from bed and wheel chairs etc. RiseAtlas ceiling lifts offers a large lifting area and possibility of both very low and high lifting, making it an excellent solution for lifting from floor, gait training and standing training.

RiseAtlas series offers a large lifting area and the possibility of both very low and very high lifting, making it an excellent solution also for lifting from the floor and for gait training and standing training. RiseAtlas series, when used with appropriate lifting accessories, provides secure, comfortable and individual adapted lifting of users in connections with seated or horizontal transfers to and from the bed, wheel chair and one room to another. Thus, reducing the risk for work related injuries to caregivers.

Rise Atlas series are available in 3 different variants which have different lifting capacity (205 kg and 285 kg) with a built in vertical lift motor, other features and functionalities. The choice depends on the need for lifting capacity, setting and situations the ceiling lift unit will be used in and, of course, the needs of the users. All the 3 variants are manually transferred along the rails and features Direct Healthcare Group's unique SystemRoMedic™ Quick Trolley System. This model is fitted with a quick release trolley which readily allows for dismantling of the ceiling lift unit from the rail.

	Bed to Wheelchair		Raising in Bed
	Bed to Shower chair		Turning and repositioning in Bed
	Bed to Stretcher		Standing walking and Gait training
	Floor to Bed		Repositioning on wheelchair

Intended Environment

The Ceiling Lift system are intended to be used, indoor environment both home healthcare environment and Professional healthcare facility environment.

- Home Healthcare environment is limited to indoor domestic area, where the units are used to alleviate or compensate for an injury and/or disability with little or no muscular function.

- Professional Healthcare facility environment includes long-term care (nursing, homes/ 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)

Visual inspection

Visual inspection

Check the packaging of the unit is free form damage occurred during shipment of the product.
Check to ensure that product is free from damage.
Check if all the product and accessories are delivered in the packaging. compared with the product label:
Rise Atlas 450 HH. Article No. 50100051
Rise Atlas 450 M. Article No. 50100057
Rise Atlas 625 M. Article No. 50100059
Accessories: Refer to accessories section (Page)
Inspect lift functions regularly.

Before use:

Ensure that the product is correctly mounted in the trolley.
Check rail end stops.
Check sling bar connection and safety latch function.
Check lifting movement.
Inspect the lift for signs of wear and damage.
Check the hand control cable for signs of wear.
Check to ensure that hand control markings coincide with lift functions.
Check battery charge level.

Always read the user manual

Always read the user manuals for all assistive devices used during a transfer.
Keep the user manual where it is accessible to users of the product.
Under no circumstances may the lift be used by persons who have not received instruction in the operation of the lift.
It is strongly prohibited to modify the original product.

Installation

Unpacking and check

With RiseAtlas, the following is included in the package:

1 RiseAtlas lift unit
1 Trolley
1 Hand control
2 Manuals - User manual, Assembly instructions for fuse
1 Charger station
1 Manual emergency lowering key
1 Safety pin H64
1 Safety pin H120 - 160
1 Label (QuickTrolleySystem)
1 Label (Parking for end point charging)

Check to ensure that no components are left in the packaging.
Inspect the lift unit for signs of damage.

Transport and storage of ceiling lift unit without fuse

Before shipping, the fuse is removed to prevent battery discharge during transport or long-term storage.

Installing the lift unit

NOTE! The lift unit and carriage must be installed and inspected by authorized personnel according to instructions issued by Direct Healthcare Group.

Ensure the installation of the Ceiling lift system is certified by the Installer, after performing weight testing each system immediately after installation is completed.

Periodic inspection must be performed at least once a year. Use only original spare parts. Service and maintenance must be performed according to instructions in the service manual.

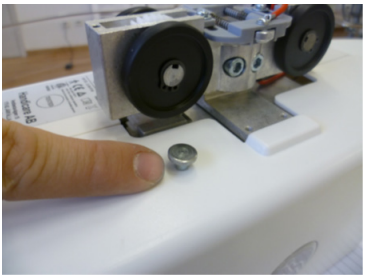
The lift unit must be charged for at least 3 hours before it is used for the first time. The lift unit is shipped with the fuse removed. Prior to installation the cover is removed and a 20A fuse is inserted. The fuse is packed in a bag. As standard, the lift unit is factory pre-set for charging at a charger station or End-point charger. When installing the lift unit for in-rail charging on the rail system, the system must be fitted with charger rails. Exercise caution when installing the lift unit, so that the charger wheels do not come in contact with the rail, since this may cause short-circuiting. Incorrect installation may cause short-circuiting and damage the charger.

> ⚠ Alteration of the charging method must be performed by authorized personnel according to instructions issued by Direct Healthcare Group.

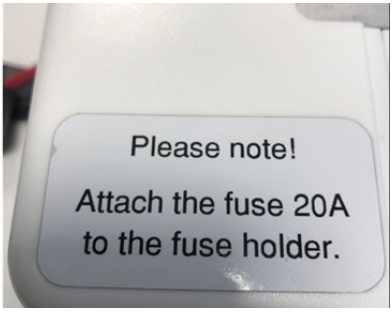
Installing the Fuse in the lift unit according to the instructions stated below.

The Rise Atlas Ceiling lift units are shipped with the fuse removed. Prior to installation of the ceiling lift, insert the 20A fuse (shipped along with the unit's packaging) into the fuse holder. The Fuse is packed in a bag.

1. Open the plastic enclosure by loosening the bolt as shown in the image below.



2. Refer to the plastic enclosure, where the Label for placing the Fuse is mentioned.

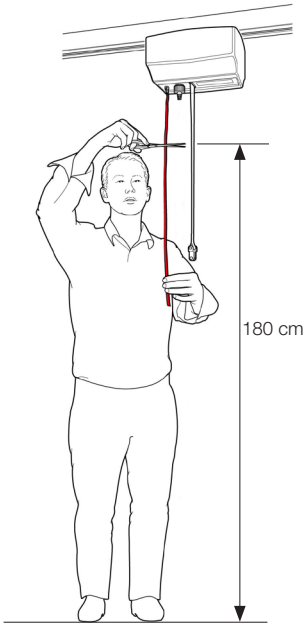


3. Attach the Fuse to the fuse holder as shown in the image below. Take care not to touch the PCB or any other electric components while attaching the Fuse.

Emergency Stop Strap

When the lift is correctly installed in the trolley system, the emergency stop strap needs to be adjusted. The emergency stop strap is cut at a height where the strap doesn´t interfere with a normal lifting situation but at the same time is easily reached by all users.
The strap is cut with scissors and singed at the end as to prevent unravel.

Direct Healthcare Group recommends a height of 180 cm/70 inches above the floor.

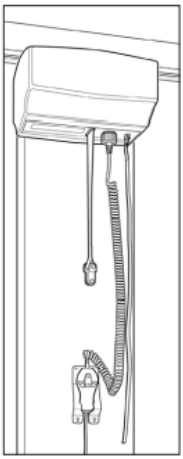


Assembly of charger unit

The following is included in the charger station package:

- Holder
- Charger cup

Charger cable (EU, UK, US connectors included)
(fixtures between charger station and wall/freestanding rail not included)



Charger station

a. Secure holder to charger station on wall/freestanding rail system. Recommended height is 110-120 cm from floor.

b. Mount the charger cable. If necessary mount the cover for the charger.

c. Connect the accompanying hand control to the charger station and the hand control cable to the lift unit. Check charger function.

Charging the lift unit

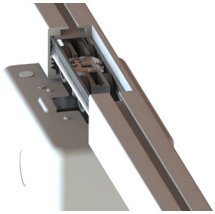
RiseAtlas can be used with three different charging systems:

1. Charger station for charging via hand control (optional))
2. In-rail charging (optional)
3. End-point charging (optional)

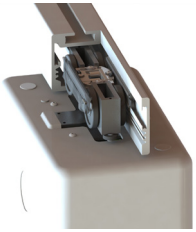
RiseAtlas is charged with a charger unit that is connected to the charger cables via a DC outlet. The charger should be kept in an appropriate location. Note that the charger is a separate unit and can be easily mistaken for another charger. Ensure that the correct charger is used, see Technical information. For assembly instructions, see Assembly of charger unit.

1. The lift unit is charged via a wall-mounted charger station. Place the hand control in the charger station. The charging lamp on the lift unit indicates charging for 15 minutes after being activated. Charging continues until the battery is fully charged.

2. For in-rail charging, the lift unit is always kept charged, which means that it can be left anywhere on the rail and will charge automatically.



3. For end-point charging, the lift unit is placed at the charger station at the end of the rail. If the rail system is of the traverse type, the secondary rail is placed at the end of the primary rail at which the charger station is located. Check to ensure that the battery symbol on the lift unit lights up.



Alternative 2: In-rail charging (Optional)

If the in-rail charging option is chosen, the lift unit must be fitted with a charger contact and charger rails before installation. The charger that is included with the lift unit is used.

> ⚠ Alteration of the charging method must be performed by authorized personnel according to instructions issued by Direct Healthcare Group.

1. Set the charging points for in-rail charging; the charger plate is not secured with the spring pins, see Figure 1. To set the charging points for in-rail charging, remove the spring pins that hold the charger plate in place. Then, the dip switch on the circuit board is set for the desired charging function.

2. Check to ensure that the charger plate springs in and out when pressure is applied to the charger plate, see Figure 2.

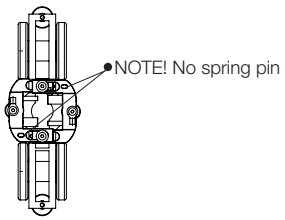
3. Check to ensure that charger rails have been installed (installation of charger rails is described in the installation manual for MilkyWay).

4. Guide the lift unit onto the rail so that the plus on the charging point is on the right side, according to Figure 3.

5. Connect the red cable to the charger rail on the right side, the charger plate's plus side (positive), and the black cable on the left side (negative), according to Figure 4.

6. Install the end-stop on the rail.

1



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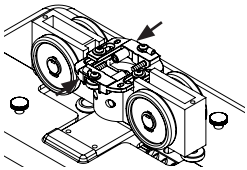

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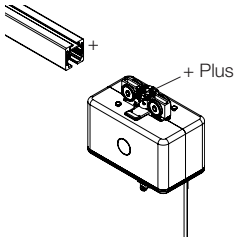

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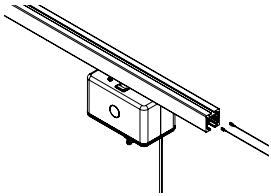


Alternative 3: End-point charging (Standard version for article number 50100051 and accessory for article number 50100057)

If the end-point charging option is chosen, the lift unit must be fitted with a charger contact (70200062). The charger that is included with the lift unit is used.

1. Check to ensure that the charging points are set for the charger station; the charger plate is secured with the spring pins, see Figure 1.

2. Check to ensure that the charger plate springs in and out when pressure is applied to the charger plate, see Figure 2.

3. Guide the lift unit onto the rail so that the plus on the charging point is on the right side, according to Figure 3.

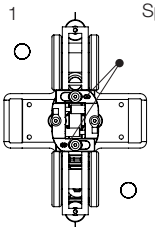
4. Mount charger contacts according to Figure 4. NOTE! Push the charger contact (A) in about 50 mm if only a stop bolt is used. When an adjustable end-stop is used, the charger contact is pushed in about 90 mm.

5. Affix the accompanying screws for charger contacts, see Figure 5 (B).

6. Connect the red cable to the charger contact on the right side, the charger plate's plus side (positive), and the black cable on the left side (negative), according to Figure 6.

7. Install the end-stop on the rail.

1 Spring pin



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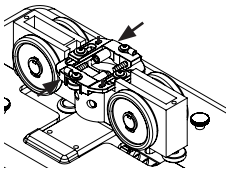

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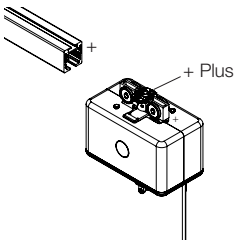

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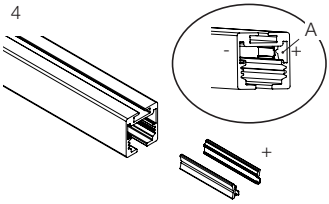

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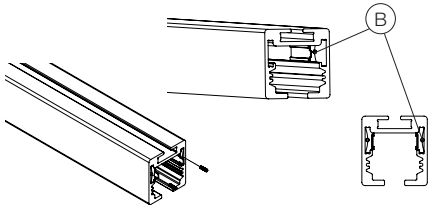

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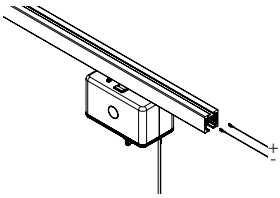


Battery status, charger station

- The battery symbol lights green when battery capacity exceeds 50 %.
- If the battery symbol blinks orange when the lift unit is started, the battery needs to be charged.
- If the battery symbol lights orange and a beep is heard when the lift unit is run up, the battery needs to be charged immediately.
- When the lift unit is started the battery symbol lights up for 2 seconds to indicate the current battery status.
- Six seconds after every operation the battery symbol lights for 2 seconds to indicate the current battery status.

Only hand control charging or end point charging mode.

Charging indication (hand control charging and end point charging)

When the hand control is placed in the charger station 2 beep sounds are heard and the green light should stay on for 15 min.

Battery status, in-rail charging

The battery symbol lights green when battery capacity exceeds 50%.

When the lift unit is activated the battery symbol lights green for 15 minutes.

If the battery symbol and the book symbol blink orange when the lift unit is started, the circuit for the charging system has been broken and must be checked by a technician.

Active charging detection (In-rail charging)

After activation the lift unit will light the battery symbol for 15 minutes and after 4 minutes the charger should turn on. If the lift unit is missing the charger it will start indicate after 4 minutes. Green 15 minutes after activation.

NOTE!

Use only the charger that is intended for the lift unit.

For maximum service life, charge batteries regularly. Do not allow the battery charge level to fall below 25% (orange symbol on control panel).

Emergency stop must not be activated during charging.

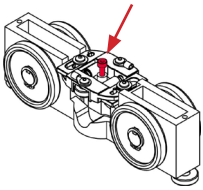
⚠ **Batteries may only be replaced by authorised personnel.**

Assembly of the trolley

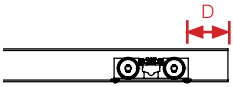
Clearence hole for safety pin

To be able to mount and dismount the lift unit from the rail with the QuickTrolleySystem, the saftey pin, marked red in Figure 1, needs a clearence hole in the rail that enables the saftey pin to slide up and down. Mounting and dismounting the lift unit from the rail will only be possible at the position where the clearence hole has been made.

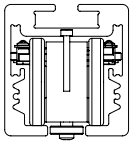
1. Decide where on the rail the lift unit can be mounted and dismounted. NOTE! Distance, D in Figure 2, from end of rail to trolley depends on which end stop that is used, Table 1.
2. Drill a hole, diameter 10-12 mm, in the rail where the safety pin should slide up and down, Figure 3.
3. Remove metal chips from the rail.
4. Put the accompanying label on the rail to show the user where the lift unit can be mounted and dismounted, Figure 4.



1; Safety pin



2; Trolley in position for mounting / dismounting



3; Trolley in rail

End stop used	Distance, D
Stop bult	50 mm
Adjustable end stop	120 mm

Table 1; End stop

4; Label on rail

Safety pin

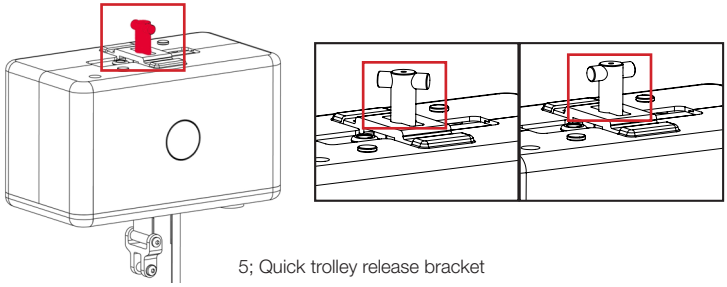
Place the safety pin in the intended position in between the charger plates, Figure 1. The length of the safety pin chosen depends on the height of the rail, Table 2.

Height of rail	Safety pin
H64	Short safety pin M3x15 mm
H120 – H160	Long safety pin M3x25 mm

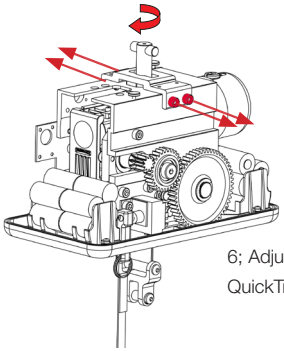
Table 2; Length of safety pin

If the desired position for the lift unit is not parallell to the rail the quick trolley release bracket, marked red in Figure 5, can be adjusted by 45-degree angle intervals.

5. Open the cover by removing the two screws at the top. More detailed information can be find in the service manual for RiseAtlas450.
6. Release the four screws that hold the top bracket in place. Rotate the quick trolley release bracket into the desired angle, Figure 6.
7. Mount the top bracket and the covers back to their original position.



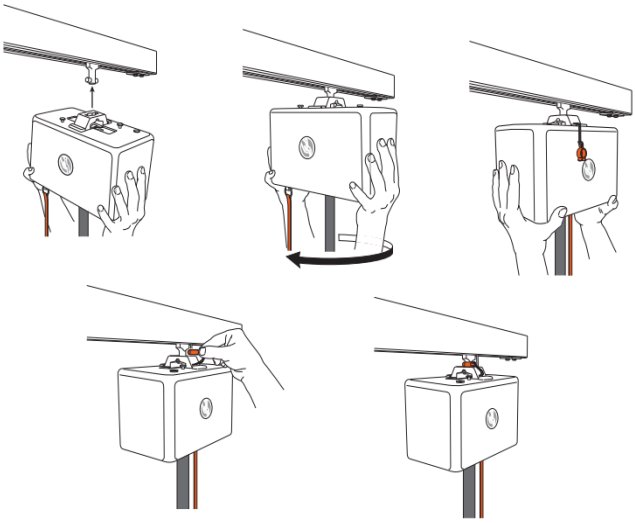
5; Quick trolley release bracket



6; Adjusting the QuickTrolleyReleaseBracket

Using the QuickTrolleySystem

1. Check to ensure that the lift unit's emergency stop is activated by pulling the emergency stop strap.
2. Place the lift unit on the rail by inserting the T-fitting (upside down) from the trolley into the hole on the top of the lift unit.
3. Press up, and then rotate the lift unit 90 degrees to lock the T-fitting in the lift unit.
4. Click the locking clip into place.
5. Check to ensure that the lift unit is secured to the trolley and that it can be moved along the rail. The lift unit must be able travel freely on the rail system without obstruction and there must be no risk of the lift unit colliding with any objects in its path.
6. To remove the lift unit from the rail, perform the above procedure in reverse.

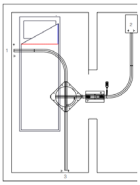


Images 1-5: Locking the trolley to the lift unit.

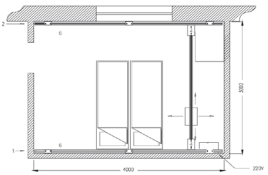
Different rail systems

The choice of rail system is determined by the lifting needs at hand.

Basic Rail System,



Basic rail systems, with curves and turn table



Freestanding lift stand

Helena

Final inspection

- The RiseAtlas lifting unit must be installed and first-time inspected by authorized personnel (inspector) in accordance with the installation instructions provided by Direct Healthcare Group. Periodic inspection of the equipment should be undertaken at least once a year. Original spare parts should be used and service/maintenance of the equipment should be in accordance with the user manual.
- Check to ensure that no parts have been left in the packaging.
- Check to ensure that the lift has no signs of damage from transportation.
- Check to ensure that the emergency stop is functioning by pulling the emergency stop strap, and then pressing the UP or DOWN button. If nothing happens, the emergency stop is working properly.
- Check the entire length of the strap for signs of damage and inspect seams for wear. Press the up button and run the strap all the way up. Then, press the down button and run the strap all the way down.
- Test lift function by lifting a person (not a user) using an approved lifting sling. At the same time, check both the user manual and electrical emergency lowering function with someone in the lift. See section on Emergency lowering.
- Check to ensure that the rail system is equipped with end stops.
- Check the hand control cable for signs of wear.
- Check to ensure that hand control markings coincide with lift functions.
- The user/attendant shall always pay attention to and report any unusual noises or vibration of the equipment.

NOTE!

Before the lift is used for the first time it must be charged for at least 3 hours. See section on charging the lift.
RiseAtlas is shipped with the emergency stop activated to prevent battery discharge during transport or long-term storage.
Always keep the key for the emergency lowering close to the lift.
All personnel who use the lift must be informed of where the key is kept.

Using the product

⚠ Contraindications, Precautions, Warnings:

Contraindications

1. The Ceiling lift must not come in direct contact with Water (if it does please contact Direct Healthcare Group authorised service technicians to inspect the device before performing the lift).
2. The Ceiling lift should not be overloaded above the Safe working load as indicated on the label.
3. The system should not be overloaded above the safe working load as indicated on the system's label (Rails: Permanent and Portable Free standing)
4. For optimal function and safety, the lift should be inspected regularly, see the Service manual.

Precautions

1. Check the system as received the Weight lift test certification
2. Batteries should be charged prior to use.
3. Check the system is levelled after installation of the system.
4. Check the system is levelled after any changes done to the Rail system.
5. Check the system is levelled while moved the Portable Freestanding track form one room to another.
6. If accessories are changed (Sling bars) they should be tested in relation to user's needs and function.
7. Check if the battery is charged above 75 % (Solid green) after the unit is charged overnight.
8. Do not perform an lift if the battery is below 25% (Solid red), put the unit for charging.
9. Check if the End stop and End cap are in place within the rail before performing a lift.
10. Check it functioning of Transition gate before performing a lift.
11. Check if the trolley could move easily from straight to curved rails before performing a lift.
12. Check the system is stable for Free standing track before performing a lift.
13. Check the Ceiling lift unit is correctly mounted with its trolley into the rail system.
14. Before lifting the patient, inspect the strap.
15. Before lifting the patient, check the functioning lower limit switch by lowering the strap of the ceiling lift with out the patient, just with Sling bar attached to the strap.
16. Before lifting the patient, check the functioning upper limit switch by raising the strap of the ceiling lift without the patient, just with Sling bar attached to the strap.
17. Check the Ceiling lift unit for any damage (Perform visual inspection), if exiting contact Direct Healthcare Group service technicians or customer care for further assistance.
18. Check the Hand controller for any signs of wear, if exiting contact Direct Healthcare Group service techni cians or customer care for further assistance.
19. When using a new battery for the first time or after long term storage, please fully charge the battery before use.
20. Use the correct charger provide along with the Ceiling lift unit by the manufacturer.
21. Store the unit in cool dry place.

Warnings

1. The Ceiling lift may not be used by patients above the maximum weight (safe working load) indicated on the product label, place on the device.
2. The Ceiling lift may not be used by patients below the minimum weight of 30 kg as indicated on the product label, place on the device.
3. The device may not be used by infants or children under 30 kg.
4. Ceiling lift should not be operated / charged in Wet environment.
5. Ceiling lift should not be operated in Wet Rooms (bathroom, toilets, shower rooms)
6. Ceiling lift should not be charged in Wet Rooms (bathroom, toilets, shower rooms)
7. Check the safety clip is in place before performing every lift.
8. Check the Emergency lower strap is easily accessible (easy to reach) before performing every lift.
9. The accessories if interchanged within the system, the Safe Working Load of the system should be checked.
10. It is important to use only approved accessories to prevent any unintended detachment and subsequently a fall that may lead to patient injury.
11. Use careful and gentle maneuvers to avoid swinging of patient during lifting, which leads to subsequent impact injuries from surrounding furniture.
12. If the device doesn't charge when Hand Controller is placed by to the holder for charging (No sound cues or no led light displaying on the bottom panel of the ceiling lift), immediately disconnect the Hand controller form holder and contact DHG authorized service technicians.
13. If the Ceiling lift doesn't charge when its moved to End point of the Rail for charging (No sound cues or no led light displaying on the bottom panel of the ceiling lift), immediately disconnect PSU from End point charging, remove the lift from rails and contact DHG authorized service technicians.
14. If the Ceiling lift doesn't charge in its Rails (In Rail charging installation, No sound cues or no led light display ing on the bottom panel of the ceiling lift), immediately disconnect PSU from Rails, remove the lift from rails and contact DHG authorized service technicians.
15. The caregivers must be able to read and understand IFU (User)
16. Its important to never leave the patient alone during the transfer.
17. The installer should check the device or accessories with lowest Safe Working Load is labeled and the entire system is rated for the same.
18. The user shouldn't move Ceiling lift rated for 625 lbs into a system (Rails) rated for 450 lbs.
19. Special care must be taken when using strong power sources such as diathermy and the like so that, dia thermy cables are not placed on or near the device. In case of doubt consult DHG authorized service techni cians.
20. Do not short circuit the batteries. If any noise, excessive temperature or leakage from battery, please stop using the unit an contact manufacturer.
21. Do not remove the outer sleeve from a battery nor cut into its housing.
22. The lifting accessories should be properly tested for patient's needs and function.
23. For optimal function and safety, the Ceiling lift and its approved accessories should be inspected regularly, refer to Service manual.

Before use

- Ensure that the product is correctly mounted in the trolley.
- Check rail end stops.
- Check sling bar connection and safety latch function.
- Check lifting movement.
- Inspect the lift for signs of wear and damage.
- Check the hand control cable for signs of wear.
- Check to ensure that hand control markings coincide with lift functions.
- Check battery charge level.

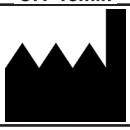
Safe working load

Different products on the same lift system (lift unit, sling and other lifting accessories) may have different safe working loads. The lowest allowable safe working load always determines the safe working load of the assembled system. Always check the safe working loads for the lift unit and accessories before use. Contact your dealer if you have any questions.

Description of functions and symbols

RiseAtlas has many built-in functions. Each function is described in the respective section in the user manual, or in the user manual for the respective accessory. Below is a brief description of the functions that are available for caregivers and user.

Symbols on the labels

	Instruction for use		WEEE (recycling instruction)
	CE marking		Type B, according to the degree of protection against electric shock.
	The device is intended for indoor use.		Class II equipment
	Complies to ISO 10535:2006 with ANSI(AAMI ES60601-1:2005 + C1A2) and is certified to CSA Z10535:2006 with CSA-C22.2 No. 60601		Warning symbol(refer to warning section)
	Medical Device Class I. The product complies with the requirements of the Medical Devices Regulation 2017/745		Operation time of the motor 2 minutes use and 18 minutes rest.
	Refer to instruction manual(IFU)		Legal manufacturer Direct Helathcare Group Sweden AB
	QuickTrolleySystem		Lot number
	Article number of the product		**Parking for end point charging**

Symbols for storage and transportation

REF	Article number of product	CE	Emergency stop
	Legal manufacturer Direct Helathcare Group Sweden AB	LOT	Lot number
MD	Medical Device Class I. The product complies with the requirements of the Medical Devices Regulation 2017/745		Keep away from rain
50°C -10°C	Temperature limit (-10 °C to 50 °C)	75°C 30°C	Humidity limitation (30% to 75%)
	Atmospheric pressure limitation (*700hPa to 1060hPa)		Visual inspection

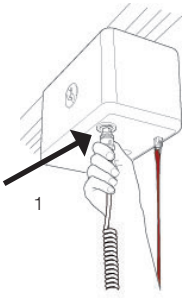
Symbols on the product

	Battery status		Emergency stop
	The lift unit requires service or maintenance		Night light
	Read user manual		Warning sign

Hand control

Connection of hand control to lift unit

The outlet for the hand control is under if the lift unit, fig 1. Connect the hand control firmly.



1

Raising/lowering

The buttons with the black arrows raise and lower the lift strap. Raising/lowering is interrupted as soon as pressure on the buttons is released, fig 2. The lift unit can also be activated with the buttons for raising/lowering.

ON/OFF via hand control

The hand control is equipped with a green button (ON) to activate the lift unit and a button (OFF) to shut it off. The lift unit automatically shuts off after 15 minutes of inactivity. Normally, the lift can be activated via the green (ON) button before use.

2

Night light

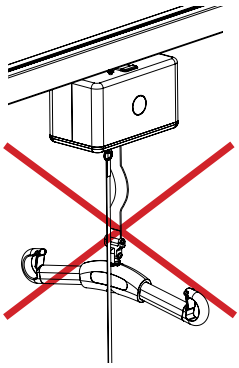
RiseAtlas is equipped with night lighting, which will be activated by pressing and holding the ON button on the hand control for 3 seconds. The LED lamp lights for 15 minutes if it is not inactivated via the OFF button on the hand control.

Activate/start the lift unit

The lift unit is activated by pressing the green button (ON) or the Up- or Down-button on the hand control. When this is done the battery symbol on the lift unit´s information display is lit for 2 seconds, showing the current battery status. If the battery symbol does not light and the lift unit is not activated, check that the emergency stop is not activated (pulled out).

Active safety

RiseAtlas has a built-in slack strap switch requiring that, in order to be manoeuvered up or down, RiseAtlas must be loaded with at least 2 kg or its own weight. This is a safety feature that prevents a slack lift strap from being winded in or out from the lift unit causing a short fall when next in use.



RiseAtlas automatically stops if the lift strap is unloaded, for example if it is lowered onto a table.e.g., when the sling bar is lowered to a bed. If this happens, the lift strap must be manually stretched in order to be manoeuvered up or down.

If the lift strap is twisted when lifting upwards, the lift unit automatically stops and can only be manoeuvred down. In order to save battery the lift unit automatically turns off after 15 minutes of inactivity.

Tension release

When the top limit switch has been activated it will reverse the strap 5 mm to clear the pressure from the switch. This action will take place after the up button has been deactivated.

Information panel

On the control panel at the bottom of the lift unit there are several symbols. The symbols lights up when a function is activated. More information on each function is given below, and under chapter Trouble-shooting.

Battery status

Battery status is indicated after 6 seconds when a lift unit with end point charging is activated, and for 15 minutes if the in-rail charging option is used.

Service/maintenance

Information concerning service and maintenance. This symbol is activated once the lift unit has been used for 12 months.

Read user manual

Often, the book symbol will light up at the same time as another symbol lights up, indicating that the user should read the user manual before using the lift unit again.

Night light

RiseAtlas is equipped with night lighting, which will be activated by pressing and holding the ON button on the hand control for 3 seconds. The LED lamp lights for 15 minutes if it is not inactivated via the OFF button on the hand control.

Warning

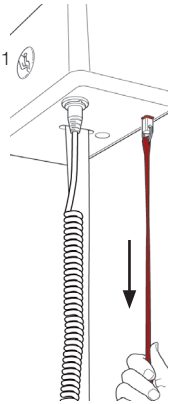
The warning triangle is activated, prompting the user to read the user manual. Often, the warning triangle will light up at the same time as another symbol lights up, indicating that the user should read the user manual before using the lift unit again. Normally, a technician must be contacted when this symbol is activated.

Emergency stop - to activate the emergency stop pull the emergency stop strap. once and release.

Preventative service/maintenance

The symbol for service/maintenance lights up automatically when the lift unit has been used for 12 months. Contact an authorized Direct Healthcare Group service technician for maintenance and resetting.

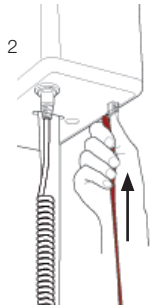
Emergency stop



To activate emergency stop funktion: Pull the red emergency stop strap firmly, fig 1, and then release.
To reset: Push the plastic button that holds the red strap in place upward until it clicks, see fig 2.
When the emergency stop funtion is activated, a red indication is visible, fig 1, above emergency stop strap and its white plastic button.

> **If the emergency stop strap is held down constantly, electrical emergency lowering will be activated. When the strap is released, the lift will stop.**

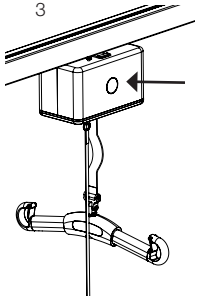
Electrical emergency lowering



If the hand control is not functioning, electrical emergency lowering can be activated by holding the emergency stop strap down, fig 1. Lower the user to a safe height and location.

> **Electrical emergency lowering may only be used if the hand control is malfunctioning.**

The electrical emergency lowering device feeds out the lift strap for as long as the emergency stop strap is held down. Ensure that the lowering motion is activated. Otherwise, electrical emergency lowering must be stopped. Always ensure that emergency lowering is done in an appropriate location.



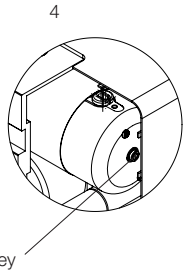
To reset: Press the plastic button that holds the red strap in place upward until it clicks, see fig 2.

Manual emergency lowering/raising

Remove the plastic cover on the same side as the emergency stop strap, fig 3. On the inside of the cover there is an Allen key. Place the supplied Allen key in the hole as indicated, fig 4. Turn it counter-clockwise to lower and clockwise to raise the sling bar. Always ensure that emergency lowering is done in an appropriate location.

NOTE! Lowering is very slow.

Re-setting manual emergency lowering/raising: Contact an authorized Direct Healthcare Group service technician. Do not use the lift unit.



Trouble-shooting

If lifting motion cannot be activated, check to ensure:

- that the emergency stop is not activated; on certain models, the emergency stop symbol lights up;
- that the lift unit is switched on (ON) via the hand control (a signal is heard);
- that the hand control is properly connected and pressed in securely; disconnect, and then replace it and press it in securely;
- that the lift unit is not in the charging position; the lift unit is blocked for use when it is in the charging position;
- that the battery is charged;
- that the charger has a power supply; the charging lamp on the charger unit should light up when the lift unit is placed in the charging position;
- that load is applied to the lift strap.

If the lift unit is not working properly, contact your Direct Healthcare Group dealer.

If the lift cannot be run all the way up to stop, check to ensure:

- that the overload symbol is not activated;
- that the battery symbol does not indicate low battery charge level.

If the lift cannot be run down, check to ensure:

- that load is applied to the lift strap;
- that the battery symbol does not indicate low battery charge level;
- that the directional indicators on the buttons, arrow up and arrow down, are correct.

If unusual sounds are heard:

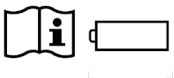
- try to locate the source of the sound. Take the lift unit out of service and contact your Direct Healthcare Group dealer.

Symbol indication

The symbol indicates that the lift unit must be inspected. Contact your dealer.
The symbol lights up after 6-12 months.

Indicates battery charge status.

Emergency lowering battery
Light up when accessory with 9V battery are connected and the power in the 9v battery is low (need to be changed). Both symbols will light amber. Sound should indicate (pip) every minute.



In-rail charging
When book symbol light and the battery symbol flashes the charging function is not functioning. No contact with the charger.

Warning symbol

Accessories

QuickTrolley625, article no.: 70200063
QuickTrolley625-90, article no.: 70200064
Cover to charger, article no.: 50400066
In-rail/end point charging, article no.: 70200062
9V battery and cable, article no.: 70200047
Parking Placard, article no.: 50400048

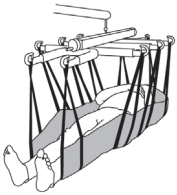
Lifting slings

Direct Healthcare Group's SystemRoMedic™ line includes a wide range of functional and comfortable, high-quality lifting slings that are adapted for all types of lifting and for users with different needs. The lifting slings are available in several materials and in sizes ranging from XXS to XXL. There are also special lifting sling models in XXXL and XXXXL for extremely large and heavy users. All models are safe and very easy to use.

Sling bars

SlingBar is a two-point aluminium sling bar available in three variants with different width. All variants of SlingBar have safety latches which prevent the sling straps from creeping out of the sling bar and all variants are for users weighing up to 300 kg/660 lbs.
To get more room in a lifting sling when using SlingBar two-point sling bar, SlingBarSpreader M side bars can be used as an accessory. SlingBarSpreader M open up the lifting sling and provide for a more reclined position.

SlingBar XS, (250 mm) article no.:70200071
SlingBar S, (350 mm) article no.: 70200001
SlingBar M, (450 mm) article no.: 70200002
SlingBar L, (600 mm) article no.: 70200003
SlingBarSpreader M, article no.: 70200042
BariBar, article no.: 70200072
StretcherBar, article no.: 70200006, and StretcherSling, article no.: 46502007, for lifting in a supine position.
Sling bar RFL X4, four-point sling bar, Article no.: 70200017



Scales

Direct Healthcare Group's SystemRoMedic™ scales Charder MHS2500 are used together with stationary or mobile lifts for weighing of users.
Article no.: 70100002 (300 kg/661 lbs)
Article no.: 70100003 (400 kg/881 lbs)

Assistive devices for positioning

Direct Healthcare Group's SystemRoMedic™ line includes a wide range of functional, comfortable, high-quality assistive devices for positioning that can be adapted for different types of lifting and for users with different needs.

Electromagnetic Compatibility (EMC)

Electromagnetic emissions and test levels

The product is intended to be used in the stated environments with electromagnetic levels as specified below. The caregiver and/or user of the product assure that the product is used in such an environment.

Emission test	Standards	Compliance
RF emissions	CISPR 11	Group 1
RF emissions	CISPR 11	Class B
Hamonic current emissions	IEC 61000-3-2	Class A
Voltage fluctuations and Flicker emissions	IEC 61000-3-3	Complies

Electromagnetic Immunity

Acceptance criteria for the EMC pass criteria is unintentional movement above ±10mm is not allowed. The product is intended to be used in the stated environments with electromagnetic levels as specified below. The caregiver and/or user of the product assure that the product is used in such an environment.
Acceptance criteria for the EMC pass criteria is unintentional movement above ±10mm is not allowed. The product is intended to be used in the stated environments with electromagnetic levels as specified below. The caregiver and/or user of the product assure that the product is used in such an environment.

Radiated Fields in close proximity, Immunity test and compliance. Standard: IEC 61000-4-39			
Dwell time: 3 sec			
Test levels (A/m)	Modulation Pulse modulation	Mod. Frequency (kHz)	Test Frequency
8	CW	CW	30 kHz
65	50% Duty cycle	2.1	134.2 kHz
7.5	50% Duty cycle	50	13.56 MHz

Immunity test	Basic EMC standard or test method	IEC 60601-1-2 Edition 4 Test levels and compliance	
		Professional healthcare facility environment	Home healthcare environment
Surge	IEC 61000-4-5	± 0.5 kV, ± 1 kV	
Voltage dips	IEC 61000-4-11	0% U_T; 0.5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°	
		0% U_T; 1 cycle and 70% U_T; 25/30 cycles. Single phase: at 0°	
Voltage Interruptions	IEC 61000-4-11	0% U_T ; 250 / 300 cycle	
Conducted disturbances induced by RF fields	IEC 61000-4-6	6V in ISM bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz	6V in ISM and amateur bands between 0.15 MHz and 80 MHz 80% AM at 1 kHz
		Dwell time: 3 sec Frequency step size: 1%	
Radiated RF Electromagnetic fields	IEC 61000-4-3	3 V/m 80 MHz – 2.7 GHz 80% AM at 1 kHz	10 V/m 80 MHz – 2.7 GHz 80% AM at 1 kHz
		Dwell time: 3 sec Frequency step size: 1%	
Electrical fast transients / burst	IEC 61000-4-4	± 2 kV 100 kHz repetition frequency	
RATED Power frequency magnetic field	IEC 61000-4-8	30 A/m 50 Hz or 60Hz	
Electrostatic Discharge (ESD)	IEC 61000-4-2	Contact: ± 8 kV Air: ± 2 kV, ±4 kV, ± 8 kV, ± 15 kV Number of discharges: 10 for each polarity	

Radiated Radio – Frequency, Proximity fields from wireless communication equipment & compliance. (Dwell time: 3 sec.) Standard: IEC 61000-4-3					
	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Immunity test levels (V/m)
Spot Frequencies	385	380 to 390	TETRA 400	Pulse modulation 18 Hz	27
	450	430 to 470	FMRS 460, FRS 460	FM ± 5 kHz Deviation 1 kHz sine	28
	710	704 to 787	LTE Band 13, 17	Pulse modulation 217 Hz	9
	745				
	780				
	810	800 to 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	28
	870				
	930				
	1720	1700 to 1990	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 217 Hz	28
	1845				
	1970				
	2450	2400 to 2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	28
	5240	5100 to 5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	9
	5500				
	5785				
Other Identified frequencies	433	-	-	Pulse modulation 2 Hz	3
	-	860-960	-	Pulse modulation 2 Hz	54
	2450	-	-	Pulse modulation 2 Hz	54

Technical information (50100057)

Lifting speed with load:	with load 3.9 cm/sec or 1.5 inch/sec
Lifting Speed without load	5 cm/sec or 2 inch/sec
Batteries:	24 VDC (20st 1.2 VDC) 3.2 Ah. NiMH 20xA3200
Battery package (weight)	1.225 kg
Battery package (Temperature)	Charge: Standard 0°C to +45°C Charge: Rapid: 0°C to +45°C Charge: Discharge -20°C to +50°C Charge: Storage -20°C to +40°C
Charger:	Mascot type 3546 NiMH (20 cell)
Charger input:	90-264 VAC, 50-60Hz
Charge output:	34V (0.35A)
Charger temperature range	-20°C to +40°C
Charger Insulation class	Class II
Charger dimensions and weight	123.5 x 49.5 x 37 mm and 220 grams
Ceiling Lift's Motor	24 VDC
Motor cover	Flame resistant, ABS plastic
Sound level unloaded	55 dB
Sound level loaded	57 dB (Max load)
Hand Controller	Electronic
Emergency lowering	Manual and Electrical
Lifting range (Strap , H adapter, Sling bar)	240 cm or 94.5" or 2400mm (Length of strap from Ceiling lift to H Adaptor and Sling bar)
Effective lifting range	220 cm or 86.6" or 2200mm
Ceiling lift weight	7.2 kg or 15.9 lbs
Ceiling lift dimensions	266 x 151 x 156 mm or 10.5" x 5.9" x 6.1"
IP rating, Ceiling lift unit	IP 20
IP rating, Charger	IP 4X
IP rating, Hand controller	IP XX (for RiseAtlas 450M and for Rise Atlas 625M)
IP rating, Hand controller	IPX4 (for RiseAtlas 450HH)
Intermittent operation	Operation 10/90. Active op. max 2 mins. Out of a time 100, active time must be less than 10, though not more than 2 mins per lift
Intermittent operation	Active 2 mins, Rest 18 mins per lift
Expected service life	10 years
Pressure hand control	4N
Safe working load	RiseAtlas 450HH: 205kg / 450 lbs. Rise Atlas 450M : 205kg / 450 lbs. Rise Atlas 625M : 285kg / 625 lbs.

Serial number

Box label image

Product label image

Maintenance

The Rise Atlas Ceiling lift series must undergo thorough inspection at least once per year. Inspection must be performed by authorized personnel and in accordance with Direct Healthcare Group's service manual.

Repairs and maintenance may only be done by authorized personnel using original spare parts.

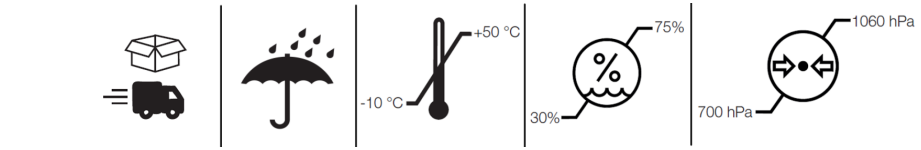
Used batteries are to be left at the nearest recycling station. Used batteries can also be returned to Direct Healthcare Group or a Direct Healthcare Group dealer for recycling.

Cleaning /disinfection

- If necessary, clean the lift enclosure with damp cloth or disinfectant wet wipes only (avoid using damp cloth or wet wipes on the bottom LED panel and Hand controller).
- If disinfection is needed, 70% ethanol, 45% isopropanol or similar should be used.
- Check that the trolley wheels and rails are free from dirt or any obstruction.
- Check trolley wheels, so that they rotate freely.
- Do not use cleaning agents containing phenol or chlorine, as this could damage the aluminium, steel and plastic material.

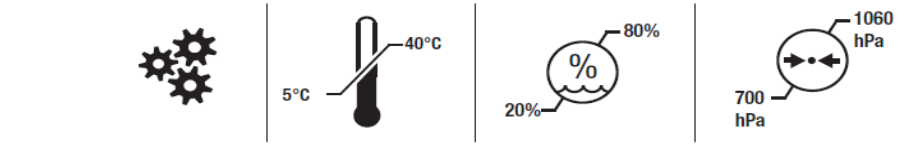
Storage and Transportation

- If the lift is not to be used for some time or e.g., during transport, we recommend that the emergency stop button be pressed in.
- The lift should be transported and stored in -10°C to + 50°C and in normal humidity, 30% -75 % non-condensing. The air pressure should be between 700 hPa and 1060 hPa. And keep away from rain.
- The lift should not be stored so that it is exposed to dust, or so that the battery is exposed to direct sunlight.
- Let the lift reach room temperature before the batteries are charged or the lift is used. See also Technical Information below, and marked on the device. Leftmost symbol indicates storage and transportation.



Operation

The operating environment should be 5°C to 40°C, relative humidity 20% to 80% non-condensing, and atmospheric pressure 700 to 1060 hPa. See also Technical Information below, and marked on the device. Leftmost symbol indicates operating condition.

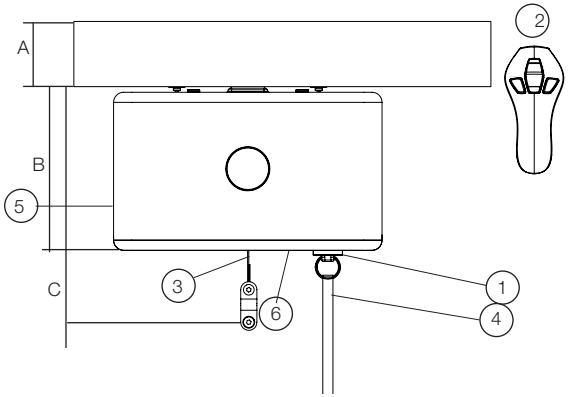


Service Agreements

Direct Healthcare Group offers service agreements for maintenance and regular testing of your lift unit. Contact your local Direct Healthcare Group representative

Detailed description

Article no.: 50100057

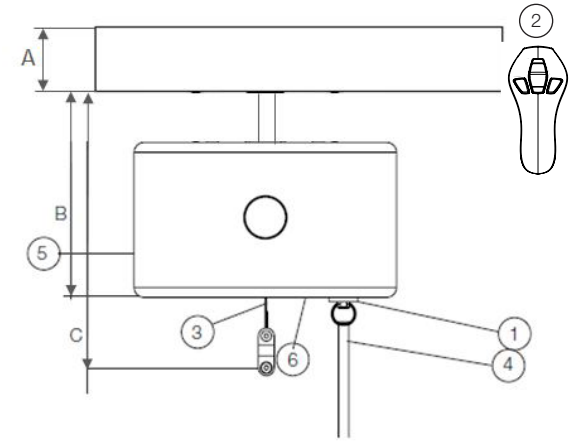


1. Outlet for hand control
2. Hand control
3. Lift strap
4. Emergency stop and electrical emergency lowering
5. Manual emergency lowering/raising (inside cover)
6. Control panel

A. Rail 64-160 mm/2,5-6,2 inch
B. Lift unit overall height 170 mm/6,7 inch
C. Installation height 230 mm/9 inch

Installation height on SlingBar M,
337 mm/13,3 inch

Article no.: 50100051



1. Outlet for hand control
2. Hand control
3. Lift strap
4. Emergency stop and electrical emergency lowering
5. Manual emergency lowering/raising ((inside cover)
6. Control panel

A. Rail 64-160 cm/2,5-6,2 inch
B. Lift unit overall height 230 cm/9 inch
C. Installation height 300 cm/11,8 inch

Installation height on SlingBar M,
397 mm/15,6 inch

SystemRoMedic®

Simple solutions for great results

SystemRoMedic® is the name of Direct Healthcare Group's unique easy transfer concept, the market's widest and most comprehensive range of clever, easy-to-use and safe transfer and lifting aids designed to make life easier, both for the user and for the caregiver. SystemRoMedic® is a complete solution that provides for the majority of patient transfer or manual handling requirements. From the simplest to the most complex scenarios, from the lightest to the heaviest. The concept encompasses assistive devices for four different categories of transfers:

- Transfer, assistive devices for manual transfers of users between two locations.
- Positioning, assistive devices for manual repositioning of users within the same location.
- Support, assistive devices for mobility support e.g., during sit-to-stand or gait training.
- Lifting, assistive devices for manual and mechanical lifting of users.

Improved work environment, improved quality of care and cost savings

The philosophy behind SystemRoMedic® is focused on the prevention and reduction of occupational injuries while allowing users to experience a greater sense of independence and dignity. Through a unique combination of training and a complete range of efficient transfer aids, SystemRoMedic® offers improvement of both work environment and quality of care and, at the same time, achieves significant cost savings.

Always make sure that you have the correct version of the manual

The most recent version of all manuals are available for downloading at/from our website;
www.directhealthcaregroup.com

For questions about the product and its use

Please contact your local Direct Healthcare Group and SystemRoMedic® representative. A complete list of all our partners with their contact details can be found on our website; www.directhealthcaregroup.com.

DHG
Moving Health Forward

Direct Healthcare Group Sverige AB
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CE Medical Device Class I

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