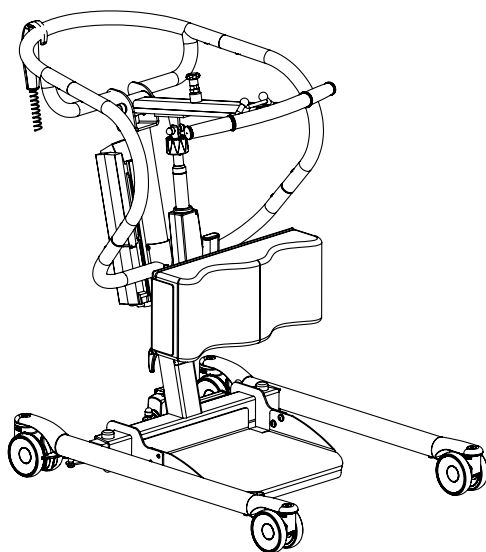


MiniLift160EE/MiniLift160EM

SystemRoMedic™



User Manual - English



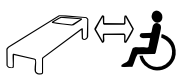
REF

60300010

60300011

60300012

60300013



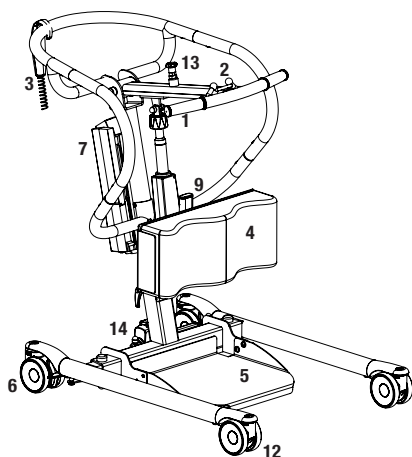
SWL: 160 kg/350 lbs

Table of contents

- Description	3
- Functional inspection, Always read the manual	3
- Assembly of MiniLift160	4
- Final inspection	5
Using the product	6-11
- Important information	6
- Safe working load	6
- Charging batteries	7
- Hand controll	8
- Emergency stop	8
- Emergency lowering	8
- Instructions for use	8
- Using MiniLift160	9-10
- Trouble-shooting	11
Accessories	12
Maintenance	13
Symbols	14
Technical information	15
- Dimensions	16

MiniLift160EE/MiniLift160EM

SystemRoMedic™



1. Lift arm
2. Hooks for lift vest/sling
3. Hand control
4. Leg support
5. Footplate
6. Rear castors with brakes
7. Battery
8. Emergency stop
9. Adjustment of leg support
10. Electrical emergency lowering
11. Charging lamp
12. Front castors
13. Locking mechanism for adjustment of lift arm
14. Base-width adjustment

MiniLift160 is a mobile sit-to-stand lift which has been developed to, as gently as possible, assist the user when rising from a sitting to a standing position. When MiniLift160 is combined with the appropriate lifting accessories, the user gets support under the feet, for the front of the lower legs and behind the back, which provides for a safe and secure sit-to-stand procedure. The construction safely moves the user forwards and upwards in a natural movement pattern and, at the same time, the leg muscles and balance is exercised. MiniLift160 is available in four variants with electrical (EE) or manual (EM) base widening and with standard height or low legs for use with lower beds. All variants are manufactured in steel for stability and strength and are suitable for users weighing up to 160 kg/350 lbs.



Functional inspection

Visual inspection

Inspect lift functions regularly. Check to ensure that material is free from damage.

Before use

Ensure that the product is correctly assembled.

Check sling bar connection and safety latch function.

Check lift and base-width movement.

Check to ensure that the actuator is correctly installed.



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.

The lift may only be used by persons who have received instruction in the operation of the lift.

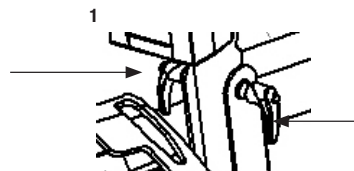
Assembly of MiniLift160

Check to ensure that all components are included:

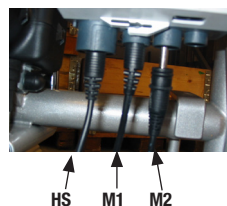
Lift unit, control box and battery pack, undercarriage, footplate, leg support, hand control and cord, user manual and charger.

The lift is collapsed when delivered. Set up the lift, according to the following instructions (no tools required):

1. Lock castor brakes.
2. Place the mast in the base
3. Mount the locking handles at the base of the mast.
4. Tighten locking handle (1).
5. Check all mounting fixtures and locking handles.
6. Deactivate the emergency stop button and perform a final inspection (see Final inspection).



Connect cables: Hand control cord in HS, cable to lift unit on mast in outlet M1.



To collapse the lift, follow the instructions below.

1. Lock castor brakes.
2. Change the base width pedal to horizontal.
3. Remove legsupport and footplate.
4. Run the lift arm to the lowest position, and then activate in the emergency stop button.
5. Push the lift arm in as far as possible.
6. Loosen the locking handle at the base of the mast (1). You need not remove the locking handle.
7. Lift up on the mast and lower it towards the undercarriage.

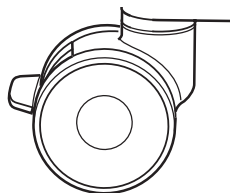


Warning, risk of pinching (between base and mast)

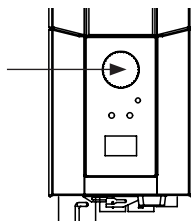
8. Pull the mast back and tighten the locking handle (1).

Final inspection

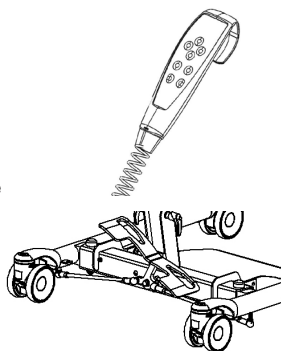
Check to ensure that no parts have been left in the packaging.
Inspect the lift for signs of wear and damage.
Check all four castor wheels and castor wheel locks.
Check all connections and fixtures including screws and bolts.



Check the emergency stop function by activating the emergency stop button, and then pressing either the up or down button. If nothing happens when the up or down buttons are pressed, the emergency stop is functioning properly.



Grasp the hand control, press the up button and run the lift arm all the way up. Then, press the down button and run the lift arm all the way down.
Test base-width adjustment function (MiniLift160EE).
Press the button for base-width adjustment to widen the base fully, and then press the other button to narrow the base again.



Test lift function by lifting a person (not a user) using an approved sling. At the same time, check the emergency lowering function with someone on the lift. See section on Emergency lowering.

EM



If the lift is functioning correctly, connect the charger and check to ensure that the charging lamp on the control box lights up.

NOTE!


Before the lift is used for the first time, it must be charged for at least 4 hours. See section on charging batteries.

Keep the user manual where it is accessible to users of the product.

Using the product

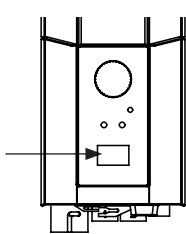


Important Information

- The lift must be assembled according to the assembly instructions provided with the lift.
- The lift may only be used indoors and on a level floor.
- Lifting accessories must be properly fitted and tested in relation to the user's needs and functional ability.
- Do not leave the user unattended during a transfer situation.
- Under no circumstances may max. load be exceeded. See section on Safe working load.
- The lift arm must be loaded throughout the entire lowering procedure to ensure a soft and smooth experience.
- Ensure that the user's feet do not get caught between the footplate and the floor. Ensure that the user's feet do not get caught between the footplate and the base when adjusting the base width.
- MiniLift160 is not intended for transporting users. It may only be used for short transfers.
- Never move the lift by pulling on the actuator! 
- The lift must not be used or immersed in or under water including showering.
- The lift should not be left / stored in a high humidity environment.
- The lift must not be charged in a wet room.
- To ensure optimal function, the lift must be inspected regularly. See section on Maintenance.
- Warranty applies only if repairs or alterations are done by an authorized technician.
- Using lifting accessories other than those approved by Handicare can entail a risk.

Safe working load

Different products on the same lift system (lift unit, sling bar, sling, scales and other lifting accessories) may have different allowable 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 and accessories before use. Contact your dealer if you have any questions.



Charging batteries

A tone sounding when using the lift indicates that the battery needs recharging.

Charge the lift after use to ensure that the battery is always fully charged.

Lock the castor wheels when charging the battery.

1. Connect the charging cable to a power outlet.
2. Check to ensure that the lamps on the control box light up. The green LED lamp indicates that the charger is receiving power and the yellow LED lamp indicates that the battery is charging.
3. Charging stops automatically when the battery is fully charged.



Wall-mounted charger.

1. Remove the battery pack from the lift and place it in the wall-mounted charger.
2. Check to ensure that the LED lamp on the front of the charger lights up.

NOTE!

Before the lift is used for the first time, it must be charged for at least 4 hours.

For maximum battery life, charge batteries regularly. We recommend daily charging when the lift is used daily.

The emergency stop must be deactivated during charging.

Battery information on the display

The battery discharging will be shown in four stages:

Battery state 1: The battery is ok, no need for charging (100 - 50 %).

Battery state 2: Battery needs charging. (50 - 25 %)

Battery state 3: Battery needs charging. (Less than 25 %) A tone sounds when a button is pressed in this battery state.

Battery state 4: The battery needs charging (17V or lower). At this stage some of the functionality of the lift is lost. At this battery stage it is only possible to drive the lifting arm down. Furthermore an audio signal will sound when a control button is activated. The symbol will switch between the two pictures for 10 seconds.

The battery symbol is shown when the box is active until power down (2 minutes after use).

It is not possible to use other battery types than BAJ1/BAJ2.

The battery level is measured via voltage level. This means that it is possible to experience e.g. that the battery switches from state 1 to state 2 and back to state 1.



↑	12034
A•S	1257000
1g/Rx	7
STRENGTH	90/360

Service information read-out

Basic service information can be read out on the display. To get the service information on the display please press the lifting arm up button for half a second. The information will be shown for ½ minute or until other buttons are activated.

- Total cycles done
- Total work done
- Total number of overloads
- Days since last service/Days between services

Hand control

Raising/lowering the lift arm

Symbol indicate direction of travel.

Motion stops as soon as the button is released.

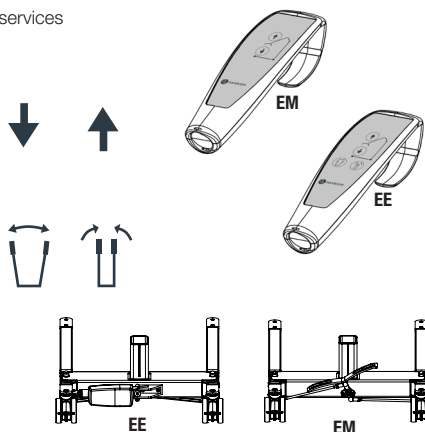
Electrical base-width adjustment (EE)

Markings on the buttons of the hand control indicate function.

Motion stops as soon as the buttons are released.

Manual base-width adjustment (EM)

Push down on the respective pedals at the back of the lift to widen and narrow the base.



STOP Emergency stop

To activate emergency stop

Activate the red emergency stop button on the control box.

Resetting

Turn the button in the direction of the arrows until the button pops out.

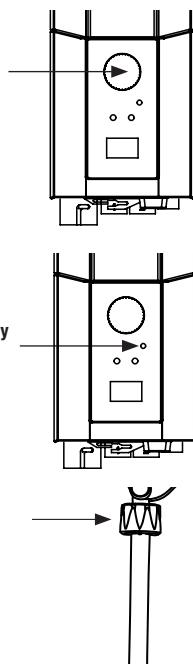
Emergency lowering

Electrical emergency lowering

For electrical emergency lowering, use the down button on the control box.

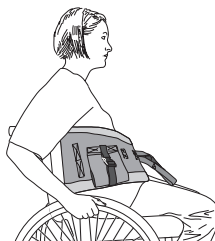
Mechanical emergency lowering

For manual emergency lowering, turn the round plastic knob on the actuator clockwise.

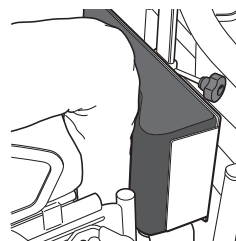
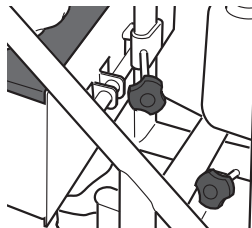


Using MiniLift160

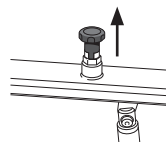
Place an appropriately sized ThoraxSling behind and below the user's hips, (see user manual for ThoraxSling).



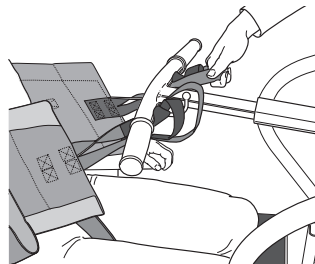
When the user has placed /his/her feet on the footplate, move the lift forward towards the user. Place the lift as close as possible to the user. Take care to ensure that the user's shins are resting securely against the leg support, and then adjust the leg support so that it does not press against the user's kneecaps (about 2 cm lower).



Raise the locking handle on the lift arm and pull the lift arm out as far as possible towards the user.

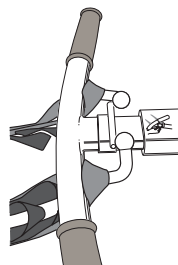
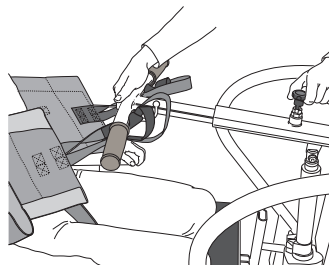


Select the sling loop that reaches the hook on the boom (shortest loop alternative). Hook the lift loops to the underside of the sling bar.

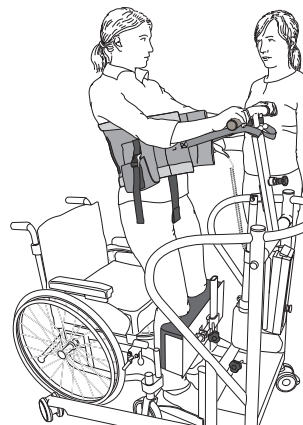


Using MiniLift160

Raise the locking handle and draw the boom back, so that the lift straps on the sling are stretched, and then lower the locking handle back into position.



Instruct the user to lean back and allow himself/herself to be supported behind the back during raising. Raise the lift to the desired height and ensure that the user is standing with both feet on the footplate and is grasping the sling bar handles with both hands to avoid being pinched between the slingbar and lift loops.



Helpful hint:

Use a longer loop alternative for short users and for users that cannot be fully raised.

Use a longer loop alternative for taller users, and pull the boom out to allow the user to rise to a standing position.

Trouble-shooting

If the lift adjustment cannot be activated, check the following:

- That the emergency stop button is not activated.
- That all cables are properly and securely connected. Pull out the contact and plug it in again firmly.
- That battery charging is not in progress.
- That the battery is charged.

If the lift is not working properly, contact your dealer.

If the lift makes unusual noises:

- Try to determine the source of the sound. Take the lift out of operation and contact your dealer.

Accessories

ThoraxSling, polyester, XS-XXL, article no.: 45500003-009

ThoraxSling, wipeable, S-XXL, article no.: 45500004-009



ThoraxSling, with seat support, polyester, S-XL, article no.: 45600004-008

ThoraxSling, with seat support, disposable, non-woven, S-XL,
article no.: 45690004-008



CalfStrap, article no.: 70200033



SlingBarWrap MiniLift, wipeable, article no.: 70200012



For MiniLift160EE, 60300012, 600300013

Hand control HB33-6, 6 buttons, with service, battery status and overload
indicators, article no.: 70200089



Maintenance

The lift must undergo thorough inspection at least once per year. Inspection must be performed by authorized personnel and in accordance with Handicare's service manual.

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



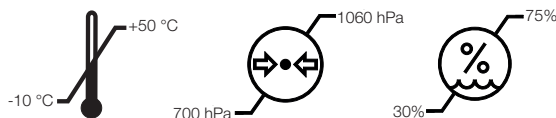
Spent batteries are to be left at the nearest recycling station. Spent batteries can also be returned to Handicare or a Handicare dealer for recycling.

Cleaning/disinfection

If necessary, clean the lift with warm water or a soap solution and check that the castors are free from dirt and hair. Do not use cleaning agents containing phenol or chlorine, as this could damage the aluminium and the plastic materials. If disinfection is needed, 70 % ethanol, 45 % isopropanol or similar should be used.

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 %. The air pressure should be between 700 and 1060 hPa. Let the lift reach room temperature before the batteries are charged or the lift is used.



Service agreements

Handicare offers the possibility of service agreements for maintenance and regular testing of your mobile lift. Contact your local Handicare representative.

Symbols

	Read user manual
	May not be discarded in domestic waste
	The product fulfills the demands stated in the MDD 93/42/EEC
	Type B, according to the degree of protection against electric shock.
	The device is intended for indoor use.
	Class II equipment
	Always Read The User Manual

EMC

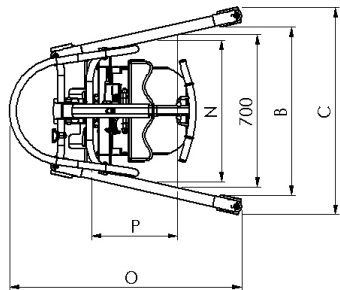
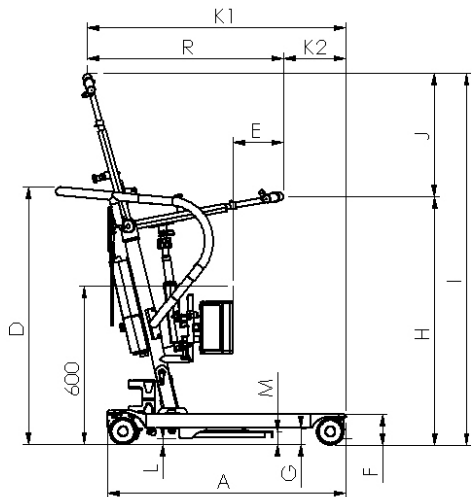
This equipment/system is intended for use by healthcare professionals only. This equipment/system may cause radio interference or may disrupt the operation of nearby equipment. It may be necessary to take mitigation measures, such as reorienting or relocating the equipment/system or shielding the location.

Technical Information

Lifting speed:	1.4" /s, 35 mm/s without load.
Batteries:	Two 12V, 2.9 Ah valve-regulated, sealed, lead accumulator (gel-type batteries)
Charger:	400 m A
Motor:	DC 24V, 5,5 Amp. IP X4. Operationtime: 10% at maximum continous operation of 2 minutes, maximum 5 cycles per minute. Push: 4 000N.
Sound level:	With load: upwards: 74.7 dB(A) downwards: 52.6 dB(A).
Material	Steel
Emergency lowering:	Manual and electrical
Castors:	Front 3.9", 100 mm, (Low legs 2.7", 70mm) , back 3.9", 100mm
Weight:	89.3 lbs, 40,5 kg
Turning diameter:	43,6", 1109 mm
IP class:	IP X4
Expected lifetime:	10 years
Operating forces buttons on hand controll:	4 N
Max. load:	160kg/350 lbs

Medical Device Class I. The product complies with the requirements of the Medical Devices Directive 93/42/EEC.

Dimensions



Tolerance +/- 0.2", 5 mm

Measurement

		EE/EM	EEL/EML
A	Length	36.2", 919 mm	
B	Width inside min. legspread	20.9", 531 mm	35.5" 902 mm
	Width indside max. legspread	30.4", 773 mm	
C	Width outside min. legspread	26.3", 669 mm	
	Width outside max. legspread	37.8", 959 mm	
D	Height	38.6", 980 mm	
E	Maximum reach at 600 mm (reference height)	7.4", 190 mm	
F	Height at base, rear	5.4", 138 mm	
	Height at base, front	4.8", 123 mm	2.5", 65 mm
G	Clearance at base	2.8", 73 mm	0.7", 20 mm
H	Lifting height min.	37", 940 mm	
I	Lifting height max.	55.3", 1405 mm	
J	Hoisting range	18.3", 466 mm	
K1	Min. distance from wall to CSP at max. Height (legs spread)	37.3", 949 mm	
	Minimum distance from wall to CSP at max. reach (legs spread)	8.1 ", 208 mm	
K2	Min. distance from wall to CSP at min. height (legs spread)	8.1 ", 208 mm	
L	Footplate, clearance	1.3", 35 mm	
M	Footplate, height	2.3", 59 mm	
N	Inside space between bars	25.5", 650 mm	
O	Overall length	43.2", 1098 mm	42.5", 1080mm
P	Reach from base with legs spread to 700 mm	15.6", 397 mm	
R	Max. reach from base	29.1", 741 mm	
	Weight loose parts (footplate)	8.3 lbs, 3,8 kg	
	Number of lifts per charge	20-25	
	Footplate, dimensions (W x D)	15.9 x 13.8", 406 x 352 mm	

Simple solutions for great results

SystemRoMedic™ is the name of Handicare'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.handicare.com.

For questions about the product and its use

Please contact your local Handicare and SystemRoMedic™ representative. A complete list of all our partners with their contact details can be found on our website; www.handicare.com.

Handicare offers solutions and support to increase the independence of disabled or elderly people as well as to improve the convenience of those who are caring for them.

The Handicare Group is one of the leading healthcare companies in Europe with its own manufacturing organizations and sales companies in Norway, Sweden, Denmark, Germany, the Netherlands, Great Britain, France, China, Canada and the USA. Handicare's products are also distributed by partners in more than 40 countries worldwide. Our wide range of high-quality products includes various manual and power wheelchairs, seating systems, scooters, a complete easy transfer system and other patient handling aids, stairlifts, car adaptations, rise and recline chairs, and bathing and toileting products.



Handicare AB
Maskinvägen 17
SE-972 54 Luleå, SWEDEN
Tel: +46 (0)8-557 62 200
Fax: +46 (0)8-557 62 299
E-mail: info@handicare.se
www.handicare.com