Safety information

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

Before use
Ensure that the product is correctly assembled.
Check slingbar 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 unit may only be used by persons who have received instruction in the operation of the lift unit.
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Assembly

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, 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. 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.

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.
- the control box service counter needs to be reset. To reset the service counters press both lift buttons on the hand control at the same time for 5 seconds. An audio signal will indicate that the timer has been reset.

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 trial 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.
- 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.
- MiniLift200 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.

Trouble-shooting

If the lift or base-width adjustment cannot be activated, check the following:
- That the emergency stop button is not pressed in.
- 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 unit is not working properly, contact your dealer.

If the lift unit makes unusual noises:
- Try to determine the source of the sound. Take the lift unit out of operation and contact your dealer.
**Exploded view - Base EM**

- **System RoMedic TM**

---

**REVISION HISTORY**

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Exploded view - Lifting arm

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### Exploded view - Leg Right

![Exploded view - Leg Right](image)

### Exploded view - Leg Left

![Exploded view - Leg Left](image)

### Parts List

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**SCALE PROJECTION**

**MATERIAL SPECIFICATION:**

- **A3**
- **2015-06-10**
- **3.67 g**

**TITLE:**

- **Left leg mounted ML200**

**STATUS:**

- **Released**

**WEIGHT:**

- **SHEET 1 OF 1**

**CREATED**

- **DATENAME**

**REV.DWG. NO.:**

- **1:5**

**REV. No.:**

- **hc-makn**

SystemRoMedic™
### Fotplatta

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### Underbenstöd

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<td>Locking handle knee pad set</td>
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<td>1 x Hoop 2 x Grip 2 x Screw 2 x Ball 2 x Plastic cap</td>
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Changing of spare parts

**80100045, -46, -47, -48,**
Connect the charger cable to the control box, and then plug it into a wall socket.

**80100049/ 80100050 Front/Rear castor kit 80mm**
Using an Allen key, remove the screw. Replace the castor, apply Loctite 2701 or similar, and then secure the castor with the screw.

**80100001, 80100002 Front/rear castor 100 mm**
Using an Allen key, remove the screw that holds the castor in place. Replace the castor, apply Loctite 2701 or similar, and then secure the castor with the screw.

**80100074 Bumper kit**
Remove the castors and remove the bumper. Install the new bumper and castors. Adjust direction of the lift by turning the bumper.

**80100040 Acuator legsreading LA28**
Run the actuator until the legs are drawn in fully. Activate emergency stop. Remove the foot plate and the cover by loosen the four screws. Disconnect the actuator from the control box. Loosen and remove the screw that holds the actuator. Remove the actuator. Remove the rubber cover on the actuator cord and move it to the new actuator. Install the new actuator, use the accompanying lock nut. Connect the actuator to the control box. Mount the cover and foot plate again.

**80100041 Actuator mast LA34**
Lower the lift arm to the lowest position. Activate the emergency stop. Disconnect the actuator from the control box. Loosen the nut and pull the screw out; then, loosen the screw and nut on the lower end of the actuator. Lift the lift arm and remove the actuator. Install the new actuator. Start by fitting the lower end, and then lift the lift arm and fit the upper end. Secure the actuator with the existing screws and the new, accompanying lock nuts. Connect the actuator to the control box.

**80100149 Control box CBJC MiniLift200**
Activate the emergency stop, and then disconnect the actuator and hand control. Remove the battery, loosen the long screw and remove the control box. Install the new control box and secure it with the screw. Replace the battery, and then connect the actuator and hand control.
80100161 Battery box CBJ Grey BAJ1
Remove the battery by lifting it straight up and out of the holder in the control box. Install the new battery in the holder. Note! The battery must be charged for at least four hours before it is used for the first time.

80100057 Battery CBJ
Remove the lift battery box and remove the screws. Disconnect the battery connectors and remove the batteries. Install the new batteries in the control box and connect the connectors. Place the cover on the box and secure it with the screws. Note! The battery box must be charged for at least four hours before it is used for the first time.

80100156 Hand control HB32-4
Activate the emergency stop, and then disconnect the hand control. Connect the new hand control.

80100130 Hand control tester Linak
Follow the accompanying instructions.

80100079 Footplate complete 200
Remove the old footplate and install the new one. Replace the screws with the ones included if needed.

80100080 Kneepad complete 200
Loosen the locking screw. Loosen the lower locking handle and pull the knee pad straight out to remove it. Insert the new knee pad in the tube and tighten the locking handle. Refit the locking screw.

80100070 Leg strap plate kit
Remove the screws on either side of the lower-leg support/knee pad. Replace the leg strap plate and secure it with the accompanying screws.

80100077 Locking handle knee pad set
Unscrew the old handle and install the new one.

80100081 Lift arm adjustment pin
Using a wrench, remove the screw that holds the adjustment pin in place on the lift arm. Apply Loctite 2701 or similar on the new adjustment pin and then secure it with the wrench.

80100082 Lift arm front part 200
Unscrew the locking screw on the bottom of the lifting arm. Pull the lift arm adjustment pin up and pull the handle out. Insert the new lift arm in the tube and replace and lift the spring screw to secure the lifting arm. Make sure the spring screw is clicking back into place. Apply Loctite 2701 or similar on the locking screw and screw it back on the bottom of the lift arm.
Periodic inspection - protocol

Lift type: 

s/n: 

Version: 

Prod. year: 

Sling bar id.: 

Contract no: 

Name: 

Address: 

Situation of use: Home Institution Other

Comments: 1. Attention 2. Correct 3. Do not use!

Base:

Check for visible damage

Check:

A Castor

B Brakes

C Screws

Upper part:

Inspect the mast

Check:

D Screws

E Lift arm hardware etc

F Lift arm adjustment pin

G Sling bar and the function of the safety latches

H Mast actuator

I Battery and cable installations

J Hand control

K Emergency stop

L Emergency lowering

M Charging

N Product label

Test of safe working load:

Safe working load test upper part

Safe working load test base

Mechanical emergency lowering

Accessories:

Documentation:

Instructions / manuals

Controll box:

Reset the control box service counter

Date:

Load test weight: 

Serviced by:

In accordance with ISO 10535:2006 Annex B-Periodic inspection
Description for periodic inspection
Periodic inspection - instruction

Base
- Check the base for visible damage to the surfaces, finish, etc.

Castors
- Roll the lift unit unloaded on the floor, check that the castors roll and turn freely.
- Check that the castor fasteners are tight.
- Check that the lift runs straight. If necessary, adjust the bumpers by loosening the screws slightly and turning the bumpers.

Brakes
- Lock the brakes. Check that the castors do not turn when the lift unit is pushed.
- Run the base width adjustment and listen for peculiar noise or vibrations.

Screws
- Check screws.

Upper part
- Check the mast for visible damage to the surfaces, finish etc.
- Check screws, nuts, bolts etc.

Footplate
- Check the footplate for visible damage to the surfaces, finish, etc. Make sure it is correctly assembled.

Liftarm, hardware
- Check the liftarm for visible damage to the surfaces, finish etc.
- Check screws, nuts, bolts etc.

Kneepad
- Check the kneepad for visible damage to the surfaces, finish, etc. Make sure it is correctly assembled.

Slingbar and safety latch function
- Check to ensure that there is no visible wear or damage.
- Check the function of the safety latches.

Mast actuator
- Verify that the upper and lower actuator fasteners to the mast are tight.
- Visual inspection.
- Check limit switch function by running the lift arm up/down.
- Check of abnormal noise level.
- Check safety spline on actuator by running it downwards and obstructing the movement by hand. The actuator should stop. It is necessary to run the lift slightly upwards before continuing the downward movement.

Battery and cable installations
- Check battery and electrical cable.
- Verify that all cables are properly inserted.

Hand control
- Verify that all functions on the hand control are working.
Emergency stop
- Verify that the lift unit does not operate when emergency stop is pressed in.

Electric emergency lowering
- Verify the function of emergency lowering. Use a narrow object such as a pen.

Charging
- Verify that charging is operating. Yellow lamp on the control box should light up when charging.

Product label
- Check the serial number so that the label is there and readable. Note the serial number on the protocol.

Test loading
Test loading of MiniLift200 is done with 150 kg weight, which corresponds to a user weight of 200 kg.

Test loading with loose weights
NOTE! Both hooks must bear the weight. When one weight is used, the weight must be distributed over both hooks. Ensure that the weight pack is well clear of the actuator. Weights must be attached to the hooks as shown in picture.

Remove the lower-leg support and footrest before test loading; this allows more space for the weight that is to be lifted. NOTE! Replace the lower-leg support and footrest after test loading.

Move the lift arm to the outermost position and apply 150 kg.
- Run the actuator 160 mm up/down as shown in picture. The lift arm is loaded with 150 kg and placed in the outermost position. Listen for unusual sounds during raising/lowering.

Connector hooks
- Lift 150 kg clear of the floor and wait for 20 sec.
NOTE! Load the hooks according to picture.

The base is loaded with 200 kg.
- Place 200 kg on the footrest, within the frame for foot placement. Run the base-width adjustment in/out and listen for unusual sounds.

Mechanical emergency lowering
- Verify the function of emergency lowering. With the lift loaded, round plastic knob on the actuator clockwise.

Documentation
- Check that the manual is available and up-to-date.

Accessories
- Check the accessories to the lift unit.

To reset the service counters press both lift buttons on the hand control at the same time for 5 seconds. An audio signal will indicate that the timer has been reset.
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.

![Used batteries are to be left at the nearest recycling station. Used 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 hoist 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 hoist reach room temperature before the batteries are charged or the hoist 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 complies with the requirements of the Medical Devices Directive 93/42/EEC.
- Type B, according to the degree of protection against electric shock.
- The device is intended for indoor use.
- Class II equipment
- This product is tested and approved in regards to safety in the workplace according to the requirements of the US Occupational Safety & Health Administration. "US" stands for compliance with the requirements of US authorities, "C" for compliance with Canadian requirements.
- Always Read The User Manual

Technical Information

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting speed</td>
<td>35 mm/s without load</td>
</tr>
<tr>
<td>Batteries</td>
<td>Two 12V, 2.9 Ah valve-regulated, sealed, lead accumulator (gel-type batteries)</td>
</tr>
<tr>
<td>Charger</td>
<td>Max. 400mA</td>
</tr>
<tr>
<td>Motor (mast)</td>
<td>DC 24 V, 10.5 Ah. Operating time: 10% maximum continuous operation for 2 minutes Push: 7500N</td>
</tr>
<tr>
<td>Motor (base)</td>
<td>DC 24 V, 12.3 Ah. Operating time: 10% maximum continuous operation for 2 minutes Push: 2000N</td>
</tr>
<tr>
<td>Sound level</td>
<td>55.8 dB(A)</td>
</tr>
<tr>
<td>Material</td>
<td>Steel</td>
</tr>
<tr>
<td>Emergency lowering</td>
<td>Manual and electrical</td>
</tr>
<tr>
<td>Castors</td>
<td>Front 3.9&quot;, 100 mm, back 3.9&quot;, 100 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>49 kg/108 lbs</td>
</tr>
<tr>
<td>IP class</td>
<td>IP X4</td>
</tr>
<tr>
<td>Expected lifetime</td>
<td>10 years</td>
</tr>
<tr>
<td>Operating forces buttons on hand control</td>
<td>4 N</td>
</tr>
<tr>
<td>Max. load</td>
<td>200 kg/ 441 lbs</td>
</tr>
</tbody>
</table>

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

All measurements are in mm/inch
Tolerance +/- 5 mm/0.2"

* Maximum reach at 600 mm (referens height)
* Reach from base with legs spread to 700 mm (referens)
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 a complete easy transfer system and other patient handling aids, stairlifts, car adaptations and bathing and toileting products.