

1. Boom
2. Mast
3. Handlebar
4. Battery pack
5. Emergency stop
6. Control box
7. Motor for base-width adjustment
8. Rear castors with brakes
9. SlingBar with safety latch
10. Front castors
11. Emergency lowering
12. Motor/actuator for boom
13. Mast height adjustment

Max. load: 205 kg / 450lbs

Mobile lift Eva450EE has been developed to meet most lifting needs in combination with the right accessories. It is a lift that can lift patients in a seated or supine position. The Eva 450EE is made largely of aluminium, which makes it relatively light, considering the weight it can lift.

RoMedic's lifts and slings are part of the SystemRoMedic concept, which takes a holistic approach to patient transfers. SystemRoMedic has four categories: transfer, repositioning, support and lifting.



Functional inspection

Visual inspection

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



Always read the instructions

Read instructions for all assistive devices used in connection with transfers.

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

Do not leave the patient unattended during a lifting situation.

Before use:

Make certain the lift is properly assembled.

Check Slingbar connection and safety latch function.

Check lifting function and base-width adjustment.

Under no circumstances may the lift be used by persons who have not received instruction in the operation of the lift.

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Technical information

Lifting speed:	34 mm/s without load.
Batteries:	Two 12V, 2.9 Ah valve-regulated, sealed, lead accumulator (gel-type batteries)
Charger:	Max. 400mA
Motor (mast):	DC 24 V, 10 A. IP X4. Operationtime: 10% at maximum continuous running of 2 minutes, maximum 5 switching cycles per minute. Push: 10 000N.
Motor (base):	24 V, 3 A, IP X4. Operationtime: 10% at maximum continuous operation of 2 minutes, maximum 5 cycles per minute. Push: 3000N.
Sound level:	With load: upwards: 74.7 dB(A) downwards: 52.6 dB(A). Operations force for the handset: 4 N.
Material:	Aluminum
Emergency lowering:	Mechanical and electrical
Castors:	Front 4", 100 mm, back 4", 100mm
Weight:	75 lbs, 34 kg
IP class:	IP X4
Expected lifetime:	10 years
Operating forces controls:	Buttons on hand control: 4 N

The lift have been tested by an accredited testing institute and complies with the requirements of Council Directive 93/42/EEC of 14. June 1993 concerning medical devices



The device is intended for indoor use.



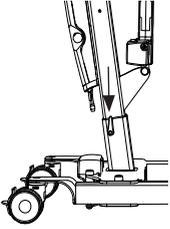
Type B, according to the degree of protection against electric shock.



Important Information

- The lift must be assembled according to the assembly instructions provided by RoMedic.
- The lift may only be used on a level floor.
- Lifting accessories must be properly fitted and tested in relation to the user's needs and functional ability.
- Under no circumstances may the safe working load be exceeded. See section on Technical information and the product label on the lift.
- Never move the lift by pulling on the actuator! 
- The lift must not be exposed to running water.
- Batteries control unit and actuators on the lift must not come in direct contact with water.
- Eva400EE must not be charged in a wet room or used in connection with showering and bathing.
- To ensure optimal function, the lift must be inspected regularly. See section on other maintenance details.
- Warranty applies only if repairs or alterations are made to the product by personnel who are authorized by RoMedic.

Assembly

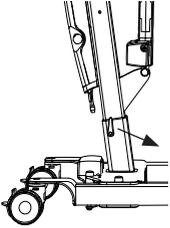


Check to ensure that all components are included:

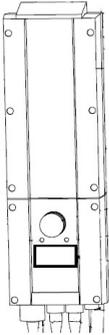
Mast with boom, lift motor, carry bar, control box and battery pack.

Base with motor and locking handle. Handset and cord.

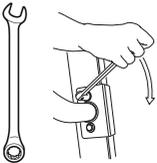
Instructions, charging cable and power supply cord for charging.



Place the mast in the base. There are three alternatives for adjusting the height of the mast. Secure the mast with the locking handle.



Place the battery in the mount in the control box.



Mount handlebar with two wrenches.



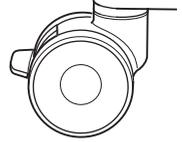
Connect the cables: The cable for the handset in outlet HS; the cable for the hoist motor in outlet M1, and the cable for the base motor in outlet M2.

Release the emergency stop and perform a final inspection (see final inspection).

HS M1 M2

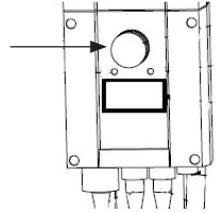
Final inspection

Inspect the lift for signs of wear and damage. Check all four castors and castor brakes.



Check all connections and fixtures including screws and bolts. Check the packaging to ensure that there are no loose parts.

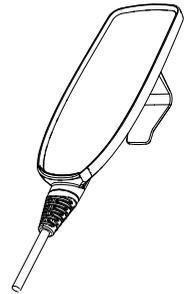
Check emergency stop function by depressing the emergency stop, and then pressing either the up or down button. If nothing happens when the up or down buttons are pressed, the emergency stop is functioning properly.



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 all the way down.

Test base-width adjustment function by pressing the button for base-width adjustment.

Widen the base to max. width and then press the other button to narrow it 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 in the lift, see section on Emergency lowering.

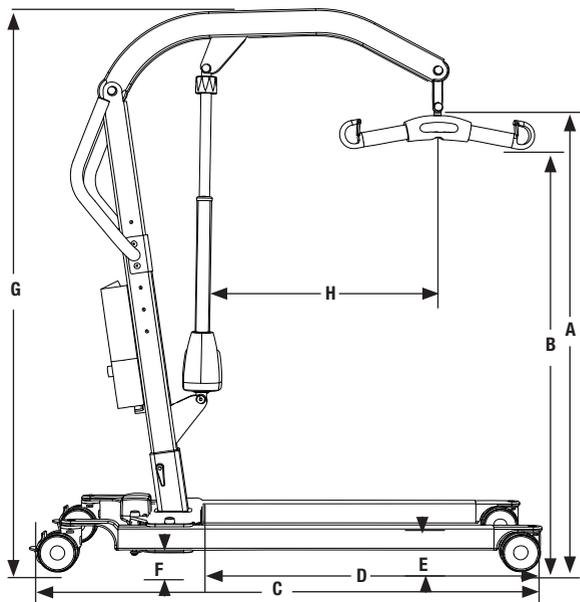
If the equipment is satisfactory upon inspection, connect the charger to the lift and to a power outlet, and then check to ensure that the charging lamp on the control box lights up.

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 manual where it is accessible to users of the product.

Dimensions Eva450EE

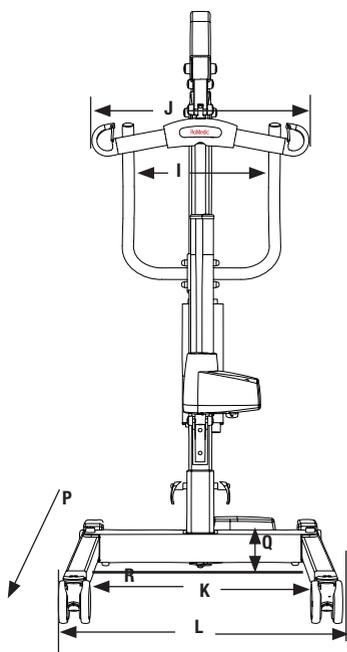


	A	B
A1	58-186	22.85-73.28
A2	63-191	24.82-75.25
A3	68-196	26.79-77.22
B1	50-169	19.70-66.59
B2	54-174	21.28-68.56
B3	59-179	23.25-70.53
C	130	51,22
D	8	34,67
E	11,5	4,53
F	6	2,36
G1	133-192	52.4-75.65
G2	138-197	54.37-77.62
G3	143-202	56.34-79.59
H	55	21.67

Column A measurement is in cm and weight is in kg.

Column B measurement is in inches and weight is in lbs.

Dimensions Eva450EE



Column A measurement is in cm and weight is in kg.
Column B measurement is in inches and weight is in lbs.

	A	B
I	44	17.34
J	45	17.73
K	58,5-88	23.05-34.67
L	68.5-98	26.99-38.61
M	134	54
N	34	74.9
O	14,5	31.9
Q	27	10.64
S	41	16,1
T	22	8,7
U	45	17,7

- M** is turning diameter
- N** is total weight of lift
- O** is the weight of the heaviest component
- P** is movement in forward direction
- R** is reference measure 70 cm with max legspreading
- S** is minimum distance from wall to slingbar at maximum height (legs spread).
- T** is minimum distance from wall to slingbar at maximum reach (legs spread).
- U** is minimum distance from wall to slingbar at minimum height (legs spread).

Charging batteries



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 hoist 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 button must be pulled out during charging.

Handset

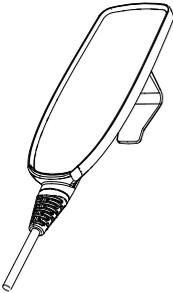
Manoeuvring

Raising/lower the boom:

Arrows indicate direction of travel. Motion stops as soon as the button is released.

Widening/narrowing the base:

Markings on the buttons indicate function. Motion stops as soon as the buttons are released.



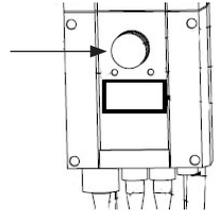
Emergency stop

To activate emergency stop:

Depress the red emergency stop button on the control box.

Resetting:

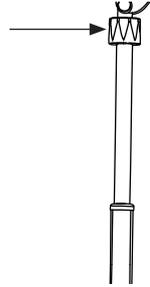
Turn the button in the direction of the arrows until the button pops out.



Emergency lowering

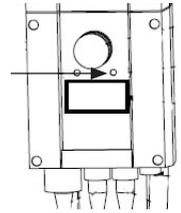
Manual emergency lowering:

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



Electrical emergency lowering:

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



Trouble-shooting

If the lift is not working properly (up or down), check the following:

- The emergency stop device is not pressed in.
- All cables are properly connected.
- The battery charges via the adaptor.

If the lift is not working properly, contact RoMedic.

The lift can be raised but not lowered (or vice versa), or the base-width adjustment only works in one direction. Check the following:

That all cables are properly and securely connected. Pull out the contact and plug it in again firmly.

If the lift is not working properly, contact RoMedic.

If the lift makes unusual noises:

Try to locate the source of the sound, take the lift out of operation and contact RoMedic.

Safe working load

Different products on the assembled lift system; ie. lift, slingbar, sling, scale, and other accesories may have different max loads.

It is always the lowest maximum allowable load indicated for the respective products on the system that applies for the entire system.

Always check the markings on all products in the unit and contact RoMedic with any questions.

Other maintenance details:

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

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



Old batteries are to be left at the nearest recycling station or given to personnel authorized by RoMedic.

Cleaning/disinfection

When necessary, clean the lift with warm water or rubbing alcohol and ensure that the castors are free of dirt and hair. Do not use cleaning agents containing phenol or chlorine, as this may damage aluminum and polyamide materials.

Storage

If the lift is not to be used for some time or e.g., when transporting, we recommend the emergency stop button to be pushed in. Store the lift at a temperature exceeding freezing and at normal relative humidity (about 60%).

Service agreements

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

Accessories

Slings

The RoMedic Slings are available in different fabrics and several sling models. The choice of model and material is determined by the patient's functional capacity and the situations in which the product will be used.

For slings and other lifting accessories, see RoMedic's user manual for slings.



Slingbars:

SlingBar S (13.8 inch/350mm)

SlingBar M (17.7 inch/450mm)

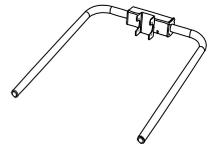
SlingBar L (23.6 inch/600mm)



StretcherBar and StretcherSling for lifting in the horizontal position



AmbulationArm, armrest for gait training



Scale for weighing patients who use patient lifts



SwiftHook for SlingBar



Extra batteries

Positioning aids: TopSheet, SafeHandlingSheet, RoMedicClips

SystemRoMedic®

"We love easy transfers"

RoMedic's lifts and lifting accessories are part of SystemRoMedic. This means they are part of a holistic approach to lifting and transferring. SystemRoMedic includes four transfer segments: transfer, repositioning, support and lifting.

RoMedic's products are developed on an ongoing basis, which is why we reserve the right to modify product designs without prior notice. Contact your RoMedic representative for information, advice and updates.

When in doubt, contact your RoMedic representative for product trials, advice or information.

If you require additional information, contact your transfer specialist or our representative, or visit www.romedic.com.

Make sure you always have the most recent version of the manual.

Manuals are available for downloading from our website www.romedic.com

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