

SWL: 160 kg / 352 lbs

REF

60300010
60300011
60300012
60300013



Safety information

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 slingbar connection and safety latch function.

Check lift and base-width movement.

Check to ensure that the actuator is correctly installed.



Always read the manuals for all assistive devices used during a transfer.

Keep the 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.

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Assembly

Final inspection

Inspect the lift for signs of wear and damage. Check all 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 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 by pushing down on the respective pedals for widening and narrowing the base. For EE use the buttons on the hand control.

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.

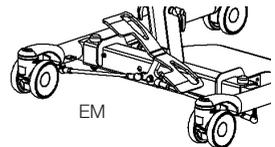
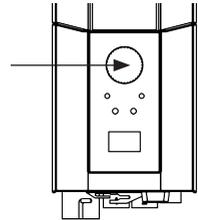
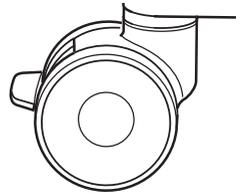
If the lift is functioning correctly, connect the charger and check to ensure that the charging lamp on the control box lights up.

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 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.
- Note the risk of pinching between base and mast when collapsing the lift. 

Trouble-shooting

If the lift or base-width adjustment cannot be activated, check the following:

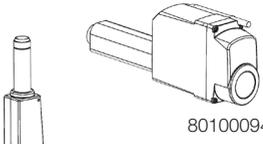
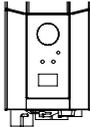
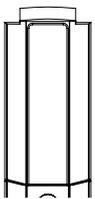
- That the emergency stop button is not pressed in.
- That all cables are properly and securely connected. Pull out the contact and plug it in again firmly.
- That battery charging is not in progress.
- That the battery is charged.

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

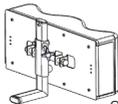
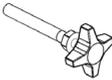
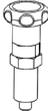
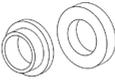
If the lift makes unusual noises:

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

Spare part list

Art no.	Product	Unit	Components	Parts
80100045	Cable for charger US	1		 <p>80100048</p>
80100046	Cable for charger UK	1		
80100047	Cable for charger AUS	1		
80100048	Cable for charger EU	1		
80100122	Cable for charger JP	1		
80100001	Front castor 100mm	1	1 Nut	 <p>80100001</p>
80100002	Rear castor 100mm	1		 <p>80100002</p>
80100094	Actuator Base LA23	1		 <p>80100094</p>
80100162	LA31 180 emergency lowering	1	2 Nuts	 <p>80100162</p>
80100150	Controllbox CBJC with display for LA31	1		 <p>80100150</p>
80100161	Battery Box CBJ BAJ1	2		 <p>80100161</p>

Spare part list

Art no.	Product	Unit	Components	Parts
80100156	Handcontrol HB32 4 button	1		
80100155	Handcontrol HB32 2 button	1		
80100070	Leg strap plate kit	1		
80100163	Footplate	1		
80100164	Kneepad	1		
80100165	MiniLift160 adjustment handle	1		
80100166	Plastic spring screw Grey	1		
80100082	Lifting arm	1		
80100151	Bushing kit for foot pedal	1		

Changing of spare parts

80100045, -46, -47, -48, -122

Connect the charger cable to the control box, and then plug it into a wall socket.

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.

80100094 Actuator Base LA23

Run the actuator until the legs are drawn in fully. Activate emergency stop. Disconnect the actuator from the control box. Loosen and remove the screw that holds the actuator. Remove the actuator. Install the new actuator, use the accompanying lock nut. Connect the actuator to the control box.

80100162 Actuator mast LA31

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.

80100150 Control box CBJC

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.

80100156 Hand control HB32-4 button

Activate the emergency stop, and then disconnect the hand control. Connect the new hand control.

80100155 Hand control HB32-2 button

Activate the emergency stop, and then disconnect the hand control. Connect the new hand control.

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.

80100163 Footplate

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

80100164 Kneepad

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.

80100165 MiniLift160 adjustment handle

Unscrew the old handle and install the new one.

80100166 Plastic spring screw Grey

Using an 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.

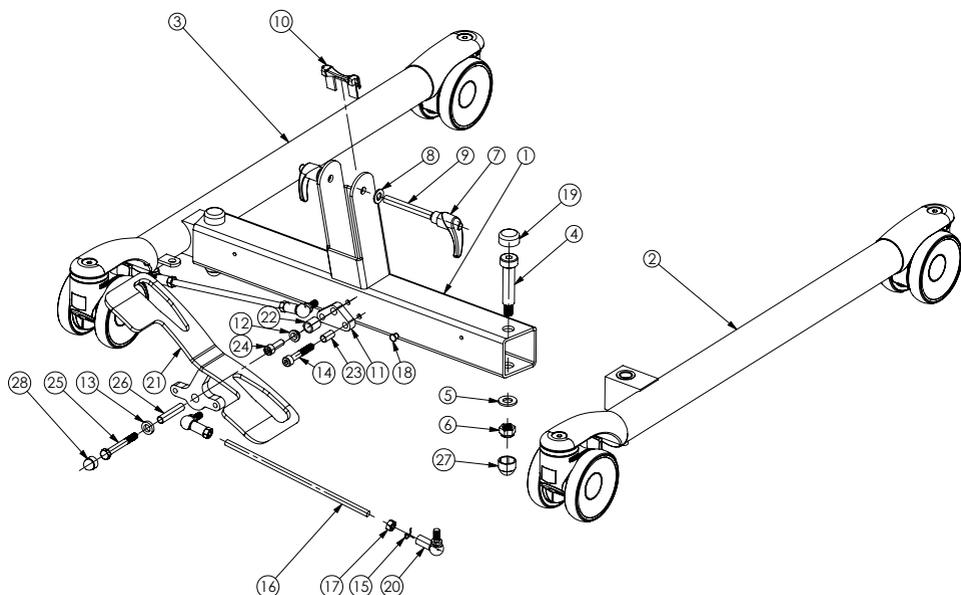
80100082 Lift arm

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 th elifting 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.

80100151 Bushing kit for foot pedal

Remove the nut cover. Unscrew the screw which holds the foot pedal. Remove the old bushing and replace it with the new one. Mount the screw and put the nut cover back.

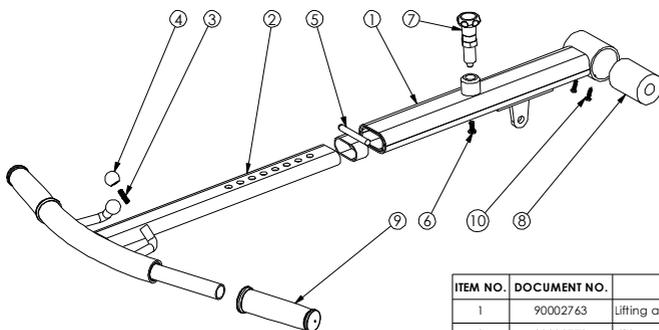
Exploded view - Base EM



Scale 1:5

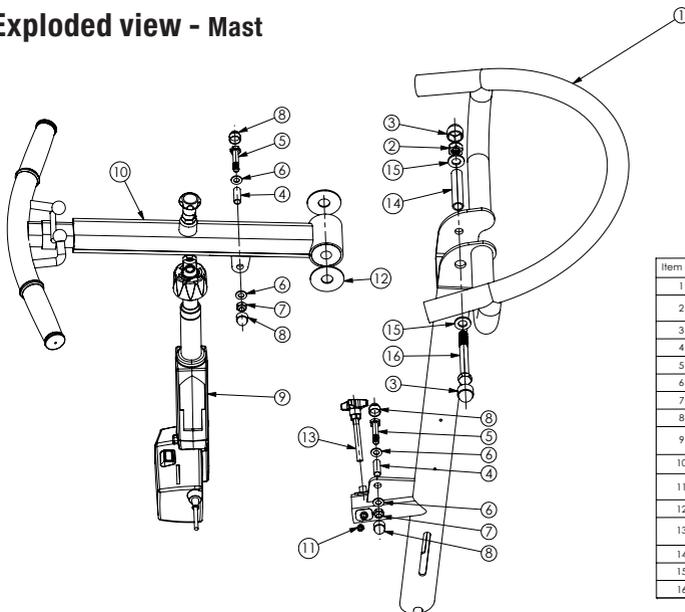
Item No.	Part No.	Description	Qty.
1	90001227	center section ML160EE	1
2	90001230	Orion leg right	1
3	90001231	Orion leg left	1
4	90000485	Shoulder bolt ISO7379 (DIN610) 12.9 16xM12x60	2
5	90000486	Washer DIN125 13x25x2.5 fzb	2
6	90000487	Lock nut DIN985 Cl6 M12 fzb	2
7	90003133	Locking handle LS64M10G	2
8	90000601	Washer DIN125 10.5x20x2 fzb	2
9	90000489	Threaded steel rod DIN975 M10x80 fzb	1
10	90000647	Plastic protection Carina	1
11	90001631	Plate pedal shoulder bolt	1
12	90000501	Bushing 10x12x6 PA-66	1
13	90000528	Washer PE 10.5x18x4	1
14	90000502	Screw MC65 DIN912 8.8 M8x50 fzb	1
15	90000496_4	Locking pin Ball socket	4
16	90003143	Threaded steel rod DIN975 M8x235 fzb	2
17	90000504	Nut M6M DIN934 M8 fzb	4
18	90001269	IKPT107G	1
19	90000778	Shoulder bolt cover M12 G	2
20	90000645	Ball joint DIN71802 M8	4
21	90003109	MiniLift 160 Pedal asm	1
22	90003114	Sleeve 16x12x18	1
23	90003138	Sleeve 10x8x19	1
24	90000604	MC65 DIN 912 8.8 M8x25 FZB	1
25	90000028	Screw M65 DIN931 8.8 M8x6.5 fzb	1
26	90003137	Sleeve_10x8x48	1
27	90000493	Nut cover MSM12G	2
28	90000330	Nut cover MSM8G	1

Exploded view - Lifting arm



ITEM NO.	DOCUMENT NO.	TITLE	QTY.
1	90002763	Lifting arm outer	1
2	90002772	Lifting arm inner	1
3	90002670	Threaded pin PSH DIN976 M6x20 A2	2
4	90002697	Lifting arm sling hook end	2
5	90002691	Lifting arm sling stopper asm	1
6	90001252	Screw K6S DIN7380 8.8 M6x14 fzb	1
7	90003136	Plastic spring screw Grey	1
8	90002774	Bushing lifting arm	1
9	90002773	Lifting arm handle black	2
10	90002733	Screw RXS DIN7981-C-H 4.8 4.2x16 fzb	2

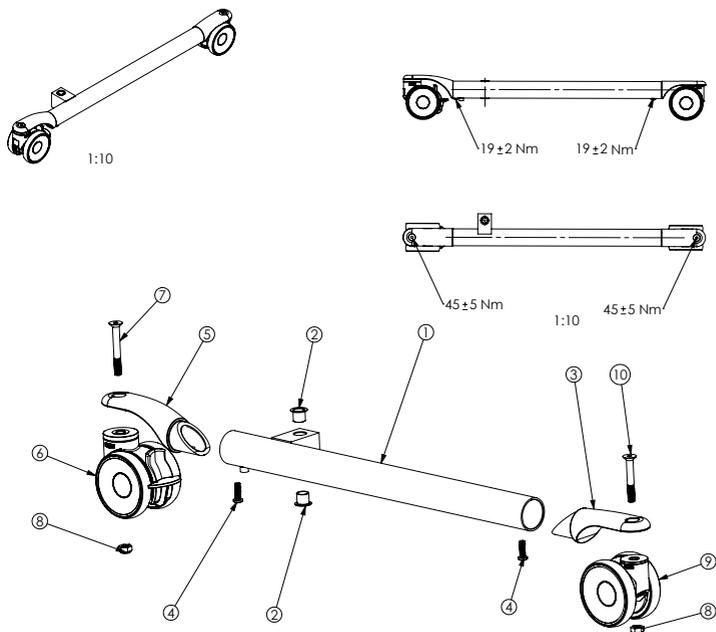
Exploded view - Mast



Item No.	Part No.	Description	Qty.
1	90002639	Orion mast welded	1
2	90000487	Lock nut DIN985 CL6 M12 fzb	1
3	90000493	Nut cover MSM12G	2
4	90000453	Sleeve 10x8x26	2
5	90000488	M6S DIN 931 8.8 M8x40 fzb	2
6	90000345	Washer DIN125 8.4x16x1.6 fzb	4
7	90000026	Lock nut DIN985 M8 fzb	2
8	90000330	Nut cover MSM8G	4
9	90003128	LA31 180 emergency lowering	1
10	90002775	Lifting arm	1
11	90002799	Screw P65S DIN913 8.8 M8x12 fzb	1
12	90003118	Shim_50x17x2	2
13	90003121	MiniLift160 adjustment handle	1
14	90003130	Sleeve 16x12x71.5	1
15	90003131	Washer BRB 13x24x2.5 fzb	2
16	90003129	Screw M6S DIN931 M12x95	1

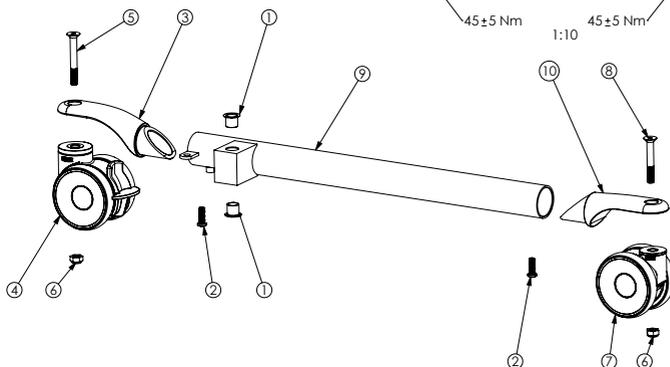
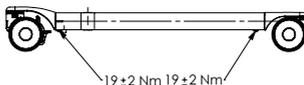
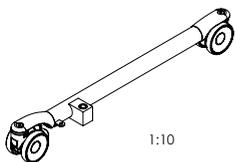
Scale 1:5

Exploded view - Leg Right



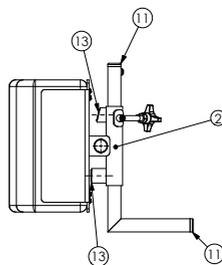
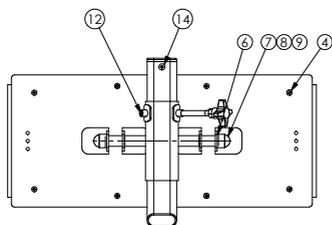
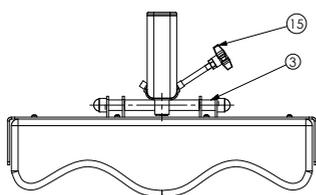
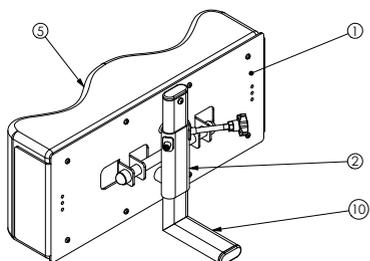
ITEM NO.	DOCUMENT NO.	TITLE	QTY.
1	90001228	Orion leg right welded	1
2	90000479	Bushing teflon C08010F-14170	2
3	90000463	Front Fork	1
4	90002435	Screw_M6S_ISO7380_10.9_M8x25_fzb	2
5	90002578	Rear fork 125 mm	1
6	90000260	Rear wheel 100mm	1
7	90000784	Screw M6S DIN7991 8.8 M10x80 fzb	1
8	90000539	Lock nut DIN 985 Cl.6 M10 FZB	2
9	90000259	Front wheel 100mm	1
10	90000021	Screw M6S DIN7991 8.8 M10x70 fzb	1

Exploded view - Leg Left



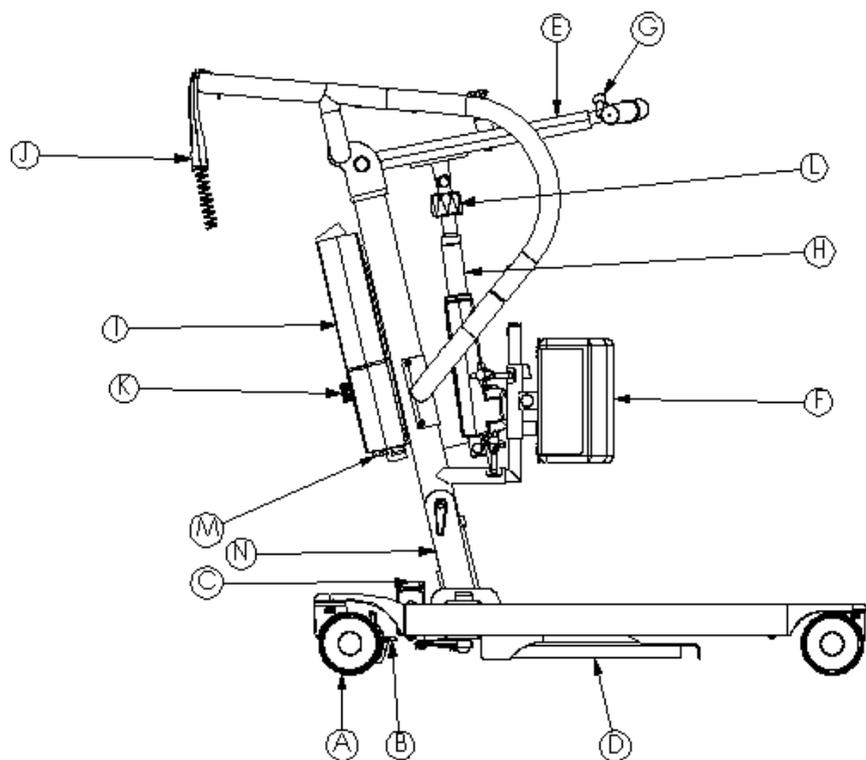
ITEM NO.	DOCUMENT NO.	TITLE	QTY.
1	90000479	Bushing teflon C08010F-16170	2
2	90002435	Screw_M6S_ISO7380_10.9_M8x25_fzb	2
3	90002578	Rear fork 125 mm	1
4	90000260	Rear wheel 100mm	1
5	90000784	Screw MF6S DIN7991 8.8 M10x80 fzb	1
6	90000539	Lock nut DIN 985 CL6 M10 FZB	2
7	90000259	Front wheel 100mm	1
8	90000021	Screw MF6S DIN7991 8.8 M10x70 fzb	1
9	90001229	Orion leg left welded	1
10	90000463	Front Fork	1

Exploded view - Kneepad



ITEM NO.	DOCUMENT NO.	TITLE	QTY.
1	90002736	Kneepad backplate	1
2	90002752	Kneepad holder bar asm	1
3	90002738	Distance bar short	2
4	90002733	Screw RXS DIN7981-C-H 4.8 4.2x1.6 fzb	8
5	90002735	Orion kneepad	1
6	90000601	Washer DIN125 10.5x20x2 fzb	2
7	90003132	Nut cover MSM10G	2
8	90000539	Lock nut DIN 985 CL6 M10 FZB	2
9	90002740	Threaded steel rod DIN976-1 8.8 M10x200 fzb	1
10	90002745	Kneepad adjustment bar	1
11	90002741	Plastic cover oval 45x20 G	2
12	90002799	Screw P6SS DIN913 8.8 M8x12 fzb	1
13	90002753	Rubber bumper	2
14	90002734	Screw RXS DIN7981-C-H 4.8 4.8x1.3 fzb	1
15	90003122	MiniLift 160 adjustment handle	1

Description for periodic inspection



Periodic inspection - instruction

Base

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

Castors

- Roll the lift unloaded on the floor, check that the castors roll and turn freely.
- Check that the castor fasteners are tight.

Brakes

- Lock the brakes. Check that the castors do not turn when the lift is pushed.

Screws

- Check screws, and listen for peculiar noises and vibrations.

Mast

- 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.

Lifting arm 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 boom up/down. Pressing up/down on the boom should make the actuator stop.
- Check of abnormal noise level.

Battery and cable installations

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

Handset

- Verify that all functions on the handset are working.

Emergency stop

- Verify that the lift does not operate when emergency stop is pressed in.

Emergency lowering

-Verify the function of emergency lowering.

Charging

-Verify that charging is operating. Yellow lamp on the controllbox should light up when charging, and an icon on the display indicates that the chord is attached.

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 MiniLift160 is done with 120 kg weight, which corresponds to a patient weight of 160 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 boom to the outermost position and apply 120 kg.

- Run the actuator 160 mm up/down as shown in picture. The boom is loaded with 120 kg and placed in the outermost position.

Listen for unusual sounds during raising/lowering.

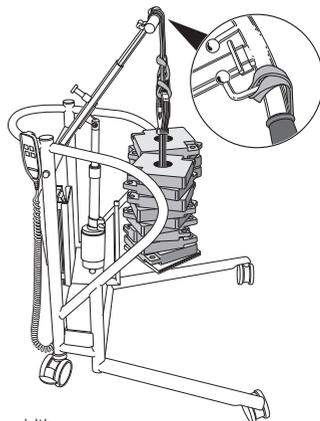
Connector hooks

- Lift up to 120 kg clear of the floor and wait for 20 sec.

NOTE! Load the hooks according to picture.

The base is loaded with 160 kg.

- Place 160 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.

Documentation

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

Accessories

-Check the accessories to the lift.

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.



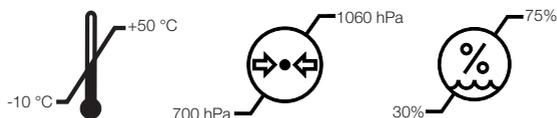
Used batteries are to be left at the nearest recycling station. Used batteries can also be returned to Handicare or a Handicare dealer for recycling.

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 lift should be transported and stored in -10°C to $+50^{\circ}\text{C}$ 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

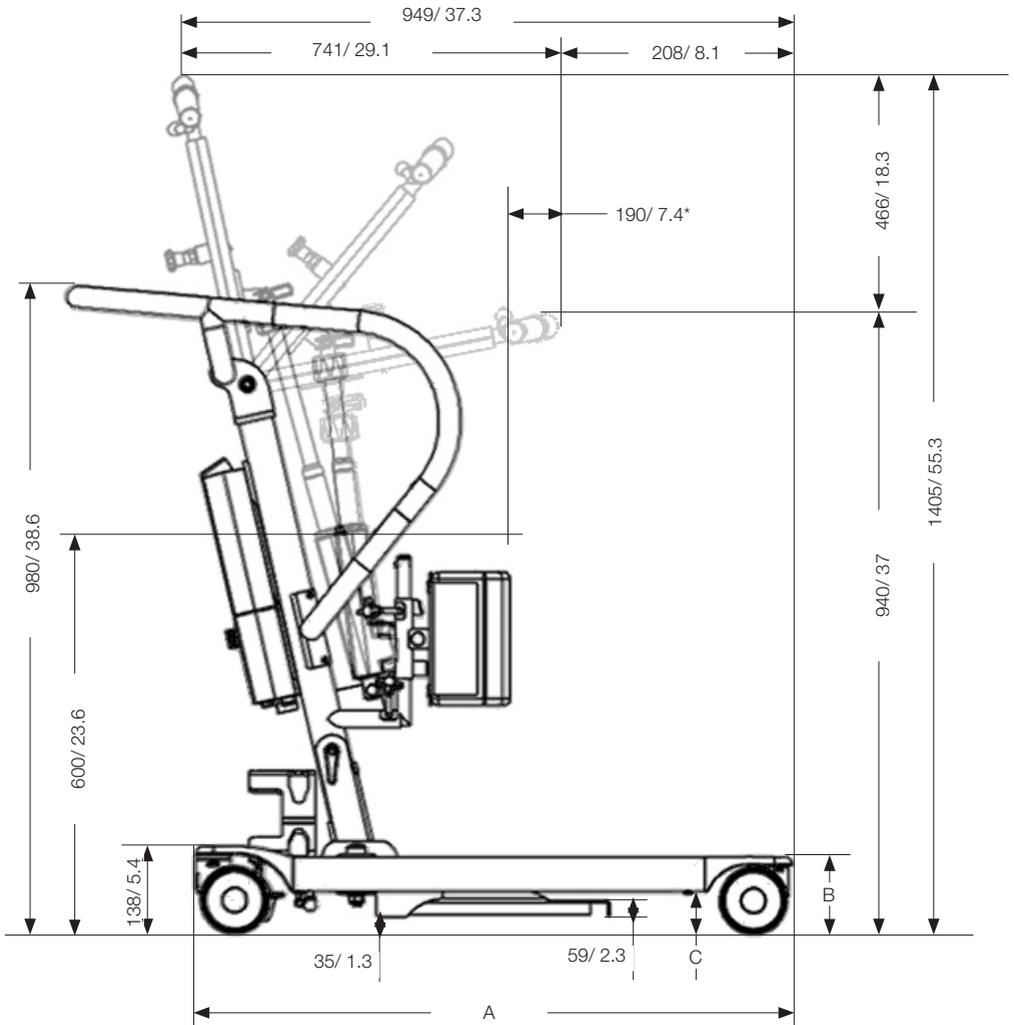
Technical Information

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:	Mechanical and electrical
Castors:	Front 3.9", 100 mm, 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.

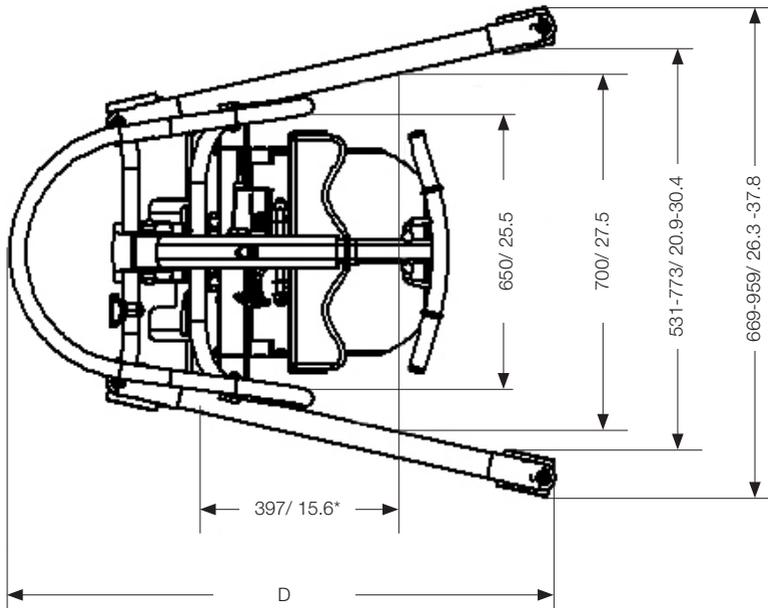
Dimensions

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



* Maximum reach at 600 mm (referens height)

	EE,EM	EEL,EML
A	919/ 36.2	902/ 35.5
B	123/ 4.8	65/ 2.5
C	73/ 2.8	20/0.7



* Reach from base with legs spread to 700 mm (referens)

	EE,EM	EEL,EML
D	1098/ 43.2	1080/ 42.5

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.



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