User manual

Eline/Eline Plus/Eline eFlow/Eline Plus eFlow

Mobile lift

CE

Manufacturer:	Distribution and service in Poland:
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1 Introduction

Congratulations on the excellent choice of the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow designed and manufactured by Meden-Inmed Sp. z o.o. It is related to their well-thought design, used production technology and product quality assurance system.

Please read this user manual carefully to ensure safe, long and faultless operation of this device.

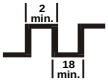
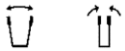
GENERAL REMARKS:

1. The product should be operated by qualified personnel who has carefully read this user manual.
2. Using, operating and servicing this product in a way which is inconsistent with this user manual is prohibited and may cause damages that will financially burden the user and which the manufacturer shall bear no responsibility for.
3. The device must not be modified in any way.
4. If device parameters or its performance are inconsistent with the information contained in this user manual, do not use the device. Immediately contact the manufacturer or its representative and report these inconsistencies.
5. Any serious the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow shall immediately be reported to the manufacturer and to the competent authority of the Member State where the user or patient is resident.
6. The warranty covers all manufacturing and material defects.
7. Each device repair must be carried out by a factory or authorized service center and should be registered in the repair log included with the warranty card. Failure to meet this requirement will void the product warranty.
8. The technical description of the device along with the list of spare parts and the method of their replacement is available from the manufacturer on request.

The warranty conditions will not be recognized if the device is used in a way that is inconsistent with its intended purpose or if the user fails to observe the terms of use contained in this user manual.

The manufacturer shall not be liable for any consequences of improper (inconsistent with conditions set out in this user manual) use of the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow.

1.1 Symbols

	CAUTION! This symbol indicates activities that if performed inconsistently with the user manual may cause deterioration of the conditions or safety hazard to a patient and/or their caregiver.
	This symbol indicates that the user should consult the instruction for use.
	Manufacturer, XXXX-XX – year and month of production
	Applied part type B
	For indoor use
	Protection class: II
	Direct current
	Alternating current
	Operation type
	Indicates safe working load of the lift and allowable mass of a patient when lifting/ lowering the lifting arm
	Lifting and lowering a patient (hand control)
	Lifting and lowering a patient (control panel)
	Spreading the product legs (hand control)
	Spreading the product legs (control panel)

MD	Medical device
REF	Catalogue number
SN	Serial number
UDI	Unique Device Identification
IPN_1N_2	Protection level against penetration
CE	The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is manufactured in accordance with Medical Device Regulation 2017/745 (class I, rule 13) and has a CE marking, according to the manufacturer declaration.
	Recyclable materials
	All electrical and electronic equipment waste must be disposed of properly at recycling facilities according to the EU's WEEE directive or equivalent regulations. It is absolutely necessary that all devices containing any substances harmful to humans or the environment are recycled properly in appropriate facilities. These devices must not be disposed of with general or household waste. Aforementioned regulations ensure reduction of electronic waste and appropriate recycling of the specific amount of electronic devices. Appropriate recycling of electronic waste is particularly important, as it may contain substances harmful to humans and the environment.

2 Mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow characteristic

2.1 Intended use

CAUTION!

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is designed for indoor use, exclusively on flat level surfaces. If a patient needs to be transported on flat slope surface, it is recommended to ask another person to safeguard a patient. Before transporting a patient with the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow, consult the attending physician.

CAUTION!

This product is not intended to be used by a patient alone. A patient has to be lifted and transferred by qualified personnel (by a caregiver). In some cases, a second caregiver may be required.

Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is an electrical medical device. Eline eFlow/Eline Plus eFlow is equipped with a drive assist system. This drive allows the mobile lift to be moved in any direction with minimal force. Controlling the mobile lift is intuitive and doesn't depend on the weight load of the patient and the mobile lift. Movement is smooth through the use of sensors, and maneuvering in tight spaces with the mobile lift is not a problem. This solution allows controlling the mobile lift and the built-in electromagnetic brake stops the device quickly after releasing your hand. The drive assist system allows safe work, prevents physical overload and contributes to a better work and health balance for healthcare workers.

Eline/Eline Plus/Eline eFlow/Eline Plus eFlow can be used for lifting a patient from/to a wheel chair, a toilet, a bathtub or shower, or a bed directly from/to the floor, using an appropriate sling. The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow ensures vertical lifting movement.

2.1.1 Indications

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow helps a caregiver in transferring and repositioning patients with limited mobility caused by disease or disability. The device can be used by caregivers caring for patients who suffer from:

- cranio-cerebral traumas;
- spinal cord injury;
- Parkinson's disease;
- multiple sclerosis;
- decreased physical performance;
- permanent immobilization;
- changes in musculo-skeletal system;
- disability;
- paralysis;
- pressure ulcers.

2.1.2 Contraindications

Contraindications for use of the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow:

- osteogenesis imperfecta.

2.1.3 Intended target group

Patients are assigned to use the lift when ordered by the attending physician. The intended patient group includes adults whose weight does not exceed safe working load of the device.

2.1.4 Users

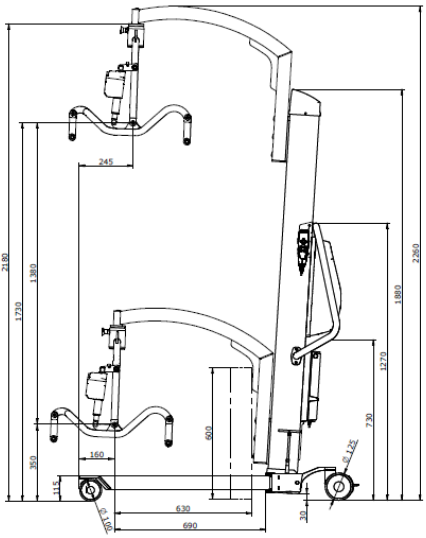
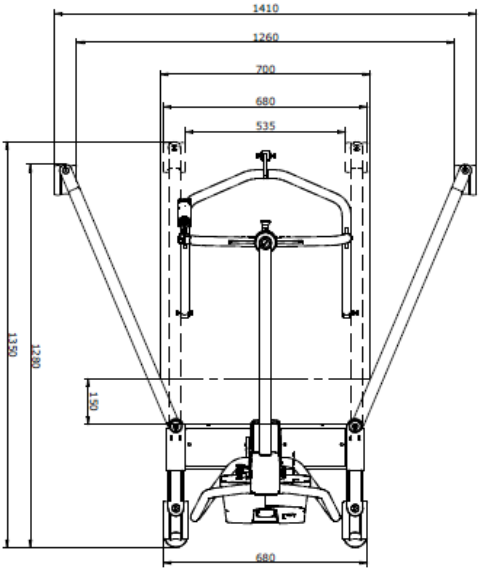
The device should be operated by qualified personnel who are familiar with the contents of these user manuals.

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is intended to be used in hospitals, nursing homes and residential medical care facilities.

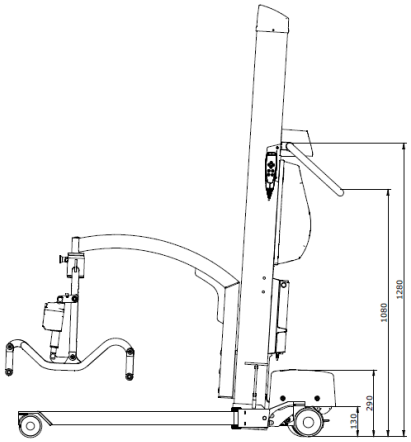
2.2 Technical specifications

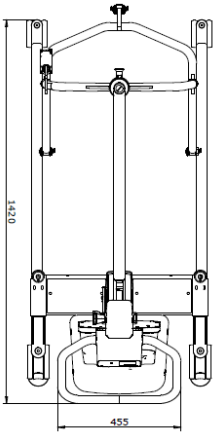
2.2.1 Eline/Eline eFlow

Table 1 - Technical parameters of the mobile lift [*CSP (central sling point) – hanger bar]

Technical specifications	Eline	Eline eFlow
Eline 		
		

Eline eFlow



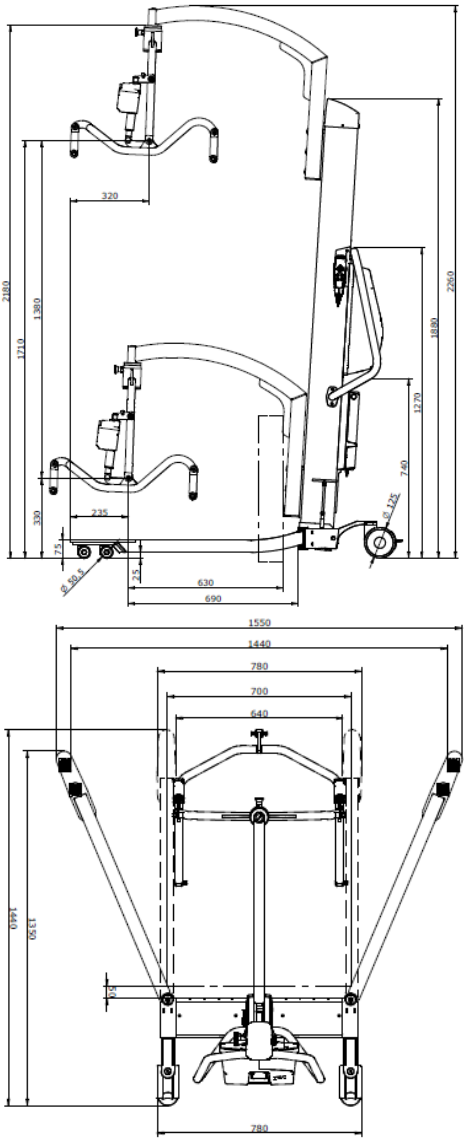


Length [mm]		1350	1400
Width [mm]		682	
Total height [mm]	Minimum	1880	
	Maximum	2260	
Lifting height CSP* [mm]	Minimum	341	
	Maximum	1726	
Minimum width of legs [mm]	Internal	535	
	External	682	
Maximum width of legs [mm]	Internal	1259	
	External	1406	
Height of device legs [mm]		111	
Hanger bar angle (up/down) [degrees]	Sling **4ESB-AL**	-17:+42	
Hanger bar diameter [mm]	Sling **4ESB-AL**	790	
Hanger bar angle (up/down) [degrees]	Sling **4ESB-OL**	-17:+42	
Hanger bar diameter [mm]	Sling **4ESB-OL**	860	
Lifting range [mm]		1385	
Turning diameter of the product [mm]		1700	
Diameter of the castors [mm]	With brakes	125	
	Without brakes	100	
Operation type		Non-continuous, with short load (10%), max. 2 min. operation (ON), min. 18 min. pause (OFF)	

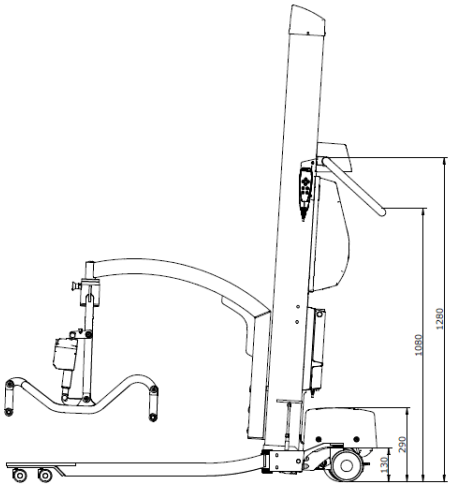
Safe working load		≤ 250 kg	
Power supply and safety measures	Voltage, frequency, current consumption	120-240V ~ /50-60Hz/Max. 350 mA	
	Protection class against electrical shock	II, 	
	Applied part	type B, 	
Battery		24 V ⎓ / 2,85 Ah	
Charging time		approx. 5 hours	
Protection level	Device	IP54	
	Control box	IPX6	
	Battery	IPX6	
	Actuators	IPX4	
	Hand control	IPX6	
	Panel eFlow	IPX4	
	Drive eFlow	IPX4	
Finger pressure against the control device [N]		<5	
Maximum device weight without a patient [kg]		87,7	103
Maximum noise level [dB]		<55	

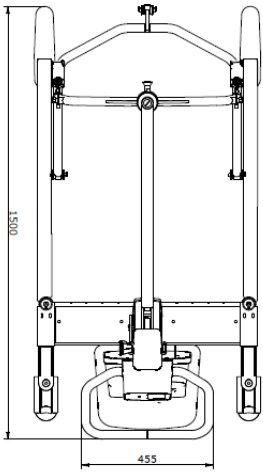
2.2.2 Eline Plus/Eline Plus eFlow

Table 2 - Technical parameters of the mobile lift [*CSP (central sling point) – hanger bar]

Technical specifications	Eline Plus	Eline Plus eFlow
Eline Plus 		

Eline Plus eFlow





Length [mm]		1433	1480
Width [mm]		779	
Total height [mm]	Minimum	1880	
	Maximum	2260	
Lifting height CSP* [mm]	Minimum	322	
	Maximum	1706	
Minimum width of legs [mm]	Internal	637	
	External	779	
Maximum width of legs [mm]	Internal	1433	
	External	1528	
Height of device legs [mm]		73	
Hanger bar angle (up/down) [degrees]	Sling **4ESB-AL**	-17:+42	
Hanger bar diameter [mm]	Sling **4ESB-AL**	790	
Hanger bar angle (up/down) [degrees]	Sling **4ESB-OL**	-17:+42	
Hanger bar diameter [mm]	Sling **4ESB-OL**	860	
Lifting range [mm]		1385	
Turning diameter of the product [mm]		1840	
Diameter of the castors [mm]	With brake	125	
	Without brake	50	
Operation type		Non-continuous, with short load (10%), max. 2 min. operation (ON), min. 18 min. pause (OFF)	

Safe working load		≤ 310 kg	
Power supply and safety measures	Voltage, frequency, current consumption	120-240V ~ /50-60Hz/Max. 350 mA	
	Protection class	II, 	
	Applied part	type B, 	
Battery		24 V ⎓ / 2,85 Ah	
Charging time		approx. 5 hours	
Protection level	Device	IP54	
	Control box	IPX6	
	Battery	IPX6	
	Actuators	IPX4	
	Hand control	IPX6	
	Panel eFlow	IPX4	
	Drive eFlow	IPX4	
Finger pressure against the control device [N]		<5	
Maximum device weight without a patient [kg]		97,6	113
Maximum noise level [dB]		<55	

3 Construction and operation of the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow

Before using the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow, familiarize yourself with all its components and read carefully this user manual.

3.1 Device components

CAUTION!

It is forbidden to modify the device without written consent from the manufacturer.

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow consists of welded structural sections made of powder-coated steel and consists of the following components:

Eline eFlow/Eline Plus eFlow	Eline/Eline Plus
	

1	**Mast** Allows for lifting/lowering the lifting arm
2	**Lifting arm** Allows for lifting/lowering a patient attached to the device with a sling.
3	**Hanger bar** Allows for attaching a sling to the device.
4	**Hand control holder** Allows for hanging the hand control.
5	**Hand control** Allows for controlling device functions.
6	**Actuator** Allows the lifting arm operation.
7	**Steering handle** Handle used for operating the device.
8	**Control box + battery** Controls work of the mast.

9	**Rear castors** Twin castors with brake.
10	**Spreading legs** Increase stability during patient lifting/lowering and allow for driving close to wheelchairs, toilet etc.
11	**Front castors** Twin castors without brakes.
12	**Emergency lowering key**
13	**Patient weight trend tracking module (optional)**
14	**eFlow (drive system)**
15	**eFlow control box**

Figure 1 - Components of the mobile lift

3.2 Accessories and additional equipment

3.2.1 Hanger bar

Name and description of the hanger bar	Picture	Eline/Eline eFlow (SWL 250 kg)	Eline Plus/Eline Plus eFlow (SWL 310 kg)
4ESB-AL electrical 4-point		STANDARD	-
4ESB-OL electrical 4-point		-	STANDARD

3.2.2 Sling

CAUTION!

The device should be used with a sling certified in accordance with the Regulation (EU) 2017/745 of the European Parliament and of the Council and EN ISO 10535:2021 standard.

Before use, choose an appropriate sling clip size (slings are available in our online store). Sling size is to be chosen depending on patient's weight.

3.3 Device set

Mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow	as per order
User manual	1 pc.
Charging cable	1 pc.
Battery	1 pc.
Key for emergency lowering	1 pc.
Accessories and additional equipment	as per order

3.4 Packaging and transport

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is packaged in a bulk cardboard box. The device is transported on a pallet and is secured with polyurethane profiles, "bubble" foil and "stretch" foil. It is also attached with lashing straps. When moving the lift indoors, it is necessary to protect its outer edges from hitting and scratching against other surfaces. It is not allowed to stack pallets with the device.

3.5 Storage

The device should be stored in a cold, dry room. Environmental conditions of the room should be within:

- Ambient temperature: 10 ÷ 40°C (recommended 20°C or less).
- Air humidity: 30 ÷ 75%.
- Atmospheric pressure: 700 ÷ 1060 hPa.

4 General warnings and precautions

CAUTION!

Any modification of the device without the written authorization of the Manufacturer is prohibited.

CAUTION!

The manufacturer reserves the right to modifications to the device design that do not violate the essential functionality and security requirements.

CAUTION!

Do not expose the product to water spraying, e.g., during showering.

CAUTION!

The drive unit has moving parts, that power and control the wheel electrically. These parts are enclosed with black cover behind the mast. Do not hold or put your hands or fingers under the cover when using the device.

CAUTION!

Do not use the product on inclined/sloping surfaces.

CAUTION!

Keep hands, legs and feet away from moving and folding parts. Do not grab and do not keep your hands on the drive of the mobile lift.

When using the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow the following points should be observed:

1. The patient lift should be operated exclusively by medical personnel (a caregiver).
2. Keep a safe distance from the lifting mechanisms during device operation. Moving elements pose a crushing hazard.
3. All maintenance works and repairs should be performed by a manufacturer's service center or an authorized service center.

4. Maximum patient weight cannot exceed the safe working load of the lift and a sling.
5. Make sure that no moisture has entered the device electrical system. The IP protection works only when the battery is connected (section 6.8).
6. The battery should be charged in a well-vented place.
7. Do not leave a patient using the device unattended. The patient may fall out (loss of consciousness).
8. In case of any abnormal sounds, immediately discontinue using the device, remove the battery and contact the service center.
9. In case of differences between the maximum load of the lift and the sling, it is important to consider the lowest maximum load that determines the safe working load of the device.

5 Preparing for use

CAUTION!

Do not stand on the device legs when using the device, as their movement may cause severe injuries. Keep a safe distance when using the device leg spreading system.

CAUTION!

The lifting arm should be raised only by the actuator activated by the hand control or the control panel. Lifting the arm manually may lead to blocking the entire system.

CAUTION!

The device can be used in wet rooms, such as bathrooms. The device is not intended to be used when taking a shower. Avoid using the device in rooms full of steam. Environmental conditions should be within:

- ambient temperature: 10 ÷ 40°C;
- air humidity: 30 ÷ 75%;
- atmospheric pressure: 700 ÷ 1060 hPa.

CAUTION!

Avoid strong sunlight on the lift.

Before using the device, perform the following actions:

1. Before the first use of the device, check if all its functions, indicated in section 6, work properly. The test should be performed without a patient.
2. Insert the battery, if it is not present.
3. Verify that the patient lift arm stops in front of the green marker.
4. Make sure that the battery is fully charged (section 6.9).
5. Make sure that the lift is in a good condition (section 10.1, 10.2) before each use.
6. Choose a proper sling size depending on patient weight.
7. Check if the sling is not worn out or torn and make sure that it does not have any loose seams.
8. Before use, evaluate if a patient is conscious and aware what is happening around them.
9. Be particularly careful when caring for patients who cannot control their movements.
10. Press On/Off button to turn on the drive system.

The place of use the mobile lift should be chosen so that after setting the device on each side there should be a space for movement.

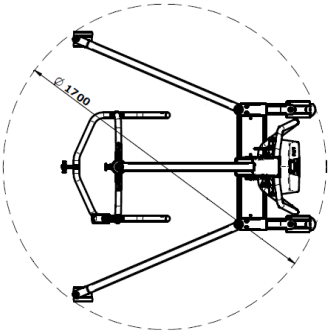


Figure 2 – Turning diameter of Eline/Eline eFlow

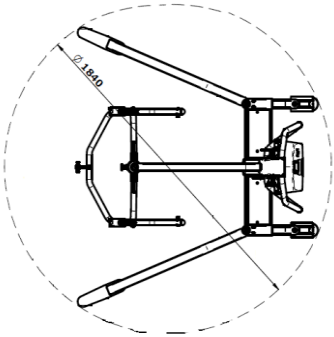


Figure 3 – Turning diameter of Eline Plus/Eline Plus eFlow

6 Function description

6.1 Using the brake

CAUTION!

Before lifting/lowering the patient, check if the brakes are unlocked.

The brakes (fig.4) constitute an important part of the product. The brakes are installed on the rear castors and prevent the device from moving. To lock the lift, press the stop lever using your foot. To release the brakes, lift the lever.

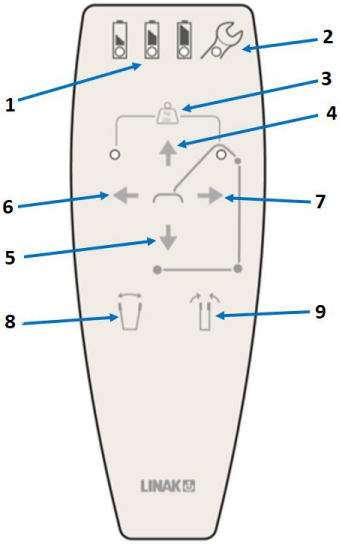
BLOCKING

RELEASING

Figure 4 – Stop lever

6.2 Hand control

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is equipped with the hand control (fig.5), which enables lift functions. Press a button to enable an adequate function.



1. Battery charge level
2. Service diode
3. Overload
4. Raising lifting arm
5. Lowering lifting arm
6. Backward tilt (hanger bar)
7. Forward tilt (hanger bar)
8. Adjusting legs (outside)
9. Adjusting leg (inside)

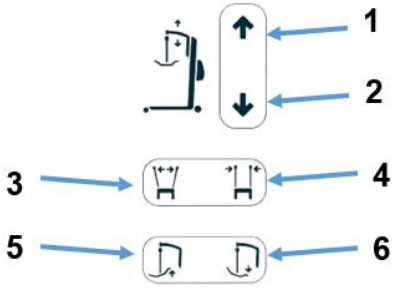
Figure 5 – Hand control functions

The hand control can be hung on the holder attached to the side wall of the mast on both sides of the device (fig.6).

Figure 6 – The hand control holder

6.3 Control panel

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is also equipped with the control panel installed on the actuator cover that works in parallel with the hand control and allows for controlling device functions.



1. Raising lifting arm
2. Lowering lifting arm
3. Adjusting legs (outside)
4. Adjusting legs (inside)
5. Tilting the hanger bar forward
6. Tilting the hanger bar backward

Figure 7 – Control panel functions for mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow

6.4 Adjustment of the device legs

This function allows for using the lift when a patient sits on a chair or another piece of furniture that requires adjustment of the device width.

In order to adjust width of the device legs, press an adequate button on the hand control and hold it until appropriate width is achieved (fig.8). When transporting a patient using the lift, the base legs should always be folded.

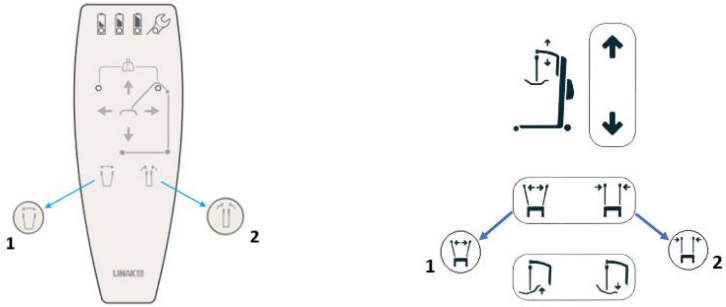


Figure 8 – Button for leg spread adjustment (hand control and control panel)

6.5 Hanger bar adjustment

This option can be very useful when it is necessary to incline the hanger bar during patient transfer from a bed (recumbent position). Adjusting the hanger bar position to the current patient position increases their comfort.

The mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow enables smooth change of hanger bar inclination during patient transfer with the built-in actuator. Hanger bar inclination angle can be changed with adequate buttons on the hand control or the control panel (fig.9).

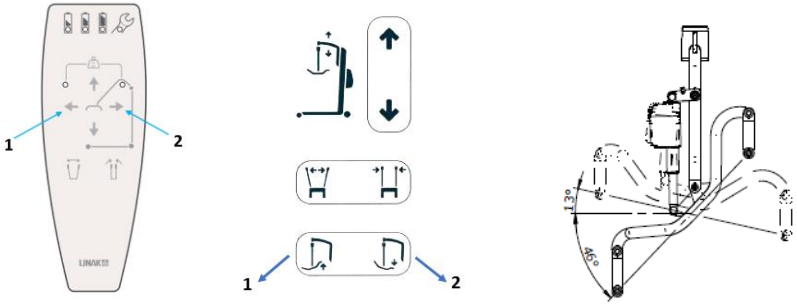


Figure 9 – Hanger bar inclination adjustment – The mobile lift Eline/Eline Plus/Eline eFlow/ Eline Plus eFlow (hand control and control panel)

The hanger bar is equipped with the rotation lock (1) (four positions in steps at every 90°) (fig.10).

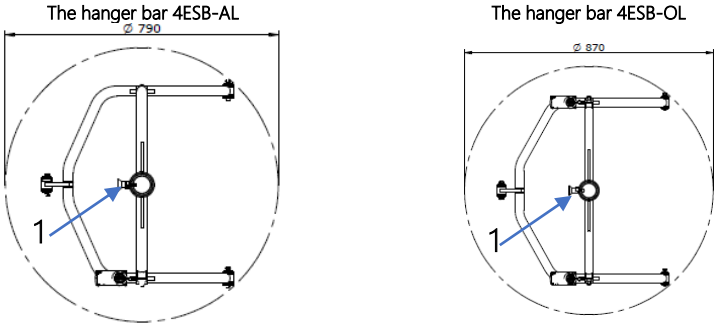
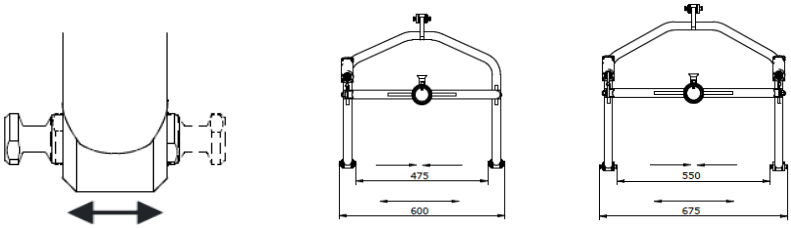


Figure 10 – The turning diameter of the hanger bar – The mobile lift Eline/Eline Plus/Eline eFlow/ Eline Plus eFlow

The hanger bar has a possibility to easily change the position of the pin for attaching the suspension. The pin can be placed on the outside of the hanger bar, or on the inside (fig.11) so that the distance in width fits the patient and lifting sling.



4ESB-AL 4ESB-OL

Figure 11 – Easy pin position change

6.6 Emergency safe lowering

The device is equipped with a manual lowering system using a key. The key is mounted in the lower part of the mast (fig.12).

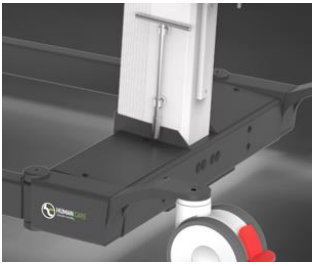


Figure 12 – Location of the key for manual lowering of the patient

Figure 13 – Location of manual emergency lowering

To lower the patient down with the key:

- unscrew the cap located next to the control panel (you can use a coin);
- insert the emergency key in the hole and put it on the bolt visible through the hole;
- turn the key anti-clockwise (fig.14).

Figure 14 – Manual emergency safe lowering with the key for emergency lowering

6.7 Battery

CAUTION!

Make sure that the battery is charged before using the device.

Eline/Eline Plus/Eline eFlow/Eline Plus eFlow is equipped with a lithium-ion battery, which has a long life, is lightweight and can withstand inactivity well. Self-discharge is minimal.

The number of lifting operations that can be performed with a fully charged battery depends on the duration of the lifting operation, the weight being lifted and the condition of the battery.

A battery that is not used for a long time will slowly discharge. It is recommended to charge the battery once a week. To avoid problems, it is recommended to replace lithium-ion batteries every seven years.

Discharging the battery too often negatively affects its capacity. Regular charging of the battery prevents problems and extends its life.

6.7.1 Emergency switch

If it is necessary to stop the movement, the emergency stop switch, immediately press the emergency switch (fig.15), located on the top of the battery. When the button is pressed, the power supply is cut off and all functions of the mobile lift are stopped. The mobile lift then stops immediately. The function is intended for emergency situations.

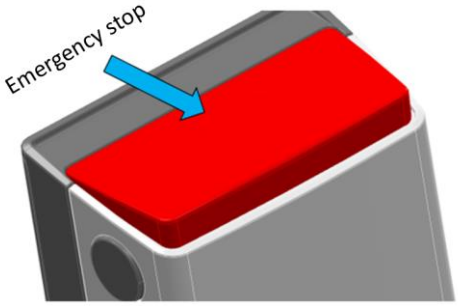


Figure 15 – The emergency stop

To release the emergency stop, remove the battery (fig.16):

- Use your thumb and index/middle finger to press the buttons on the sides of the battery.
- Remove the battery.

To reinstall the battery:

- Grab the battery at the sides and slide the battery base over the control pin.
- Push the battery into its place.

Figure 16 – Releasing emergency stop

6.7.2 Installing and removing the battery

To remove the battery (fig.17):

- Use your thumb and index/middle finger to press the buttons on the sides of the battery.
- Remove the battery.

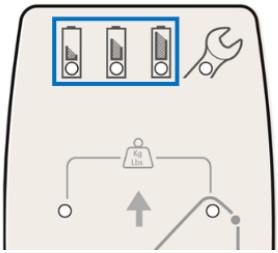
Battery installation (fig.17):

- Grab the battery at the sides and slide the battery base over the control pin.
- Push the battery into its place.

Figure 17 – Releasing emergency stop

6.7.3 Battery level status

The battery charge level is indicated on the remote control and on the controller.



Battery indication

The battery discharging will be shown in three stages.
The battery diodes are yellow or green until power down (2 minutes after use).

There are five LED indicators on the control box which provide information about the charge level during use (tab.3) and the charge level during charging (tab.4)

Table 3 - Charge level during use

Control box Diode 1 – Diode 2 – Diode 3	Hand control Diode 1 – Diode 2 – Diode 3	LED diode status (not listed = disabled)	Charge level
		LED 1–3 diodes glow steadily	75 - 100%
		LED 1+2 diodes glow steadily	50 - 75%
		LED 1 diode glow steadily	< 50%
		LED 1 diode flashes slowly in yellow with an audible signal	The battery level is enough for one raise and lower cycle

6.7.4 Battery charging

CAUTION!

Do not use the device during battery charging.

CAUTION!

During charging, all functions of the device accessible from the remote control and the touch control panel are locked.

CAUTION!

After a full charge, it is recommended not to use the device for an hour, this will extend the life of the battery.

CAUTION!

The battery should be charged continuously for at least 24 hours in the following cases:

- before the first use of the mobile lift and after the storage period;
- before the storage period (up to 12 months) without power connected.

The battery can be charged directly from a power outlet thanks to the control box's internal charger. To ensure the longest possible battery life, it is important to charge the battery regularly. It is recommended to charge the battery once a week. The battery charge indicator is located on the control box and allows you to check the battery capacity (tab.4).

To charge the battery:

1. Connect the power cord plug to the control box.
2. Connect the power cord to a power outlet. The battery charge indicator will light up.
3. When the battery is fully charged, the charging indicator will turn off. The charging time should be about 4 hours.

Table 4 - Charge level during charging

Control box Diode 1 – Diode 2 – Diode 3	Hand control Diode 1 – Diode 2 – Diode 3	LED diode status (not listed = disabled)	Charge level
		LED 1-3 diodes glow steadily	90 - 100%
		LED 1+2 diodes glow steadily LED 3 diode flash slowly	65 - 90%
		LED 1 diode glow steadily LED 2 diode flash slowly	40 - 65%
		LED 1 diode flash slowly	0 - 40%
		LED 1+2+3 diodes flash slowly	Charging has stopped due to low battery temperature, high battery temperature or other erroneous conditions
		None of the LED diodes are glowing	Charging has stopped due to battery disconnection

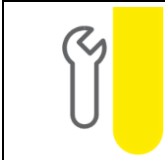
It is possible to order an external charger for the mobile lift. This allows you to charge the battery outside the device. This can be useful if direct charging of the lifter is impractical or if you always want to have a charged battery at hand.

Figure 18 – Charging socket on the control box

6.7.5 Service indication

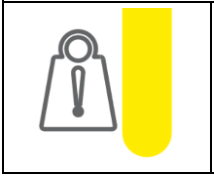
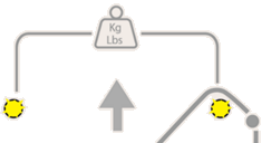
Service indicator

f the yellow diode flashes, it means that it is time to perform maintenance works. The standard setting is every 12 months (recommended by EN ISO 10535:2021 standard) or 8000 cycles, whichever happens first.

Control box/Remote control		
		When it is time to perform maintenance works, the service indicator will light for two minutes after the device is used. After that the indicator switches off automatically to save the battery.

Overload indication

When the overload occurs according to the predefined current cut off limit the two LEDs will blink for 10 seconds

Control box/Remote control		
		When the overload occurs according to the predefined current cut off limit the two LEDs will blink for 10 seconds.

Service indication

If there are problems with the control system, error codes can be read from the combination of service and overload LED displays.

Table 5 – Service indication

No.	LED	LED diode status (not on the list = disabled	Usage	Description	Solution
0		LED 4 diode flashes according to the BLE pairing status (wireless) pairing status*	BLE pairing (wireless)	Moving is not possible.	Wait until it is ready
1		LED 4+5 diodes glow steadily	Activated emergency stop	Moving is not possible.	Re-activate the emergency stop

2		LED 4+5 diodes flashes quickly	CRITICAL ERROR	Moving is not possible.	Resetting a critical error
3		LED 4+5 diodes flashes slowly	Incorrect/ reconfiguration	Moving is not possible.	Reconfigure
4		LED 5 diode flashes slowly	Overloaded channel 1	Temporary inability to lift	Reduce the load
5		LED 4 diode flashes slowly	Protection against duty cycle	Temporary inability to lift	Wait until it is ready
6		LED 5 diode glows steadily	Incorrect	Moving is possible.	Emergency driving, have the mobile lift inspected
7		LED 4 glows steadily	Service	Moving is possible.	Service

6.8 eFlow drive system

CAUTION!

Do not step on the plastic cover.

The drive system consists of a control box, a caster and two motors for driving and turning. This system is located between the two wheels at the bottom of the mobile lift and provides motorized movement of the mobile lift. The system is powered by the same LINAK lithium-ion battery that is used for other activities, such as lifting. A bracket around the caster provides protection against hazards such as running over feet or fingers.

Figure 19 –eFlow drive caster

Figure 20 – eFlow control rail

6.9 eFlow drive system panel

CAUTION!

Never hang any object on the push handle as this may lead to an unintentional activation of the drive system.

The eFlow drive system panel has a drive activation button and LED indicators. The interface allows the caregiver to control the caster movement. The control handle is touch-sensitive and responds according to the force applied to it. The handle can be pressed in any direction, and the caster turns and moves in that direction.

Press the ON/OFF button to activate drive support system (fig.21). Once the system is started, the drive caster and push handle are calibrated for about 3 seconds. Make sure that the push handle is not touched during calibration. The start and end of calibration process is indicated by a single sound. To turn off the drive support system, press and hold the ON/OFF button for about 2 seconds.

Figure 21 – Drive system panel

Eline eFlow/Eline Plus eFlow is equipped with an ergometer, which enabled proper operation and prevents physical overload. The ergometer provided information about the force, that is exerted on the handle when pushing. Each successive LED that lights up on the panel indicates an additional amount of force exerted by the operator. A yellow or red light and an audible signal indicate too much force applied by the operator.

Service indicator

The service indicator has three LEDs, that transmit codes indicating specific groups of system faults.

LED diode	Error type
	System error
	Steering handle error

	System panel error
	Caster control error
	Steering system error
	Battery malfunction

6.10 Patient weight trend tracking module

CAUTION!

Before each use, the patient weight trend tracking module should be checked for proper operation.

The product is designed to track the patient's weight trend.

The patient weight trend tracking module is not intended for medical applications for patient weight determination, diagnosis, monitoring and treatment.

6.10.1 Battery replacement (AA LR6/R6)

1. Turn the desktop counterclockwise and lift up slightly, then pull out of the case.

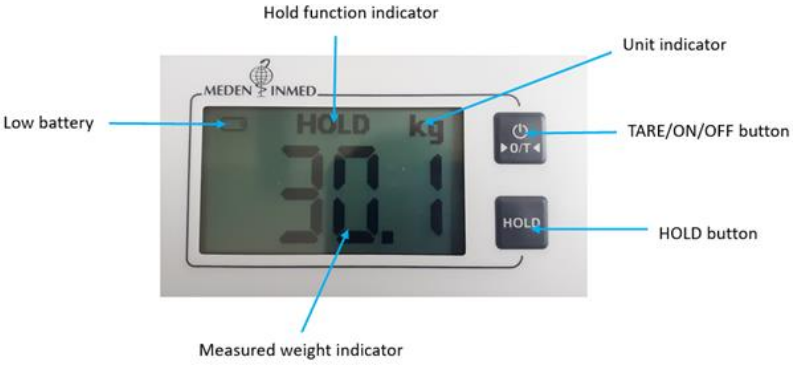
2. After removing 2 screws securing the desktop, remove the battery cover.

3. Replace the batteries with new ones, paying attention to the polarity.

4. Replace the battery cover and tighten the mounting screws.

6.10.2 Display and buttons

View of the display and buttons



Buttons

1. The button →0/T← turns the device on or off. It is also used for taring. Press and hold the button for 3 seconds to turn the device on or off.
2. The HOLD button sets a stable weighing value - used when the scale is unstable. Press and hold the button for 3 seconds to enter the settings.

6.10.3 Usage of the patient weight trend tracking module

Basic operation

Switch on the device using the 

button. After releasing the button, a preliminary zeroing of the display is performed, the device is ready for operation when „0.0" is displayed on the indicator.

Note: If the display does not show „0.0", press the button 

to zero the scale.

Place the patient in the sling. Raise the lift arm until the patient is suspended freely without support from the bed/chair or floor. Wait until the values on the display stabilize.

Note: If the weight of the patient exceeds the maximum load of the lift more than the SWL, the indicator will display "¯¯.¯" due to overload.

Hold

The hold function determines the average weight to be used if the patient's weight does not stabilize (e.g., an active child).

Note: If the fluctuations are too great, determining the average weight will be difficult and the hold function may not work properly.

1. Switch on the device.
2. Press the **[HOLD]** button. Indicator will display the „HOLD" sign.
3. Carry out an indication of the patient's weight.
4. After a few seconds, the average weight will appear on the display. The scale will be locked – at this point the patient can be unhooked form the device.
5. To release the locked weight, press the **[HOLD]**, button again to return to normal mode.

Note: The hold function can be activated before or after the patient is placed in the sling.

Tare

The tare function allows you to subtract the weight of items from the result of the device display.

1. Place the object to be tared in the sling.
2. Press the 

button. The display will show „0.0".
3. Place the patient in a sling (plus a tare object) for weight. Raise the lift arm until the patient is hanging freely without support from the bed/chair or floor. Carry out an indication.
4. To clear the tare value, remove all sling and press the 

button.

6.10.4 User setting configuration

When the device is switched on, press and hold the **[HOLD]** button for approximately 3 seconds until the display shows "Weight unit" (the first option in the setup menu).

In the user setting configuration menu:

Pressing the **[HOLD]** button switches to the next menu option.

Pressing the 

button confirms the selection/enter the submenu.

Weight unit

Selection of the unit in which the weight is displayed on the indicator.

Option for unit selection: **kg** or **lb**.

Press the HOLD button, to switch between unit options and a 

button to confirm the selection.

Automatic switch-off

Order to automatically turn off the device after a certain period of time.
Automatic switch-off options: 2 min./3 min./4 min./5 min./15 min.

Press the **[HOLD]** button to switch between time options and the  button to confirm the selection.

Return to main screen

Press the  button to exit the setup menu and return to normal operation.

6.10.5 Troubleshooting

Error messages

Error messages	Cause	Activity
– – –.–	**Negative value** The object with which the device was tared has been removed	Perform tare
– – – – .	**Overload** The total load exceeds the maximum capacity of the device	Reduce the weight on the sling and try again
When the device is switched on, **0.0** flashes and the device switches off after 5 seconds.	**Out of scope** Exceeded load limit during initial reset after power-up	Remove the objects from the sling. If the problem persists, recalibration is required. Contact the distributor.

7 Attachment of a clip sling

A sling is an essential component of the patient lift. Its purpose is to keep a patient in a safe position during transfer. A sling should be put on a patient following instructions contained in the sling user manual. In case the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow, the sling is fastened by attaching its clips to the hanger bar (fig.22).

Figure 22 – Attaching a clip sling to the hanger bar

When removing a sling from the hanger bar, press the lever and lift the fixing (fig.23).

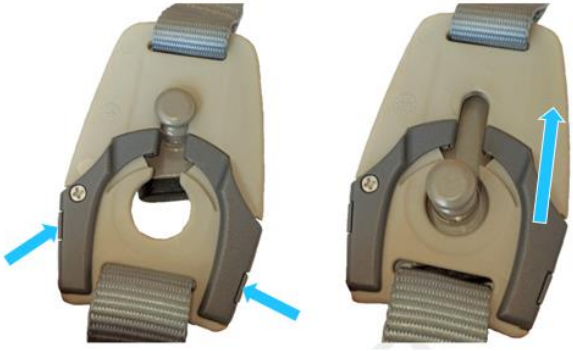


Figure 23 – Removing a sling from the hanger bar

8 Patient lifting and transport

CAUTION!

Use steering handles to move the mobile lift.

CAUTION!

The medical personnel (a caregiver) should check if there is enough space in the room to ensure patient safety before raising the lifting arm. Be particularly careful when lifting a patient in the vicinity of door frames.

CAUTION!

When putting on a sling and transferring a patient, make sure that patient's arms and shoulders remain inside the sling to prevent injuries.

CAUTION!

Make sure that a patient does not hold onto the lifting arm.

CAUTION!

Do not use leg adjustment function when a patient is lying above the base legs.

8.1 Lifting from a chair

To lift a person from a chair, follow the steps below:

1. Place a sling around a patient so that the base of the spine was in the carrier and patient's head was on the head support. Pull each femoral strap under a patient's thigh so that it protruded on the inside (fig.24).

Figure 24 – Placing a sling under a patient

2. Make sure that the device legs are entirely spread and the open section of the hanger bar is on the patient's shoulder level. Bring the lift to the patient and lock the rear castors.
3. Before attaching the sling to the hanger bar, make sure that straps at the arms and legs are properly placed at the right height.
4. Hang the shoulder clips on the outer pins of the hanger bar (fig.25).

Figure 25 – Attaching a sling to the outer pins of the hanger bar

5. Press the hanger bar adjustment button (fig.26), Inclining the hanger bar forward, attach the femoral clips to the outer pins of the hanger bar (fig.27).

Figure 26 – Hanger bar inclination adjustment

Figure 27 – Attaching a sling to the outer pins of the hanger bar

6. For most patients, a simple femoral clip attachment is recommended (fig.28).

Figure 28 – Simple femoral clip attachment

7. Unlock the rear castors before lifting. Raise the lifting arm until the sling straps are tight. It is necessary to check whether the sling has been put on correctly and the patient's position is comfortable.
8. Before transport, place a patient so that they face the medical personnel (a caregiver), approximately on the level of standard chair (fig.29). This improves the patient's well-being and the assistant's alertness.

Figure 29 – Patient's position during lifting from a chair

9. Activate the drive support system on the eFlow drive system panel.
10. Then, the device should be driven away from a chair. It is possible to adjust the inclination angle of the hanger bar to increase patient's comfort. The lift can be transported to another location (fig.30).

Figure 30 – Transporting the patient

11. After reaching the destination, spread the device legs if necessary.
12. Lower the patient by pressing and holding an adequate button until a patient is seated and the sling is loose. Lock the brakes and remove the sling from the lift.
13. Unlock the brakes and drive away with the device.

8.2 Lifting patient from a bed

To lift a patient from a bed, follow the steps below:

1. Before lifting a patient from a bed, make sure that there is enough free space (min. 120 mm) under the bed to drive over with the mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow.
2. If the patient is lying, turn them sideways. Their back should be directed towards the caregiver. Fold the sling in half, then place the sling at the bottom of the patient's back. Remember that the lower edge of the back panel of the sling should reach the coccyx and the upper edge should be at the patient's shoulders. Turn the patient on the other side, and then pull out the disassembled half of the sling on the other side of the patient.
3. Turn the patient on their back. Make sure that their back is completely on the sling material. Make sure that the back loops/clips are within the patient's upper back and the femoral loops/clips within the patient's thighs.
4. Raise the headboard of the bed so that the patient is seated.
5. Position the lift so that the hanger bar is on the patient's eyes level. Make sure the hanger bar is not too close to the patient's face. Lock the rear casters.
6. Before attaching the sling to the hanger bar, make sure that the straps at the arms and legs are at the proper height.
7. Hang the shoulder clips on the outer pins of the hanger bar.
8. Hang the femoral clips.
9. Unlock the rear castors before lifting. Raise the lifting arm until the sling straps are tight. It is necessary to check whether the sling has been put on correctly and if the patient is comfortably positioned.
10. If all above-mentioned requirements are met, lift the patient.
11. Activate the drive support system on the eFlow drive system panel.
12. After reaching the destination, spread the device legs if necessary.
13. Lower the patient by pressing and holding the appropriate button on the hand control until the sling is loose. Lock the brakes.
14. Remove the sling from the lift.
15. Unlock the brakes.
16. Drive away with the device.

8.3 Lifting from the floor

To lift a patient from the floor, follow the steps below:

1. The patient should be placed in a sling in the same manner as if they were lifted from a chair or a bed. Spread the device legs, bring the device to a patient and place their legs over the base (fig.31). Lock the brakes. Before attaching a sling to the hanger bar, make sure that none of the straps is under the device legs.

Figure 31 - Patient's position before lifting from the floor

2. For the patient convenience, you can put a pillow under their head when attaching a sling to the hanger bar.
3. Make sure that the open section of the hanger bar is on the patient's shoulder level. Hang the shoulder clips on the outer pins of the hanger bar (fig.32).

Figure 32 - Attaching a sling to the outer pins of the hanger bar

4. After attaching the shoulder straps, use the hanger bar adjustment function to set the hanger bar so that the femoral clips could be attached (fig.33).

Figure 33 - Attaching a sling to the outer pins of the hanger bar

5. Before lifting, unlock the brakes.
6. Raise the lifting arm until the sling straps are tight. It is necessary to check whether the sling has been put on correctly and if the patient is comfortably positioned.
7. Before lifting a patient from the floor, make sure that their legs do not touch the base of the device. If all above-mentioned requirements are met, lift a patient (fig.34).

Figure 34 - Checking if patient's legs do not touch the base of the device

9 Cleaning and disinfection

CAUTION!

Before cleaning, make sure that:

- all plugs are properly connected,
- none of the electrical components shows a sign of external damages.

Failure to comply may result in water or cleaning agents delving and causing malfunction or damage of the device or electrical components.

Electrical parts must not be washed with a water jet or pressure washers, etc. They can only be cleaned with a damp cloth.

If there is a suspicion that water or liquid agents have entered the electrical parts, stop the lift operation and immediately report the event to the service center.

If the above rules are not observed, serious damage to the device and further unforeseen consequences may occur.

CAUTION!

A sling should be chosen individually for each patient.

CAUTION!

Do not remove the battery when cleaning the device. The emergency switch must always be active during cleaning.

Cleaning is important part of successful, long term and trouble-free operation of the device. Routine cleaning of the lift is sufficient when it is used by the same patient. Disinfection of the lift is only necessary if there is visible infection of the material or potentially infected material (blood, stool, pus) or when there is high risk of infection.

Follow the points below:

1. Surfaces shall be cleaned with mild and environmentally friendly cleaning agents (such as Incidin OxyFoam S).

2. Accessible areas of handle and construction can be disinfected with mild and environmentally friendly cleaning agents.
3. Casters disinfection is only necessary if there is visible contact with infected or potentially infected material.
4. Do not use:
   – pastes, waxes, sprays;
   – strong detergents, solvents and cleaning agents containing solvents, alcohol and leather cleaning agents.

Use of unapproved cleaning and disinfecting agents may cause cracking of the material and changes in surface structure that will not be covered by the warranty.

10 Maintenance

CAUTION!

If the device is not used for a longer period, it is recommended that all electrical and mechanical parts be checked once a month by performing a test lift without the patient. In addition, the charger and actuator cables should be manually checked for possible damage after each mechanical load or after changing the location of the lift

10.1 Maintenance of support structure mechanism

1. Metal parts of the structure can be cleaned with a soft, damp cloth. Cleaned surfaces should be wiped dry each time. Do not use cleaning products containing alcohol.
2. All the mobile nodes should be lubricated once every six months or when loud noises occur during their work. Such nodes include:
   - axles of casters and actuators,
   - lifting arm rail.

   As a lubricant, we recommend using commercially available penetrating and lubricating agents (e.g., Wurth HHS 2000). Any leaks of excess of such agents should be immediately removed with a dry cloth.
3. Periodically – once every six months – the threaded connections should be inspected and, if necessary, any looseness should be removed. Any unavoidable looseness should be reported to the manufacturer's service and the device should not be used until the cause is removed

The manufacturer shall bear no responsibility if authorized service centers or medical companies fail to use the original parts or equipment.

10.2 Periodic inspection

The control is required every 12 months (EN ISO 10535:2021 recommendation) or every 8000 cycles, whichever comes first and each time after a failure/repair. The inspection should be carried out by the service. The minimum scope of inspection should include:

- visual check - in particular: the structure of the load-supporting device, the main actuator and its mounting, the brakes and the control devices, suspender belt,
- checking the correct functioning of the device control functions,
- maintenance of the support structure mechanism (see section 10.1),
- working load test for one lifting cycle with maximum load.

All repair actions, defects, damages, remarks and observations important for safety of the device should be recorded in the repair register with the date of inspection.

Control of slings should be done according to manufacturer's recommendations, but at least once every 6 months.

10.3 Manufacturer’s responsibility

CAUTION!

The expected service life, in case of normal use and under normal circumstances, apart from slings and batteries, is 7 years when serviced according to the instructions.

After 7 years from the date of manufacture of the device (and its equipment), the manufacturer shall not be liable for defects of the device and its equipment and the resulting consequences. The manufacturer is also not responsible for any consequences that the user or the patient may suffer as a result of, for example, incorrect installation of the device, or as a result of a misdiagnosis, improper use of the device and its equipment, incorrect interpretation or failure to follow the operating instructions and repairs carried out by unauthorized persons.

11 Troubleshooting

Problem	Solution
The device does not respond after pressing a button on the hand control	1. Check if the emergency switch is released. 2. Check the battery level status. 3. Check if the hand control cable is connected to the device. 4. Check if the battery is properly connected. 5. Check if the charging cable is disconnected. 6. Check if other cables are properly connected. 7. Check if the service indicator flashes. 8. Check if the device responds after pressing the lifting/lowering button on the control panel. 9. Contact a service center.
The device does not respond after pressing a button on the control panel	1. Check if the emergency switch is released. 2. Check the battery level status. 3. Check if the battery is properly connected. 4. Check if the charging cable is connected. 5. Check if the other cables are properly connected. 6. Check if the service indicator flashes. 7. Contact a service center.
The battery is not charging	1. Check if the emergency switch is released. 2. Check the battery level status. 3. Check if the battery is properly connected. 4. Check if the charging cable is connected. 5. Check if the service indicator flashes. 6. Contact a service center.
Device operation has been interrupted during patient lifting	1. Check the battery level status. 2. Check if the service indicator flashes. 3. Check if the device responds after pressing the lifting/lowering button on the control panel. 4. Contact a service center.
The device produces abnormal noises (cracking, etc.).	1. Contact a service center.
The device cannot be moved	1. Check if the brakes on the rear castors are released. 2. Contact a service center.
Drive system does not engage	1. Check if the battery is fully charged. 2. Check if the emergency switch is off. 3. Contact a service center.
Caster does not react	1. Contact a service center.
Creaking and squeaking of the drive system caster	1. Contact a service center.

If a problem continues, immediately stop using the device and contact the supplier or the manufacturer.

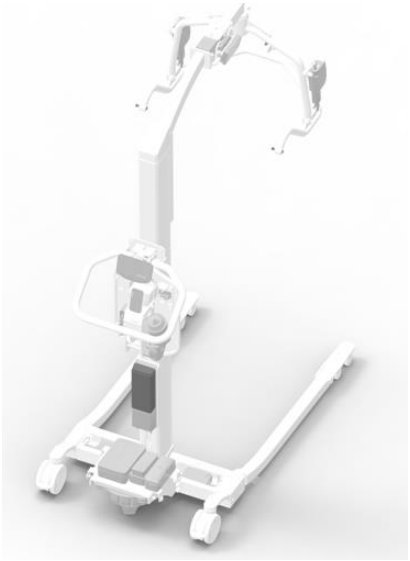
Service contact:

Tel: +48 94 344-90-48

e-mail: service@meden.com.pl

www.en.meden.com.pl/service

12 Recycling information



Metals

Waste of Electrical and Electronic Equipment

Lead battery (Pb) or Li-ION

Figure 35 – Mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow recycling

13 Electromagnetic compatibility – Guidance and manufacturer's declaration

CAUTION!

Do not use the lift in the environment where other devices that emit radio frequency energy are used. The device control system, like other electronic devices, generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. The device manufacturer cannot guarantee that interference will not occur even when the device is placed properly. To check if the lift causes interference to other devices, change its position or disconnect its battery. An user is encouraged to try to eliminate interference by reorienting or relocating the device, increasing separation distance between devices or consulting a service technician.

CAUTION!

Use of this equipment in vicinity of or adjacent to other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally

CAUTION!

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device*, including cables specified by the manufacturer. Otherwise, device performance may deteriorate.

CAUTION!

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and cause improper operation.

CAUTION!

The device* may be susceptible to electromagnetic disturbances, however they do not affect Basic Safety and Essential Performance.

Essential performance and safety – no unintended movement of any lift component

* Mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow

Guidance and manufacturer's declaration – electromagnetic emissions		
The device* is intended for use in electromagnetic environment specified below. The customer or the user of the device * should assure that it is used in such environment.		
Emissions test	**Compliance**	**Electromagnetic environment – guidance**
RF emission CISPR 11	Group 1	The device* uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emission CISPR 11	Class A	The device* is suitable for use in all establishments, other than domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration – electromagnetic immunity			
The device* is intended for use in electromagnetic environment specified below. The customer or the user of the device * should assure that it is used in such environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	± 8 kV (contact) ± 2/4/8/15 kV (air)	± 8 kV (contact) ± 2/4/8/15 kV (air)	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply 100 kHz	±2 kV for power supply 100 kHz	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	0 % UT; 0,5 cyklu at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles (50/60Hz) 1 phase: at 0° 0 % UT; 250/300 cycles (50/60Hz)	0 % UT; 0,5 cycle at 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315° 0 % UT; 1 cycle and 70 % UT; 25/30 cycles (50/60Hz) 1 phase: at 0° 0 % UT; 250/300 cycles (50/60Hz)	Mains power quality should be that of a typical commercial or hospital environment. If the user of the device* requires continued operation during power mains interruptions, it is recommended that the equipment* be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
NOTE UT is the ac mains voltage prior to application of the test level.			

Guidance and manufacturer's declaration – electromagnetic immunity			
The device* is intended for use in electromagnetic environment specified below. The customer or the user of the device * should assure that it is used in such environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment – guidance**
Conducted RF IEC 61000-4-6	3 V 0,15 MHz – 80 MHz 6 V in ISM bands between 0,15 MHz and 80 MHz 80 % AM, 1 kHz	3 V 0,15 MHz – 80 MHz 6 V in ISM bands between 0,15 MHz to 80 MHz 80 % AM, 1 kHz	NOTE: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the device*, including cables specified by the manufacturer. Otherwise, device performance may deteriorate. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
Radiated RF IEC 61000-4-3	10 V/m 80MHz to 2,7GHz	10 V/m 80MHz to 2,7GHz	
Proximity fields from RF wireless communications equipment IEC 61000-4-3	EN 60601-1-2:2015, Table 9 (see below)	Complies	
	☒ Professional healthcare environment	☒ Professional healthcare environment	

Proximity fields from RF wireless communications equipment						
Test frequency (MHz)	Band a) (MHz)	Service a)	Modulation b)	Maximum power (W)	Distance (m)	Immunity test level (V/m)
385	380 –390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27
450	430 – 470	GMRS 460, FRS 460	FM c) ± 5 kHz deviation 1 kHz sine	2	0,3	28
710	704 – 787	LTE Band 13, 17	Pulse modulation b) 217 Hz	0,2	0,3	9
745						
780						
810	800 – 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation b) 18 Hz	2	0,3	28
870						
930						
1720	1700 – 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation b) 217 Hz	2	0,3	28
1845						
1970						
2450	2400 – 2570	Bluetooth, WLAN 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28
5240	5100 – 5800	WLAN 802.11 a/n	Pulse modulation b) 217 Hz	0,2	0,3	9
5500						
5785						
NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.						
a) For some services, only the uplink frequencies are included. b) The carrier shall be modulated using a 50 % duty cycle square wave signal. c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.						

14 Warranty card

1. The seller (authorized representative, distributor) offers a 24-month warranty, starting from the date of purchase of the equipment, as indicated in a proof of purchase.
2. The seller (authorized representative, distributor) is responsible for any faults whether in quality or quantity occurring immediately after unpacking the product from its original shipment packaging only if they have been reported in a written form within 2 working days following the delivery.
3. The warranty will be fulfilled only by the authorized service team of the seller (authorized representative, distributor) or other technical service authorized by the manufacturer.
4. In case a faulty subassembly has already been repaired three times, the manufacturer shall be obliged to replace a faulty subassembly with a new one.
5. The user must ensure all the maintenance service described in the manual in order to benefit from the warranty coverage.
6. In case the installation and operation instructions have not been observed, the manufacturer shall bear no responsibility for the safety of the user or patient during the use of the unit.
7. The warranty does not cover faults of parts and materials resulting from natural wear and tear, which means faults other than material or workmanship, as well as faults resulting from poor or no maintenance (e.g., valves, bearings, guides, fans etc.).
8. The seller (authorized representative, distributor) shall bear no responsibility for any loss, whether consequential or incidental, including loss of profits or costs incurred that result from a failure to follow the instructions set out in the installation and user manual.
9. The seller (authorized representative, distributor) shall bear no responsibility resulting from this warranty for any loss, whether consequential or incidental, including loss of profits or costs incurred by failure of the equipment.
10. Faults that occur within the warranty period and are not reported to the authorized service are not covered by the warranty.
11. Costs resulting from an unfounded claim shall be borne by the user.
12. The warranty shall not cover equipment:
    - damaged as a result of fire and lightning or force majeure;
    - with a name plate and/or serial number or factory seals removed or damaged;
    - damaged due to its use in a manner other than defined in the operation manual;
    - where repairs or modifications have been done by unauthorized personnel;
    - damaged mechanically due to improper handling or transportation.
13. In case the equipment covered by the warranty has been re-sold, no new warranty document will be issued.
14. The warrantor shall not issue a duplicate of the Warranty Card.
15. This warranty does not exclude, limit or suspend your consumer statutory rights.

Mobile lift Eline/Eline Plus/Eline eFlow/Eline Plus eFlow											Date, signature and warrantor's stamp:
SN						-					

Repair registry	User comments