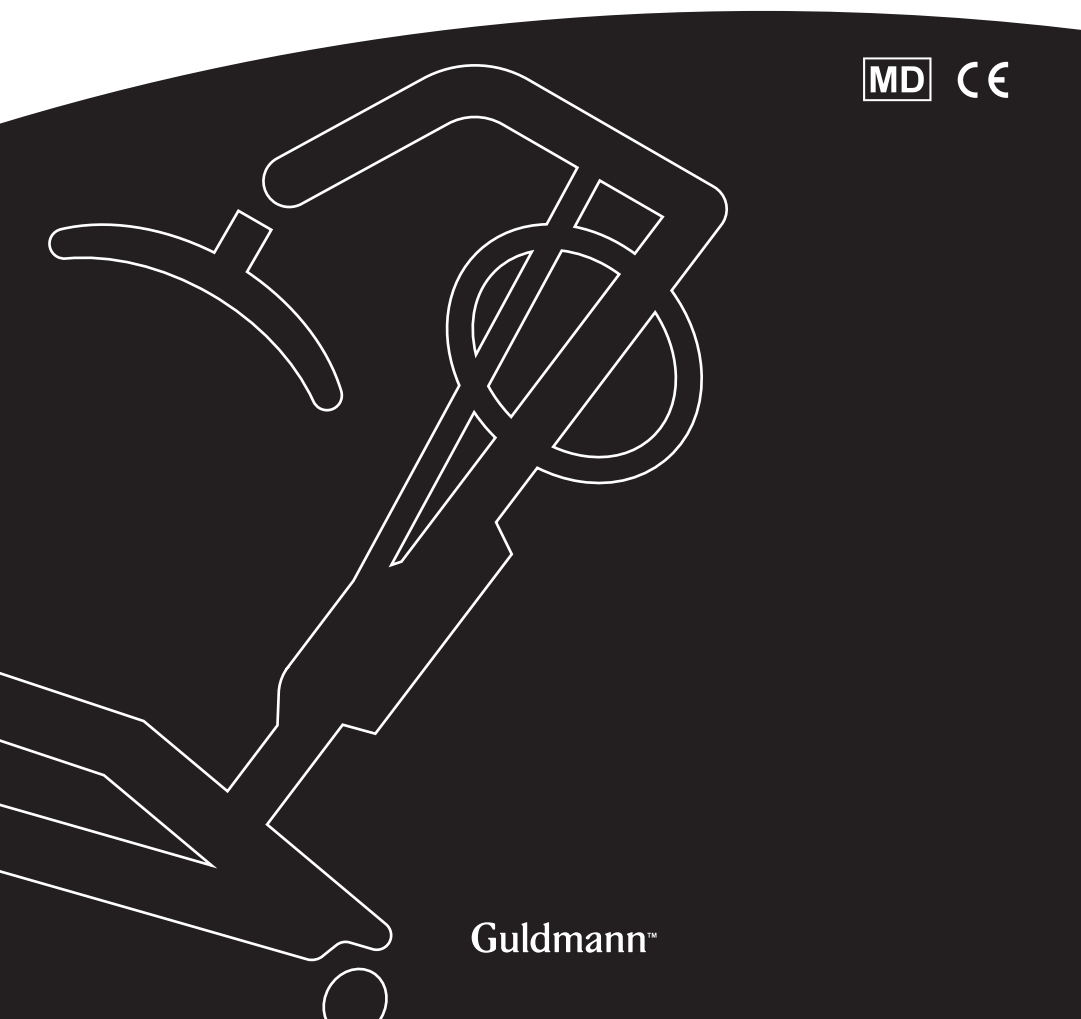




GB/US GL6 Mobile lifter

User manual – vers. 101.0



Guldmann™

GL6 Mobile Lifter

Vers. 101.0

Item nos:

568771-568778

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1.00	Intended purpose and use
1.01	Manufacturer V. Guldmann A/S Graham Bells Vej 21-23A DK-8200 Aarhus N Tel. + 45 8741 3100 www.guldmann.com
1.02	Intended purpose The GL6 mobile lifter is intended for lifting and transferring persons with reduced mobility or disabilities.
1.03	Area of use The GL6 is suitable for professional use in hospitals, nursing homes, rehabilitation centres, care institutions, and private homes and buildings, where medically or clinically trained healthcare professionals are continuously available, either on site or on call.
1.04	Conditions for use The GL6 mobile lifter is designed for indoor use when lifting and transferring persons with reduced mobility or disabilities. When using the GL6, the following conditions apply: • The GL6 must only be operated by trained healthcare professionals. • The healthcare professional must pay attention to the user's well-being when operating the GL6. • The GL6 must be moved at a speed no greater than normal walking pace. • The GL6 must not be modified without authorization from Guldmann. • All components must always be original Guldmann spare parts. • The GL6 is designed to be used with a variety of lifting hangers and lifting slings. Guldmann offers a range of lifting slings as accessories in different sizes and models to accommodate various lifting and transfer needs. V. Guldmann A/S cannot be held responsible for any damage or injury resulting from incorrect positioning of the lifting sling or inadequate attention by the healthcare professional.
1.05	Environment of use The GL6 is designed for indoor use on even and level surfaces. It is suitable for the following environments:

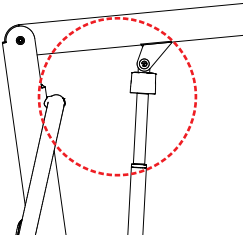
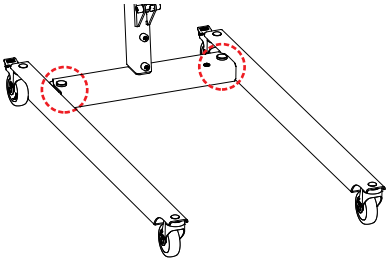
- Under beds and around chairs and wheelchairs using the adjustable legs.
- In wet areas.
However, it must not be exposed to splashing water.
- In multi-user environments.
When transferring the GL6 between users, wards, or rooms, perform the required cleaning and disinfection procedures.

1.06

Important safety information and warnings

Read and understand the following important safety information and warnings before using the GL6 mobile lifter. Failure to follow these instructions may result in injury to the user or the healthcare professional, or damage to the GL6.

Manual	• Read this user manual carefully before using, cleaning, or servicing the GL6.
Preparation	• Ensure that you are familiar with the controls, operating procedures, and safety features of the GL6. • Always plan the lift before starting. • Assess the user's condition and suitability for lifting before each lift.
Safe Working Load (SWL)	• Do not exceed the maximum safe working load (SWL).
Operation	• Use the GL6 only for lifting and transferring a person. • Exercise caution at all times during lifting and transferring. • Only use the GL6 on even and level surfaces. It has reduced mechanical stability if it is positioned sideways on a slope. • Do not move the GL6 over steps or thresholds. • Do not run the GL6 into persons or objects.
Lifting hangers and slings	• Do not use lifting slings that are damaged, frayed, or have illegible labels. • Do not lift or rotate the lifting hanger vertically while attaching the lifting sling straps.
Environment	• Do not use the GL6 in areas where it may be exposed to splashing water. • Do not use the GL6 in the presence of flammable anaesthetic mixtures containing air, oxygen, or nitrous oxide. • For detailed environmental conditions, see section 8.00 "Environmental conditions".
Pinch points	• When adjusting the legs of the GL6, ensure that no persons stand close to the legs due to the risk of being jammed. • Risk of entrapment between the red manual emergency lowering knob and the actuator sealing ring.

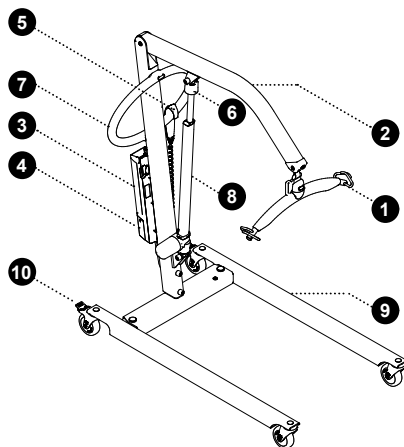
	 • Risk of entrapment between the legs and the base when adjusting the legs. 
Battery	• The GL6 includes a battery and must be used in accordance with the battery safety instructions provided in section 15 "Batteries". • If the battery turns hot, disconnect and remove the battery from the room. If not possible to remove the battery, then evacuate the room.
Electromagnetic compatibility (EMC)	• The GL6 requires special precautions regarding EMC and must be installed and put into service in accordance with the EMC information provided in section 14 "Electromagnetic compatibility (EMC) Information". • Portable and mobile RF communication equipment may affect the operation of the GL6. • The use of accessories, transducers, and cables other than those specified may result in increased electromagnetic emissions or reduced electromagnetic immunity of the GL6. • Do not use the GL6 adjacent to or stacked with other equipment unless necessary. If such use is unavoidable, verify that the GL6 operates normally in the intended configuration.

Maintenance and repair	- Do not use the GL6 if it is damaged. Contact a qualified service technician or the Guldmann Service Team before further use. - Replace the lifting actuator only in accordance with Guldmann's instructions.
Incident reporting	Report any serious incident related to the GL6 to V. Guldmann A/S and the local competent authority.

2.00 GL6 overview

The illustration below shows the main components of the GL6 mobile lifter.

1. Sling attachment hooks
2. Lifting boom
3. Battery
4. Control box
5. Hand control
6. Emergency lowering manual
7. Push handle
8. Lifting actuator
9. Chassis leg
10. Brake/release



2.01 GL6 variants

The GL6 is available in two variants: GL6 Basic and GL6 Advanced. Both variants have the same intended purpose, functionality, and mechanical design. The differences between the variants are listed below.

GL6 Basic

- Lifting speed: 25 mm/sec
- Basic hand control with lifting and leg adjustment buttons.
- Lead-acid batteries

GL6 Advanced

- Lifting speed: 36 mm/sec
- Advanced hand control with lifting and leg adjustment buttons, battery indicator light, and service indicator light.
- Long-life lithium-ion batteries

2.02 Accessories

For a complete overview of available accessories, including lifting hangers, lifting slings, and external chargers, contact your supplier or visit www.guldmann.com.

3.00 Unpacking and preparing the mobile lifter

This section describes how to unpack, inspect, and assemble the GL6 mobile lifter, perform the initial battery charge and pre-use checks, and recharge the battery during normal use.

3.01 Visual inspection

If the packaging is damaged upon receipt, carefully inspect all parts of the GL6 for visible signs of damage. If any damage is identified or suspected, the GL6 must not be used until it has been inspected and approved by a qualified service technician or the Guldmann Service Team.

3.02 Unpacking

Unpack the GL6 on a level indoor surface and gently remove the cable ties and protective foam.

The GL6 is delivered in these separate parts:

- Floor structure with base (incl. leg actuator) and two legs (incl. wheels)
- Mast (with control box mounted) and lifting arm
- Lifting actuator
- Push handle
- Hand control
- Battery
- Charger cable
- Control box cover

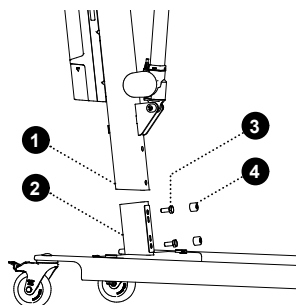
Assembly instructions

Follow the steps below to assemble the GL6. Perform the steps in the order shown.

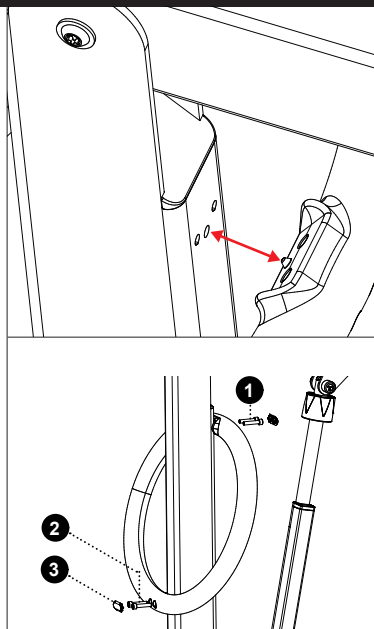
Guldmann recommends that assembly of the GL6 is carried out by a person with basic mechanical knowledge.

1. Mount the mast and lifting arm onto the floor structure

1. Position the mast (1) onto the floor structure (2).
2. Ensure that the mast is fully seated.
3. Fasten the two bolts securing the mast (3) (using a 17 mm spanner).
4. Fit the two plastic caps (4) on the bolts.

**2. Mount the push handle**

1. Carefully slide the push handle over the lifting arm.
2. Ensure that the small pin between the upper holes is fitted into the centre hole on the mast.
3. Fasten the two upper screws (1) securing the push handle to the mast (using a 5 mm Allen key).
4. While supporting the lifting arm, fasten the two lower screws (2) securing the push handle to the mast (using a 5 mm Allen key).
5. Fit the four plastic plugs (3) on the push handle.



3. Mount the lifting actuator

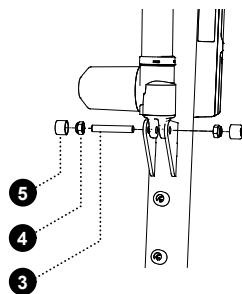
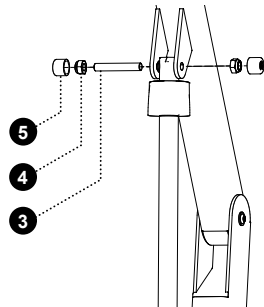
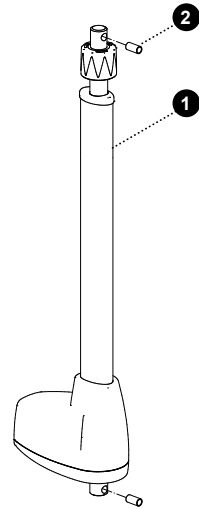
1. While supporting the lifting actuator, insert the upper bolt (3) securing the top of the lifting actuator to the lifting arm.

Note: GL6 Advanced only: Insert the bushing (2) in the lifting actuator (1) before inserting the bolt (3).

2. While supporting the lifting arm, insert the lower bolt (3) securing the bottom of the lifting actuator to the mast.

Note: GL6 Advanced only: Insert the bushing (2) before inserting the bolt (3).

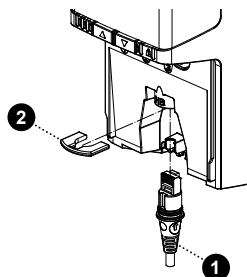
3. Tighten the four lock nuts (4) (two at the top of the lifting actuator and two at the bottom) (using 2x17 mm spanners).
4. Fit the four plastic caps (5) on the lock nuts.



4. Connect the hand control to the control box

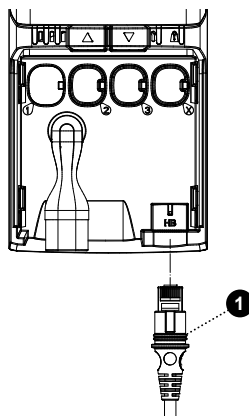
GL6 Basic

1. Connect the hand control cable to the control box (1).
2. Insert the cable lock (2) that locks the hand control cable.



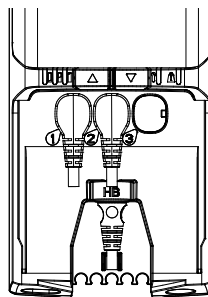
GL6 Advanced

1. Connect the hand control cable to the control box (1).



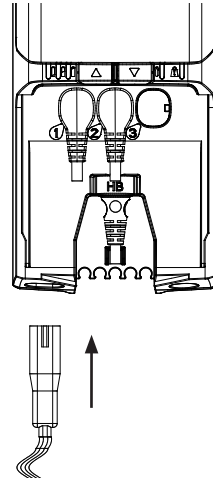
5. Connect the actuator cables to the control box

1. Connect the lifting actuator cable to plug 1 on the control box.
2. Connect the leg actuator cable to plug 2 on the control box.
3. Insert the actuator cables into the cable clips on the control box.



6. Connect the charger cable to the control box

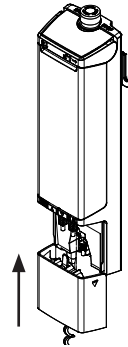
1. Connect the charger cable to the control box.



7. Mount the cover on the control box

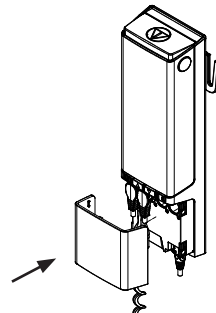
GL6 Basic

1. Slide the control box cover into the designated groove on the control box until it locks into place.



GL6 Advanced

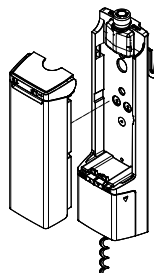
1. Slide the control box cover into the designated grooves on the control box until it locks into place.



8. Mount the battery on top of the control box

GL6 Basic

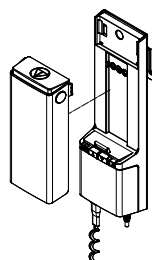
1. With the battery handle open, position the bottom of the battery over the two guide pins.
2. Push the upper part of the battery into place.
3. Press down the battery handle to lock the battery.



GL6 Advanced

1. Hold the battery on both sides.
2. Position the bottom of the battery over the guide pin.
3. Push the upper part of the battery into place.

The battery is correctly mounted and secured when a click is heard.



3.04

Initial battery charge

The battery supplied with the GL6 is not fully charged on delivery and must be charged before first use. A full charge is recommended, duration max. 5 hours. For charging instructions, see section 3.06 "Charging the battery".

Important:

For GL6 Basic, the first battery recharge must take place no later than 6 months after the production date stated on the product label.

3.05

Checklist before use

Before first use (GL6 Advanced only):
Reset the service indicator by pressing the Up and Down buttons on the control box simultaneously for 5 seconds.

Before each use, perform the following checks:

1. Disconnect the GL6 from charging.
2. Check that the GL6 can lift and lower, and that the legs can open and close.

Important: If you hear an audio alarm (beeping sound), do not use the GL6. It needs to be charged.

3. Check that the battery indicator light on the control box illuminates green when a button is activated. For GL6 Advanced, also check that the battery indicator light on the hand control illuminates green.
4. Check that the emergency stop and emergency lowering functions are working. For details, see section 4.03 "Safety functions".
5. Ensure that the GL6 moves freely.
6. Inspect the lifting sling for damage or fraying.

After fitting the lifting sling (see section 5.01.02 "Attaching the lifting sling"), the GL6 is ready for use.

3.06 Charging the battery

Recharge the GL6 every night or whenever it is not in use. Regular charging helps maintain battery performance and prolong battery life. Avoid fully discharging the battery.

3.06.01 Charging instructions

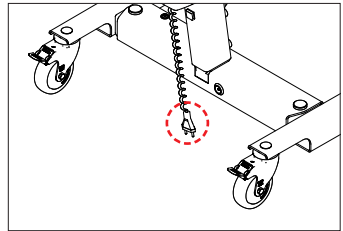
Important:

- **The GL6 cannot be used while charging.**
- **Do not charge the GL6 in bathrooms or similar wet areas.**

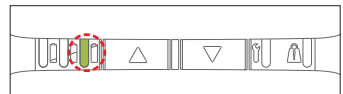
1. Ensure that the power cord (charger cable) is connected to the control box.
2. Connect the power cord to the wall socket.

Important:

Ensure the wall socket is turned off before connecting the power cord.



3. Switch on the wall socket.
4. The charging indicator light on the control box flashes green while charging.



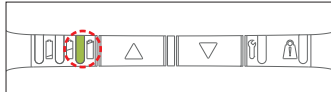
The maximum charging time is 5 hours.

5. Charging stops automatically when the battery is fully charged.

When fully charged:

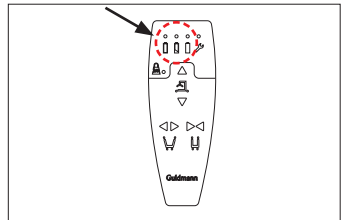
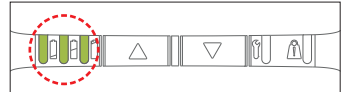
GL6 Basic:

The battery indicator light on the control box is illuminated green.



GL6 Advanced:

All three battery indicator lights on the control box and the hand control are illuminated green.



6. Disconnect the power cord from the wall socket.
7. Allow up to 15 seconds for battery capacity calibration before using the GL6.

4.00 Operating the mobile lifter

This section describes the operation of the GL6, the meaning of the indicator lights and audio signals, and the safety functions.

4.01 Operation

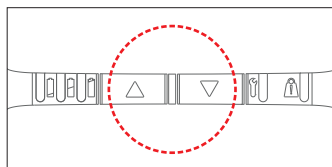
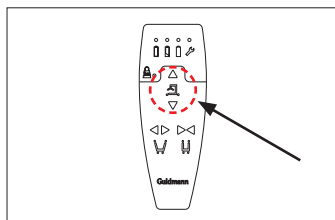
The GL6 can be operated using the hand control or the buttons on the control box. The functions available depend on the GL6 variant.

4.01.01

Lifting and lowering

Use the Up and Down buttons on the hand control or control box to lift and lower the user:

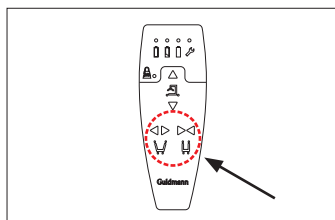
- To lift the user, press the Up button.
- To lower the user, press the Down button.



4.01.02

Leg adjustment

Use the left and right arrow buttons on the hand control to adjust the leg spread:



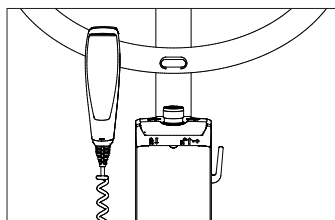
- To switch between modes on the hand control, one button needs to be released before activating the next.
- Use the maximum width setting when lifting from or to wide chairs, or when lifting from or to a bed, toilet, or the floor.

Note: When maneuvering the GL6, the legs must be in the closed, narrow position.

4.01.03

Parking the hand control

When not in use, place the hand control on the push handle.



4.01.04

Standby mode

The GL6 automatically enters standby mode after 2 minutes of inactivity.

4.02

Indicator lights and audio signals

4.02.01

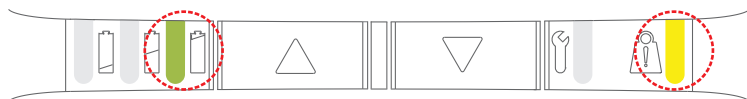
GL6 Basic

Hand control

The GL6 Basic hand control does not contain any indicator lights. All status indications are provided by the control box.

Control box

On the GL6 Basic control box, only indicator lights 3 and 5 are used. These indicator lights indicate battery status, charging status, and system status.

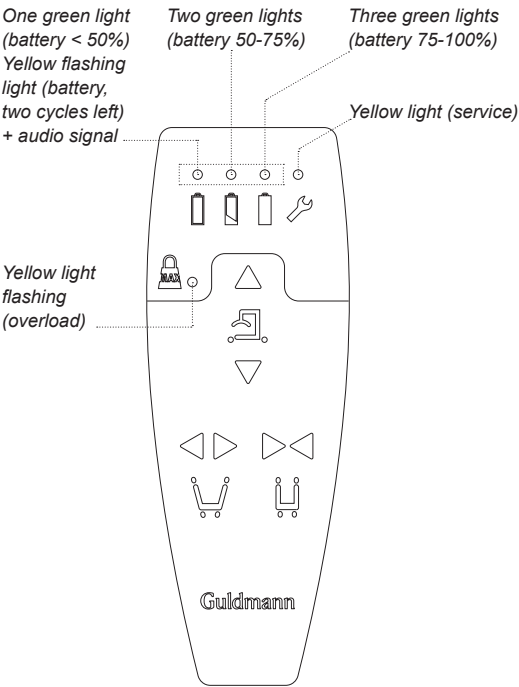


The table below shows the meaning of the indicator lights and audio signals, and shows which functions are available in each operating state. The indicator lights are illuminated when the GL6 is active (i.e. when a button is pressed). After 2 minutes of inactivity, the GL6 enters standby mode and the indicator lights turn off.

Status	Indicator light	Audio signals	Available functions			
			Up	Down	Leg adjustment	Emergency lowering
Control box						
Battery level high	Green light		x	x	x	x
Battery level low (needs charging)	Green light flashing	Single beep at button activation	x	x	x	x
Critically low battery (two cycles left)	Green light flashing	Constant beep at button activation	x	x	x	x
Overload	Yellow light flashing	Beeps twice at button activation		x		x
Charging	Green light flashing					
Fully charged	Green					

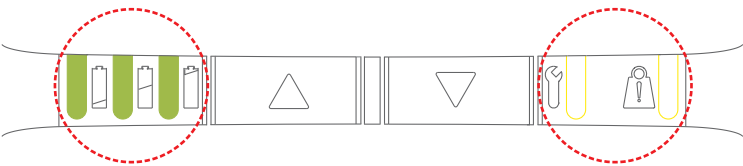
Hand control

The GL6 Advanced hand control contains five indicator lights: three battery indicators, one service indicator, and one overload indicator.



Control box

On the GL6 Advanced control box, all five indicator lights are used. These indicator lights indicate battery status, charging status, and system status.



The table below shows the meaning of the indicator lights and audio signals, and which functions are available in each operating state. The indicator lights are illuminated when the GL6 is active (i.e. when a button is pressed). After 2 minutes of inactivity, the GL6 enters standby mode and the indicator lights turn off.

Status	Indicator light	Audio signals	Available functions			
			Up	Down	Leg adjustment	Emergency lowering
Control box						
Battery level 75-100%	3 green lights		x	x	x	x
Battery level 50-75%	2 green lights		x	x	x	x
Battery level <50%	1 green light		x	x	x	x
Critically low battery (two cycles left)	Control box: 1 yellow light flashing	Beeps at button activation	x	x	x	x
	Hand control: 1 green light flashing		x	x	x	x
Service	Yellow light		x	x	x	x
Overload	Yellow light flashing for 10 seconds			x		x
Charging	Green light flashing					
Fully charged	Green					

4.03

Safety functions

Only use the emergency stop and emergency lowering functions in emergency situations.

If an emergency function has been activated due to a fault or malfunction of the GL6, contact your supplier before using the GL6 again.

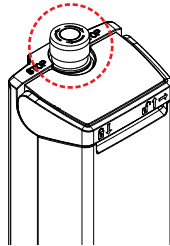
4.03.01

Emergency stop

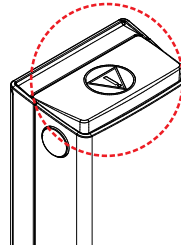
Activating the emergency stop

If it is necessary to stop all GL6 functions immediately, press the red emergency stop button on top of the battery. This may, for example, be necessary if the GL6 does not respond to the functions selected on the hand control while it is in motion.

GL6 Basic



GL6 Advanced



When the emergency stop is activated, the GL6 ceases to function.

Releasing the emergency stop

GL6 Basic

1. Turn the red emergency stop clockwise until it pops out.

GL6 Advanced

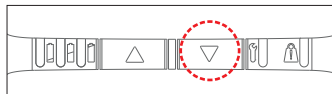
1. Remove the battery by pressing the two buttons on the sides of the battery. Then, pull out the battery.
2. Reinstall the battery by positioning the bottom of the battery over the guide pin and pushing the upper part of the battery into place.

4.03.02 Emergency lowering

Lowering using the control box

If the Down button on the hand control does not work, the lifting arm can be lowered using the Down button on the control box:

1. Press the Down button on the control box.

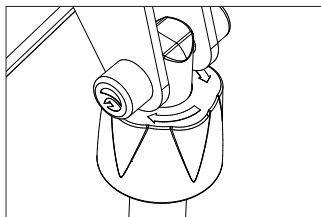


2. Continue pressing the button until the user has been safely lowered.

Manual emergency lowering

In the event of a power failure, or if the lifting arm cannot be lowered using the Down button on the control box, use the manual emergency lowering function:

1. Turn the red knob on the lifting arm clockwise.

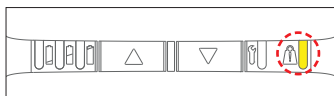


2. Continue turning the knob until the user has been safely lowered.

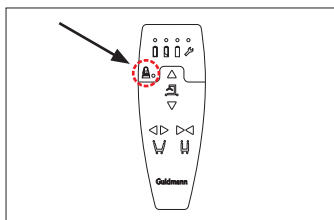
4.03.03

Overload

In the event of overload, the yellow overload indicator light on the control box flashes yellow.



For GL6 Advanced, also the overload indicator light on the hand control flashes yellow.



The GL6 cannot lift while overloaded.

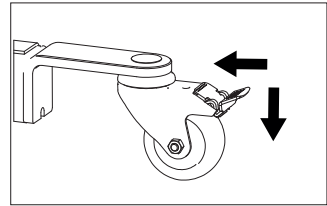
Safely lower the user, reduce the load, and ensure that the load is within the maximum safe working load before attempting to lift again.

4.03.04

Brakes

The rear wheels are fitted with brakes:

- Activate the brakes by pressing the lower part of the brake pedal with your foot.
- Release the brakes by pressing the upper part of the brake pedal with your foot.



During normal operation, the wheels should remain unlocked to allow the GL6 to centre itself according to the user's line of gravity. Locking the brakes during operation may increase the risk of skin shearing or cause the user to be pulled out of position.

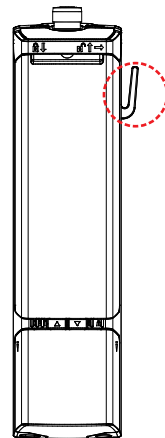
In some situations, a clinical assessment may determine that the wheels must be locked.

The brakes must be activated when the GL6 is parked.

4.04

Cable hanger

The cable hanger is used for storing the power cord (charger cable) or the hand control cable when not in use. Always secure loose cables using the cable hanger to help prevent damage to the cables and reduce the risk of tripping.



5.00 **Lifting and transferring a user**

This section describes how to mount the lifting hanger, attach the lifting sling, and safely lift and transfer users.

5.01 **Preparing for lifting**

5.01.01 **Mounting the lifting hanger**

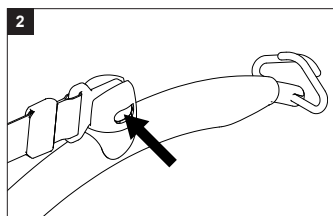
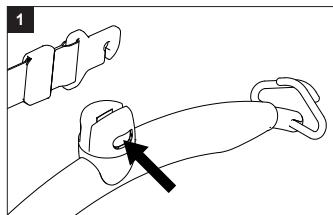
Lifting hangers from other manufacturers

Guldmann shall not be liable for faults or accidents that may occur as a result of using lifting hangers made by other manufacturers.

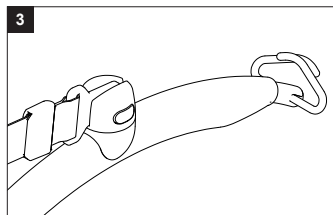
If there is any doubt about the selection or use of a lifting hanger, please contact your supplier.

The lifting hanger can be mounted to the lifting strap without using any tools.

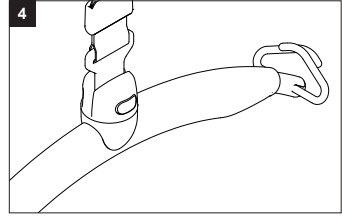
1. Press and hold the yellow button while inserting the lifting strap hook into the opening on the top cover of the lifting hanger.



2. Release the yellow button.



3. Rotate the strap attachment to a vertical position.
4. Check that the yellow button has returned to its locked position by checking that it is flush with the cover of the lifting hanger and that the strap attachment can rotate freely



5.01.02

Attaching the lifting sling

A lifting slings with 4-6 straps designed for mounting on hooks should be used when using a Guldmann lifting hanger, as described in the relevant Guldmann lifting sling user manual.

Slings made by other manufacturers

Guldmann shall not be liable for faults or accidents that may occur as a result of using lifting slings made by other manufacturers.

If there is any doubt about the selection or use of a lifting sling, please contact your supplier.

Guldmann shall not be liable for faults or accidents due to incorrect use of the lifting sling, or for reasons of inadequate attention on the part of the healthcare professional or user.

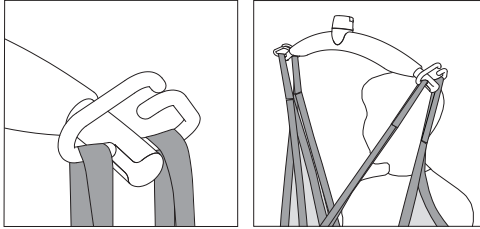
Attaching the sling straps

1. Place the straps from the lifting sling on the hooks of the lifting hanger.
2. Attach the top set of straps (from the back) to the hooks facing the user.
3. Attach the lower set of straps (from the legs) to the hooks facing away from the user.

Caution:

Lifting hanger with 4 attachment points:

- Be careful when attaching the straps to the hooks.
- Ensure that the straps are correctly positioned in the hooks.
- When pressing the Up button on the hand control to lift the user, verify that all straps remain correctly positioned in the lifting hanger hooks



Note: If there is any doubt about how to use the sling, please contact your supplier

V. Guldmann A/S cannot be held responsible for any faults or accidents that may occur due to incorrect positioning of the lifting hanger, or for reasons of inadequate attention paid by healthcare professionals or the user.

5.01.03 Safe handling and manoeuvring

- Always maintain a good working posture when moving the GL6. Stand with one foot in front of the other and push the GL6 forward using your body weight.
- When moving a person, use the push handle and move the GL6 forwards and backwards while keeping the load as close to your body as possible.
- Never pull or twist at arm's length, as this may cause injury to the healthcare professional.
- When turning the GL6, two healthcare professionals are recommended. If only one healthcare professional is available, stand alongside the GL6 and push on the side of the mast to minimise the turning radius.
- Whenever possible, make the heaviest part of the GL6 the centre of rotation.
- If space is limited, you may use your foot to push the floor structure in the direction you wish to turn.

5.02 Lifting from seated position

Use the following procedure when lifting a user from a chair, wheelchair, or other sitting positions.

1. Open the legs of the GL6 (using the buttons on the hand control).
2. Ensure that the wheelchair or commode chair brakes are applied.

3. Position the GL6 around the chair.
4. Position the lifting arm and lifting hanger at chest height and above the middle of the user's thighs.
5. Position the lifting hanger parallel to the user's shoulders.
6. Place the lifting sling behind the user's back, e.g. between the backrest and the user's back.
7. Ensure that the centre band of the sling follows the user's spine. For the Active slings type, the size label should be positioned opposite the spine.
8. Bring the leg straps along the outside of the thighs and then underneath the thighs, between the knee and the hip.
9. Cross the leg straps in front of the user.
10. Attach all sling straps to the lifting hanger.
11. Before lifting, ensure that all straps are correctly attached and securely positioned in the lifting hanger hooks.
12. Press the Up button on the hand control to lift the user.
13. When the user is free of the chair, move the GL6 backwards until the user is clear of the chair.
14. Transfer the user using the push handle and move the GL6 forwards and backwards as required.

For detailed instructions on sling selection, fitting, and use, refer to the relevant Guldman lifting sling user manual.

5.03

Lifting from lying position

Use the following procedure when lifting a user from a lying position in bed, on a mattress or on the floor.

1. Position the lifting arm and lifting hanger directly above the bed.
2. Move the GL6 until the lifting arm and lifting hanger are positioned above the centre of the user.
3. Position the lifting arm and lifting hanger parallel to the user's shoulders.
4. Turn the user onto their side.
5. Place the high back lifting sling so that its upper edge is level with the top of the user's head.

6. Position the sling so that the centre band follows the user's spine.
7. Turn the user onto their back and pull the sling into position.
8. Bring the leg straps under the thighs and cross them over.
9. Attach all sling straps to the lifting hanger.
10. Before lifting, ensure that all straps are correctly attached and securely positioned in the lifting hanger hooks.
11. Press the Up button on the hand control to lift the user.
12. When the user is free of the bed, stop lifting and rotate the user so that their legs are positioned over the side of the bed.
13. Move the GL6 backwards until the user is clear of the bed.
14. Transfer the user using the push handle and move the GL6 forwards and backwards as required.

For detailed instructions on sling selection, fitting, and use, refer to the relevant Guldmann lifting sling user manual.

6.01

Cleaning and disinfection

Clean the GL6 and all surfaces that may come into contact with users and healthcare professionals using a damp cloth, warm water, and a mild soap solution.

When disinfection is needed, use disinfectant wipes containing up to 85% isopropyl alcohol, or a damp cloth with warm water and a disinfectant cleaner, e.g. a chlorine solution of up to 1500 ppm.

If other chemicals and/or liquids with a higher concentration than those specified above are to be used, contact Guldmann and provide the chemical composition and safety data sheet for evaluation.

Caution: Take great care to ensure that no liquids get inside the GL6. The GL6 is not waterproof. Failure to protect the GL6 from liquids may result in damage to the mobile lifter and could cause personal injury.

6.02

Transportation and storage

The GL6 can be dismantled for transport and storage.

Always transport and store the dismantled GL6 in its original packaging whenever possible.

Store the GL6 in a dry room with a humidity not exceeding 70%. The GL6 must never be stored in bathrooms or similar wet areas. For detailed environmental conditions during transport and storage, see section 8.00 "Environmental conditions".

Note: Always activate the emergency stop before placing the GL6 into storage.

Recharging during storage

If the GL6 is not used for a long period, periodically check and charge the battery as required.

- *GL6 Basic:* Recharge the battery at least every 6 months.
- *GL6 Advanced:* Recharge the battery at least every 12 months.

6.03

Preventing corrosion

Do not store the GL6 in damp environments for long periods. Moisture may condense on the GL6 and cause corrosion.

Avoid exposing the GL6 to sudden temperature changes. For example, do not move a cold GL6 into a hot bathroom.

7.00

Service and lifetime

7.01

Service

In accordance with EN/ISO 10535 "Hoists for the transfer of persons with disabilities – Requirements and test methods", the GL6 mobile lifter must undergo a safety inspection at least once a year.

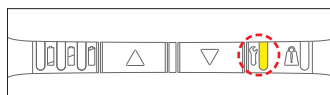
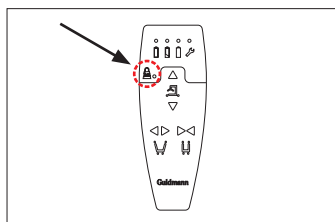
The current periodic inspection checklist, as well as spare parts lists and drawings, are available on request from your supplier or from Guldmann.

Caution: No part of the GL6 may be serviced while the mobile lifter is being used with a user.

7.01.01

Service indicator (GL6 Advanced only)

The service indicator light illuminates yellow on the hand control and the control box when the service date is exceeded. The GL6 can still be operated.



7.02

Lifetime

The GL6 has an expected lifetime of 10 years.

The expected lifetime is based on correct use, cleaning and maintenance, and annual service carried out by qualified service technicians or the Guldmann Service Team.

At the end of its expected lifetime, the GL6 must be assessed by a qualified service technician to determine whether it is suitable for continued use.

The lifetime of the lifting actuator depends on how often the GL6 is used.

8.00

Environmental conditions

During operation

The GL6 is intended for use under the following environmental conditions:

- Operating temperature: +10°C to +35°C (50°F to 95°F).
- Relative air humidity: 30% to 70%
- Air pressure: 700 hPa to 1060 hPa

For safety reasons, always observe the indicated operating and charging temperature limits.

During transport and storage

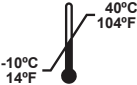
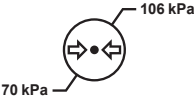
The following environmental conditions apply during transport and storage:

- Transport and storage temperature: -10°C to +40°C (14°F to 104°F).
(+10°C to +25 °C (50°F to 77 °F) is recommended).
- Relative air humidity: 30% to 70%
- Air pressure: 700 hPa to 1060 hPa
- Batteries must be stored in an applicable storage room without direct sunlight.

8.01

Symbols on the packaging

The following symbols are displayed on the packaging:

	Transport and storage temperature
	Relative air humidity
	Air pressure
	Fragile
	This side up
	UN 3481 Li-Ion battery

Issue

The GL6 does not respond when the hand control buttons are pressed

Action

1. Is the indicator light illuminated green or yellow on the hand control when the buttons are pressed (*GL6 Advanced only*)?

- **Yes:** Go to point 6.
- **No:**
 - No indicator light is illuminated > Go to point 2.
 - Only an yellow indicator light is illuminated > Go to point 3.
 - The service indicator light is illuminated yellow or an audio alarm (beep) is heard.
For details, see section 4.02 "Indicator lights and audio signals".

2. Is the battery mounted on the GL6?

- **Yes:** Go to point 4.
- **No:** Mount a fully charged battery.
For details, see section 3.03 "Assembly instructions".

3. Is a sufficiently charged battery mounted on the GL6?

- **Yes:** Go to point 4.
- **No:** Mount a fully charged battery or charge the battery.
For details, see section 3.03 "Assembly instructions" and section 3.06 "Charging the battery".

4. Is the emergency stop activated?

- **Yes:** Go to point 4.
- **No:** Mount a fully charged battery or charge the battery.
For details, see section 3.03 "Assembly instructions" and section 3.06 "Charging the battery".

5. Is the hand control connected to the control box, and does the GL6 respond when the control box buttons are pressed?

- **Yes:** Replace the hand control.
- **No:** Connect the hand control cable to the control box.

6. Are the lifting actuator cable and/or leg actuator cable connected to the control box?

- **Yes:** Go to point 5.
- **No:** Connect the actuator cables to the control box.

If the fault cannot be found or corrected, contact the Guldmann Service Team.

10.00

GL6 variants

The GL6 is available in two variants: GL6 Basic and GL6 Advanced. The table below lists the variants and provides an overview of their model options.

Lifting speed		Battery		SWL		Wheel diameter	
25 mm/s	36 mm/s	Lead acid	Li-Ion	155 kg (341 lbs)	205 kg (451 lbs)	75 mm	100 mm
GL6 Basic variants							
x		x		x		x	
x		x		x			x
x		x			x	x	
x		x			x		x
GL6 Advanced variants							
	x		x	x		x	
	x		x	x			x
	x		x		x	x	
	x		x		x		x

11.00

Symbols and labels

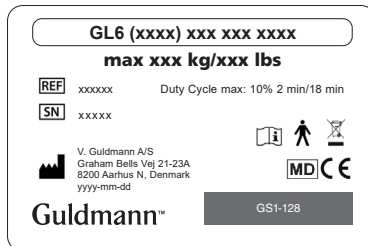
The table below lists the symbols and labels used on the GL6 and explains their meaning.

	Read the manual before use
	CE marking
	Medical Device Class I in accordance with EU MDR Regulation
	Type B in accordance with UL/EN 60601-1

	Battery condition and charging
	Must not be disposed of as standard household waste, must be recycled
	Lifting arm vertical movement (up/down)
	Leg adjustment

Label examples

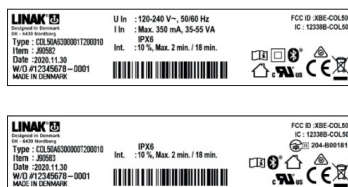
Serial number label

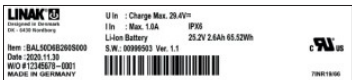
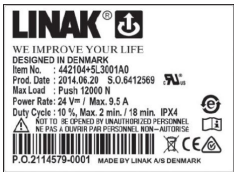


Hand control



Control box



Battery	 LINAK Designed in Denmark Art. 1400-Handpiece Item : BAL500B2605000 Date : 2020.11.30 WDA # 1248470-1001 MADE IN GERMANY U In : Charge Max. 25.4V I In : Max. 1.8A IPX8 Li-Ion Battery 25.2V 2.6Ah 65.52Wh S.N. : 00000003 Ver. 1.1 r.a.s. 770616100
Lifting actuator	 LINAK WE IMPROVE YOUR LIFE DESIGNED IN DENMARK Item No. : 442104+S.3001A0 Prod. Date : 2014.06.20 S.O.6412969 Max Load : Pushy 12000 N Power Rate: 24 Vm / Max. 9.5 A Duty Cycle: 10 %, Max. 2 min. / 18 min. IPX4 NOT TO BE OPENED BY UNAUTHORISED PERSONNEL NE PAS A OUVRIER PAR PERSONNEL NON-AUTORISÉ P.O.2114579-0001 MADE BY LINAK A/S DENMARK r.a.s. CE P.O.2114579-0001

12.00 Regulatory compliance

The GL6 complies with Regulation (EU) 2017/745 on medical devices and is classified as a Class I medical device.
The EU Declaration of Conformity is available from manufacturer upon request or at www.guldmann.com.

13.00 Environmental management

V. Guldmann A/S is certified according to ISO 14001: 2015.

14.00 Electromagnetic compatibility (EMC) Information

GUIDANCE AND MANUFACTURER'S DECLARATION

The GL6 has been tested and found compliant with the electromagnetic emissions and immunity requirements of EN 60601-1-2. The GL6 is intended for use in professional healthcare facility environments and home healthcare environments. The customer or the user should ensure that the device is used in such an environment.

Electromagnetic EMISSIONS			
Standard	Type	Compliance level	Guidance
CISPR 11	RF emissions	Group 1, Class B	The GL6 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.

IEC 61000-3-2	Harmonic emissions	Class A	The GL6 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
IEC 61000-3-3	Voltage fluctuations/ flicker emissions	Complies	

Electromagnetic IMMUNITY			
Standard	Type	Compliance level	Guidance
IEC 61000-4-2	Electrostatic discharge (ESD)	± 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 %
IEC61000-4-4	Electrical fast transient/ burst immunity	± 2 kV for power supply lines ± 1 kV for input/ output lines	Mains power quality should be that of a typical commercial or hospital environment.
IEC 61000-4-5	Surge	± 1 kV differential mode ± 2 kV common mode	
IEC 61000-4-11	Voltage dips, short interruptions and voltage variations on power supply input lines	0 Vac, 0.5 cycle; 0 Vac, 1 cycle; 161 Vac, 25 cycles 0 Vac, 250 cycles	
IEC 61000-4-8	Power frequency magnetic field	30 A/m 50/60 Hz	The power frequency magnetic field should be measured in the intended installation location to assure that it is sufficiently low.
IEC 61000-4-6	Conducted RF disturbances induced by RF fields	3 Vrms 150 kHz to 80 MHz 6 Vrms, HF & ISM bands	Portable RF communications equipment, including accessories, such as cables and external antennas, should be used no closer than 30 cm (12 inches) from any part of the GL6, including cables specified by the manufacturer. Failure to maintain this separation distance may result in degradation of device performance.
IEC 61000-4-3	Radiated RF disturbances induced by electromagnetic fields	80 MHz to 2.7 GHz 10 V/m	The GL6 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. Users can help prevent electromagnetic interference by maintaining an appropriate distance between portable RF communications equipment and the GL6.
IEC 60601-1-2	Proximity fields from RF wireless communications equipment	Table 9 of standard	The GL6 has passed for immunity to RF wireless communications equipment operating at frequencies and test levels specified in IEC 60601-1-2:2015.

Note: The GL6 maintained basic safety and essential performance during all RF immunity tests.

Recommendations

- Charge the battery fully before first use.
- Allow the battery to settle to room temperature before use or charging.
- The GL6 is not intended for use in outdoor applications and indoor pool environments.
- Do not exceed the duty cycle as it will shorten the product life, reduce performance and eventually activate excess temperature protection.
- If the battery is completely discharged, then recharge the battery before storage.
- Always use correct Guldmann charger.
- Do not exceed the storage temperature as it will shorten the product life and performance. For details, see section 8.00 "Environmental conditions".

Warnings**DO NOT:**

- place any objects on or over the battery.
- use the batteries in pool areas.
- expose the batteries to water or other liquids.
- use batteries with signs of damage or corrosion.
- heat, burn or short-circuit the batteries.
- expose the batteries to high impact.
- drop, crush or puncture the batteries.
- charge or store the batteries near combustible material.
- exceed IP ratings.

Any of the above-mentioned can cause fire or injury

Warnings

ALL LI-ION BATTERY USERS MUST READ THESE IMPORTANT BATTERY SAFETY INSTRUCTIONS AND WARNINGS BEFORE USING LI-ION BATTERIES.

Failure to read and follow these safety instructions and warnings may result in fire, personal injury, and equipment damage if the batteries are charged and/ or used improperly.

Lithium-ion batteries differ from the lead-acid technology as they have a built-in deep discharge protection.

- If the low battery warnings are ignored, the battery may automatically switch off to protect itself. If this happens, the mobile lifter may not operate until the battery has been recharged, and no low battery warning or indication may be shown.
- Do not open, disassemble or modify the battery housing as cell or circuitry damage may develop excessive heat.

- Discontinue the battery use immediately if the battery emits an unusual smell, feels hot, changes colour or shape, shows signs of damage or corrosion or appears abnormal in any other way.
- In case the battery turns hot, disconnect and remove the battery from the room. If not possible to remove the battery, then evacuate the room.
- Defective or damaged lithium-ion batteries or batteries that produce excessive heat or fire are not allowed for transportation.
- For safety reasons, please adhere to the indicated charging, storage, and operation temperature as extreme temperatures (low or high) might ignite the batteries and cause fire.
- The mounting instructions must be followed in order to avoid exposing batteries to water.
- Recharge batteries every 12 months at a minimum.
- Dispose of batteries in accordance with local regulations.

16.00 Warranty and service conditions

16.01 Warranty

Guldmann warrants its equipment is free from material defects under normal use, and will perform substantially in accordance with the specifications set forth in documentation provided with the equipment.

This express warranty shall be in effect for one year from the date of original purchase and installation (the "Warranty Period"). If a valid claim is made during the Warranty Period for malfunction or equipment defect, Guldmann will repair or replace the equipment at no additional cost to you. Guldmann retains sole discretion as to whether the equipment will be repaired or replaced.

The warranty does not cover any part of the equipment that has been subject to damage or abuse by the user or others. The warranty does not cover any part of the equipment that has been altered or changed in any way by the user or others. Guldmann does not warrant that the lifting device functions will meet your requirements, be uninterrupted or error free.

The warranty set forth is in lieu of all other express and implied warranties, whether oral, written or implied, and the remedies set forth above are your sole and exclusive remedies. Only an authorized officer of Guldmann may make modifications to this warranty, or additional warranties binding on Guldmann. Accordingly, additional statements such as advertising or presentations, whether oral or written, do not constitute warranties by Guldmann.

This warranty shall be null and void if the equipment is operated and maintained in any manner inconsistent with its intended use or the instructions provided with the product. Further, in order for the warranty to remain in effect for the full Warranty Period, all service to the equipment must

be provided by a Guldmann certified technician. Any parts or components repaired or replaced by a Guldmann certified technician will be guaranteed for the remainder of the Warranty Period.

For the USA only

This warranty shall be null and void if the equipment is operated and maintained in any manner inconsistent with its intended use or the instructions provided with the product. Further, in order for the warranty to remain in effect for the full Warranty Period, all service to the equipment must be provided by a Guldmann Certified Technician. A Guldmann Certified Technician is a technician who has successfully completed Guldmann Service Training, and who holds a valid Service Training Certificate from Guldmann. Any parts or components repaired or replaced by a Guldmann Certified Technician will be guaranteed for the remainder of the Warranty Period. In the event the warranty is rendered null and void, the purchaser shall indemnify and hold Guldmann harmless of and from any and all claims or liability arising as a result of equipment malfunction or misuse.

16.02

Service or repair

Contact Guldmann Repair for an authorization to return any defective item during the Warranty Period. You will be provided with a return authorization number and address for returning the item for warranty service or replacement. Do not return items to Guldmann under warranty without receiving a Return Authorization Number.

If mailing the item, pack it carefully in a sturdy carton to prevent damage. Include your Return Authorization Number, a brief description of the problem and your return address and phone number. Guldmann does not assume the risk of loss or damage while in transit, so it is recommended you insure the package.

| Time to care |

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