

Guldmann™

GB GH2 Ceiling Hoists



 **Evocare®**
www.evocare.com.au
Phone:07 33558000 Fax:07 33555043



GH2 Ceiling Hoists

Hoist numbers:

120001 – xxxx

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1.00 Purpose and use

1.01 Manufacturer
V. Guldmann A/S
Graham Bells Vej 21-23A
DK 8200 Århus N
Tel.: +45 8741 3151
Fax: +45 8741 3131
www.guldmann.com

1.02 Purpose and use**Purpose**

GH2 is a ceiling-mounted hoist that covers the need for lifting and moving people in hospitals, at nursing homes, institutions, swimming pools, riding schools and in private homes.

Preconditions

The preconditions for using the GH2 hoist are that:

- the staff who operate this aid facility have received training,
- the instruction offered by Guldmann to all customer groups in connection with the purchase of a ceiling-mounted hoist has been received,
- the carer pays close attention to the well-being of the person being lifted,
- the hoist is used in rail systems approved and tested in acc. with Guldmann's stipulations,
- installation and testing of rail systems should only be performed by Guldmann-approved engineers.
- the hoist is used with a Guldmann lifting hanger or with another suitable lifting hanger (point 1.06),
- the hoist is used with a Guldmann lifting sling or other suitable slings (point 1.07).

1.03 Important – precautions

- Read the instructions carefully before using the GH2 hoist.
- GH2's maximum load of 200 kg and 250 kg respectively must never be exceeded.
- GH2 may only be used to lift people.
- The red emergency stop and emergency lowering strap must be adjusted to the user's reach.
- GH2 must not be used where there is a risk of water being sprayed directly onto it.
- If the GH2 hoist fails while in use, it should not be used further, and the local Guldmann representative must be contacted for a repair.
- If the GH2 hoist is used where the distance between the rail system and the floor exceeds three metres, the lifting strap must be extended with an extension strap.
- GH2 is controlled by a microprocessor PC Board, which can be damaged by static electricity if touched without the necessary precautions. See point 1.09. Thus, the electronics should be looked after by qualified technicians, only.

1.04**Load limits on your GH2 system**

Read the labels which indicate the maximum load limits for the components.

The component which has the lowest load limit, i.e. the lifting hanger, the lifting sling, etc., determines the entire system's maximum load limit.

This maximum load limit must not be exceeded.

Please note that the load may change when different components are used, such as lifting hangers, lifting slings, etc.

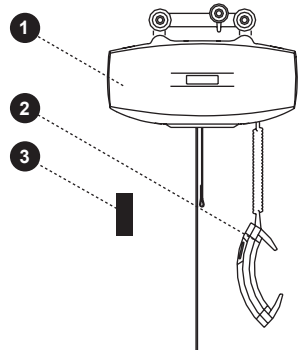
1.05**Unpacking and preparation**

Visual check of the GH2

If it appears that the GH2 hoist has been damaged when you unpack it, it must not be used until it has been checked by a qualified person or by the Guldmann Service Team.

Contents of the box

1. GH2 hoist
2. Hand control
3. Transformer/charger
4. Manual
5. Label for rail system
6. Charging station (for DC charger)
7. Friction enhancer (GH2+2R)



Mounting the lifting hanger before use

Lifting hangers made by other manufacturers

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

If you are in any doubt regarding the choice or use of the lifting hanger: please contact your supplier.

Strap with snap hook

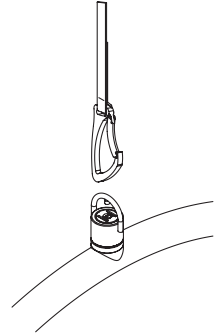
Use lifting hanger type 21X87 or the X lifting hanger type 21387 when using GH2 with a snap hook.

GH2 with a snap hook can also be used for Swing.

The snap hook is sewn onto the strap and cannot be removed.

Please note

Bath chairs, bath stretchers, and horizontal stretchers must be attached to the snap hook.

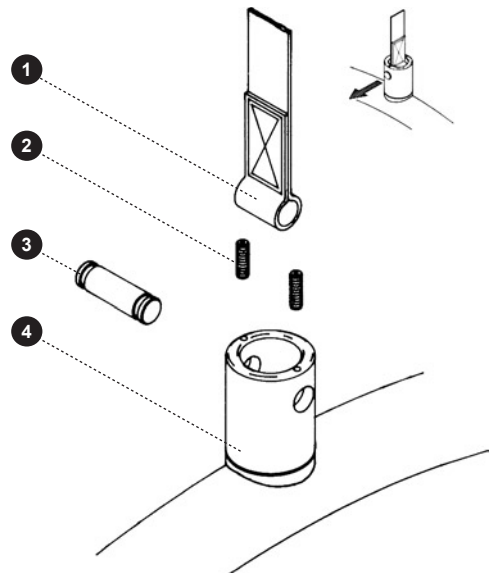


Strap attachment

Use lifting hanger type 21X70 or Horizontal Lifter Type BS when using GH2 with strap attachment.

Mount the lifting hanger as illustrated.

- Loosen the pointed screws (2).
- Release the axle journal (3).
- Mount the lifting strap (1) on the lifting hanger (4).
- Introduce the axle journal again (3).
- Use a 1.5 mm Allen key to tighten the pointed screws.



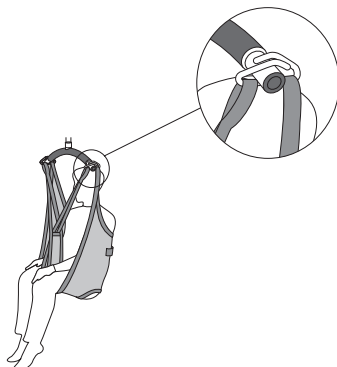
The lifting sling

A lifting sling with four to six lifting straps designed for mounting on hooks with a minimum diameter of 8 mm should be used when using a Guldmann lifting hanger.

Slings made by other manufacturers

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

If you are in doubt regarding the choice or use of the 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 carer or user.

Working with the GH2 hoist

It is only necessary to pay attention to the user's functional level and the carer's technique, as the GH2 hoist makes no special requirements as regards space or power consumption and runs easily in the rail system. The user should only be lifted just clear of the underlying surface and should be moved at this height.

Attaching the lifting sling

Attach the hooks that face the user to the uppermost set of straps (from the back). Attach the lowermost set of straps (from the legs) to the hooks that face away from the user.

Lifting to and from sitting position

When lifting a user from e.g. a wheelchair, move the GH2 towards the person to be lifted.

The lifting hanger should be at the same height as the person's chest and should not be moved further in over the user than to approximately mid-thigh position.

Place the lifting hanger parallel to the user's shoulders.

Place the lifting sling behind the user's back between the back of the chair and the user's back.

The centre band of the lifting sling should follow the user's spine. As for the slings type Active the strap showing the size of the sling should be opposite the spine. Lead the leg straps along the outer sides of the user's shins and beneath the thighs between the hollow of the knees and the hip joints. Cross the leg straps over each other in front of the user.

All four lifting straps are now ready to be attached. The lifting sling can now be mounted on the lifting hanger.

Lifting to and from lying position in bed

Bring the lifting hanger over the centre of the person to be lifted.

Place the lifting hanger parallel to the user's shoulders.

Turn the user onto his or her side. The lifting high back sling should be placed so that its top is at the same height as the top of the user's head. Now lay the sling over the user so that the centre band follows the user's spine. Turn the

user onto his or her back and pull out the remaining part of the lifting sling. Place the leg straps beneath the user's thighs and cross them over each

other. All four lifting straps are now ready to be attached and the lifting sling can now be mounted on the lifting hanger. It is an advantage to elevate the

head of the bed so that the user is sitting up.

Only persons who have received competent instruction regarding the use of lifting equipment and fitting of slings should start using the hoist.

1.08 Before the hoist can be used

Battery connection

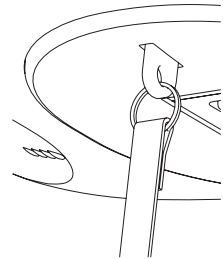
Attach 4-pole plug in accordance with the enclosed instructions.

The measures regarding ESD-safety are valid in this connection.

See point 1.09.

Emergency stop device

The emergency stop device must be reset in order to connect power to the product. To do this, push the contact arm, to which the red emergency stop band is fastened, towards the product until it clicks.



1.09 Power supply

GH2 is equipped with batteries that require regular recharging. The power supply for charging and the battery charging point must be connected by a qualified engineer or by the Guldmann Service Team.

The transformer/recharger supplied must **always** be used.

Safety concerning static electricity (ESD)

Service technicians and installers must use an ESD-safety package consisting of a mat, a ground wire, and a bracelet. The technician/installer connects the mat to a grounding point, for instance a radiator or a water pipe. He must then put on the bracelet and connect it to the mat. If the technician is using a ladder, it is important that the mat is placed on the step on which he is standing. If it is not possible to find a grounding point, the mat and the bracelet must be used as a minimum.

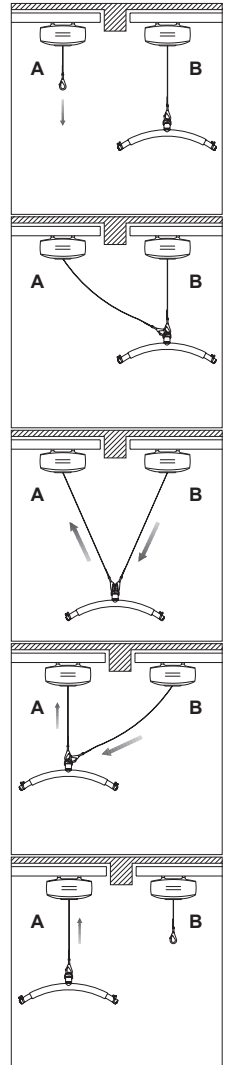
Only then is it allowed to work with the PC Board or components where it is possible to come into contact with the PC Board.

1.10

The Swing-kit

Note: If you wish to use the Swing-kit with the GH2 hoist, this must be specified when ordering.

1. Bring the two hoists as close to each other as possible.
The lifting hanger is attached to the hook on hoist B.
2. Pull out the free strap and hook from hoist A and attach it to the eye.
3. Pull out the lifting strap on hoist B a little further and retract the lifting strap on hoist A.
When the transfer swing has been completed there is no longer any load on the lifting strap on hoist B.
4. Release the hook and strap from hoist B, which now bears no load.
Return the lifting strap to hoist B until the hook is needed again.
5. Return the lifting hanger on hoist A to working height. The transfer through the door has now been completed.



1.11**GH2+2 ceiling hoist with built-in drive motor**

GH2+2 ceiling hoist with a built-in drive motor operates fully automatically on the rail system.

When using a GH2+2, please note that the motor uses approx. 1 second to accelerate and stop the hoist, respectively. Thus, when stopping the unit from max. speed, the motor must be cut off 10-15 cm before the desired position. When the hand control is activated for a shorter period of time, it is possible to position the hoist with a high level of accuracy.

GH2+2 must run on its own power and should not be pulled through the rail system.

1.12**GH2+2R ceiling hoist with built-in drive motor and infrared remote control**

GH2+2R has a built-in drive motor and IR receiver which is controlled by the IR sender.

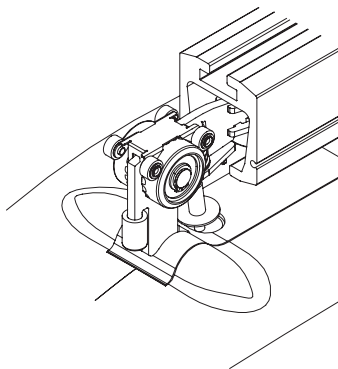
With this sender, it is possible to control all the functions of the hoist. Furthermore, the IR sender can be used to control e.g. switch tracks, combi-locks and turntables mounted with IR receivers.

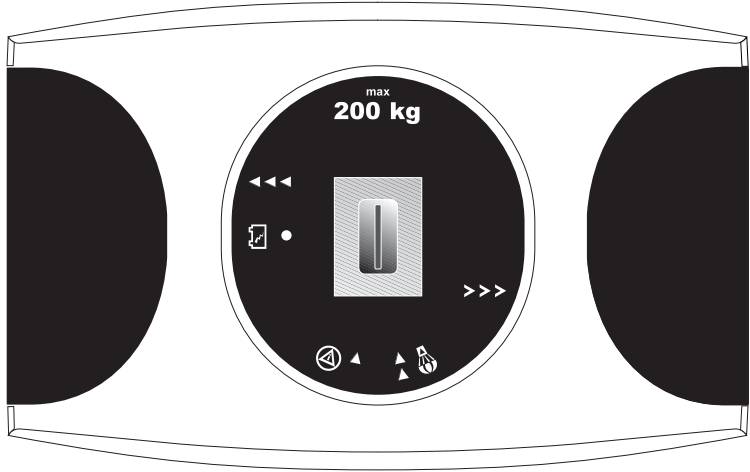
The cable-mounted hand control must remain fitted to the hoist. This will ensure that the hoist can always be operated if the IR sender is mislaid or if its batteries run dry.

In certain cases, an unladen hoist with a drive motor can, due to its low unloaded weight, have difficulty in driving through, for example, switch tracks, if the switch is not open in the direction in which the hoist is passing. To provide extra security for unassisted users that the hoist runs smoothly through the track system, it is possible to mount a friction enhancer in connection with the hoist's drive wheels. Friction enhancers cannot be used in connection with a drive-through charging station.

Friction enhancers are mounted as follows:

1. Move the hoist to the end of the rail, making sure that the drive wheels are free of the rail.
2. The friction enhancer is placed over the wheels as shown. The long pins on the friction enhancer must point in the direction of the nearest end of the hoist.
3. Run the hoist into the rail again. Check that the friction enhancer is functioning by holding onto the hoist with the drive motor in operation. The hoist must pull strongly in both drive directions.





The information panel on the GH2 hoist as seen from the floor.

2.01

Pictograms



Charging indicator



Emergency lowering



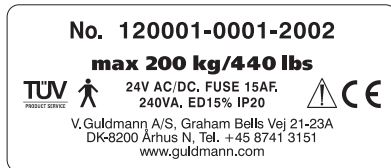
Emergency stop



Direction of travel for GH2+2 with drive motor

Example of a serial number label

– see variants of GH2 ceiling hoists under point 6.00



Type B in accordance with EN 60601-1.



Read instructions before use.

2.02

Indicator lamps

The colours and functions are as described below:



Green

- On The hoist is active.
- Blinking The hoist batteries need recharging.
- Off The hoist is switched off.



Yellow

- On Charging indicator indicates that connection is established between the hoist and the recharger/transformer.

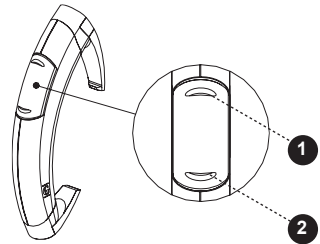
2.03

Operation

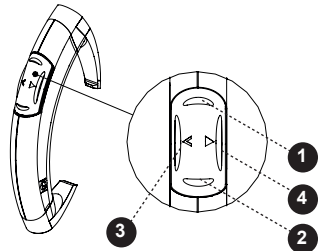
Hand control

Pressing a button on the hand control automatically switches on the GH2 hoist. The GH2 will automatically switch off after approximately ten minutes when not in use.

1. Lift
2. Lower

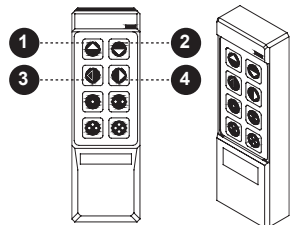


1. Lift
2. Lower
3. Move hoist towards the open arrow on the information panel of the hoist
4. Move hoist towards the closed arrow on the information panel of the hoist



Infrared remote control

1. Lift
2. Lower
3. Move hoist towards the open arrow on the information panel of the hoist
4. Move hoist towards the closed arrow on the information panel of the hoist



Note

There must be a load on the strap corresponding to the weight of Guldman's lifting hanger before the lifting/lowering function will operate.

Transport/running in the rail system

Push the GH2 hoist manually into the rail system.

GH2+2/GH2+2R operates fully automatically on the rail system by pressing the hand control/IR sender.

The GH2 hoist must not be exposed to sudden changes in temperature.

For instance, you must not take a cold hoist into a hot bathroom or similar.

2.04

Safety functions

The emergency stop and emergency lowering device should be used only in an emergency

If, contrary to expectations, it becomes necessary to use the safety functions, the fault must be located and remedied before using the GH2 hoist again.

Please contact your supplier.

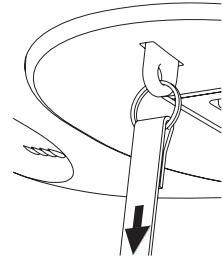
Re: EMC

If electromagnetic or other influences occur between this product and other products, these products must not be used together.

The function of the emergency strap

Pulling the red strap will activate the following functions:

- 1st pull: Emergency stop
- 2nd pull: Emergency lowering (requires a constant, light pull).



Emergency stop

If the GH2 hoist does not respond to the hand control when in use, pull the red strap lightly to deactivate all functions except the emergency lowering function. When the emergency stop has been activated, the GH2 hoist will no longer function.

The emergency stop's contact arm must be pushed in manually before the GH2 hoist will be ready for use again.

After deactivation of the emergency stop, activate the hand control twice.

- the first time to reset the PC Board
- the second time to switch on the hoist



Emergency lowering

If the GH2 hoist breaks down, the electric emergency lowering device can be used to lower the user safely.

The emergency lowering device is operated by a constant pull on the red strap which is also used to activate the emergency stop.

If the red strap is not pulled constantly, the emergency stop will be active rather than the emergency lowering device, and it will not be possible to operate the GH2 hoist before the unit is reset.

Explanation to labels:



Type B

In accordance with EN 60601-1.



Warning

Before use, cleaning and service read the user manual/technical documentation.

Description of strap safety device

Overloading the hoist, pulling the strap crookedly, or if the strap is twisted, the strap safety device will be activated, and the GH2 hoist will be deactivated. If the yellow mark on the strap is visible, it is not allowed to lift with maximum load.

2.05

Recharging

When the GH2 hoist is not in use it should be parked in the recharging unit. This will maintain the batteries and ensure them a long lifetime.



When GH2 is being recharged, the yellow charging indicator on GH2's information face is illuminated. The indicator light flashes while the batteries are being recharged. The light indicates that the GH2 hoist and the transformer/charger are correctly connected. The green circle of lamps on the bottom of the hoist will blink if the batteries are running low – the GH2 hoist will then be able to lift only a certain number of times, and the batteries must be recharged.

To recharge the batteries, place the GH2 hoist in the charging unit marked with the battery symbol on the rail. The batteries in a GH2 hoist installed in a MIDI rail will be constantly recharged throughout the length of the rail.

2.06

Accessories

Guldmann – ABC lifting sling and lifting hanger

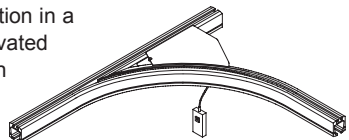
Order a special brochure from your distributor, the manufacturer or www.guldmann.com.

Extension strap

The extension strap must be used wherever the distance between the lower edge of the rail and the floor exceeds 3 metres. For instance, if the distance is 3.5 metres, you can purchase a 500 mm extension strap from your supplier.

Switch track, manual and electric

Switch tracks are used for changing direction in a rail system. Manual switch tracks are activated by pulling on a cord attached to the switch tracks. This changes the direction of travel, and GH2 then runs in the direction indicated by the cord.



Electric switch tracks are activated by pressing the attached hand control.

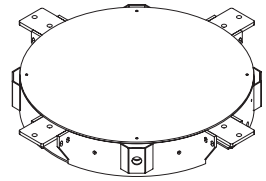
Safety

This product is mechanically protected against derailment and jamming.

Turntable

The turntable is used in track systems where the hoist needs to run in several directions. The turntable must not be used with the GH2 HD hoist.

The GH2 motor is powered into the center of the turntable. By pressing the switch, the turntable rotates 90°. Press again, and the turntable returns to the first position.



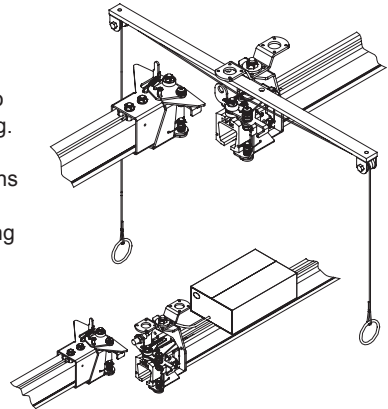
Safety

This product is mechanically protected against derailment and jamming.

Combi-lock, manual and electric

The Combi-lock is used when a single-track rail system is to be linked up to a room-covering rail system, or when two room-covering rail systems need linking. The Combi-lock ensures that the two systems are locked together in situations such as transfer from a single-track rail system in a bedroom to a room-covering system in a bathroom.

The Combi-lock is available as an electric or a manual model. It is activated by either pressing the switch or pulling on the cord.



Safety

This product is mechanically protected against derailment and jamming.

Infrared remote control

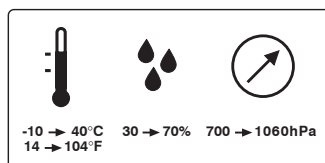
Switch tracks, turntable and combi-locks can be supplied with receivers for IR remote control.

3.00

Transport

Guldmann recommends that the GH2 hoist is always transported and stored in the original packaging.

Explanation of symbols on the GH2 packaging:



GH2 should be stored at temperatures between -10 and +40°C / 14 and 104°F. GH2 should be stored at an air humidity between 30 and 70%. GH2 should be stored at an air pressure between 700 and 1060hPA.

4.00 Maintenance and storage

4.01 Cleaning

Clean the GH2 hoist with a damp cloth and standard household detergent. Never clean GH2 with strong acid, base or alcohol. Never clean GH2 in an autoclave.

4.02 Storage

The GH2 hoist should be stored in a dry room with a maximum humidity of 70%. The hoist should be stored with the emergency stop activated to prevent consumption of battery power. For long-term storage, remove the 4-pole plug with white, black, red and yellow connection leads.

The measures regarding ESD-safety are valid in this connection. See point 1.09.

4.03 How to prevent and avoid corrosion

If the GH2 hoist is mainly used in corrosive surroundings, such as swimming pools, it must be ordered with a special corrosion-preventive surface treatment. Do not expose GH2 to sudden cold/heat, as an example do not move a cold GH2 into a hot bathroom.

4.04 Daily maintenance

Check the lifting sling for wear and damage before using the hoist. Never use a damaged or defective lifting sling. Never use the GH2 hoist if the lifting strap is damaged or defective. Contact your supplier to order a new lifting sling or lifting strap replacement. The lifting strap may be replaced only by the Guldmann Service Team or by a qualified fitter in accordance with Guldmann's instructions.

4.05 Disposal of GH2 incl. batteries

Local and national regulations for environmentally responsible recycling must be observed. Batteries should always be taken to approved recycling points.

5.00 Service and lifetime

5.01 Lifetime

GH2 has an expected lifetime of 15 years, provided that the service inspections mentioned under point 5.02 are observed.

Replacing components

Batteries, printed circuit boards and lifting straps may be replaced only by a qualified fitter or by the Guldmann Service Team.

Service inspection

Service inspections of the GH2 hoist **must** be performed in accordance with the intervals stipulated by Guldmann and **at least once a year**.

The GH2 must be inspected by a qualified fitter or by the Guldmann Service Team.

The service inspection includes a written report specifying what has been inspected and replaced.

Worn or defective components must be replaced by new components from Guldmann.

Spare parts drawings and lists can be ordered from the manufacturer or the distributor.

1. Visual inspection of the hoist

- Check for wear, irregularities or other types of damage to the hoist.

2. Testing the hoist as though in normal use

- Check all hoist functions with and without loads.
- Check that the emergency stop functions.
- Check that the emergency lowering device functions.
- Check that the green indicator lamp lights up when the hoist is activated.
- Check that the yellow charging indicator lights up when the batteries are recharging.

3. Remove cover/screen**4. Checking the electrical state of the hoist**

- Check batteries for:
 - Input voltage
 - Output voltage
- Check electrical functions and signals.
- Check the wiring circuit for faults or defects.
- Check the cable lead-ins.
- Check the power supply, plugs, etc.

5. Checking the mechanical state of the hoist

- Clean the hoist to remove dirt and other impurities.
- Inspect and evaluate vital components.
- Replace defective and worn components.
- Check and tighten all moving parts.
- Lubricate the hoist.
- Where applicable, treat the surface with silicone oil.

6. Replace cover/screen**7. Go through the checkpoints under item 2 again to make sure that everything functions****8. Have new problems arisen or been found under item 7?**

- If new problems have arisen, return to item 3.
- If there are no new problems, the inspection is completed.

Does the GH2 hoist fail to respond when buttons on the hand control are pressed?

- Check that the emergency stop has not been activated.
- Check that power is supplied to the hoist.
- Contact the Guldmann Service Team.
The hand control may be defective.

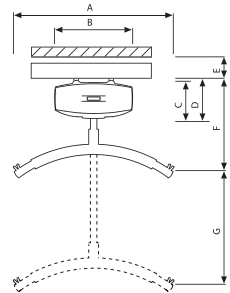
Does the green lamp on the hoist blink when the batteries are recharging?

- Check that the yellow charging indicator lights up when the hoist is put in the recharging position.
- Check that the power supply is switched on.
- Contact the local Guldmann representative or the Guldmann Service Team.

6.00

Technical specifications

A	595 mm
B	300 mm
C	148 mm
D	160 mm
E, min.	82 mm
F, min.	370 mm
G	1850 mm
Depth of Hoist	197 mm



GH2, GH2+2 and GH2+2R

Max. load	200 kg
Max. number of lifts in series (AC)	92 with 85 kg/1000 mm 36 with 200 kg/1000 mm
Max. number of lifts in series (DC)	72 with 85 kg/1000 mm 32 with 200 kg/1000 mm

Lifting speed:

with 85 kg load	1680 mm/min
with 200 kg load	1200 mm/min.
with max. 5 kg load	3300 mm/min (Dual-speed)

GH2+2 and GH2+2R

Speed on straight rail at full load	15 cm/sec.
Soft start/stop	

GH2 HD

Max. load	250 kg
Max. number of lifts in series (AC)	92 with 85 kg/1000 mm 32 with 250 kg/1000 mm
Max. number of lifts in series (DC)	72 with 85 kg/1000 mm 28 with 250 kg/1000 mm

Lifting speed:

with 85 kg load	1680 mm/min.
with 250 kg load	1020 mm/min.
with max. 5 kg load	3300 mm/min. (Dual-speed)

GH2, GH2+2, GH2+2R and GH2 HD

Weight:

GH2 & GH2 HD excl. lifting hanger	8,7 kg
GH2+2 & GH2+2R excl. lifting hanger	9,0 kg
Lifting hanger	min. 2,0 kg

Sound level acc. to DS/ISO 3746:

Lifting motor	52dB(A)
Drive motor	52dB(A)

Protection class:

Hoist and hand control	IP20
Microswitches in hand control	IP67

Electrical specifications

Power supply	24V AC/DC
Output transformer	40 VA
Output recharger	32 VA
Supply voltage transformer or recharger	100-240 V
Current consumption, GH2	8.5A at max. load
Current consumption, GH2+2 drive motor	2.5A at max. load
Max. power consumption GH2	240 VA
Charging time	max. 8 hours
Lead batteries, sealed and maintenance-free	2 x 12V
Rechargeable batteries	order no. 933015

Safety Measures

Safety cut off for strap	Approx. 45°, driving direction Approx. 10°, transverse direction
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Battery protection

at too low voltage	Switches off when voltage goes below 17 volt
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Periodic load, lifting motor

(operation/pause)	15/85, dynamic supervision
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Periodic load, drive motor

(operation/pause)	20/80, dynamic supervision
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Guldmann™

EC-DECLARATION OF CONFORMITY

Manufacturer V. Guldmann A/S
 Graham Bells Vej 21-23A
 DK-8200 Aarhus N
 EAN country code: 57
 EAN distribution No.: 07287
 Phone +45 8741 3151
 Fax +45 8741 3131

Representative Company

Address

Country

Phone

Hereby declare that Product **GH2, GH2+2, GH2+2R & GH2 HD
 incl. lifting hanger, suspension and charging system**

Type No. **XXXXXX-YYYY-ZZZZ** ^{x)}

x) XXXXXX: Reference No. of the product, YYYY: Serial No. of the product in the production year,
 ZZZZ: Production year

was manufactured in conformity with the provisions in:

- EN 10535: Hoists for the transfer of disabled persons
 - requirements and test methods
- EN 60601-1:1990 Medical electrical equipment -
 + A1: 1993 Part 1-1: General requirements for safety
 + A2: 1995
 + A12: 1993
- EN 60601-1-2: Medical electrical equipment -
 Part 1: General requirements for safety -
 2: Collateral standard: Electromagnetic compatibility

according to the Council Directive 93/42/EEC of 14 June 1993

Skejby 01.09.03

Place and day of issue

Product responsible

Technical Manager

Guldmann™



Time to care

EVO CARE AUSTRALIA PTY LIMITED

A.B.N. 98 078 566 604

Trading as **EVO CARE** and **L&M EQUIPMENT**

P.O. Box 1144, Stafford Qld. 4053

Ph: 07 3355 8000 Fax: 07 3355 5043

Website: <http://www.evocare.com.au>

E-Mail: sales@evocare.com.au

workshop@evocare.com.au



Quality
ISO 9001

V. Guldmann A/S

Head Office:

Graham Bells Vej 21-23A

DK-8200 Aarhus N

Tlf. +45 8741 3151

Fax +45 8741 3131

E-mail info@guldmann.com

www.guldmann.com