GB ........ GH2 F Ceiling Hoists

Vers. 1.00
### GH2 F Ceiling Hoists

**Hoist numbers:**
12xxxx - xxxx

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1.00 Purpose and use

1.01 Manufacturer
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1.02 Purpose
GH2 F is a flexible hoist that covers the need for lifting and moving people at hospitals, nursing homes, institutions, swimming pools, riding schools, and in private homes.

The flexibility of GH2 F lies in the fact that it can be rapidly and easily – with the least manual handling – transferred from one rail system to another. Installing it on and deinstalling it from a rail system is partially automated and is carried out without the use of tools or other assistive technology.

GH2 F with lifting accessories is transported and stored in a specially designed transport trolley.

Preconditions
The preconditions for using the GH2 F hoist are that:
• The staff who operate this assistive technology/equipment 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 accordance with Guldmann’s stipulations.
• Installation and testing of rail systems should only be performed by Guldmann-approved engineers.
• The hoist is only used with a Guldmann lifting hanger or with another suitable lifting hanger (point 2.01).
• The hoist is only used with a Guldmann lifting sling or other suitable slings (point 3.0).

1.03 Important/precautions
• Read the instructions carefully before using the GH2 F hoist.
• The maximum loads of 200 kg/440 lbs. and 250 kg/550 lbs. respectively must never be exceeded.
• GH2 F may only be used to lift people.
• The red emergency stop and emergency lowering strap must be adjusted to the user’s reach.
• GH2 F must not be used where there is a risk of water being sprayed directly onto it.
• If GH2 F fails while in use, it should not be used further, and the local Guldmann Service Team must be contacted for repair.
• If GH2 F is used where the distance between the rail system and the floor exceeds three metres (or 118"), the lifting strap must be extended with an extension strap.
• GH2 F is controlled by a microprocessor PC Board, which may be damaged by static electricity if touched without the necessary precautions. See point 4.01. Thus, the electronics should be looked after by qualified technicians, only.

1.04 Load limits on your GH2 F system
Read the labels which indicate the maximum load limits of the components. The component which has the lowest load limit, e.g. the lifting hanger, the lifting sling, or other equipment, determines the maximum load limit of the entire system. The maximum load limit must not be exceeded. Please note that the load limit may change when different components are used on a daily basis, e.g. lifting hangers, lifting slings.

2.00 Unpacking and preparation

Visual check of GH2 F
If it appears that GH2 F 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 boxes

GH2 F hoist module
1. GH2 F (1)
2. Hand control (2)
3. Charger

Travelling trolley for GH2 F
1. Travelling trolley for GH2 F (3)
3. Label for rail system

Transport trolley for GH2 F (4)
1. Handle
2. Underframe
3. Bag for sling
4. Two holders for X lifting hanger
5. Nuts and bolts
2.01 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 a lifting hanger made by other manufacturers.

*If you are in doubt about the choice or use of 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 F with a snap hook.

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 F 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.
3.00 Lifting sling
A lifting sling with four to six lifting straps designed for mounting on hooks with a minimum diameter of 8 mm (approx. 1/2 inch), 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 a lifting sling made by other manufacturers.

*If you are in doubt about the choice or use of 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 GH2 F hoist
It is only necessary to pay attention to the user’s functional level and the carer’s technique, as the GH2 F makes no particular demands on space or power consumption and runs smoothly 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 upper 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 GH2 F towards the person to be lifted.

The lifting hanger should be at the height of the user’s chest and should not be moved further in over the user than to 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 rest of the chair, for example, and the user. The centre band of the lifting string should follow the user’s spine. As for the sling types Active, the strap showing the size of the sling should be opposite the spine. Lead the leg straps along the outer side 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 to the lifting hanger.

Now attach the lifting sling to the lifting hanger.
**Lifting to and from a lying position in bed**
Place the lifting hanger centrally above the person to be lifted.
Place the lifting hanger parallel to the user’s shoulders.
Turn the user on to his/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. Lay the sling over the user so that the centre band follows the user’s spine. Turn the user on to his/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.

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**3.01 Swing kit**
A swing kit must not be used in conjunction with GH2 F.

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**4.00 Before the hoist can be used**

**Battery connection**
Attach the four-pole plug in accordance with the enclosed instructions.
The measures regarding ESD-safety are valid in this connection. See point 4.01.

**Emergency stop device**
The emergency stop device must be reset to zero 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.

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**4.01 Power supply**
GH2 F is equipped with batteries that require regular recharging. The charger supplied must always be used.

**Safety in connection with 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.
The information panel on GH2 F seen from the floor.

5.01 Pictograms

- **Charging indicator**
- **Emergency lowering**
- **Emergency stop**
- **Installation/ Deinstallation (See point 6.00)**
- **Lift/Lower (See point 6.00)**
- **Direction UP (See point 6.00)**
- **Direction DOWN (See point 6.00)**

Type B in accordance with EN 60601-1

Read instructions before use
5.02 Example of a serial number label
– see variants of GH2 F ceiling hoists under point 14.00

![Serial number label]

5.03 Audio signals

Short, consecutive audio signals

![Audio signal] GH2 F’s installation function has been activated.

Long, continuous audio signal

![Audio signal] The installation/deinstallation sequence has been interrupted or completed.

5.04 Indicator lamps
The colours and functions for GH2 F are as described below.

Green
The green circle of lamps on the bottom of the hoist will blink if the batteries are running low – the GH2 F will then have only a certain number of lifts/installations/deinstallations left, and the batteries must be recharged.

On: The hoist is active
Blinking: The batteries are running low and must be recharged
Off: The hoist is switched off

Yellow
When GH2 F is being recharged, the yellow charging indicator on its information face is illuminated. The indicator lamp flashes while the batteries are being recharged.

On: The lamp will light up briefly when connected to the charger, irrespective of the state of the battery. This indicates that there is a correct connection between GH2 F and the charger.
On/blinking: The hoist is being recharged
Off: The hoist has been fully charged

The lamp will also be off when the charger is not connected.
Hand control
The hand control for GH2 F is used to control the following functions:

1. Installing and deinstalling the lifting module

2. Lifting and lowering a person

3. GH2 F is charged with the help of the DC connection on the hand control, (point 9.0).
6.01 Installation

**Preparation, installation**
Place the transport trolley containing GH2 F vertically beneath the travelling trolley in the rail system. Check that there are no obstacles of any kind between GH2 F and the travelling trolley.

1. Attach the travelling trolley’s anchor with cord to the locking mechanism on the top of GH2 F (point 8.02)

![Diagram of attachment](image)

2. Choose the function “Installation” with the help of the switch at the bottom of the hand control ( 

3. Installation is begun by briefly activating the toggle switch on the hand control, direction UP

4. Installation has been completed when GH2 F is automatically locked in the travelling trolley( )

5. Move the switch at the bottom of the hand control to position to complete installation

We recommend steering/guiding GH2 F with the hanger so that it is free from the transport trolley during installation

The GH2 F lifting module must not be allowed to swing from side to side during installation

6.02 Deinstallation
Where applicable, remove the lifting sling from the lifting hanger.
Place the transport trolley beneath the travelling trolley in the rail system.
Check that there are no obstacles of any kind between GH2 F and the transport trolley.
1. Lift the strap with the hanger towards the end stop on GH2 F

2. Choose the function “deinstallation” with the help of the switch at the bottom of the hand control

3. Deinstallation is begun by briefly activating the toggle switch on the hand control, direction DOWN

4. Deinstallation has been completed when GH2 F is on the transport trolley and the movement of the cord has stopped

5. Release the travelling trolley’s anchor with cord from the locking mechanism on the top of GH2 F (point 8.02)

6. Move the switch at the bottom of the hand control to position

We recommend steering/guiding GH2 F with the hanger into position on the transport trolley during deinstallation.

**Please note**
All deinstallation must be begun by briefly moving GH2 F (1-2 seconds) in an upward direction.

It is not possible to begin the installation and/or deinstallation sequence for GH2 F when the load on the lifting strap exceeds the standard weight of the lifting hanger, e.g. if a person is sitting in the lifting sling.

For the same reason a bath chair, a bath stretcher, Horizontal Hoist BS, and the cross lifting hanger must be removed before installing/deinstalling GH2 F.

The installation/deinstallation function will be switched off if the 24V DC plug on the charger is connected to the hand control (point 9.00).

The installation/deinstallation function will be switched off if the emergency stop/emergency lowering function is activated (point 4.00/8.00).
6.03 **Lock, Travelling trolley for GH2 F**
The locking mechanism/clutch on the travelling trolley is automatic and changes between a locked and an unlocked state. It changes states each time it is activated.

Avoid unnecessary contact with the lock.

Contact the Guldmann Service Team if it appears that the lock may be damaged.

6.04 **Lifting and lowering**

1. Check that the switch at the bottom of the hand control is placed in position  

2. Lifting/lowering of a person is begun by activating the toggle switch, direction UP or direction DOWN  

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

**Note**
There must be a load on GH2 F corresponding to the weight of a Guldmann lifting hanger before the lowering function will work.

The lifting/lowering function will be switched off if the 24V DC plug of the charger is connected to the hand control (point 9.00).

The lifting/lowering function will be switched off if the emergency stop/emergency lowering system is activated (point 4.00/8.00).

7.00 **Transport/running in the rail system**
The carer must push GH2 F manually in the rail system.

**Note**
GH2 F must not be exposed to cold or heat shock, so a cold lifting module should never be taken into a warm bathroom or similar.
8.00 Safety functions

**WARNING!**
The emergency stop and emergency lowering functions should be used only in an emergency. If, contrary to expectation, it becomes necessary to use the emergency functions, the fault must be located and remedied before using GH2 F again.
Please contact your supplier.

**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**
If GH2 F fails to stop/respond to the hand control when it is in use, pull the red strap lightly to deactivate all functions except the emergency lowering function.
GH2 F will not function when the emergency stop has been activated.

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 GH2 F fails to stop/respond to the hand control when it is in use, pull the red strap lightly to deactivate all functions except the emergency lowering function.
GH2 F will not function when the emergency stop has been activated.
The emergency stop’s contact arm must be pushed in manually before GH2 F is ready for use again.

After deactivation of the emergency stop, press the UP or DOWN toggle switch on the hand control twice.
- the first time to reset the PC Board (only lifting/lowering functions),
- the second time to activate the required function.

**Emergency lowering**
If GH2 F breaks down, the electrical 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 continuously, the emergency lowering function will be replaced by an emergency stop. It will therefore not be possible to activate GH2 F in any other way.
8.01 Safety functions, installation/deinstallation

**Installation/deinstallation**
The installation/deinstallation sequence can be interrupted with the hand control at any time:

1. Press (again) UP to interrupt the installation/deinstallation sequence

2. Press (again) DOWN to interrupt the installation/deinstallation sequence

3. Move the switch at the bottom of the hand control back to position to interrupt the installation/deinstallation sequence

The installation sequence will be automatically interrupted if GH2 F meets an obstacle/resistance (≥ 5-10 kg) while being moved to the travelling trolley in the rail system, for instance when blocked by a foreign body during installation.
If this happens, GH2 F will stop briefly and then move freely in the direction of the travelling trolley.

**Resuming installation/deinstallation**
When the obstacle has been removed, the installation or deinstallation sequence can be resumed, cf. point 6.01, “installation, step 3”.

**Note**
The installation/deinstallation sequence can also be interrupted with the help of the emergency stop/emergency lowering function, or if the 24V DC plug on the charger is connected to the hand control (point 9.0).

- Activation of the emergency stop results in an interruption of the installation/deinstallation sequence
- Activation of the emergency lowering results in an interruption of the installation/deinstallation sequence
- Connection of the 24V DC plug of the charger results in an interruption of the installation/deinstallation sequence
8.02 **Installation lock**

It is a condition for carrying out installation and deinstallation that the anchor is attached to GH2 F. The anchor is attached/released with the help of the push button on the top of GH2 F (1).

**Important/precaution**

The installation lock may only be operated/released when GH2 F has been deinstalled and placed on a firm surface, e.g. the transport trolley for GH2 F. The deinstallation sequence must have been completed before the installation lock is released. This means that the movement of the cord must have stopped and the installation motor must be inactive.

**Attachment to the installation lock**

- Push in the button (1)
- Attach the anchor with the cord from the travelling trolley
- Release the button and check that it returns fully to its original position

**Releasing the installation lock**

- Wait for deinstallation to end and until GH2 F has been placed on a firm surface, such as the transport trolley for GH2 F
- Push in the button (1)
- Release the anchor with cord from GH2 F

Place the anchor with cord at a suitable height beneath the travelling trolley.

**Installation protection**

There is a sensor/switch on top of GH2 F, which has a safety function (2). The hand control will be switched off when the sensor/switch is activated.

Avoid unnecessary contact with the sensor.

Contact the Guldmann Service Team if it appears that the sensor has been damaged.
8.03 Explanation of labels

Type B
In accordance with EN 60601-1.

Warning
Before use, cleaning, and service, read the user’s instructions and technical documentation.

Description of strap safety device, lifting/lowering function
Overloading the hoist, pulling the strap crookedly, or if the strap is twisted, the strap safety device will be activated, and GH2 F will be deactivated. If the yellow mark on the strap is visible, do not lift with maximum load.

9.00 Charging/connection
Recharge the GH2 F hoist with the accompanying charging unit.

Recharge GH2 F every night, or when not in use. This is the best way to maintain the batteries and ensure as long a lifetime as possible.

A pre-installed male plug on the connection side, appropriate for the mains system in the country in question, will protect the charger against incorrect use.

Connect the spiral wire to the hand control in the place indicated by the 24V DC label (1).

The colour and function of the charger are as described below:

Green
On: Ready/standby

Orange
On: Recharging

Storing the charger
The charger should be stored on the transport trolley for GH2 F (point 10.01).

Note
• Recharging will be stopped automatically when activating the emergency stop/emergency lowering system.
• Hand control switches will be switched off when connecting the charger DC plug.
• Recharging should never be carried out in a damp room/bathroom.
• GH2 F cannot be recharged via the rail system.
10.00  Accessories

10.01  Transport trolley for GH2 F
The transport trolley is used to transport and store GH2 F with lifting accessories. There is a specially sewn bag at the bottom of the transport trolley to store lifting slings, the GH2 F charger, and the manual. The bag can hold up to three lifting slings, depending on the type in question.

Attach the charger with self-adhesive Velcro to the rear, upper inside of the bag. Keep the wires of the charger in the pockets placed immediately below the suspension point of the charger.

The X lifting hanger can be hung from the hooks at the front of the transport trolley. Remove the lifting strap from the X lifting hanger before installation/deinstallation.

The bag can be removed and washed if it is dirty. Follow the washing instructions on the bag. If necessary, contact your supplier to order a new bag if the old one is worn or damaged.

Note
We recommend lifting the lifting strap/lifting hanger towards the end stop on GH2 F before placing it on the transport trolley. This will protect the lifting strap against unnecessary wear during transport and while stored on the transport trolley.

10.02  Lifting accessories, rail components, and infra-red remote control

Guldmann – ABC lifting sling and lifting hangers
Order a special brochure from the distributor, manufacturer, or at www.guldmann.com

Extension strap
Use an extension strap where the distance between the lower edge of the rail system and the floor exceeds 3150 mm (124 inches). If the distance is 3500 mm (138 inches), for example, a 500 mm (20 inches) extension strap is available at your local supplier’s.

Switch tracks, manual and electrical
Switch tracks are used to change the direction of travel in rail systems. Manual switch tracks are activated by pulling the cord attached to them. The direction of travel will change and GH2 F will move to the side from which the cord was pulled.
Electrical switch tracks are activated by pressing the switch suspended from them. (See point 7.0).
Safety
The product is mechanically protected against derailment and jamming.

Turntable
The turntable is used in rail systems where the hoist needs to run in several directions. GH2 F is powered into the centre of the turntable. By pressing the switch, the turntable rotates 90°. Press again, and the turntable returns to its first position.

Safety
The product is mechanically protected against derailment and jamming.

Combi-locks, manual and electrical
The combi-lock is used when a single-track rail system is linked up to a room-covering rail system, or when tow 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 in manual or electrical models and activated either by pressing the switch or by pulling the cord.

Safety
The product is mechanically protected against derailment and jamming.

Infra-red remote control
Switch tracks, turntables, and combi-locks can be supplied with a receiver for IR remote control.
### Transport

Guldmann recommends that GH2 F is always transported and stored in its original packaging.

**Explanation of the symbols on GH2 F packaging**

GH2 F should be stored at temperatures between -10 and +40° Celsius/14 to 104 degrees F.
GH2 F should be stored at a relative humidity between 30 and 70%.
GH2 F should be stored at an atmospheric pressure between 700 and 1060 hPa.

### Maintenance and storage

**Cleaning**

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

**Storage**

The GH2 F 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 consumption of battery power.
For long-term storage, remove the four-pole plug with white, black, red, and yellow connection leads.

The measures regarding ESD-safety are valid in this connection. See point 4.01.

**How to prevent and avoid corrosion**

If GH2 F is mainly to be used in corrosive surroundings, such as swimming pools, it should be ordered with special corrosion-preventive surface treatment. It is an advantage to remove GH2 F from the travelling trolley and rail system when not in use and, if possible, to remove it from the corrosive surroundings.

**Daily maintenance**

Check the lifting sling and lifting straps for wear and damage before using the hoist.
Do not use the lifting sling if it is damaged or defective.
Do not use GH2 F if the lifting straps are damaged or defective.

Check the cord on the travelling trolley for wear and damage before each installation of GH2 F.
Do not use GH2 F if the cord on the travelling trolley is damaged, defective, or shows clear signs of wear.
Contact your supplier to order a new sling, a replacement for the lifting strap, and/or a replacement cord for the travelling trolley.
Lifting straps and cords for the travelling trolley must be replaced by the Guldmann Service Team or by a qualified service fitter in accordance with Guldmann’s instructions.

**Disposal of GH2 F, including batteries**
Local and national regulations for environmentally responsible recycling must be observed. Batteries should always be taken to approved recycling points.

### 13.00  Service and lifetime

**Lifetime**
GH2 F has an expected lifetime of ten years provided that the service inspections mentioned under point 13.01 are observed.

**Replacing components**
Batteries, printed circuit boards, lifting straps, and the locking and winding mechanism on the travelling trolley must be replaced by the Guldmann Service Team or by a qualified service fitter in accordance with Guldmann’s instructions.

### 13.01  Service inspection

According to the international standard EN/ISO 10535 “Hoist for the transfer of disabled persons - Requirements and test methods” a safety inspection of the GH2 F must be performed at least one a year.

GH2 F and the Travelling trolley for GH2 F must be inspected by a qualified service fitter or by the Guldmann Service Team. Guldmann offers a service agreement for GH2 F in connection with these inspections. 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 distributor.

### 13.02  Service inspection, GH2 F

1. **Visual control of the hoist**
   - Check for wear, irregularities, or other types of damage to the hoist.

2. **Testing the product as 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 lamps light up when the hoist is activated
   - Check that the yellow charging indicator lights up when the hoist is being recharged
   - Check that the functions of the hand control are switched off when the sensor on top of GH2 F is activated
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 circuits for faults or defects
   • Check the cable lead-ins
   • Check the power supply, plugs, etc.

5. Checking the mechanical state of the hoist
   • Clean to remove dirt and other impurities
   • Inspect and evaluate the condition of vital parts
   • Replace defective and worn parts
   • Check and tighten all moving parts
   • Lubricate the product
   • Apply silicone oil to the surface of the product if necessary

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 has been completed

9. When a service inspection including service work or exchange of components has taken place, the final check should comprise a weight test with the product’s nominal load.

13.03 Service inspection, travelling trolley for GH2 F
Deinstall GH2 F and put it on the transport trolley before service inspections of the Travelling trolley for GH2 F are carried out.

1. Visual control of the trolley
   • Check for wear, irregularities, or other types of damage to the hoist

2. Remove cover/screen
   • Clean the trolley to remove dirt and other impurities
   • Inspect and evaluate vital parts

   Every second year or after 2000 installations:
   • Dismantle the complete locking and winding mechanism
   • Install new, complete Quick lock (spare part)

3. Replace cover/screen

4. Adjust the length of the cord in relation to the height of the rail
5. **Carry out installation and deinstallation of GH2 F**
   - Check all product functions

6. **Have new problems arisen or been found under item 5?**
   - If new problems have arisen, return to item 2
   - If there are no new problems, the service inspection has been completed

7. **When a service inspection including service work or exchange of components has taken place, the final check should comprise a weight test with the product's nominal load.**

### 13.04 Trouble-shooting
GH2 F lifting/lowering functions fail to respond when the hand control's up/down keys are pressed.
- Check that the emergency stop/emergency lowering device have not been activated
- Check that power is supplied to the hoist
- Check that the charger is not connected to the hand control

**Is the product installed in the travelling trolley/rail system?**
If NO
- Contact the Guldmann Service Team
  The hand control may be defective

If YES
- Contact the Guldmann Service Team
  GH2 F may have been incorrectly installed

**The green lamp on GH2 F blinks after it has been connected to the charger**
1. Check that the yellow charging indicator lights up when GH2 F is connected to the charger
2. Check that the charger is correctly connected to the hand control
3. Check that the power supply is switched on
4. Contact the Guldmann Service Team

### 13.05 FAQ’s
Can GH2 F be installed/deinstalled while a person is sitting in the lifting sling?
No – GH2 F measures the load on the lifting strap before installation/deinstallation. If the load exceeds the weight of the lifting hanger, the sequence for installation/deinstallation cannot be activated.

Find more FAQ’s at www.guldmann.com
**Technical specifications**

| A          | 595 mm / 23.5" |
| B          | 300 mm / 11.5" |
| C          | 222 mm / 8.5"  |
| D          | 320 mm / 12.5" |
| E, min.    | 82 mm / 3.5"   |
| F, min.    | 530 mm / 20.5" |
| G          | 1850 mm / 73"  |
| Depth of hoist | 197 mm / 7.5" |

**GH2 F**

Lifting capacity, max. ........................................... 200 kg / 440 lbs.
Max. number of lifts in a series ...............72 at 85 kg/1000 mm / 72 at 187 lbs./39”
36 at 200 kg/1000 mm / 36 at 440 lbs./39”

Lifting speed:
- 85 kg / 187 lbs. load ........................................ 1680 mm/min / 66”/min
- 200 kg / 440 lbs. load ....................................... 1200 mm/min / 47”/min
- max. 5 kg / 11 lbs. load ..................................... 3300 mm/min. / 130”/min (Dual speed)

**GH2 F HD**

Lifting capacity, max. ........................................... 250 kg550 lbs.
Max. number of lifts in a series ...............72 at 85 kg/1000 mm / 72 at 187 lbs./39”
28 at 250 kg/1000 mm / 28 at 550 lbs./39”

Lifting speed:
- 85 kg / 187 lbs. load ........................................ 1680 mm/min / 66”/min
- 250 kg / 550 lbs. load .................................... 1020 mm/min / 40”/min
- max. 5 kg / 11 lbs. load ..................................... 3300 mm/min. / 130”/min (Dual speed)

**GH2 F/GH2 F HD**

Weight:
- Lifting module ................................................. 9.8 kg / 21.5 lbs.
- Lifting module including travelling trolley .......... 11 kg / 24 lbs.
- Lifting hanger .................................................. min. 2.0 kg / 4.5 lbs.

Sound level in accordance with 3746:
- Lifting motor .................................................... 52 dB(A)

Imperviousness protection:
- Lifting module, travelling trolley, and hand control . IP20
- Positive action switch, lifting module ............... IP67
- Microswitch in hand control ............................... IP67
Electrical specifications

Power supply ........................................... 24 V DC
Output charger ........................................... 32 VA
Voltage supply, charger ................................. 100-240 V
Power consumption ..................................... 8.5 A at full load
Max. power absorption ................................. 240 VA
Charging time ........................................... 2-3 hours (max. 8 hours)
Lead acid batteries, sealed, maintenance-free ....... 2 x 12 V
Rechargeable batteries ................................... order number 933015

Safety functions

Safety cut off for strap ................................. approx. 45° longitudinally
.................................................................. approx. 10° transversely
Battery protection at too low voltage ............... Switches off when voltage
.................................................................. goes below 17 V
Periodic load, lifting motor (operation/pause) .... Dynamic supervision (15/85)

Travelling trolley for GH2 F/GH2 F HD

A  98 mm / 3.5”
B  166 mm / 6.5”
C*, max. 2800 mm / 110”
D, min. 650 mm / 25.5”
D, max. 750 mm / 29.5”
Depth of travelling trolley 84 mm / 3”

* Cord length C adapted to height of rail
during installation

Max. load ............................................. 250 kg / 550 lbs.

Weight:
Travelling trolley (with the exclusion of
lifting modules GH2 F/GH2 F HD) ........ 1.2 kg / 2.5 lbs.

Transport trolley for GH2 F/GH2 F HD

A  1005 mm / 39.5”
B  735 mm / 29”
Depth of transport trolley 485 mm / 19”

Capacity, bag ........................................... 2-3 slings

Weight:
Trolley including bag .................. 10.4 kg / 23 lbs.
EC-DECLARATION OF CONFORMITY

Manufacturer  
V. Guldmann A/S  
Graham Bellis 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 F & GH2 F HD

incl. lifting hanger, suspension and charging system

Type No.  XXXXX-YYYY-ZZZZ x)

x) XXXXX: 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  
  + 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


Skejby 01.02.05

Place and day of issue

Product responsible  
Technical Manager