

# GANTERUD L12 Pro

## User manual

Version 2.5. 2024



# EC Declaration of Conformity

According to 2006/42/EC, Annex 1, Sections 1 and 4  
(AFS 2008:3, Annex 2A).  
ORIGINAL

Manufacturer / representative : Ganterud Lifting Solutions AB.  
Address : Frögatan 10, SE 653 43 Karlstad.

Hereby declares that

Machine / installation : Levelling equipment L12 Pro.  
Serial number : L12P-151-001 onwards.

Corresponds where applicable with the following directives:  
The Machinery Directive 2006/42/EC, Annex 1, Sections 1 and 4.  
The EMC Directive 2014/30/EU.  
The Low Voltage Directive 2014/35/EU.

Satisfies where applicable the requirements in standards and specifications listed below:

SS EN ISO 12100-2010	SS EN 13155+A2:2009
SS EN 61000-6-4	SS EN 60204-1
SS EN 61000-6-2	ELSÄK-FS 2008:1-4

Karlstad, 01/06/2024

Place and date

Frögatan 10, SE 653 36 Karlstad

Address



Authorised signatory

Kristoffer Ganterud

Name in block capitals

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# 1 Introduction

## 1.1 About this manual

Keep this user manual for future use – the manual must be available when using the levelling equipment. The latest version of the manual can also be found on Ganterud Lifting Solutions AB's website, [www.ganterud.se](http://www.ganterud.se). The levelling equipment includes an individual test report from the static test of the levelling equipment.

## 1.2 Disclaimer

Ganterud Lifting Solutions AB is not liable or bound by guarantees if these instructions are not adhered to during operation, transport, storage or maintenance.

Ganterud Lifting Solutions AB reserves the right to modify the product, component parts, specifications and the content of this manual without prior notification.

Ganterud Lifting Solutions AB accepts no liability for any interventions in or modifications to the product that have been made without Ganterud Lifting Solutions AB's written consent. The product's type approval will cease to apply in the event of any modifications.

## 1.3 Warranty and complaints

Ganterud Lifting Solutions AB guarantees that the product will be free from defects for a period of one (1) year from the date of delivery, provided the levelling equipment has been used, serviced and maintained in the prescribed manner.

During the warranty period, Ganterud Lifting Solutions AB will repair or replace products and component parts that are returned to Ganterud Lifting Solutions AB with shipping charges prepaid.

Ganterud Lifting Solutions AB reserves the right, on a case by case basis, to determine whether the warranty is valid or not.

The warranty will be invalid if the product or its component parts have been subjected to incorrect use, misuse, negligence or accidents.

The warranty will be invalid if the product has been modified or repaired by an unauthorised party as per the specification in this manual.

The warranty will become invalid if the product has been altered or modified using components other than those specified by Ganterud Lifting Solutions AB.

The purchaser must inspect the product promptly following receipt, and must notify Ganterud Lifting Solutions AB's head office in writing about any claims, including claims regarding breach of warranty, within thirty days after the purchaser has discovered, or ought to have discovered, the facts on which the warranty claim is based.

Failure by the purchaser to submit written notification of a warranty claim within this time period will be deemed to be a waiver of such claim.

## 1.4 Contact information

Ganterud Lifting Solutions AB, [www.ganterud.se](http://www.ganterud.se)

For support or other information about the product, please contact Ganterud Lifting Solutions AB:

e-mail: [info@ganterud.se](mailto:info@ganterud.se)

Tel. during office hours: +46 70 281 20 08



# 2 Safety

## 2.1 Definition of safety levels



*Specifies an immediately hazardous situation that, if not avoided, will result in death or serious injury.*



*Specifies a potentially hazardous situation that, if not avoided, may result in death or serious injury.*



*Specifies a potentially hazardous situation that, if not avoided, may result in minor or moderate injury as well as damage to property.*

## 2.2 Signs on the levelling equipment

- Rating plate, CE marking
- Warning of the risk of crushing between chain and metal housing.
- Max. load
- Max. load imbalance
- Max. chain angle
- Instructions for correct operation
- Lifting table



## 2.3 General



### WARNING!

*Incorrect use may result in death or serious injury to a person and/or damage to property.*

- Please read this manual carefully before using the levelling equipment.
- The levelling equipment may only be used by an operator who has good knowledge and training of the levelling equipment.
- The levelling equipment may only be operated by personnel standing on a firm surface and who have a clear view of the load.
- The levelling equipment is only intended for lifting with loads using hooks/shackles. Any other use is prohibited.
- All lifting aids used together with the levelling equipment must be provided with built-in scales. Alternatively, the weight must be known and documented. This prevents overloading of the levelling equipment.
- The levelling equipment must not be used if the fixed protection covering rotating parts is damaged or has been removed.
- Take care when handling the levelling equipment. There is a risk of crushing between the chain and the metal housing.



Ganterud Lifting Solutions AB can only give general advice as each type of lifting/levelling is unique, and has different and variable loads when levelling depending on Ganterud's levelling equipment and the object being lifted. We therefore recommend that you always use crane scales if uncertain.

Ganterud Lifting Solutions AB accepts no responsibility for the use of our Ganterud levelling equipment as it is always the operator/user/company that has ultimate responsibility for correct lifting according to the specifications.

## 2.4 Incorrect handling



### WARNING!

*The chain must be tensioned on both sides before lifting may be carried out.*

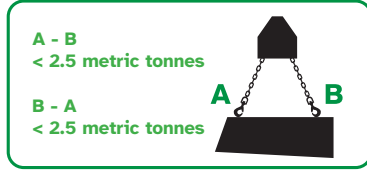


### 2.4.1 Load imbalance



### NOTE!

*The levelling equipment must not be imbalanced. See lifting table for maximum load imbalance.*

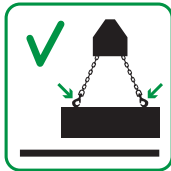
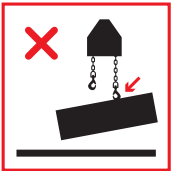


### 2.4.2 Lifting with one hook



### NOTE!

*Both hooks must be used when lifting!  
The levelling equipment must not be used for lifting and hoisting using only one hook.*

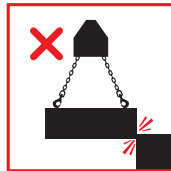


### 2.4.3 Impact



### NOTE!

*The levelling equipment may be damaged in case of impact.*

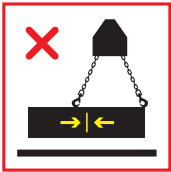


### 2.4.4 Centring



**NOTE!**

The levelling equipment must be centred above the load's centre of gravity within a specified margin of error, in accordance with the lifting table.

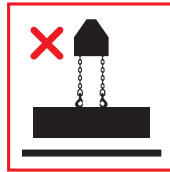


### 2.4.5 Long load



**NOTE!**

The chain angle must be as wide as possible when levelling, although not exceeding 60° between chains, to reduce the strain on the levelling equipment in the event the load should start to swing.



### 2.4.6 Unloading the levelling equipment



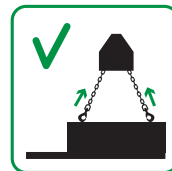
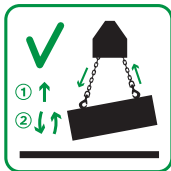
**NOTE!**

Disengage the brake before lifting begins. Lift the load and level it once it is freely suspended. The load must be horizontal when placed on a flat surface, or the load on both attachment points must be relieved at the same time. See page 16, section 4.3



**WARNING!**

The chain must be tensioned on both sides before lifting may be carried out.





## 2.5 Safety during operation



### **WARNING!**

*Incorrect handling or a lack of control can expose personnel to danger of death!*

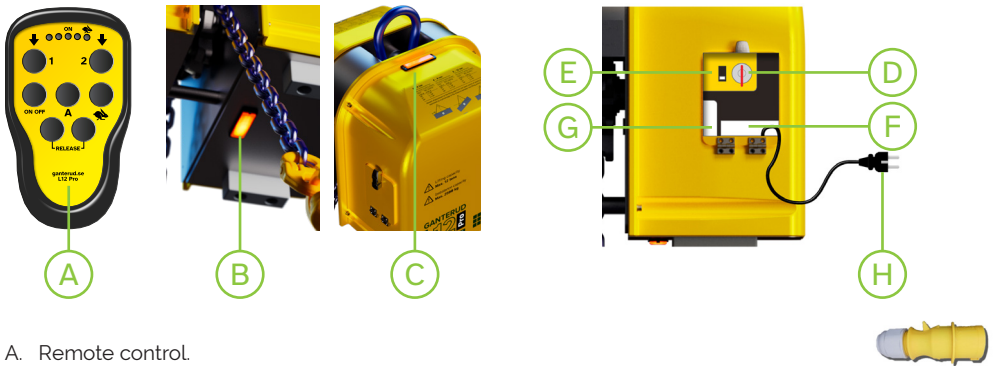
- Perform a daily inspection of the levelling equipment before each use.
- Perform a load inspection before each lift.
- The levelling equipment may only be operated using remote control, where the operator is standing on a firm surface and has a clear view of the load.
- If there are several levelling devices on site, make sure that the registration number on the side of the remote control corresponds with the registration number on the levelling equipment's rating plate.
- The levelling equipment is not intended for lifting persons. Do not stand on or under a suspended load.
- Connect the hook/shackle directly to the load, or via a chain or sling to the load.
- Check that the safety lock on each hook/ the pin on each shackle is properly locked.
- The entire load must be securely lashed to avoid falling items when lifting.
- The chain must be tensioned on both sides before lifting may be carried out.
- Lift the load slowly to minimise acceleration forces.
- Transporting and movement during lifting or lowering are associated with danger. Adapt the speed to minimise the danger to people and equipment.
- Keep a careful lookout for people moving within the risk zone. Make them aware that transport is in progress.
- Observe the load constantly during operation.
- Make sure that nobody is at risk of being crushed by the load when it is lowered, or pushed in the event the load should start to swing.

# 3 Description

The GANTERUD L12 Pro is a radio-controlled levelling device that is used for precision adjustment of heavy objects, such as structural elements, beams, roof trusses, etc., when lifting with a crane or other lifting equipment.

The levelling equipment is powered by a built-in electrical motor equipped with a rechargeable battery, and can be used with most types of cranes and lifting devices.

## 3.1 Overview



- A. Remote control.
- B. Lower warning light – free wheel function activated.
- C. Upper warning light – free wheel function activated.
- D. Motor switch. Breaks the power supply to the motor. Must be switched off when the batteries are being charged.
- E. Battery indicator. Indicates battery status. 25 - 100%.
- F. Batteries.
- G. Battery charger.
- H. Cable for battery charger. Connected to 110V-230V AC 50 Hz for charging batteries.

## 3.2 Lifting capacity



### NOTE!

*Exceeding the maximum chain angle or the maximum lifting capacity will damage the equipment.*

The maximum lifting capacity of 12 tonnes and the maximum chain angle of 60° apply on the condition that other restrictions set out in the lifting table are complied with.

The lifting table applies during normal usage. In the event of any uncertainty, scales/load cells must be used to measure the load at each end

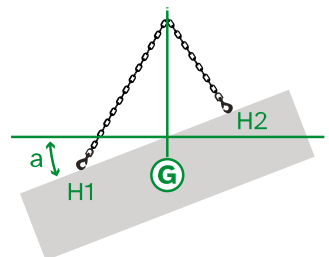
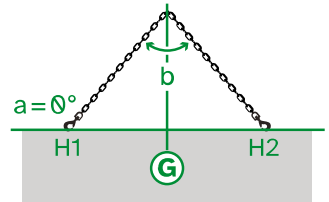
of the chain. The chain can carry a maximum of 8 tonnes in the chain's direction, and the difference between the ends must not exceed 2.5 tonnes. Note that the total weight of the object being lifted must never exceed 12 tonnes.

### 3.2.1 Lifting table

Load	a°	b°	H1	H2	Difference H1-H2 < 2,5 T	a°	b°	H1	H2	Difference H1-H2 < 2,5 T
4	0	45	2,2	2,2	0,0	0	60	2,3	2,3	0,0
4	5	44	1,9	2,4	0,5	5	59	2,1	2,5	0,4
4	10	43	1,6	2,7	1,0	10	58	1,9	2,7	0,9
4	20	39	1,1	3,1	2,0	20	53	1,4	3,1	1,7
4	25	36	0,8	3,3	2,5	30	45	0,9	3,4	2,5
4	30	32	0,5	3,5	3,0	37	37	0,5	3,6	3,1
4	31	31	0,5	3,6	3,0					

Load	a°	b°	H1	H2	Difference H1-H2 < 2,5 T	a°	b°	H1	H2	Difference H1-H2 < 2,5 T
8	0	45	4,3	4,3	0,0	0	60	4,6	4,6	0,0
8	5	44	3,8	4,8	1,0	5	59	4,2	5,0	0,9
8	10	43	3,3	5,3	2,0	10	58	3,7	5,4	1,7
8	12	42	3,0	5,5	2,5	14	57	3,3	5,8	2,5
8	20	39	2,2	6,2	4,0	20	53	2,7	6,1	3,4
8	30	32	1,1	7,1	6,0	30	45	1,7	6,7	5,0
8	35	27	0,5	7,6	7,0	40	32	0,7	7,4	6,7
						41	30	0,5	7,6	7,1

Load	a°	b°	H1	H2	Difference H1-H2 < 2,5 T	a°	b°	H1	H2	Difference H1-H2 < 2,5 T
12	0	45	6,5	6,5	0,0	0	60	6,9	6,9	0,0
12	5	44	5,7	7,3	1,5	5	59	6,3	7,6	1,3
12	8	44	5,2	7,7	2,5	9	58	5,6	8,1	2,5
12	10	43	4,9	8,0	3,1	10	57	5,6	8,1	2,6
12	20	39	3,3	9,3	6,1	20	53	4,1	9,2	5,1
12	30	32	1,6	10,6	9,0	30	45	2,6	10,1	7,6
12	36	26	0,5	11,6	11,0	40	32	1,0	11,1	10,1
						43	27	0,5	11,6	11,1

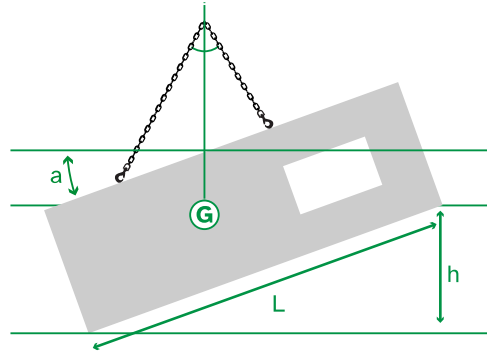


### 3.2.2 Levelling expressed as height difference

The table below shows the height difference that various levelling angles equate to for lifting objects of different lengths. All lengths are specified in millimetres (mm).

If necessary, the height difference can be calculated by multiplying the length of the object being lifted by the sine:

$$h = L \times \sin(a)$$



Height difference, h [mm]								
a [°]	L [mm]							
	1000	2000	3000	4000	5000	6000	7000	8000
1	17	35	52	70	87	105	122	140
2	35	70	105	140	174	209	244	279
3	52	105	157	209	262	314	366	419
4	70	140	209	279	349	419	488	558
5	87	174	261	349	436	523	610	697
6	105	209	314	418	523	627	732	836
7	122	244	366	487	609	731	853	975
8	139	278	418	557	696	835	974	1113
9	156	313	469	626	782	939	1095	1251
10	174	347	521	695	868	1042	1216	1389
11	191	382	572	763	954	1145	1336	1526
12	208	416	624	832	1040	1247	1455	1663
13	225	450	675	900	1125	1350	1575	1800
14	242	484	726	968	1210	1452	1693	1935
15	259	518	776	1035	1294	1553	1812	2071
16	276	551	827	1103	1378	1654	1929	2205
17	292	585	877	1169	1462	1754	2047	2339
18	309	618	927	1236	1545	1854	2163	2472
19	326	651	977	1302	1628	1953	2279	2605
20	342	684	1026	1368	1710	2052	2394	2736

### 3.3 Remote control

The levelling equipment is equipped with radio control and is controlled by the supplied remote control.

The remote control is calibrated for the levelling equipment, using a specific radio frequency. This means that several levelling devices can be used with their own remote controls on the same work site, without disrupting each other.

If several remote controls are used on the same work site, and for some reason are using the same radio frequency, there is a risk of them disrupting each other. In this case, it is necessary to change the radio frequency of the affected remote controls and receivers.

Changing the radio frequency may only be performed by authorised personnel.

### 3.4 Intended use

**Ganterud L12 Pro:** The levelling equipment is intended for lifting objects with a maximum weight of 12 tonnes, as well as for levelling where the maximum imbalance between the attachments is 2.5 tonnes.

The levelling equipment is designed for lifting with a maximum chain angle of 60° between chains.

The levelling equipment can be used both indoors and outdoors, within a temperature range of -20°C to +40°C.

### 3.5 Disposal

Disposal must take place in accordance with local rules and regulations.

# 4 Operation

## 4.1 Daily inspection



### WARNING!

*Each and every one of the checkpoints below must be approved before the GANTERUD L12 Pro is used.*

#### 4.1.1 Before use

CHECK:

- that the batteries in the levelling equipment are charged
- whether the batteries in the remote control need to be replaced
- that the main power switch is set to the On position
- that no mechanical damage is present on the product
- that no mechanical obstacles are present on and around the chain
- that no damage is present on the chain, the entire chain must be inspected
- that the chain and lifting hooks are intact and clean
- that the locking mechanisms on the lifting hooks are working
- that the decals are clearly legible

#### 4.1.2 After use

CHECK:

- whether the batteries in the levelling equipment need charging
- whether the batteries in the remote control need to be replaced
- that the main power switch is set to the Off position
- that no mechanical damage is present on the product
- that no mechanical obstacles are present on and around the chain
- that no damage is present on the chain, the entire chain must be inspected
- that the chain and lifting hooks are intact and clean
- that the locking mechanisms on the lifting hooks are working
- that the decals are clearly legible

## 4.2 Operating the levelling equipment

### 4.2.1 Preparations

- Load control must be performed by the responsible operator. Max. load 12 tonnes.
- Plan the lift and perform a risk analysis (see applicable local regulations and working instructions).
- Make sure that daily inspection is performed (see "Daily inspection" under section 4.1).
- Make sure that the levelling equipment is free from damage that could jeopardise safety.
- Check that the battery charger on the levelling equipment is disconnected from the power source.
- Check that the door to the levelling equipment is closed.

### 4.2.2 Normal use



#### NOTE!

*Loaded levelling equipment must be operated in slow mode!*

*When using the levelling equipment in certain situations, noise and vibration may occur in the levelling equipment. It is perfectly normal and occurs when the chain is in motion during levelling.*



Position	Description
A	Remote control active
B	Fast mode active. (Do not use when the levelling equipment is loaded)
C	Lower hook 1 (raises hook 2)
D	On/Off
E	Release buttons for activating free wheel function / releasing the brake
F	Activates fast mode
G	Lower hook 2 (raises hook 1)
H	Used when deleting remote controls
I	On/Off button for remote control

## 4.3 Snatch block function



### NOTE!

*The load on the levelling equipment must be relieved fully when the snatch block function is activated.*

The brake on the levelling equipment can be disengaged.

For example, this function can be used to check the equilibrium of the load before the actual lift takes place. In some cases, up to a tonne of weight may be needed in one hook to activate decoupling depending on the chain angle and the type of object being lifted. You can then use the remote control so the chain on both sides is stretched.

The snatch block function is controlled according to:

A – Press the release buttons (marked RELEASE) on the remote control at the same time until the warning lights on the levelling equipment come on. The snatch block function is now activated.

B – The snatch block function is deactivated by pressing either button 1 or button 2.



## 4.4 Calibration of the neutral position

When levelling, the chain's end positions are governed by the neutral position that is calibrated in the factory. This should not normally need to be recalibrated.

Contact Ganterud Lifting Solutions AB if you have any questions.



# 4.5 Synchronising new remote control with levelling equipment

If the old remote control has to be replaced, or if you want to have two remote controls for one levelling device.

### Deleting:

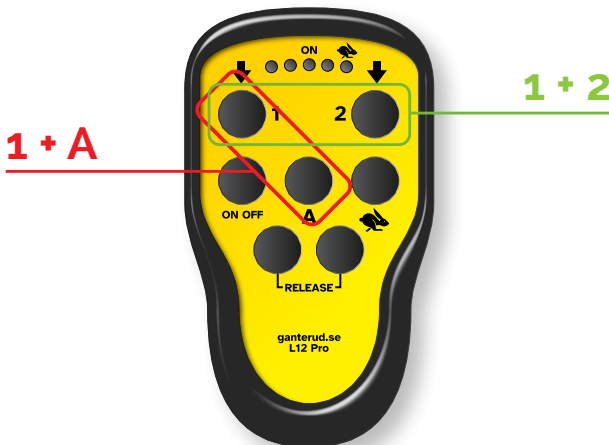
1. Make sure that the levelling equipment is switched off using the power switch, and that the new remote control is switched off.
2. Turn on the new remote control.
3. Turn on the switch on the levelling equipment.
4. Press **button "1" and button "A"** on the remote control at the same time for approx. 5 seconds. The old remote control has now been deleted in the levelling equipment.

Press the various buttons to check that it is not working. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.

### Synchronising:

1. Turn off the levelling equipment with the power switch, and turn off the new remote control.
2. Turn on the new remote control.
3. Turn on the switch on the levelling equipment.
4. Press both arrow keys (**button "1" and button "2"**) on the new remote control for approx. 5 seconds. The new remote control is now synchronised with the levelling equipment.

Test all functions of the levelling equipment. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.



# 5 Tandem operation

**Tandem operation with a remote control of two levelling devices GANTERUD L12 Pro simultaneously.**

**Start by deleting both the remote controls as described below:**

Make sure that the levelling equipment is turned off with the power switch, and that the remote control(s) are turned off.

1. Turn on "remote control 1".
2. Turn on the switch on "levelling device 1".
3. Press **button "1" and button "A"** on the remote control at the same time for approx. 5 seconds. "Remote control 1" has now been deleted.
4. Press the various buttons to check that it is not working. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.
5. Do the same with the other levelling device.
6. Then turn off the power switch for "levelling device 1" and "remote control 1".

1. Turn on "remote control 2".
2. Turn on the switch on "levelling device 2".
3. Press **button "1" and button "A"** on the remote control at the same time for approx. 5 seconds. "Remote control 2" has now been deleted.
4. Press the various buttons to check that it is not working. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.
5. Do the same with the other levelling device.
6. Then turn off the power switch for "levelling device 2" and "remote control 2".

**Then determine which levelling device is "levelling device 1" and "levelling device 2" respectively, and turn off both levelling devices with the switch, and turn off both remote controls.**

1. Turn on "remote control 1".
2. Turn on the switch on "levelling device 1".
3. Press both arrow keys (**button "1" and button "2"**) on "remote control 1" for approx. 5 seconds.
4. "Remote control 1" is now synchronised with "levelling device 1".
5. Then turn off the power switch for "levelling device 1" and "remote control 1".

1. Turn on "remote control 1".
2. Turn on the switch on "levelling device 2".
3. Press both arrow keys (**button "1" and button "2"**) on "remote control 1" for approx. 5 seconds.
4. "Remote control 1" is now synchronised with "levelling device 2".
5. Then turn off the power switch for "levelling device 2" and "remote control 1".

1. Switch on "levelling device 1" and "levelling device 2".
2. Turn on "Remote control 1".

Test all the functions. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.

When you subsequently want to use the levelling devices separately, it is **EXTREMELY IMPORTANT** for both the remote controls to be deleted and synchronised with their respective levelling devices again as described below.

### **Deleting:**

Make sure that the levelling equipment is turned off with the power switch, and that the remote control(s) are turned off.

1. Turn on "remote control 1".
2. Turn on the switch on "levelling device 1".
3. Press **button "1" and button "A"** on the remote control at the same time for approx. 5 seconds. "Remote control 1" has now been deleted.
4. Press the various buttons to check that it is not working. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.
5. Then turn off the power switch for "levelling device 1" and "remote control 1".

1. Turn on "remote control 2".
2. Turn on the switch on "levelling device 2".
3. Press **button "1" and button "A"** on the remote control at the same time for approx. 5 seconds. "Remote control 2" has now been deleted.
4. Press the various buttons to check that it is not working. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.
5. Then turn off the power switch for "levelling device 2" and "remote control 2".

### **Synchronising the remote controls to each levelling device again following tandem operation:**

1. Turn off both levelling devices with the power switch, and turn off both remote controls.
2. Turn on "remote control 1".
3. Turn on the switch on "levelling device 1".
4. Press both arrow keys (**button "1" and button "2"**) on "remote control 1" for approx. 5 seconds.
5. "Remote control 1" is now synchronised with "levelling device 1".
6. Turn off the power switch for "levelling device 1" and "remote control 1" and perform synchronisation in the same way with "levelling device 2".

1. "Remote control 2" and "levelling device 2"
2. Turn off "levelling device 2" and "remote control 2"
3. Switch on "levelling device 1" and "remote control 1" and test all functions of the levelling equipment. Then do the same with "levelling device 2"
4. Note: take care and monitor both levelling devices to make sure that no risk of injury can arise.

# 6 Maintenance

- Always decouple the levelling equipment from the crane or other lifting device, and place it on the ground before commencing maintenance work. The levelling equipment must be placed on a firm surface with access to good lighting.
- Always remove the key for the main power switch before commencing maintenance work.

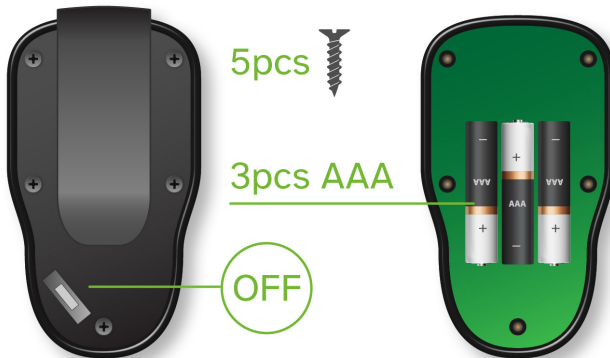
## 6.1 Charging the batteries of the levelling equipment

The batteries may only be charged in a well ventilated area. Make sure that the levelling equipment is turned off with the main power switch before commencing charging.

## 6.2 Replacing batteries in the remote control

The remote control is powered by 3 AAA batteries.

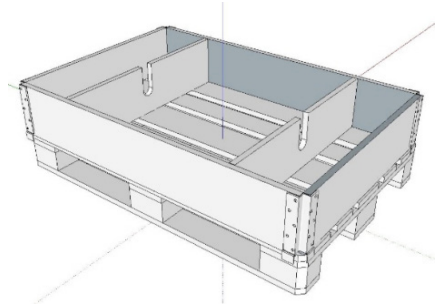
First turn the power switch on the back of the remote control to the Off position, and then remove the back of the remote control to access the batteries. Replace the old batteries with new batteries and reassemble the remote control. Recycle the old batteries in accordance with local rules and regulations.



## 6.3 Storage and transport

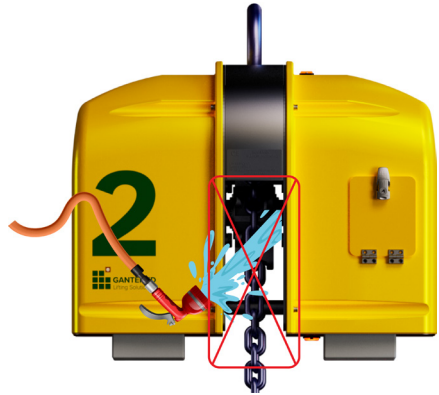
The GANTERUD L12 Pro must be stored and transported in the original packaging. The levelling equipment must be stored indoors/protected from the weather and with charged batteries. If the levelling equipment is to be stored for longer than 3 months, the batteries must be connected to trickle charge so that there is no risk of them losing capacity.

In this case, storage may take place at a minimum of -20°C. If this is not possible, the batteries must be removed and stored indoors in an environment that satisfies these requirements.



## 6.4 Cleaning

- The levelling equipment must not be cleaned with a pressure washer.
- A hose pipe and a sponge are recommended.
- Never flush up under the plate over the chain wheel.



## 6.5 Inspection

- GANTERUD L12 Pro – levelling equipment is not subject to 3rd party inspection.
- Visual inspection may be carried out by an inspector designated at the work site.
- Make a note when the inspection has been performed.
- The levelling equipment must be inspected annually by a service partner that we have approved, and if necessary serviced.
- Contact Ganterud Lifting Solutions AB for more information.

# 7 Technical data



## Control system for remote control

Number of function buttons.....7  
 Power output.....12 MW  
 Power supply.....3 x 1.5V AAA  
 IP rating.....IP67

## Optional extra equipment

Protective cover  
 Chain kit in other lengths  
 Extra batteries  
 Transport packaging



# GANTERUD L12 Pro

## Technical data

Lifting capacity: Max. 12 tonnes

Load imbalance capacity: Max. 2,5 tonnes

Max. levelling length: 4 m in standard version (2 m in both directions).

Two levelling speeds.

Max. chain angle: 60 degrees between chains at 12 tonne load.

Total chain length: 4 m in standard version.

Chain dimensions: 48x16 mm

Unloaded weight: Approx. 295 kg (incl. chain and hooks).

Height: 750 mm.

Width: 740 mm.

Depth: 595 mm.

## Control system

Radio range: 100 m unobstructed view

Voltage, electric motor: 24 VDC

Power consumption, rest: 50 mA

Power consumption, max. continuous: 24 A

Power consumption, peak: 30 A

## Certification

CE marked product

## Environmental requirements

Operating temperature: -20°C to +40°C

Storage temperature: -20°C to +45°C

Relative humidity (RH): 0-90% during storage

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We reserve the right to alter specifications or designs without prior notification, and make reservation for any factual errors. Variations in specifications and equipment standards may occur between different geographical markets. Please contact us for more information regarding applicable product specifications and local adaptations.



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