

LH200

Translation of the original instructions

CE Directive 2006/42/EC on machinery

LH200

Load holder

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The load holder LH200 may only be used to manually lift, position or lower loads from or to a higher or lower level. A suitable rope clamp can be used to facilitate a better grip on the rope.

The load holder must be securely attached to an adequately strong anchor point. A hoist can be integrated to move heavier loads.

Maximum useful load depending on the ratio:

- 1:1 without a hoist 25 kg
- 2:1 hoist 50 kg
- 3:1 hoist 75 kg
- 4:1 hoist 100 kg
- 5:1 hoist 125 kg

Minimum weight of the load: depending on the ratio, see diagrams from page 18
Application temperature: -30 °C to +60 °C

All other uses are deemed improper. The company BORNACK will not be liable for any ensuing damages. The user bears the sole risk.

FUNCTION

Loads can be positioned in a controlled manner with the LH200. If the user lets go of the pull rope, the auto-stop function blocks and prevents the load from falling.

BRIEF DESCRIPTION

EQUIPMENT

- Load holder basic unit made of metal and plastic.
- BORNACK kernmantle rope GEOSTATIC 9 mm or 16 mm made of polyamide with
 - connector acc. to EN 362 made of aluminium or steel and
 - sewn rope end connections with thimbles
- DRYPACK

ACCESSORIES

- Accessories for 9 mm kernmantle rope:
 - Rope clamp right
 - Rope clamp left
 - Pulleys for a ratio of 3:1 or 5:1
 - 2 connectors acc. to EN 362
- Accessories for 16 mm kernmantle rope:
 - Pulleys for a ratio of 3:1 or 5:1
 - 2 connectors acc. to EN 362
- Collapsible bucket

USE

- Lifting, lowering and positioning of loads

CAUTION: RISK TO LIFE!

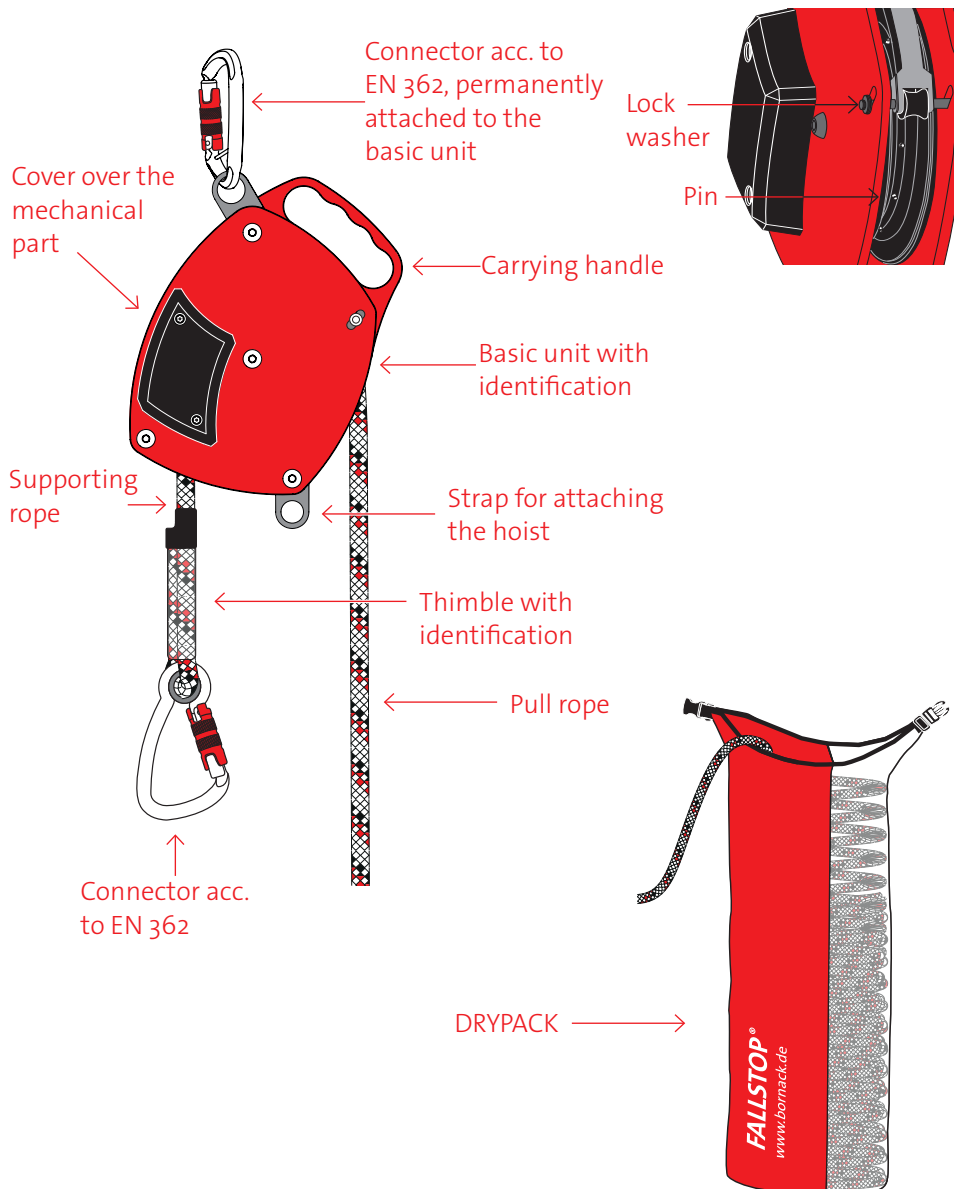


It is not allowed to use the LH200 to secure persons!

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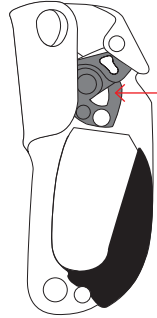
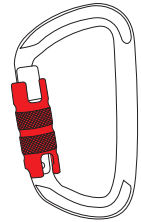
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LH200



ACCESSORIES

Connector
acc. to EN 362



Clamping
cam

Rope clamp

Connection
opening

Simple pulley
for 9 mm rope

Load hook

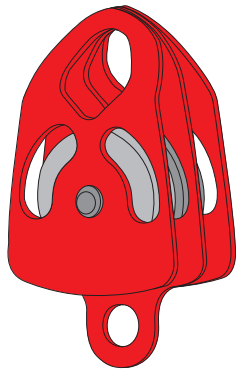
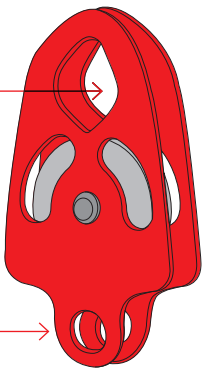


Double pulley
for 9 mm rope

Connection
opening

Simple pulley
for 16 mm
rope

Load hook



Double
pulley for
16 mm rope

POSSIBLE MISUSES

- Overloading can cause the LH200 to fail and the transported load to fall! Therefore, observe the minimum useful weight of the LH200.
- If the minimum weight is undercut, this will restrict the lowering and positioning function. Therefore, observe the minimum weight of the load.
- It is not allowed to use the LH200 to secure persons.
- Incorrectly attached loads may fall and endanger the operator. Therefore, use suitable connectors to attach the load to the support rope or the pulleys.
- Positioning the anchor point outside the designated location can cause the load to swing, and therefore endanger the operator and other persons in the vicinity. Therefore, always attach the anchor point directly above the designated place.
- When selecting the anchor point, ensure that it can bear a load of at least 500 kg.
- Icy or heavily soiled ropes can hinder the blocking mechanism and cause the load to fall. Therefore, look after and clean the ropes; if necessary.
- When using the LH200, there is a risk of tripping on the unwound pull rope.
- Using this device without gloves can lead to injuries of the hands. Therefore, wear safety gloves when using this device.
- Long, loose hair can become caught in the moving part of the load holder. Therefore, wear appropriate hair protection and a helmet, or attach the load securing device out of reach.
- The transported load can fall, if unsuitable lanyards are used (rope diameter, rope expansion etc.). Only use original ropes from BORNACK. Wear a safety helmet.
- Rule out the risk of a fall load caused by slack rope.
- Do not stand under suspended loads. Operators must wear a safety helmet and safety shoes.
- When working close to live parts, select a suitable anchor point outside the electrical hazard zone for the load holder.
- The rope may jump out of the pulley, if the pulley is not mounted or secured correctly.
- When using pulleys, both plates of the pulley always need to be secured by a connector acc. to EN 362.
- When using double pulleys, the rope needs to be inserted through both rollers of the double pulley.
- A rope clamp must be used when using the 9 mm kernmantle rope.
- In case of strong winds, conduct a hazard assessment to check whether it can be used outdoors.

POSSIBLE MISUSES

- The load may only be hooked into the support rope or the pulleys to which the support rope is connected.
- The lock function of the LH200 cannot be guaranteed, if it is used over edges. Therefore do not use the LH200 over edges. When using the LH200, ensure that the support rope has not been retracted too far because this may cause the system to block and the load can no longer be lowered.
- Any misuses not listed here can be identified reliably by means of a separate risk analysis by the user, and appropriate safety measures can be taken.

INFORMATION BEFORE USE



Always check every time before use!

- The LH200 may no longer be used if even very minor faults are discovered when inspected.
- Faulty LH200s may only be tested or repaired by BORNACK or in a workshop authorised in writing by BORNACK.
- Regular inspections are essential because the safety of the user depends on the efficiency and durability of the machine.
- The user must have completely read and understood the instructions before use.

VISUAL INSPECTION

- Check that the LH200, in particular rope, rope end connections, connector and possible rolls of rope) is complete and in a flawless condition.
- LH200 without mechanical or chemical damage.
- No corrosion of metal parts.
- All rivets and screw connections are complete and tightened.
- The last inspection by an expert was carried out within the past 12 months.
- The pins on the roller of the LH200 are in a flawless condition, are tight and complete in number.

FUNCTION TEST

- Moving components of the basic unit runs smoothly.
- The snapper function of the connector(s) run smoothly. The snapper closes and locks automatically.
- Arresting function responds to jerking on the support rope and blocks the rope.
- The device unlocks again when the pull rope is pulled.

LH200 IN USE

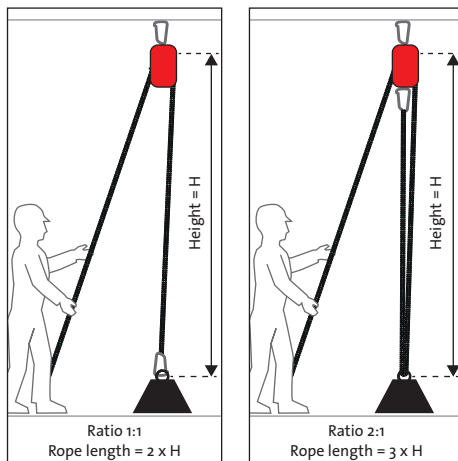
PREPARATION

Before using the LH200, calculate how long the rope needs to be to reach the required lifting height. The required rope length is calculated as follows:

Rope length
= Lifting height + (ratio x lifting height)

In case of ratios of 1:1 (LH200 without a hoist) e.g. at least 10 m + (1 x 10 m) = 20 m rope is required for a lifting height of 10 m.

In case of ratios of 2:1 (LH200 with a 2:1 hoist) e.g. at least 10 m + (2 x 10 m) = 30 m rope is required for a lifting height of 10 m.



ATTENTION:



If possible, select an anchor point that is directly above the load. The anchor point must be able to bear at least 500 kg.

CAUTION: RISK TO LIFE!



Select a work position for the operator that ensures a clear line of vision to both the load holder and the load. It is prohibited to stand under suspended loads!

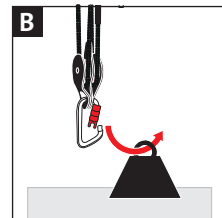
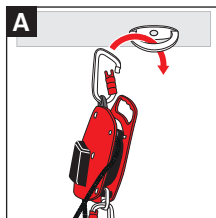
LH200 IN USE

ATTENTION:



Select an anchor point that allows the load holder to be used without it being in the fall space of the load holder and load!

A Attach the load holder basic unit directly to the anchor point using the connector acc. to EN 362. If necessary, create an anchor point on a strong building element using appropriate anchor equipment (e.g. STEP sling).



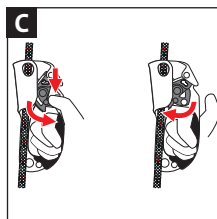
B Lower the end of the load rope with a connector acc. to EN 362 or the pulley with a connector down to the load and attach.


LH200 IN USE

APPLICATION OPTIONS

The LH200 is designed for a manual tensile force of up to 25 kg. As the load is pulled with the LH200 manually using physical force/body weight, the load may not be too heavy. Otherwise, the load cannot be lifted or lowered in a controlled manner. Attach a hoist for heavier loads (see page 13).

C One/two rope clamp(s) (ascender right/left) can be used for a better grip on the 9 mm rope and to facilitate use of the LH200. To do this, open the clamping cam and insert the rope.



Observe the User Manual of the  rope clamp.

ATTENTION: 
Wear safety gloves when using the LH200.

ATTENTION: 
The rope must be free of knots and kinks.

LH200 IN USE

Lifting

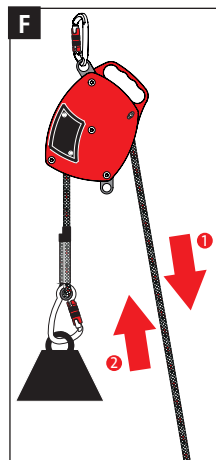
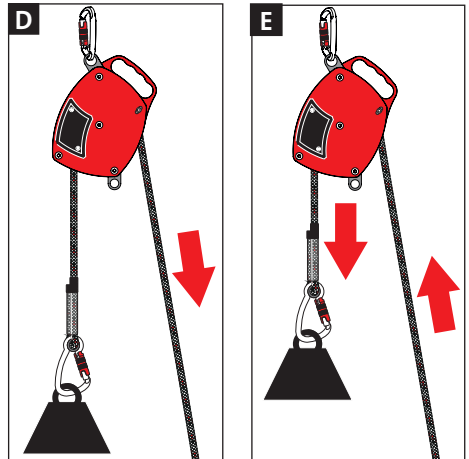
D Pull the pull rope until the load is lifted from the surface. Lift the load to the required parking position.

Positioning

E Pull the load to the required position. The auto-stop function of the LH200 is activated by slowly releasing the pull rope. The load can be parked in this way.


Lowering


F The auto-stop function of the LH200 is unlocked by pulling the pull rope. The load can now be lowered in a controlled manner. The lowering process is blocked by the auto-stop function, if the lowering speed is too high.




LH200 IN USE

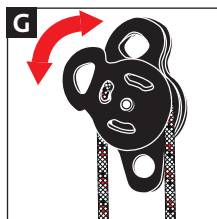
ATTACHMENT OF THE HOIST

Observe the User Manual of the pulleys. 

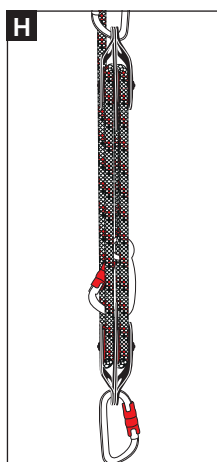
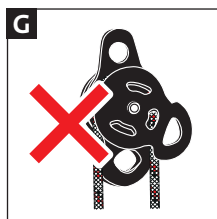
ATTENTION: 
To integrate the hoist, only the pulleys sold as accessories for the LH200 may be used.

ATTENTION: 
The plates of the connection opening must surround the rope and be secured with a connector.

G To hook in the pulley, unscrew the plates of the connection opening and insert the rope. The rope must lie on the roller on the connection opening side. When inserting the rope, secure the connection opening of the pulley with a connector.



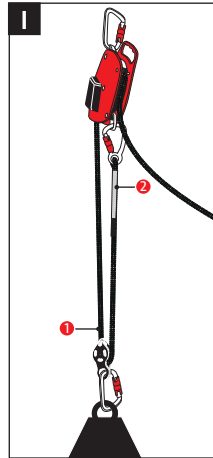
H When using double pulleys, ensure that the ropes run parallel to one another between the pulleys, and do not cross.



LH200 IN USE

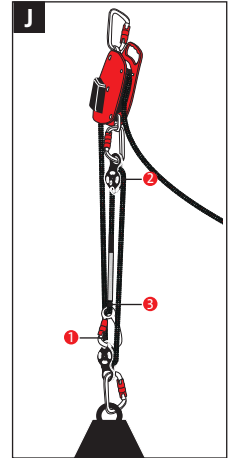
I A ratio of 2:1 is achieved as follows:

- 1. Place the support rope into the lower pulley.
- 2. Attach the support rope with the connector on the strap of the LH200 to mount the hoist.



J A ratio of 3:1 is achieved as follows:

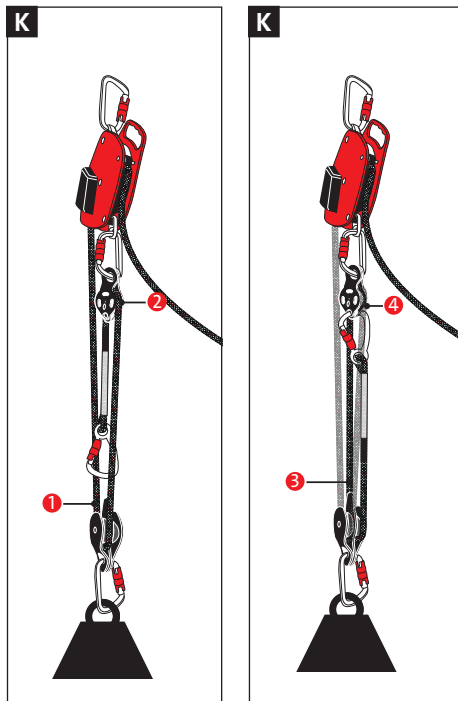
- 1. Place the support rope into the lower pulley.
- 2. Place the support rope into the upper pulley.
- 3. Attach the support rope with the connector to the load hook of the lower pulley.



LH200 IN USE

K A ratio of 4:1 is achieved as follows:

- 1. Place the support rope into the left roller of the lower double pulley.
- 2nd Place the support rope into the upper pulley.
- 3rd Place the support rope into the right roller of the lower double pulley.
- 4th Attach the support rope with the connector to the load hook of the upper pulley.



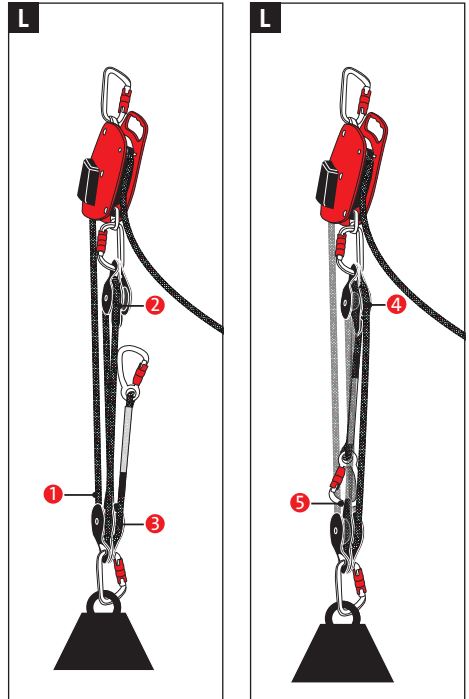
LH200 IN USE

L A ratio of 5:1 is achieved as follows:

- 1. Place the support rope into the left roller of the lower double pulley.
- 2. Place the support rope into the left roller of the upper double pulley.
- 3. Place the support rope into the right roller of the lower double pulley.
- 4. Place the support rope into the right roller of the upper double pulley.
- 5. Attach the support rope with the connector to the load hook of the lower pulley.

COMBINATION

When combining this product with other parts, there is a risk of mutual impairment with respect to the function and safety. Compatibility must be assessed in a risk analysis. Only combine with components that bear a CE symbol. If you have any questions about compatibility or you require help with the risk analyses, feel free to contact BORNACK.



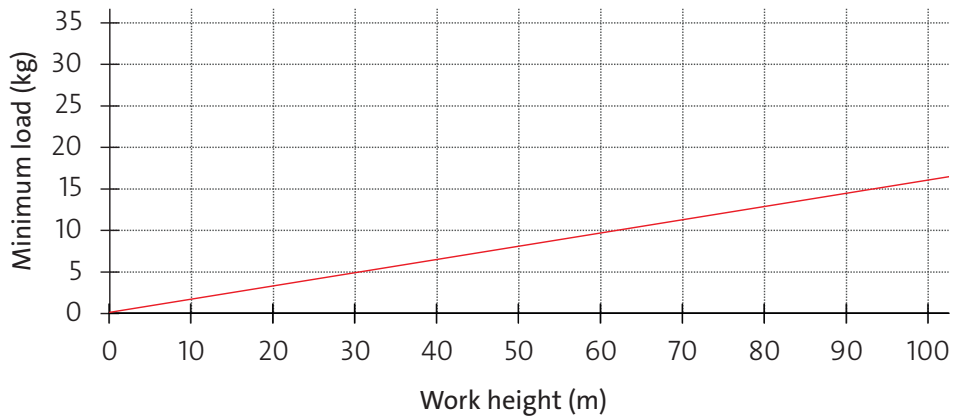
LH200 IN USE

MINIMUM WEIGHT

Depending on the ratio and work height, the load requires a minimum weight to guarantee the function of the LH200.

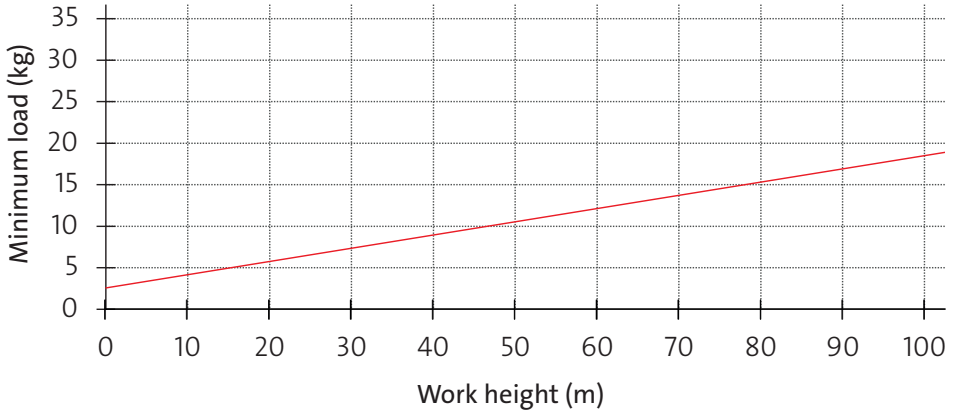
To be able to lower the load when operated from below, the load must, e.g., have a minimum weight of approx. 5 kg, at a ratio of 1:1 and a lift height of 30 m.

Ratio 1:1

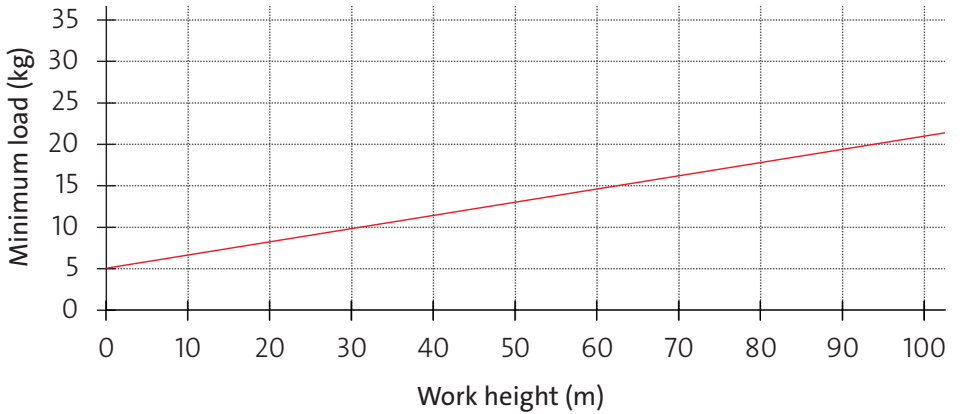


LH200 IN USE

Ratio 2:1

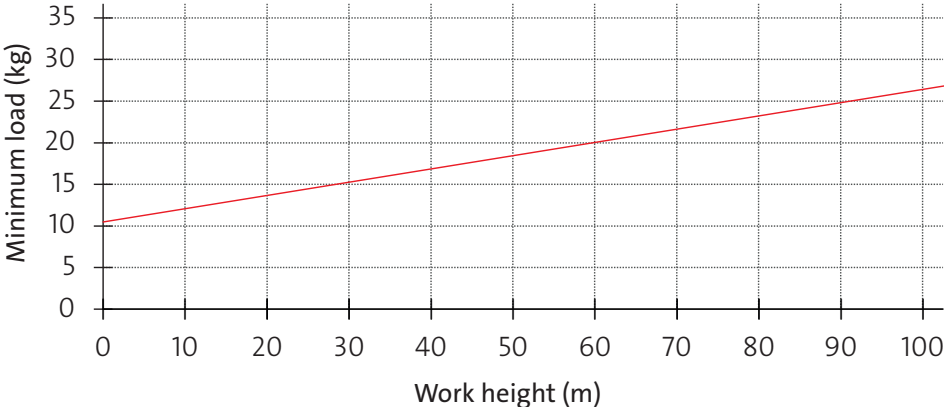


Ratio 3:1

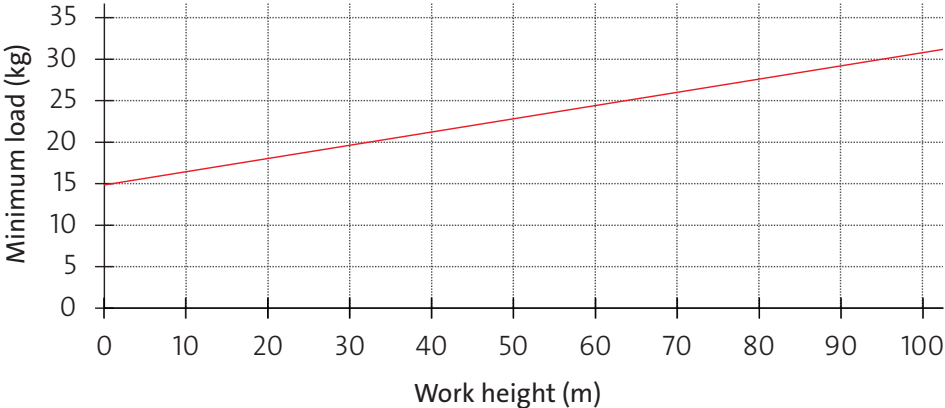


LH200 IN USE

Ratio 4:1



Ratio 5:1



SAFETY REGULATIONS

There is a risk to life if these safety instructions are not observed!

- The LH200 may no longer be used even in the case of very minor faults.
- Damaged, fall-stressed or dubious equipment must be immediately withdrawn and not used. Inspections may only be carried out by BORNACK or an expert briefed by BORNACK about the inspection, including the corresponding certificate. This must be documented in the test card.
- Independent modifications or repairs are not allowed.
- The LH200 may only be used by trained staff that are familiar with the material. They must be proficient in handling the device and must have been briefed about the possible risks associated with its use.
- If it is no longer possible to position the load in a controlled manner, the device needs to be serviced by the manufacturer.
- When operating the LH200 in areas where there is a risk of falls, the operator must wear fall protection equipment.
- Health impairments can jeopardise the safety of the user when working at heights or depths.
- Protect equipment during storing, use and transportation against the effects of heat (e.g. welding flames or sparks, burning cigarettes) and chemicals (e.g. acids, alkalis, oils) and mechanical impact (e.g. sharp edges).
- The local safety guidelines (e.g. in Germany, the DGUV Regulations 112-198 and 112-199 issued by the professional associations) and the accident prevention guidelines for the specific industry (UVV) must be observed.

OTHER

APPROVAL:

Complies with the Directive 2006/42/EC on machinery.

Quality management system certified to ISO 9001:2015.

The stated maximum useful load of the LH200 has been confirmed in corresponding static and dynamic tests.

REGULAR INSPECTIONS

- This product must be inspected by BORNACK or by the expert briefed by BORNACK about the inspection at least once a year, including the corresponding certificate. The result must be documented in the test card at the end of these instructions.

SALES

- The dealer must ensure that the original instructions and its translation in the language of the designated country are supplied. The respective translation must be authorised by BORNACK.

SERVICE

If you have any further questions about this product or other BORNACK services, such as:

- Risk analyses
- Rescue concepts
- Training courses
- Expert inspections
- Technical inspections
- Maintenance + inspections

please contact our e-mail hotline: info@bornack.de

We will be happy to help!

OTHER

MAINTENANCE

- If necessary, apply a small amount of oil on the joints so that the moving parts of connectors and other devices run smoothly. If possible, use precision mechanics oil. Ensure that the oil does not come into contact with textile components.
- Maintenance may only be carried out by BORNACK or an expert briefed by BORNACK about the inspection, including the corresponding certificate. All instructions in these instructions must be strictly observed. Equipment that is clean and well looked after will last longer!

CLEANING

- Dry damp equipment in the air, not on artificial heat sources. Dry metal components with cloths.
- Clean soiled textile components (e.g. ropes etc.) with lukewarm water and a little detergent for delicates. Then rinse carefully and allow to dry in the air. Other cleaning agents are not allowed!
- If disinfection is necessary, please contact the e-mail hotline: info@bornack.de

- If the product comes into contact with salt-water, keep it wet until it can be rinsed with plenty of distilled water.
- Use compressed air to blow on the unit if necessary.

LIFE SPAN

The following recommendation applies for the use of the LH200:

Maximum usage period after being used for the first time: 10 years

In ideal storage conditions and annual inspections, the product may be stored for up to 3 more years before it is used for the first time without impacting on the stated maximum usage period. Every further year in storage reduces the final maximum allowed usage period by 1 year.

Metal parts are not subject to age-related life span deadlines. The expert makes a decision based on his technical expertise and the latest version of the standard.

OTHER

For reasons of safety, intensive use and/or extreme application conditions such as sharp edges, chemical influences, UV radiation etc. will reduce the usage period. The company owner needs to take this into account in the workplace risk analysis.

The company owner must ensure compliance with the maximum usage period by documenting first-time use in the test card.

The test card at the end of these instructions must be presented during the regular expert inspections and be completed by an expert.

For more details, please visit www.bornack.de.

REPAIRS

- For reasons of liability, repairs may only be carried out by BORNACK or in a workshop authorised in writing by BORNACK.
- Only original spare parts from the manufacturer may be used.

STORAGE

- Dry wet equipment **before** storage.
- Store in a dry place away from direct sunlight.
- Do not store equipment near radiators. Permanent exposure to temperatures below 0 °C or above +50 °C has a negative impact on the strength of the textile material and shortens the life span.
- Do not allow equipment to come into contact with aggressive substances (e.g. oils, grease, acids, chemicals). Precision mechanics oil may be applied to moving metallic parts during maintenance. Always ensure that textile components do not come into contact with the oil.
- Do not store equipment close to aggressive substances (see above) because even the vapours of aggressive substances can have a negative effect on the strength of the equipment.
- Protected storage in the DRYPACK.

TRANSPORT

- Protected transport in the DRYPACK.

OTHER

PRODUCT IDENTIFICATION

The following identification is on the product:

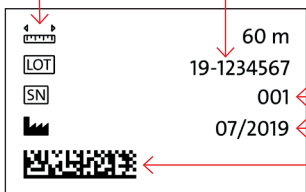
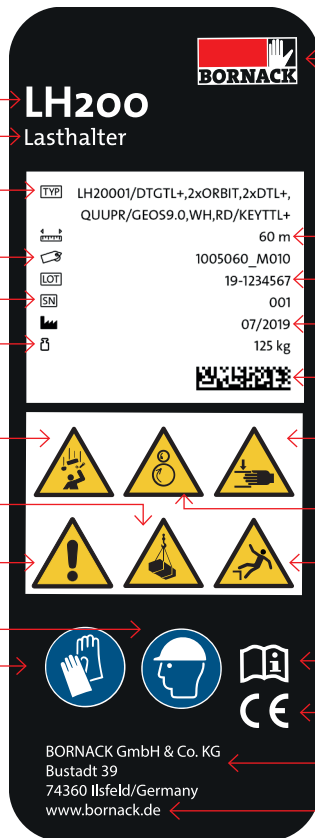
Identification basic unit:

- Product name → LH200
- Product category → Lasthalter
- Product type → LH20001/DTGTL+,2xORBIT,2xDTL+, QUUPR/GEOS9.0,WH,RD/KEYTTL+
- Item number → 60 m
- Serial number → 1005060_M010
- Useful load → 19-1234567
- Charge → 001
- Production date → 07/2019
- Useful load → 125 kg

- Warning: falling objects
- Warning: suspended load
- Warning: danger zone
- Warning: risk of hand injuries
- Warning: rollers run in the opposite direction
- Warning: risk of falling
- Observe/read the instructions
- Wear a helmet
- Protect your hands

Identification rope:

- Size → 60 m
- Charge → 19-1234567
- Serial number → 001
- Production date → 07/2019
- Data matrix



- ← Logo
- ← Size
- ← Charge
- ← Production date
- ← Data matrix
- ← Warning: risk of hand injuries
- ← Warning: rollers run in the opposite direction
- ← Warning: risk of falling
- ← Observe/read the instructions
- ← CE symbol
- ← Manufacturer address
- ← Contact

EC DECLARATION OF CONFORMITY

within the meaning of the EC Directive 2006/42/EC on machinery (Annex II A).

BORNACK GmbH & Co. KG
Bustadt 39, 74360 Ilfeld, Germany


This declaration relates exclusively to the machine in the state in which it was placed on the market, and excludes components which are added and/or operations carried out subsequently by the final user. This declaration becomes invalid, if the product is modified in any way.


We hereby declare that the machine described below

Product type: Load holder

Product name: LH200

Charge: see label, right 

Serial number: see label, right 

Production date: see label, right 

complies with the relevant provisions of the EC Directive 2006/42/EC on machinery.

Applied harmonised norms

- EN ISO 12100:2010
Safety of machinery -
General principles for design
- EN 13157:2004+A1:2009
Safety – Hand powered cranes

Authorised representative for the compilation of the relevant technical documentation

Christoph Hemmann,
c/o BORNACK GmbH & Co. KG
Bustadt 39, 74360 Ilfeld, Germany

(attach label here)

Ilsfeld, _____
Date

Ulrike Bornack
Managing director

TEST CARD

FOR ANNUAL MONITORING

The test list must be completed in full by the expert during the annual inspection.

This test list does not claim to cover all test criteria and does not relieve the expert from his decision about the overall condition.

Type: _____

Production date: _____ / _____
Rope Basic unit

Charge: _____ / _____
Rope Basic unit

Serial no.: _____ / _____
Rope Basic unit

Purchase date: _____

Date of first Use: _____

Maximum life span until: _____

	Date	Signature	Next inspection	Reason for inspection
Year 1				
Year 2				
Year 3				
Year 4				
Year 5				
Year 6				
Year 7				
Year 8				
Year 9				
Year 10				

TEST CARD

FOR ANNUAL MONITORING

Please complete: × √

Year	1	2	3	4	5	6	7	8	9	10
Basic unit:										
Complete and clean?										
Identification legible?										
No deformed parts?										
No cracks in load-bearing parts?										
No wear / abrasion?										
No corrosion?										
No foreign bodies within the unit?										
Does the pulley rotate smoothly?										
Centrifugal force mechanism blocks when the pull rope is jerked?										
All pins on the pulley are in place and tight?										

Continued on the next page

TEST CARD

FOR ANNUAL MONITORING

Please complete:

×

√

Year	1	2	3	4	5	6	7	8	9	10
Cover over the mechanical part undamaged?										
Cover below the cover of the mechanical part undamaged?										
Lock washers of the rollers are in place and undamaged?										
Rivets are undamaged and tight?										
Screw connections tight?										
Screw heads/nuts secured?										

Continued on the next page



FALLSTOP

Safety equipment for securing and rescuing at heights and depths

SAFEPOINT

Planning and assembly of stationary securing systems

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