

BOOT

User Manual

BOOT

Height-securing device with a memory function

Subject to technical changes

BRIEF DESCRIPTION

INTENDED USE

The height-securing device BOOT is part of personal protective equipment (PPE) of category III to prevent falls from heights. It only serves as an adjustable connector for restraint and arresting on platforms, roofs etc. The individual adjustment of the pull-out length prevents falls over edges.

The height-securing device BOOT only serves to secure persons. This equipment may only be used by persons familiar with personal fall prevention equipment and the risks associated with working in areas where there is a risk of falling.

Maximum number of users: 1 person

Maximum user weight including clothing and equipment: 140 kg

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

FUNCTION

- Centrifugal brake system for arresting falls
- Pawl with memory function for individual length adjustment

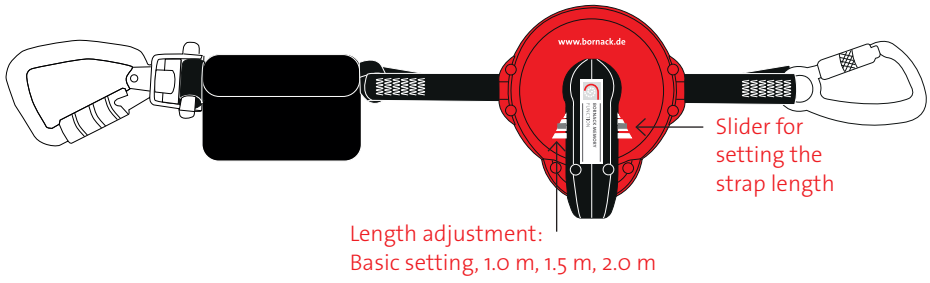
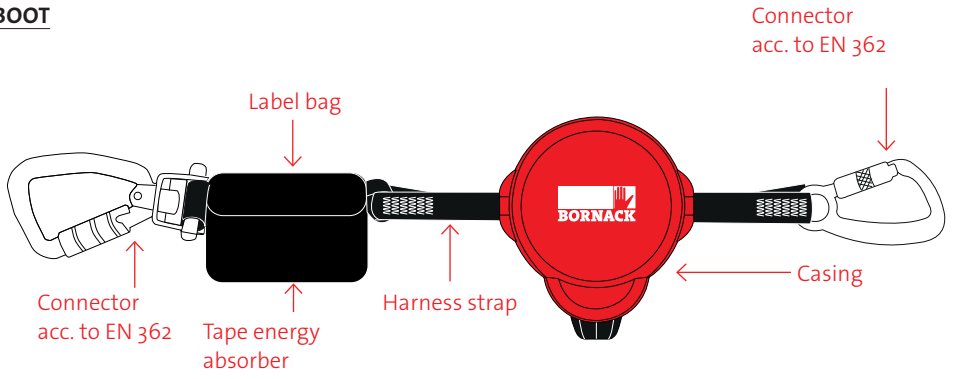
EQUIPMENT

- Aluminium casing
- Harness straps made of Dyneema and polyester
- Connector acc. to EN 362 made of aluminium or steel
- tape energy absorber integrated in the system
- Memory function

USE

- Arresting
- Retention

BOOT



INFORMATION BEFORE USE



**Always check every time
before use!**

- The personal protective equipment (PPE) may no longer be used in the case of even very minor faults.
- Faulty PPE components 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 PPE.
- The user must have completely read and understood the User Manual before use.

VISUAL INSPECTION

- PPE complete: all components in place.
- Check that the system is undamaged. All seams are undamaged. There are no visible signs of damage to the textile components nor can faults be felt with the hands.
- Are there no obvious signs of damage to the fittings, D-rings, buckles or connectors acc. to EN 362.
- Product identification legible.
- The last inspection by an expert was carried out within the past 12 months.

FUNCTION TEST

- The fasteners and locks of the connectors acc. to EN 362 are functional.
- The lanyard (harness strap) can be pulled out completely.
- Slider for the setting function of the pull-out length min. / max. works.
- The memory function for repeated pull-out to the set length works.
- Blocking function when jerked is activated, also for maximum length adjustment.

BOOT IN USE

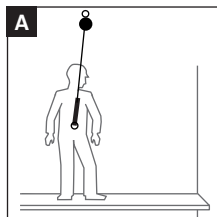
PREPARATION

A Anchor points must be adequately strong (observe 12 kN according to EN 795 and/or DGUV Regulation 112-198) and should be located above the user.

CAUTION: RISK TO LIFE!



If this PPE is used as an arrester system (free fall is possible), only full body harnesses that comply with EN 361 may be used.



ATTENTION:



If sand or dirt enter the device, this may impact on its function and cause damage.

ATTENTION:



Ensure that there no transverse loads are exerted onto the swivel element D-ring e.g. due to an edge.

CAUTION: RISK TO LIFE!

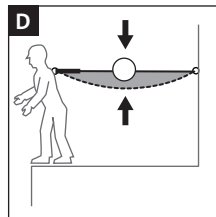
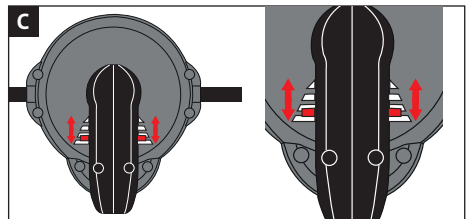
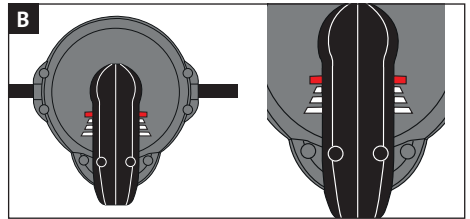


No extension by means of a connecting rope or additional connectors acc. to EN 362!

BOOT IN USE

SETTING THE MEMORY FUNCTION

- B** Place the slider in the first position. Length setting approx. 1.0 m.
- C** Correct the length: If the length needs to be corrected during work, the extended slider can be moved as required. Slider downwards – harness strap is lengthened, slider upwards – harness strap is shortened. Set required length. Max. 2.0 m. For the restraint function, the length must be selected so that the fall edges cannot be reached.
- D** The device can now only be extended to the set length and rolls up automatically when moved back to prevent slack.

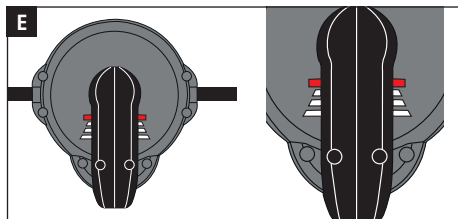


BOOT IN USE

DISMANTLING

E Return the device to the basic position after use. Place the slider at the top. The device can no longer be pulled out.

ATTENTION:  The height-securing device BOOT may not be 'wound around a structural element.




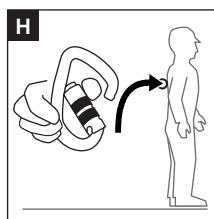
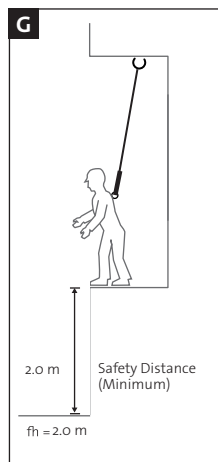
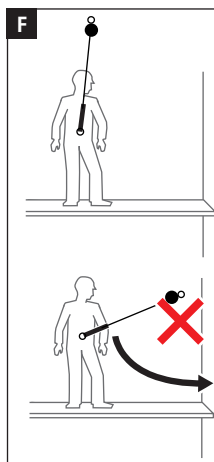
VERTICAL USE

F If possible, the device must be positioned perpendicularly above the head of the secured person to prevent swinging in case of a fall. When attaching the device, ensure that it is possible to adjust it to different belt dimensions.

G When positioned above the user, the clear height below the user must be 2.0 m.

H Once the device has been attached to the anchor point, the end of the extendible lanyard (safety karabiner on the tape energy absorber) of the BOOT must be hooked to the rear arresting D-ring of the full body harness or on the end of the rear D-ring extension.

ATTENTION:  The energy absorber always needs to be attached to the full body harness and not to the attachment point.



BOOT IN USE

HORIZONTAL USE

The height-securing device BOOT has also been tested successfully for horizontal use and a resulting simulated fall over the edge. An edge radius $r = 0.5 \text{ mm}$ was used. Based on this test, the height-securing device BOOT is suitable for use on similar edges, for instance on rolled steel profiles, wooden beams or rounded parapet panels.

Regardless of this test, if the device is used horizontally or at an incline where there is a risk of falling over an edge, the following information must always be taken into account.

ATTENTION:



If the height-securing device is used on an anchor element of type C acc. to DIN EN 795 with a horizontal flexible anchor line, the swivel range of the anchor equipment also needs to be taken into account when determining the clear height below the user. Observe the information in the User manual of the attachment equipment here.

Carry out a risk assessment:

- Is the fall edge $> 0.5 \text{ mm}$?
- Is the edge burr-free?

If this is not the case, precautions should be taken:

- Use a retention system to rule out a fall.
- Attach a suitable edge protection.

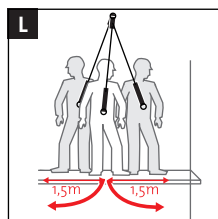
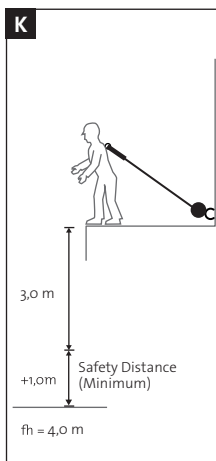
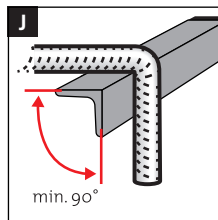
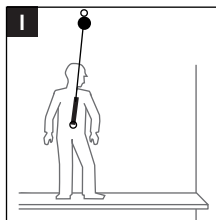
ATTENTION:



If used on slanted levels, note that the brake function may be delayed.

BOOT IN USE

- I Anchor points must be adequately strong (observe 12 kN according to EN 795 and/or DGUV Regulation 112-198)! The anchor point must lie above where the person is standing.
- J The deflection at the edge must be at least 90°.
- K Ensure adequate space of at least 4.0 m below the edge.
- L To prevent swinging after a fall, the work areas or side movements from the middle axles on both sides must be limited to max. 1.50 m. In other cases, no individual attachment points should be used, instead e.g. attachment devices of the type C (only if approved for joint use) or D according to EN 795 should be used.



ATTENTION:



When falling over an edge there is a risk of injury during the fall by banging into the building or parts of the construction.

In the event of a fall over an edge, special measures need to be defined and practised.

BOOT IN USE

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 during the risk analysis. Only combine with personal protective equipment that bears a CE symbol. If you have any questions about compatibility or you require help with the risk analyses, feel free to contact BORNACK.

SAFETY REGULATIONS

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

- The personal protective equipment (PPE) may no longer be used even in the case of very minor faults.
- Damaged, fall-stressed or dubious personal protective equipment or safety devices 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.
- Rope protection is part of the personal fall prevention equipment and should be assigned to a specific person.
- The personal protective equipment may only be used by qualified staff that are familiar with the material. They must be proficient in handling the personal protective equipment and must have been briefed about the possible risks associated with its use.
- In accordance with the accident prevention guidelines (UVV), the users of personal protective equipment against falls (Category III) must attend a theoretical training course and a practical training course. Make use of the training competence of the BORNACK training centres: info@bornack.de
- Clothing and shoes must be suitable for the task at hand and the weather conditions.
- Only use if fully fit and healthy.
- Health impairments can jeopardise the safety of the user when working at heights or depths.
- If this PPE is used as an arrester system (free fall is possible), only full body harnesses that comply with EN 361 may be used.
- Calculation of the possible fall path if all necessary PPE components are used correctly: (if necessary braking path HSG) + surplus lanyard (situation-dependent) + braking path energy absorber (max. 1.75 m) + height of D-ring (1.5 m) + safety reserve 1.0 m.
- Before use, ensure adequate clearance below the user to prevent impact on a protruding object or the ground.
- Protect personal protective 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 combinability and protective effect of the PPE must be checked for each hazard situation (risk assessment).
- If a casualty hangs motionless in a full body harness for a longer time, blood cannot flow back from the legs and/or the flow may be interrupted. This can lead to a suspension trauma, a circulatory shock with serious to fatal consequences.
- Before starting work, the responsible person must draw up a plan of rescue measures that defines how to rescue casualties quickly and safely and ensures first aid measures. Casualties must be rescued within 20 minutes. BORNACK can help you draw up tailor-made rescue plans and includes these in the necessary training courses.
E-mail hotline: info@bornack.de

SAFETY REGULATIONS

- 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 (UUV) must be observed.

OTHER

APPROVAL:

Complies with the Regulation (EU) 2016/425 for PPE.

EU type testing (Module B) and production monitoring (Module C2) by:

DEKRA Testing and Certification GmbH
Dinnendahlstr. 9, D-44809 Bochum
CE 0158

Quality management system certified to ISO 9001:2015.

Production monitoring by notified office in accordance with Category III.

Additional product testing for 'Horizontal use' and 'load over edge' ($r = 0,5 \text{ mm}$).

REGULAR INSPECTIONS

- This PPE must be inspected by the manufacturer or by the expert briefed by the manufacturer 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 this User Manual.
- Or after use.

SALES

- The dealer must ensure that the User Manual is supplied in the language of the designated country. The respective translation must be authorised by BORNACK.

SERVICE

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

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

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

We will be happy to help!

MAINTENANCE

- If necessary, apply a small amount of oil on the joints so that the moving parts of the karabiner and other devices run smoothly. If possible, use precision mechanics oil. Ensure that the oil does not come into contact with textile PPE 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 this User Manual must be strictly observed.
- Protective equipment that is clean and well looked after will last longer!

OTHER

CLEANING

- Dry damp personal protective equipment in the air, not on artificial heat sources. Dry metal components with cloths.
- Clean soiled textile components (e.g. arrester harnesses and ropes) 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 personal protective equipment comes into contact with salt-water, keep it wet until it can be rinsed with plenty of distilled water.

LIFE SPAN

The following recommendation applies for the use of the BOOT:

Maximum usage period after being used for the first time: 8 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.

The service life can only be prolonged by means of regular expert inspections and the replacement of age-related worn parts (e.g. ageing of textile components).

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 this user manual must be presented during the regular expert inspections and be completed with the certificate by the manufacturer or an expert briefed about the inspection of the device.

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.

OTHER

STORAGE

- Dry wet PPE **before** storage.
- Store in a dry place away from direct sunlight.
- Do not store PPE 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 PPE to come into contact with aggressive substances (e.g. oils, grease, acids, chemicals). Precision mechanics oils may be applied to moving metallic parts during maintenance. Always ensure that textile PPE components do not come into contact with the oil.
- Do not store personal protective equipment close to aggressive substances (see above) because even the vapours of aggressive substances can have a negative effect on the strength of the PPE.
- Protected storage in the device case or device bag.

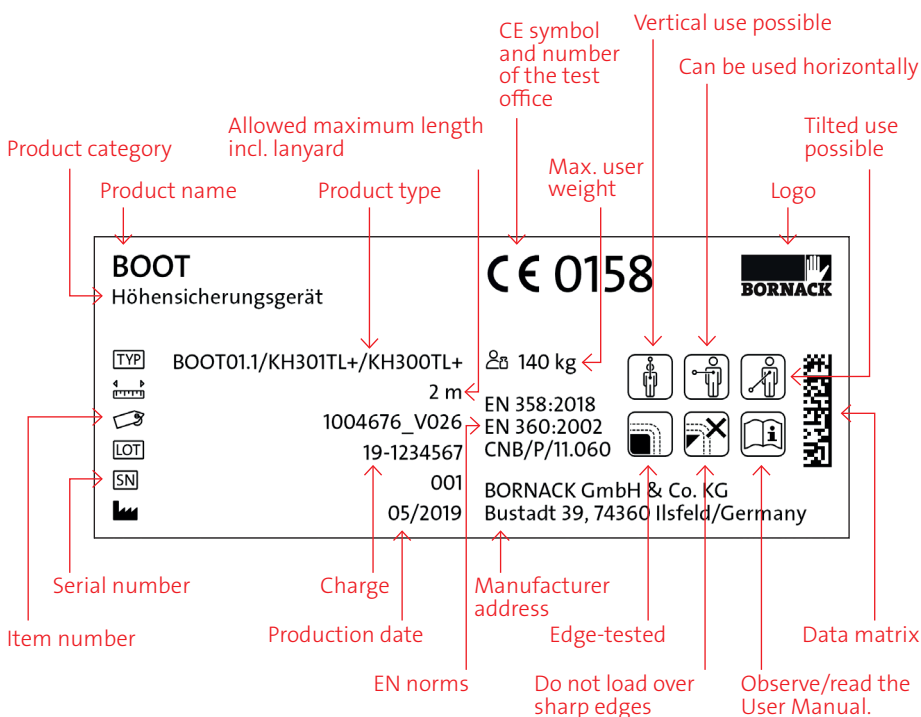
TRANSPORT

- Protected transport in the device case or device bag.

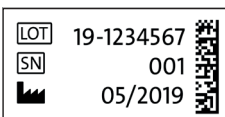
OTHER

PRODUCT IDENTIFICATION

The following identification is on the product:



- Charge →
- Serial number →
- Production date →





TEST CARD

FOR ANNUAL MONITORING

The test list must be completed in full during the annual inspection by the expert briefed by the manufacturer about the 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 product name: _____

Production date: _____

Charge: _____

Serial no.: _____

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				

TEST CARD

FOR ANNUAL MONITORING

Please complete:

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
All components in place?								
Strap undamaged?								
No chemical soiling?								
Seams undamaged?								
No deformation of metal parts?								
Karabiners are in place & fully functional?								
Condition of the springs/ rivets/axles OK?								
No corrosion damage?								
Smooth snapper function?								
Function test: runs/clamps??								
Mech. damage?								
Identification legible?								
User Manual available?								
OK								
Blocked								



FALLSTOP

Safety equipment for securing and rescuing at heights and depths

SAFEPOINT

Planning and assembly of stationary securing systems

BORNACK GmbH & Co. KG

Bustadt 39
74360 Ilsfeld
Germany

Tel + 49 (0) 70 62 / 26 90 0-0
Fax + 49 (0) 70 62 / 26 90 0-550
info@bornack.de
www.bornack.de

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