BORNACK

EN / 2015

FALLSTOP® ADVENTURE

Equipment
for ropes courses

FALLSTOP® ADVENTURE

Full range of equipment
for ropes courses and
climbing facilities.

BORNACK

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STAY ON TOP – Innovative products for more safety and fun

Dear Ladies and Gentlemen,
Dear Customers,

ON TOP – for more than 5 years BORNACK has also been a recognised partner to climbing parks offering innovative safety solutions in its FALLSTOP® ADVENTURE division. BORNACK is a founding member of the IAPA.

Working with you, the park operators, on the design of our products has played a huge role in making BORNACK products even more perfect. And we would like to take this opportunity to thank you for that.

Proven and new technologies in the BORNACK products have resulted in an excellent price-performance ratio; both in terms of price and operation. Climbing parks have become safer.

Intelligent securing systems have now established themselves in the market which, in turn, means better safety for park visitors and also less personal responsibility for the park operator.

Like in the other markets, »Industry« and »Intervention«, BORNACK has made its mark on the standard of safety equipment in the »Adventure« sector. For two years in a row BORNACK won the IAPA best product award; in 2012 for the SAFE LINK SSB® System and in 2013 for the FALCON MINI with its integrated backstop.

Other competitors are closing the gap, but competition is good for business. Factors which keep BORNACK one step ahead are its innovative capability and years of know-how and experience.

STAY ON TOP!

There are more new and innovative products in this catalogue that aim to offer you more safety in your business or on visits to climbing parks.

Trust BORNACK – the products and the team.

Yours,
Klaus Bornack

IAPA QUALITY in adventure

IAPC AWARD 2012 BEST PRODUCT WINNER

IAPA AWARD 2013 BEST PRODUCT WINNER

BORNACK

BORNACK ADVENTURE team

The ADVENTURE team at BORNACK knows what it is talking about. All employees are professionals with many years of experience and expertise in the construction and operation of ropes courses. We also pay close attention to service and consultation – just test us, we will be happy to visit you at your premises!

Our top priority is the safety of your guests and employees. We offer optimum advice based on our know-how, in-depth expertise, practical experience and knowledge of the sector. We work with you to identify the most suitable belay system, agree on the best equipment for the securing situation and recommend personal protection equipment.

To guarantee optimum service and consultation, the ADVENTURE team works with selected partners. Our SERVICE POINT PARTNERS (SPP) are available to you across the world. For the contact data of our SSPs, please visit our website:

www.bornack.de/
service-point-partner-bornack-en

We also advise and support our customers when planning and realising the most suitable belay system.

Alfred Essenwanger
Head of division
FALLSTOP® ADVENTURE

He was one of the first people to professionally build ropes courses and high-ropes courses with his company BERGWOLF. As a former member of the board of the European Ropes Course Association ERCA and member of the national and European DIN committee, which drafted the EN 15567 (standard for ropes course construction and operation), he heads the FALLSTOP® ADVENTURE division at BORNACK in a forward thinking manner using all his fresh expertise from the industry. Alfred likes to work at the forefront of things and trains instructors and rescuers in ropes courses across Europe.

Björn Mocsnek
Technical support / sales south
FALLSTOP® ADVENTURE

Our engineer has a good technical solution for every situation. He provides practical, simple and uncomplicated support. Björn has many years of experience as an employee and manager of one of the largest high-ropes courses in Germany. His strengths become apparent when constructing EVO adventure systems and when developing and further developing our highly technical products. As a member of the IAPA (International Adventure Park Association) training team he provides first rate training for our FALLSTOP® ADVENTURE customers.

Mario Heinze
Field service
FALLSTOP® ADVENTURE

Mario spends a lot of time on the road, which he likes. He advises you at your premises making use of his experience as a manager of high-ropes courses and builder of ropes courses. He will specifically recommend the right products for your system and situation. As a practitioner, he integrates our products into a general concept so that at the end of the day you not only have a high-quality product, but also an overall functional technical system allowing you to operate your business to the optimum. He supports, trains and advises you and also offers after-sales assistance as a partner at your side.

The office team in the back office offers important support. You can call them at any time; they also process the orders.

BORNACK

Belay systems

Self belay system SAFE LINK

IAPC AWARD 2012 BEST PRODUCT WINNER

SAFE LINK – the intelligent and safe solution in traditional ropes courses and adventure parks! Conventional selfbelay in ropes courses and high-ropes courses harbours the risk that the climber can completely detach himself from the lifeline.

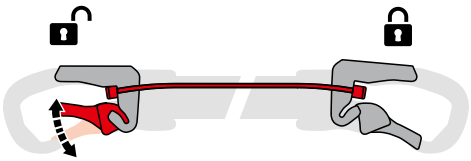
The SAFE LINK reliably ensures that the climber cannot disengage from the lifeline! Only one of the communicating carabiners can be opened at a time.

As the only permanent self belay systems of its kind, the SAFE LINK automatically steers the climbing guest to the right securing point via the so-called TWEEZLES.

In contrast to other new self belay systems, this well thought-through principle ensures that incorrect attachment to wrong anchor points, such as climbing elements, is not possible!

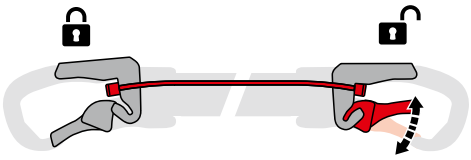
This is beneficial both for the guest and the operator. Also, the TWEEZLE always shows the guest the right way through the climbing course – a further unique benefit of the SAFE LINK SSB®. Even children's hands can operate the SSB easily.

SAFE LINK – uniquely safe, optimum function and completely well thought-through!

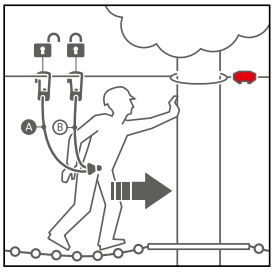


Unlocked – locked
(Basic condition)

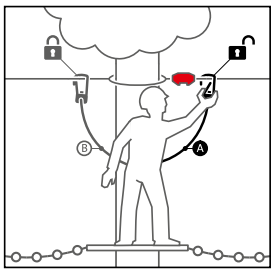
Process: Locking the carabiner by tweezling



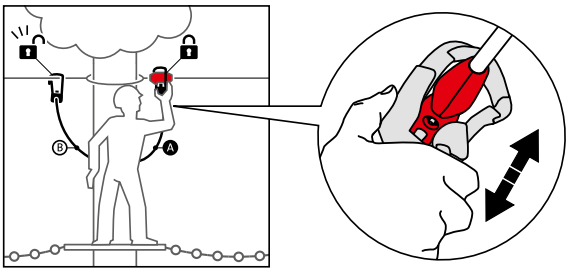
Locked – unlocked
(End condition)



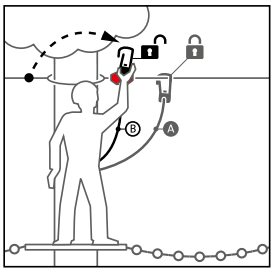
1. Climber reaches the re-anchoring position.



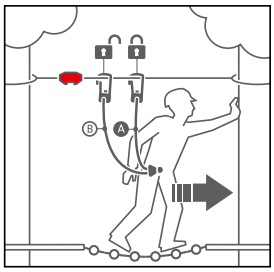
2. Carabiner »A« is first hooked into the next anchor point.



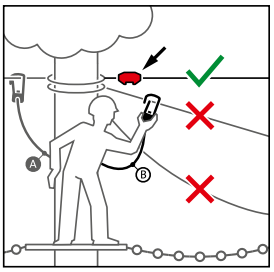
3. Carabiner »A« is engaged and disengaged (»tweezled«) thereby locking it. At the same time, carabiner »B« is automatically unlocked.



4. Carabiner »B« can now be opened and also hooked into the next anchor point.



5. This guarantees safe climbing throughout the course .



6. Unintentional hooking into a wrong anchor point is impossible. The path is clearly defined for the climber.

Self belay device SAFE LINK SSB®

Communicating safety hook

That ensures that the climber is secured at all times

Exchangeable wear protection

Prolongs the life span of the securing hook

Fastener mechanics

Ensure that only one safety hook can only be opened at any time

78 cm cowtail

Cowtails of varying lengths reduce the risk of strangulation

71 cm cowtail

Label pouch with RFID

All relevant product information, RFID chip allowing digital equipment management

X-Blade

Prevents cowtails twisting

Swivel with eyelet

Simple anchor knot on the fall-arrest harness

Self belay device SAFE LINK SSB®

This season has seen the introduction of a second variant, the SAFE LINK SSB LEVEL ONE, in addition to the original SAFE LINK SSB 01. The various levels in the park can be controlled in combination with the associated identification points, TWEEZLE and TWEEZLE LEVEL ONE.

Variants

SAFE LINK SSB 01	Climbing is possible in all courses regardless of whether they are equipped with TWEEZLE or TWEEZLE LEVEL ONE.
SAFE LINK SSB LEVEL ONE	Climbing is only possible in courses equipped with TWEEZLE LEVEL ONE.

Lanyard SSB CONNECTA

The SSB CONNECTA allows the self belay device to be attached simply to the harness. The SSB CONNECTA is made of 20.0 mm thick, highly strong strap material.

Lanyard SSB CONNECTA

Self belay system SAFE LINK SSB®	
EN 354 / CE 0123	Art. No.
SAFE LINK SSB 01	1000487
SAFE LINK SSB LEVEL ONE	1000964

Available in various lengths

Lanyard SSB CONNECTA	
EN 354 / CE 0123	Art. No.
SSB CONNECTA	1000831

Available in various lengths

Identification point TWEEZLE

The TWEEZLE allows the changeover from one anchoring point to the next. It locks the carabiner, and only then it is possible to open the second carabiner. In this way, the TWEEZLE principle is the only belay principle on the market that guides the climbing guest to the correct and safe anchor point.

This season has seen the introduction of the new TWEEZLE LEVEL ONE in addition to the original TWEEZLE. The various levels in the park can be controlled in combination with the associated self belay devices SAFE LINK SSB 01 and SAFE LINK SSB LEVEL ONE – this is ideal for instance for children's courses or more difficult courses.

Variants

TWEEZLE

Different colours allow emergency exits or special elements, such as rope slides, to be marked.

Compatible with self belay device SAFE LINK SSB 01.

Rope thicknesses: for rope diameter 12 mm, or depending on the diameter of the safety rope, a corresponding adapter for rope diameters 9, 10, 11 mm

TWEEZLE LEVEL ONE

Used in addition to the original TWEEZLE, this enables access to the various levels in the park. Different colours allow emergency exits or special elements, such as rope slides, to be marked.

Compatible with self belay device SAFE LINK SSB LEVEL ONE and SAFE LINK SSB 01.

Rope thicknesses: for rope diameter 12 mm, or depending on the diameter of the safety rope, a corresponding adapter for rope diameters 9, 10, 11 mm

TWEEZLE

TWEEZLE LEVEL ONE

Identification point TWEEZLE	Art. No.
TWEEZLE	1000780
TWEEZLE LEVEL ONE	1000944

Available in the colours red, green, yellow, blue and black

Identification point TWEEZLE RESCUE

The TWEEZLE RESCUE is carried by the supervisory personnel and is used for rescues and evacuations. It allows climbers to be released from the belay system at any part of the course in an emergency.

Identification point TWEEZLE RESCUE	Art. No.
	1000782

Rigging identification point TWEEZLE 8

The TWEEZLE with attachment D-ring for elements that bear fall loads such as rope slides, swings, jumps etc.

The TWEEZLE 8 set is also equipped with a carabiner. Thanks to this carabiner, which is connected via the lanyards to the climber, the weight of the body is not transferred to the SSB but remains within the TWEEZLE 8 system. Material: aluminium

TWEEZLE 8

TWEEZLE 8 Set

Rigging Identification point TWEEZLE 8	Art. No.
TWEEZLE 8	1000785
TWEEZLE 8 Set	1000784

Rigging identification point TWEEZLE 9

The lightweight and elegant solution for retractable type fall arrester and other climbing safety devices.

Rigging Identification point TWEEZLE 9	Art. No.
	1000588

Accessories SSB-TOOL SET

There is a high-quality tool set for servicing and replacing components of the SAFE LINK SSB®.

Accessories SSB-TOOL SET	Art. No.
	1000945

Accessories
SSB-MOUNTING BLOCK

The SSB-MOUNTING BLOCK serves to facilitate easy replacement of components on the SAFE LINK SSB®, allowing fast and simple repairs.

NEW

Accessories SSB-MOUNTING BLOCK	Art. No.
	1000946

Rope pulley
SAFE LINK SCOOTER

This rope pulley, which was specially designed for the self-securing system SAFE LINK, now rounds off the product range. The SAFE LINK SCOOTER can be retrofitted to all SAFE LINK SSB® systems and upgrades the system turning it into a securing system with an integrated rope pulley. This does away with the need for a third line in the rope pulley, and securing the guests becomes even easier and more convenient.

Thanks to the plastic casters, the SCOOTER runs extremely smoothly and is gentle on the ropes. Weighing just 1007 grams, the SCOOTER is also light. It will fit on ropes with diameters of between 9–13 mm and can be simply and securely attached to the full body harness using a magnetic attachment or dynamic elements.

NEW

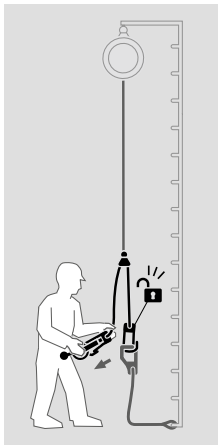
Rope pulley SAFE LINK SCOOTER	
EN 12278 / EN 759 / CE 0123	Art. No.
	1000947

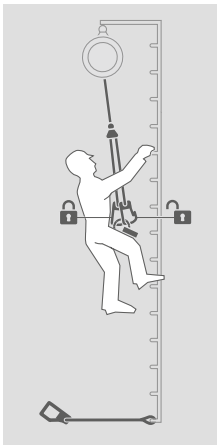
Self belay device SAFE LINK SSB RR

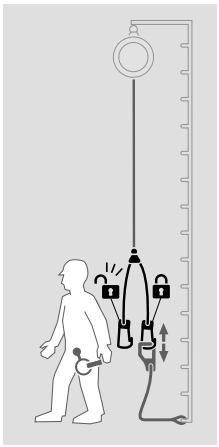
The self-securing device SSB RR was specially designed for use in climbing halls in combination with the decent device series REDROCK. It is hooked into the securing chain of the REDROCK when on the ground, thereby allowing the user to ascend climbing walls without needing to be secured by a second person.

The delivery includes a SAFE LINK SSB RR, a TWEEZLE 9 and a connecting hook RR.

Application
The climber unlocks the closed karabiner of the SSB RR using the TWEEZLE RR that is attached to his full body harness (see page 10) and hooks both karabiners to his harness. The climber is now secured and can ascend the wall without a second person. If the climber is on the ground again and the SSB RR is hooked into the TWEEZLE 9, he can release the REDROCK (see page 37) and the climbing station is free for the next climber.







NEW

Self belay device SAFE LINK SSB RR	
EN 354 / CE 0123	Art.-No.
	1000948

Identification point TWEEZLE RR

The TWEEZLE RR was specially designed for combining the SAFE LINK systems with decent devices of the REDROCK series as a securing system for climbing walls.

The two versions can be attached to almost any full body harness.

NEW

Identification point TWEEZLE RR	
EN 362 / EN 12275	Art. No.
TWEEZLE RR TEXTIL	1000949
TWEEZLE RR METALL	1000950

Continuous belay system EVO ADVENTURE

For more than 20 years BORNACK has been designing, supplying and installing continuous belay systems. Every year about 30,000 to 40,000 metres of pre-tensioned wire cables are installed on seagoing vessels, in high-ropes courses and adventure parks. This wealth of experience is unique in the market!

The technology and equipment in the EVO ADVENTURE series are well designed and of the highest quality. The basic structure of the belay system comprises a pre-tensioned safety rope that is held in position by rope guides placed at regular intervals. The runner element, the EVO ADVENTURE SHUTTLE, is guided on the stainless steel rope and remains on the safety rope through to the end of the course without having to release the safety device. The rope guides direct the safety rope and the EVO ADVENTURE SHUTTLE moves over them smoothly. On request, points can be installed to allow overtaking.

The belay system EVO ADVENTURE is available in two models, both of which have been certified to EN 795.

Made-to-measure solution
The systems are planned and designed individually for every park by our specialist engineers. The safety evolution facilitates supervision in the high-ropes course and means you can sleep soundly at night. High-quality continuous safety you can rely on!

We will be happy to draw up a customised quotation for you. The only information we need is a layout and plan of the course(s).

Project
1. Consultation with a BORNACK account manager
2. Cost estimate and preliminary plan by our designers
3. Order
4. Detailed planning and implementation of the system
5. Production of components
6. Installation by specialists
7. Acceptance of the park by our designers

EVO ADVENTURE

Advantages

- Thanks to the shape of the runner element, left or right handed curves can be realised without a problem allowing more flexibility in terms of the course design and direction
- Tensioning cables and tree bypasses are detached from each other. Individual tensioning cables can be replaced without having to replace the entire tensioning cable (EVO ADVENTURE TREE)
- Belay system is suspended freely for highest loads, such as e.g. storms, without a cable pass
- Belay system guarantees the visitors to the park the highest level of safety in climbing parks
- EVO ADVENTURE helps park operators to meet the requirements of the DIN EN 15567 in terms of supervision and assistance levels
- Children can be allowed to climb without fears for safety

Components

- Tensioning cable: stainless steel or galvanised steel
- Endstop connections: High-quality terminals with swaged sockets
- Rope guides: Traversable rope guides made of stable bend-resistant stainless steel plates in various sizes and radii available
- Entry and exit: Entry and exit devices allow the EVO-SHUTTLE 1 to be engaged / disengaged from the systems easily. A cage at the end catches the runner securely
- T or X-shaped points. Thanks to the EVO-railway junctions, several passages can be merged. It is also possible to overtake at these points
- Runner element EVO-SHUTTLE 1: The current model is made of wear-resistant steel and durable ball bearings. It stands out thanks to smooth-running traversing of curves and the intermediate safety devices
- Arrester absorber to monitor and limit peak loads in the system
- Backstop to prevent the runner element running backwards

Variants

EVO ADVENTURE 01	For artificial systems such as climbing facilities in adventure halls, in which the belay system is only loaded with falls.
EVO ADVENTURE TREE	In this sturdy version the tensioning cables of the individual stations are completely detached from each other and suspended freely. The attachments can move freely. Loads caused by movements during storms are not transferred to the entire system. This means that individual tensioning cables can be replaced if necessary.

EVO ADVENTURE SHUTTLE

Traversing a rope guide with the EVO ADVENTURE SHUTTLE

Continuous belay system EVO ADVENTURE
EN 795
Project planning on request

BORNACK
BORNACK
BORNACK

Personal protection equipment

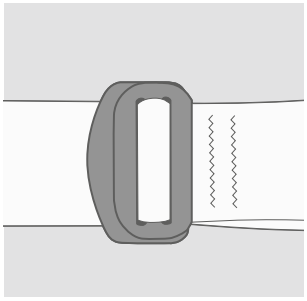
Fall-arrest harnesses

While all equipment systems in adventure parks and high-ropes courses are designed to forestall heavy falling loads, the harness (i.e. the ergonomic link between the human body and the belay system) is especially important: It is there to prevent falls or for riding rope slides or negotiating other elements.

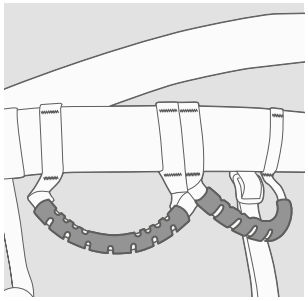
The harness system must meet different kinds of requirement profiles and in doing so also keep the body suspended in an ergonomically acceptable position, even under unfavourable operating conditions (e.g. poor weather, very overweight persons) or mishaps (physical overload, loss of consciousness etc.) so that excessive bending of the back, extreme deviation from the upright position or even inversion are impossible.

Safety and ergonomics are the primary factors that define the quality of a safety harness.

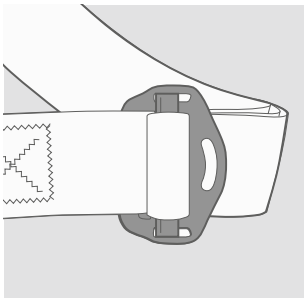
Harness details



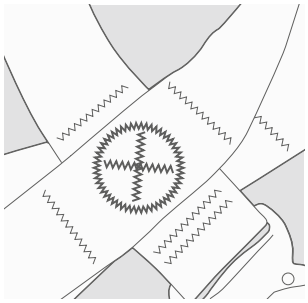
CLICK-buckle



Material loops



EASY GLIDE buckle



Force-flow optimised seams

The issue of ergonomics is not even anchored in the standards and is difficult to quantify. Even today, tests are only carried out with dummies. It is therefore all the more important that the harness developers have years of their own application experience and adopt a systematic and scientific approach and that they have a precise understanding of the user's requirements.

We have more than 20 years of experience in height assembly – we know what we are talking about!

Another important aspect when selecting harnesses is the way it is worn and locked into position with the buckles. Simple CLICK-fasteners with frame parts are uncomplicated and robust. The conscious design of the BORNACK-CLICK-fasteners facilitates a good grip and simple and fast connection. The new CLICK-fasteners are even faster.
It is important that the safety harness can be correctly configured (adjusted) for the wearer and that the user maintains an upright, almost vertical position in the harness.

Of course, we at BORNACK strive to not only ensure a good design, we also focus on material quality and state-of-the-art production techniques.

Full body harness SUBDIVO

The SUBDIVO is a basic, functional full-body harness that is ergonomically designed to ensure that the shoulder straps support the upper body when it hangs freely, guaranteeing comfort even when the muscles completely relax (e. g. due to loss of consciousness).

The different colours of the leg loops, the hip strap and shoulder straps help wearers when putting on the harness. This harness system is available in two versions, both of which can be completely adjusted.

Variants

SUBDIVO L — SUBDIVO L with lower arresting D-ring, ideally suited for small persons and children.

SUBDIVO H — SUBDIVO H with higher arresting D-ring.

Equipped with

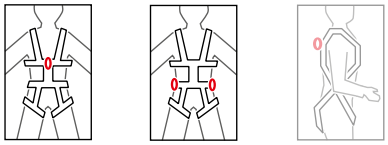
Strap material — 45 mm flat strap webbing, flexible and compact, highly resistant to wear.

Buckles — Easy-to-operate, very flat, self-locking adjustable buckles.

Full body harness SUBDIVO			
EN 12277 / CE 0123			Art.-No.
SUBDIVO H	XS – XXL	grey / red	1000638
SUBDIVO L	XS – XXL	blue / red	1000953
SUBDIVO H-click	XS – XXL		1000951
SUBDIVO L-click	XS – XXL		1000952

Chest/sit harness combination ATTACK WORKER

Fall Arrest Attachment Point



front | on the side | rear side

This harness was purposely designed as a chest/sit combination to achieve maximum functionality, safety and hanging comfort even in extreme conditions. The multilink plate on the front side allows perfect positioning and combination of various auxiliary equipment. Thanks to the central symmetrical adjustment of the hip strap width and expanded thigh width cover, the size M – XL allows 85 % of all human anatomies to be accommodated.

Equipped with

Chest strap and Shoulder straps	• Stepless adjustment, with central CLICK-fastener • Slide-Bloc fast adjustment – quick and safe • Shoulder straps on front side parallel
Multilink plate	• 5-level (depending on the body size, the connection chest and sit harness can be selected by attaching the carabiner into the scaled multilink plate) • Various positioning options
Hip strap	• Central symmetrical adjustment • Always adjusted symmetrically and centrally • Extremely strong support effect thanks to »load splitting«
Restraint loop	• On the back of the hip strap
Side D-rings	• Angled positioning • If these are not required, they can be folded backwards so they do not get in the way.
Material loops	• HT-Material loops with very high tear resistance > 200 kg • Anatomically shaped thigh slings: Optimum force transmission and thigh support
Thigh loops	• Anatomically shaped thigh slings: Optimum force transmission and thigh support
Weight	• 1,468 g

Leg padding

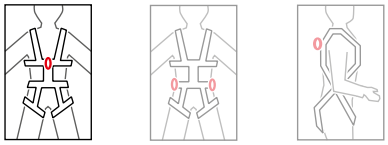
Positioning D-rings

Chest/sit harness combination ATTACK WORKER	
EN 813 / EN 361 / EN 358 / CE 0123	Art.-No.
	1000250

Available in the sizes S – M and M – XL

Chest/sit harness combination ACTION LIGHT

Fall Arrest Attachment Point



front on the side rear side

The ACTION LIGHT chest/sit harness combination ensures an optimised suspended position thanks to its adjustable attachment points. It can be specifically set to accommodate various situations. The innovative design of the thigh straps ensures a high level of comfort for long periods.
It is made of sturdy and wear-resistant material. The loops are extremely tear-resistant and therefore offer optimum attachment of your material.

Equipment

Chest strap and Shoulder straps	• Steplessly adjustable, with central fast-click fastener • EASY GLIDE fast adjustment – quick and safe • Shoulder straps parallel on the front
Adjustable attachment points	• Stepless regulation (the chest and seating belt connection can be set to match body size)
Hip strap	• Central-symmetric adjustment • Should always be adjusted symmetrically and centrally • Extremely strong support effect thanks to »load splitting«
Material loops	• Very high tear resistance
Thigh loops	• Anatomically shaped thigh loops: optimum force transfer and thigh pads
Colour	• Black/lemon
Weight	• 1,098 g

NEW

Chest/sit harness combination ACTION LIGHT	
EN 361 / EN 813 / EN 12277A	Art.-No.
	1000954

Available in the sizes XS – S, S – M and M – XL

Rope pulleys

Ziplines and rope slides are now well established in the culture of high-rope parks. There are almost no climbing parks that do not have a rope slide; indeed, Flyingfox courses in unusual settings are growing in popularity. Users can enjoy rides lasting hundreds of meters and several minutes over rooftops or unspoiled countryside.

BORNACK has continued to work on improving the rope pulley range and adapting it to new requirements. Excellent running properties, speed and quality are the standards to which we work. Equipped with high-quality casters, a backstop and harness attachment options, BORNACK can provide the right pulley whatever the situation.

In combination with the REDROCK ZIPSTOP we have a wide range of products for your rope slides or Flyingfox courses.

The TRACK ATTACK is safely stowed away in the holster.

The safety hook is attached to the nose of the TRACK ATTACK so it is not put under any pressure during the ride.

Product information about the new rope pulley SAFE LINK SCOOTER on page 14.

Twin pulley TRACK ATTACK

The twin pulley TRACK ATTACK is a climber's ideal companion on ziplines in ropes courses.

Its ergonomic design allows simple and safe handling. Very smooth running regardless of the rope type or diameter.

It will not turn over even when no load is exerted. When deflected 180°, the twin pulley swings back into its stable original position; this avoids untoward transverse loads and rope wear.

The pulley is secured via an automatic locking mechanism. Also, it has a redundancy hook for attachment of the free cowtail connector. The pulleys themselves have ball bearings and are sealed to prevent dirt getting in.

Ergonomically neutral grip design (equally easy to use with either the right or the left hand). The grip D-ring is designed in such a way that the cowtails can be positioned either by direct stitching or by being looped into place.

The quality control inspection of the double rope pulley includes, among other things, a load cycle test with 150,000 cycles.

Holster TRACK ATTACK

Double pulley TRACK ATTACK	
EN 12278 / EN 795 / CE 0123	Art. No.
Rope pulley TRACK ATTACK	1000430
Holster TRACK ATTACK	1000787
Set TRACK ATTACK	1000926

Twin pulley FALCON MINI

NEW

The intelligent pulley for operating zipline courses and canopee walks for ropes with a diameter of up to 17 mm.

The FALCON MINI pulley closes one of the last remaining safety gaps for zipline excursions. Thanks to its integrated backstop, participants will not roll back at the end of the zipline. In particular, children that cannot reach the end platform or the hand holes provided will remain in position reliably. This not only improves safety but also the capacity of ziplines.

The FALCON MINI has several attachment possibilities. It can be connected permanent to the climbing harness with the long D-ring or can be locked via a carabiner through the double D-ring. It also has a horn for attachment of a redundant carabiner over the rope.

IAPA AWARD 2013 BEST PRODUCT WINNER

Double pulley FALCON MINI	
EN 12278	Art.-No.
	1000955

Multifunction device LORY MULTI

The LORY is a compact and sturdy multifunctional safety, positioning and abseiling device. The locking and control mechanism is equipped with an over-control safeguard (panic backup feature) to prevent excessive abseiling speed when descending/abseiling (double-stop function). An ideal safety and rescue device for high-rope parks and courses.

Model
- Basic element: Aluminium, die-forged, anodised
- Brake cam: Steel

Equipment
- Multifunction device LORY MULTI
- Carabiner D-SUPERSTRONG TL+
- Strap fall attenuator BFD 01

Accessories
- Kernmantle rope TEC-STATIC 11 mm as metre goods

Multifunction device LORY MULTI	
EN 358 / EN 353-2 / EN 341:2011-2A	
EN 12841-C / CE 0123	Art.-No.
	1000956

Guide pulley ROLLNLOCK

Function
- Pulley with backstop for rope pulleys in compliance with EN 892/EN 1891 diameter 8–13 mm
- Can be used on strap material ranging from 10–16 mm
- Small, compact and highly versatile guide pulley with backstop

Guide pulley ROLLNLOCK	
EN 12278 / EN 567 / CE 0333	Art.-No.
	1000829

Descent / positioning device SPARROW 200

Multifunctional descent and positioning device for multifunctional use during rope work, intervention and rescue. Ideal descent device for situations where a large number of people have to descend, e.g. a rescue from a cable car. The unusually high descent load on the separate rope in compliance with EN 341:2011 means that two persons can descend at the same time from heights of up to max. 180 m.

The SPARROW 200 has a permanently integrated additional rope pulley cam that can also be activated to control the speed even more precisely, especially for high loads. The SPARROW 200 also has a number of options as a backstop, e.g. when climbing a rope, setting up tensioned rope systems and lots more.

Technical data

- Max. work load: 200 kg (EN 341:2011-2A) or 210 kg (EN 12841:2006-C)
- Max. descent height: 180 m

NEW

SPARROW 200 open

Descent / positioning device SPARROW 200	
EN 341:2011-2A / EN 12841:2006-C	Art.-No.
	1000972

Descent / rescue device SOLID HUB

The SOLID HUB is ideal for rescuing several persons quickly. The very high maximum load of 225 kg allows 2 persons to descend simultaneously. The descent and rescue device SOLID HUB can be used for shuttle operations or in rescue tandems. The descent process can be regulated with the eye-bolts and stopped at any time via the jam cleat. It is possible to lift up to 225 kg (2 persons) with a hand wheel.

The hand wheel can also be operated with a cordless screwdriver which facilitates the lifting process.

The brakes, gears and cable sheave are located in different sections of the casing. This ensures the best possible thermal separation of the brake and cable sheave. Also, no dirt from the rope can enter the device, and braking dust cannot soil the rope or get into the gears. In the case of varying descent heights, the SOLID HUB can be used in combination with a rope shortening device.

Technical data

- Weight: 3.5 kg
- Max. descending speed 0.8 m/s
- Rope: ⌀ 9 mm statics KM
- Max. descent height: 300 m
- Max. lifting height: 300 m
- Max. rated usage weight: 225 kg

NEW

Back of SOLID HUB

Descent / rescue device SOLID HUB 01	
EN 341:2011-1A / EN 1496:2007-B	Art.-No.
	1000957

Helmets

Each guest and member of staff at a climbing park wears a helmet as protection against branches, falling objects or collisions at the climbing stations. Lots of different requirements need to be observed here.

In addition to ergonomics and fit, cleaning the helmets in the climbing park is also an important factor. BORNACK has summarised all requirements and developed a helmet that stands out in terms of fit, equipment and also design. The fluorescent lemon colour of the helmet shell is always visible in the rope park allowing the park operator to locate the guests easily.

Helmet HELIUM

Highly comfortable thanks to light weight, simple adjustment and replaceable padding. The helmet offers reliable protection against objects falling from above and collisions of the head during a fall. The high impact-absorption properties of the inner shell can withstand several vertical impact loads and impact loads to the front, back or side of the head. Perfect for ropes courses!

Equipped with

- Lightweight, sturdy helmet shell made of UV-resistant polyalomer
- Stepless size adjustment via a rotary system from 53 to 62 cm head size
- Inner shell of highly shock absorbing material
- Temperature-stable from -35 °C to +35 °C
- 3-point safety strap system, also suitable for people who wear glasses
- Padded chin strap
- Adjustable strap position
- Attachment option for front lamp (e.g. for night climbing)
- Removable washable comfort padding
- Large ventilation channels and openings
- Weight: 350 g
- Colour: lemon

Helmet HELIUM	
EN 358 / CE 0123	Art. No.
	1000781

Strap slings and cowtails CONNECTA

The strap slings and cowtails of the CONNECTA series are made of high-strength, extra-rugged and flexible 26-mm polyamide. The end loops in each case form an 'X' so that when the anchor knots are looped into place the strap material settles into position flat and without rotation.

The CONNECTA series offers a variety of variation options in terms of equipment, combination and configuration. All variants can be individually combined according to customer wishes with different kinds of carabiners and pulleys.

Special lengths and configurations are of course possible at any time (please note minimum purchase quantities in each case).

Strap slings and cowtails are available in the colours black/grey, black/blue, black/red and black/black.

Strap sling

Single-Cowtail

Y-Cowtail

Models

Strap slings CONNECTA
Highly strong strap slings available in the lengths 50 cm, 60 cm, 70 cm, 80 cm, 90 cm, 100 cm, 110 cm, 120 cm, 130 cm, 140 cm.

Single-Cowtail CONNECTA
Single-cord cowtails. Can be looped on both sides. When attaching the loops, expect a shortening of the normal stretched length by approx. 4 cm in each case.

Y-Cowtail CONNECTA
Cowtails with short and long Y-shaped shanks for loops on both sides. When attaching the loops, expect a shortening of the normal stretched length by approx. 4 cm in each case. The Y-cowtail is available in the following variants: 85/95 cm, 100/110 cm, 115/125 cm, 130/140 cm.

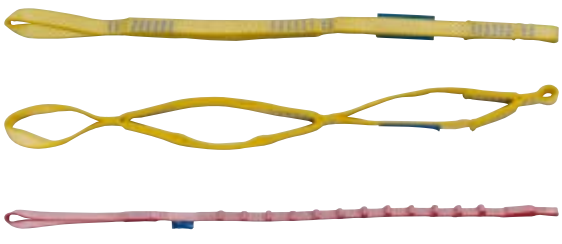
Strap slings and cowtails CONNECTA	
EN 795-B / EN 354 / CE 0123	Art.-No.
Strap slings CONNECTA	1000958
Single-Cowtail CONNECTA	1000959
Y-Cowtail CONNECTA	1000960

Self belay / rescue slings BERGWACHT

Slings made of highly strong Dyneema with 30 kN breaking load.

Models

- 2-level, yellow, 57 cm
- Multi-level, red, 103 cm



Self belay / rescue slings BERGWACHT	
EN 795 / EN 354 / CE 0123	Art.-No.
Yellow	1000847
Red	1000848

Kernmantle rope DYNAFLEX

An all-round rope with unusually good handling properties and very high safety backup. The mantle and core of the dynamic rope are made of high-quality, UV-stabilised brand polyamide with very high energy absorption and restraint capacities.

The core of the rope comprises an absolutely torsion-neutral, highly twisted core twine material, with an above-average dynamic energy absorption capacity. To further improve the dynamic performance, the core multi-filaments are coated with molecular layer of Teflon (nano-technology).

Only highly-twisted twine material and the braiding type 1/1 with a high coil number are used for the mantle braiding that is matched to the respective rope diameter. DYNAFLEX is the first simple rope that, with a pure multifilament technology in the kernmantle design, can withstand a fall over a sharp edge.

Kernmantle rope DYNAFLEX			
EN 892 / CE 0123			Art.-No.
KS DYNAFLEX	11 mm	red	1000298
KS DYNAFLEX	11 mm	blue	1000961

Ropes sold by the meter

Kernmantle rope TEC-STATIC

The mantle and core of the static rope are made of high-quality, low-expansion UV-stabilised brand polyamide with very little wet shrinkage. The rope core comprises absolutely torsion-neutral, extremely low-expansion core elements. The structure and design have been matched so that, despite slight elongation and very high tear force values, the ropes have a dynamic energy absorption capacity that is well above average. To further improve performance, the core multifilaments are coated with a molecular layer of Teflon (nano-technology).

The rope mantle is highly compact, extremely durable and wear-resistant. Only highly-twisted twine material and the braiding type 1/1 with a high coil number are used for the mantle braiding that is matched to the respective rope diameter.

Variants

10 mm — 10 mm BORNACK TEC-STATIC
– there where weight and packing volume matters
- The standard static rope of the Bavarian Mountain Rescue Service
- For the mountain and canyoning rescue service

11 mm — 11 mm BORNACK TEC-STATIC
– the all-round rope for rescue and intervention:
- Suitable for all types of rope work
- As a load rope, inclined rope and for constructing horizontal transport systems
- For active and passive abseiling, even under heavy loads
- For restraining and positioning
- As a fixed rope and for constructing pulleys

Kernmantle rope TEC-STATIC			
EN 892 / CE 0123			Art.-No.
KS TEC-STATIC	10 mm	yellow	1000607
KS TEC-STATIC	11 mm		1000249

Ropes sold by the meter. TEC-STATIC 11 mm available in the colours red, black and white

Carabiners and safety hooks

Carabiners are essential for securing and anchoring in all safety-relevant applications. Like for all other equipment components, possible sources of risk should also be identified here. Although compared to textile personal protection components (ropes, slings, harnesses) metals are usually much stronger and, in particular, are less prone to aging as a result of mechanical wear, metallic equipment parts are also subject to application limits.

Be it steel or aluminium – both materials have advantages and disadvantages.

Steel carabiner
- High quality steel carabiners made of hardened steel have an extremely high breaking strength of up to 50 kN
- Due to the material properties, steel carabiners are extremely stable even when unfavourable loads are exerted, e. g. when lying on an edge, transverse loads or when the catch is pressed open
- A disadvantage is the relatively high weight

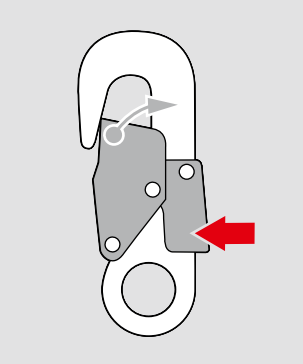
Aluminium carabiner
- When closed, high quality aluminium carabiners have a breaking strength of between 22 and 30 kN
- Much lighter
- Much less stable than steel carabiners when unfavourable loads are exerted

Fastener locks should prevent unintentional opening of the catch.

Double catch fastener
- Maximum security against unintentional opening
- May be difficult to operate in some circumstances when wearing gloves

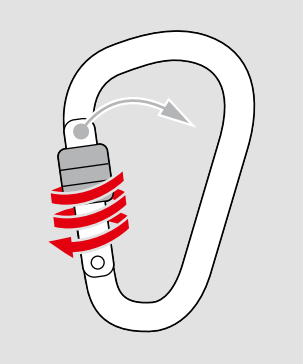
Screw fastener
- Simple operation
- Critical factors are unintentional unscrewing when rope moves or as a result of vibration
- Screw closing may be forgotten despite visual indication when in a hurry
- The fastener sleeve is screw closed when the catch is open

Twistlock-Plus fastener
- Maximum security against unintentional opening thanks to triple lock
- Operation takes some getting used to



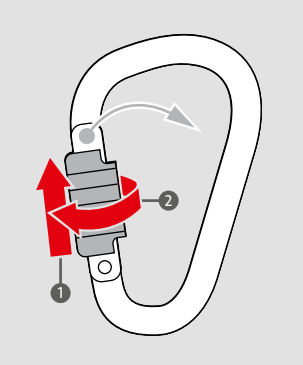
Double catch fastener

- Press
- Open



Screw fastener

- Screw
- Open



Twistlock-Plus fastener

- Slide
- Twist
- Open

Carabiner series ATTACK

The perfect carabiner for cowtail locks. One special area of focus for the carabiners of the ATTACK series is the quality of the hook springs. This means that the ATTACK carabiners are highly durable and excellently suited for use in ropes courses. All carabiner types have a captive eye to prevent unwanted twisting. Dimensioning and design allow easy looping of the cowtails and strap slings of the CONNECTA series.

Variants

ATTACK	Double catch carabiners in asymmetric form made of aluminium. Lightweight and easy to use.
ATTACK LIGHT PRO	Double catch carabiners in asymmetric form made of aluminium with permanently integrated stainless steel insert to prevent wear on the steel cable. Lightweight and easy to use.
ATTACK DG	Double catch carabiners in asymmetric form made of hardened steel. Highly sturdy and easy to use.

ATTACK

ATTACK LIGHT PRO

ATTACK DG

Carabiner ATTACK	
EN 362 / CE 0639	Art.-No.
Carabiner ATTACK	1000843
Carabiner ATTACK LIGHT PRO	1000124
Carabiner ATTACK DG	1000842

Carabiners RESQ-SUPERSTRONG

Compact, very easy to operate snap hook.

Variants

RESQ-D-SUPERSTRONG screw fastener	D-shaped carabiner made of stainless steel
RESQ-D-SUPERSTRONG Twistlock-Plus-fastener	D-shaped carabiner made of stainless steel with triple lock
RESQ-HMS-SUPERSTRONG	HMS carabiner made of stainless steel, with screw or Twistlock-Plus fastener
RESQ-HMS-LIGHT	Made of aluminium with Twistlock-Plus fastener

RESQ-D-SUPERSTRONG screw fastener

RESQ-D-SUPERSTRONG TL+ fastener

RESQ-HMS-SUPERSTRONG screw fastener / TL+ fastener

RESQ-HMS-LIGHT

Carabiner RESQ-D-SUPERSTRONG	
EN 362 / CE 0639	Art.-No.
RESQ-D-SUPERSTRONG	1000254
RESQ-HMS-SUPERSTRONG	1000642
RESQ-HMS-LIGHT	1000291

The SUPERSTRONG Models are avilable with screw fastener or Twistlock-Plus fastener.

FALLSTOP®
adventure
BASE JUMP

Retractable type fall arresters and descent systems

Descent devices

Free descent on the rope back to the ground is one of the most popular stations in climbing parks. The visitors are secured with a descent device that controls the descent speed of the climber via a self-regulating braking system.

The loads exerted on the abseiling brake very quickly add up to a very high number of abseiling metres which can quickly exceed the standard limit values even in the highest class. Especially high standards must therefore be set for the safety backup and the resistance to wear and tear of the unit.

Free fall device REDROCK QUICK JUMP

The feeling of free falling but with a safe and gentle landing. This descent / free fall device was specially designed for all kinds of climbing halls / walls or rope parks. Taking the technology of the entire REDROCK series one step further, this device promises a real sense of free falling. Up to 90 persons can descend every hour. Thanks to the reliable, touch-free magnetic braking technology, there is little wear. The QUICK JUMP only requires regular self-inspection and an inexpensive annual inspection by BORNACK. Simple assembly means the device can be used very quickly.

Technical data

- Max. descent speed: 2.4 m/s
- Max. installation height: 12.5 or 20.0 m
- Rated application weight: min. 20 kg max. 130 kg
- Material: Casing in cast aluminium, line: Nylon-Spectral Webbing
- Dimensions: 380 mm x 320 mm x 216 mm
- Weight: 19.3 kg

Standards

ASTM F2291-11	Standard practice for design of amusement rides and devices
ASTM 846-92	Standard guide for testing performance of amusement rides and devices

NEW

Free fall device REDROCK QUICK JUMP	
ASTM F2291-11 / ASTM 846-92	Art.-No.
QUICK JUMP	1000963

Available for installation heights of 12.5 m or 20 m

Descent device REDROCK AUTO BELAY

Descent device with innovative braking system.

The descent device REDROCK AUTO BELAY was specially developed for climbing centers and the ropes course industry. This clever technology meets the highest international safety standards. The touch-free magnetic brake works without brake pads thereby eliminating one of the main causes of failure in previous equipment.

Properties

- Gentle, constant and weight-dependent descent speed
- No wear parts in the braking system due to the touch-free magnetic brake
- Low maintenance and service costs
- Meets the highest international safety standards: European standard EN 341 »Personal fall protection equipment « / American National Standard ANSI/ASSE Z359.4-2007 »Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components« / Canadian Standard, CSA Z259.2.3-99 »Descent Control Devices« / Australian and New Zealand Standard, AS/NZS 1891.3 1997 »Industrial fall-arrest systems and devices – part 3: Fall arrest devices«

Technical information

- Max. descent speed: 1.8 m/s
- Max. installation height: 12.5 or 20.0 m
- Nominal usage weight: 10 to 150 kg
- Material: Casing: cast aluminium and acetal inlet slit for strap, Strap: Nylon/Spectra Webbing, width 20.32 mm, thickness 2.5 mm, Breaking load new 15.6 kN
- Dimensions: 380 mm x 320 mm x 216 mm
- Weight of device 19.3 kg

Descent device REDROCK AUTO BELAY	
EN 341 / ANSI / ASSE Z359.4-2007	
CSA Z259.2.3-99 / AS / NZS 1891.3 1997	Art.-No.
AUTO BELAY	1000965

Available for installation heights of 12.5 m or 20 m

Brake system for rope slides REDROCK ZIPSTOP

Self-regulating magnetic braking system with innovative braking system.

The REDROCK ZIPSTOP was specially designed for ziplines. It reduces the speed on rope slides securely and automatically via a touch-free magnetic brake. It automatically adapts the braking resistance to the weight of the person on the rope slide and brakes the person precisely even at high speed.

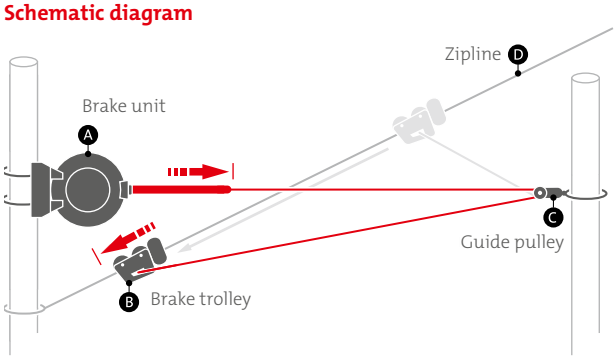
Properties

- Gentle control of the speed
- Exact stop at the end of the zipline
- Regardless of the speed and weight of the person on the zipline
- Extreme flexibility in zipline design and construction
- Low maintenance and service costs
- Minimises risks thanks to self-regulating braking system
- Pace-setter automatically returns to starting position after every use
- Independent of environmental influences allowing rope slide to be operated in all kinds of weather

Technical information

- Max. line expansion: 12.5 m
- Top speeds: 1:1 reduction ratio: 36 km/h; 2:1 Reduction ratio: 60 km/h; Customer-specific ratio: 60+ km/h (higher speeds can be used in customer-specific reduction ratios, the braking distances however are longer. When planning a customer-specific ratio it should be noted that the automatic line return could be hindered which would make automatic line return or an additional return system necessary)
- Material: Casing aluminium alloy, inner parts galvanised steel / opening piece modified acetal-plastic / Strap: Brake line made of 20 mm Spectra Nylon
- Participant weight 15 to 150 kg
- Dimensions: 80 x 350 x 140 mm
- Device weight: 23.5 kg

Schematic diagram



Brake trolley

Brake system for rope slides REDROCK ZIPSTOP	Art.-No.
	1000844

Descent device BASE JUMP

Descent device with high-performance rope brake for free descent and defined descent speed of approx. 2.0 m/s (depends on body weight). Rappelling possible for high frequency, especially for large groups of visitors. The BASE JUMP allows a descent height of 150 m. The descent device BASE JUMP meets the highest standards of the high-ropes course industry.

If necessary, ropes can be exchanged by instructed personnel themselves. As there is no intervention in the device's function, there is no warranty infringement – a further benefit for operation of a high-ropes course.

- High-performance brake for long service life
- Redundant brake system with two brake shoes
- Drive mechanism w/o transmission gears: reduces wear and highly critical sources of failure
- High-strength special kernmantle rope with 12.0 mm diameter (9.0 –10.0 mm are customary) with a break strength of more than 22.0 kN (12.0 / 15.0 kN are customary)
- Highly strong stitched end termination
- Extremely long service life (no hidden wire breakage etc. – as with steel cables)
- Rope exchanges can be carried out independently by trained persons without intervention in the device's function – thus no warranty infringement
- User weight: Min. 30 kg, max. 130 kg
- Abseiling height: Max. 150 m (rope length)

Rope 12 mm yard goods at customer request.

Kernmantle rope BJ 01 Rope and BJ 02 Rope

Weather protection hood BJ 01 Cape

Descent device BASE JUMP	
EN 341 / EN 1891-A / CE 0123	Art.-No.
Descent device BASE JUMP BJ 02	1000845
Kernmantle rope BJ 01 Rope	1000246
Kernmantle rope BJ 02 Rope	1000846
Weather protection hood BJ 01 Cape	1000833

Retractable type fall arresters

Retractable type fall arresters allow a great amount of freedom of movement and are therefore used as lanyards if movements need to be secured with as little restriction as possible. They may not be used on bulk goods or other materials into which one can sink!

Similar to a car seat belt, the lanyard can be pulled from its casing and blocks when jerked. A spring keeps the lanyard pretensioned. During retraction, the retractable type fall arresters recoils the lanyard automatically thereby preventing any slack in the rope. In case of a fall, the device blocks and catches the user. An integrated fall-arrest system with a slide clutch limits the impact force to less than 6.0 kN.

Retractable type fall arrester ALF

This retractable type fall arrester blocks as soon as a sudden downward movement occurs, regardless of the running direction (excessive dropping, fall, loss of balance). The ALF serves to secure persons on ladders or other more permanent structures. It is designed for use in high-ropes courses, as work protection or for sport climbing. It may only be used with semi-static ropes approved by the manufacturer. The structure should comprise an all-round system with two knots. As soon as the first user has reached the upper end of the ladder, the second user attaches the rope to the lower end on the harness and starts climbing. This allows high throughput of guests. The system may only be used by one person at a time climbing upwards or descending. Easy to inspect and service, low wear.

Retractable type fall arrester ALF	
EN 360 / CE 0321	Art.-No.
	1000688

Retractable type fall arresters BLOCKSTOP

Retractable type fall arresters offer an ideal combination of maximum user comfort and maximum safety for guests in ropes courses, whilst at the same time allowing users full freedom of movement. The integrated spiral spring keeps the lanyard made of wire cable pretensioned. The user can climb freely without having to tighten his belay cable manually when climbing or descending. If the user falls, the withdrawn rope activates a centrifugally controlled blocking device and catches the user securely.

BORNACK recommends connecting the Retractable type fall arresters with the harness via a »shortcut«-solution. This involves also attaching the retractable type fall arrester into the fall-arrest harness directly in addition to the belay device.

This solution guarantees optimum retraction of the wire cable during climbing.

Models

HSG BS 15adv-P • Length 15.0 m

HSG BS 10adv-P • Length 10.0 m

Connection variants

strong SSB • TWEEZLE 9

strong • Indicator hook

shortcut SSB • ATTACK DG
• TWEEZLE 9

shortcut • ATTACK DG
• Triangular screw connection

strong SSB

strong

shortcut SSB

shortcut

Retractable type fall arresters BLOCKSTOP	
EN 360 / CE 0158	Art.-No.
HSG BS 10adv-P strong SSB	1000675
HSG BS 10adv-P strong	1000893
HSG BS 10adv-P shortcut SSB	1000896_M010
HSG BS 10adv-P shortcut	1000984
HSG BS 15adv-P shortcut SSB	1000896_M015
HSG BS 15adv-P shortcut	1000895

Training

Professional training

Qualified training of users is particularly important to us. Our TRAINING department was established back in 1996 and we are the oldest and largest training organisation for safe working at heights and depths in Europe.

Our training and development centre HOCHWERK® – a former steam power station with a special flair – offers a wide variety of training possibilities at many levels. As the largest indoor training centre in the world, we offer courses all year round independent of the weather.

Our training courses are oriented on our customers' needs. The courses available are specially designed for park operators and employees. In a mix of theory and practical elements, the contents of the courses are taught in a clear and understandable fashion.

Prerequisites for participation are manual dexterity, practical experience with personal protection equipment and other devices, and a minimum age of 18. The courses end with a test and a certificate is issued.

Special courses

General rescuer for team-oriented ropes courses

Introduction games outdoors; adventure-based interaction tasks; methods and didactics of ropes course events and individual tasks; safety-relevant factors in ropes courses (low elements, high elements); safety techniques in ropes courses; self belay; top rope securing

General rescuer for team-oriented ropes courses	Art. No.
5 days	1000966

General rescuer for high-ropes courses and adventure parks

Introduction games outdoors; Safety techniques in adventure parks/high-ropes courses; materials and knot techniques; legal and insurance issues; theory relating to »fear«; rescue techniques in adventure parks / high-ropes courses (passive rescue, active rescue)

General rescuer for high-ropes courses, adventure parks	Art. No.
4.5 days	1000967

Competent inspector courses

PPE adventure

Personal protection equipment. Intended use; anchoring points; structure and function of hardware; structure and function of textile components; inspection and storage; typical damage. The course ends with a test. The certificate is valid for 2 years. During this time, the holder is authorised to order selected spare parts.

PPE adventure	Art. No.
1 day	1000968

Equipment handler SAFE LINK SSB® Level 1

Introduction to the system; care, control and assessment; recognition and rectification of simple faults; selection, placement and assembly of the TWEEZLE.

Equipment handler SAFE LINK SSB® Level 1	Art. No.
1 day	1000969

Simple equipment inspection – HSG adventure

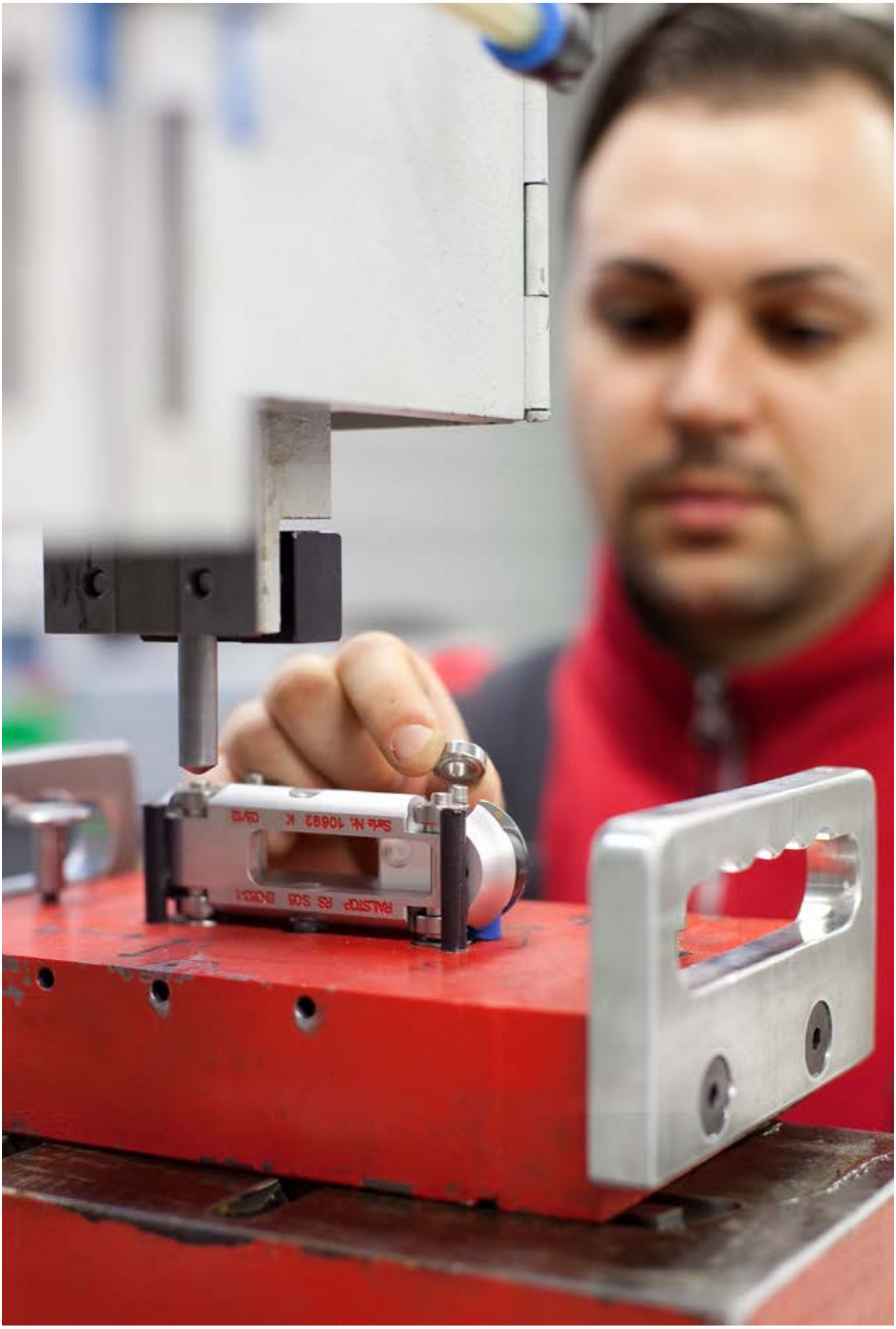
Retractable type fall arresters. Intended use; structure and function of HSG and ALF; testing before use; regular inspection; documentation. The course ends with a test. The certificate is valid for 2 years. During this time, the holder is authorised to order selected spare parts.

Equipment inspection HSG	Art. No.
1 day	1000971

Equipment handler SAFE LINK SSB® Level 2

SSB care, SSB control; SSB help and advice; dismantling and assembly; replacement of components; annual inspection. The course ends with a test; setting work. The certificate is valid for 2 years. During this time, the holder is authorised to order selected spare parts.

Equipment handler SAFE LINK SSB® Level 2	Art. No.
1.5 days	1000970



Inspection – Competent and reliable

Life and health hang on the proverbial silken thread when working at heights.

Personal protection equipment against falls, belay systems and rescue systems are exposed to various influences that could impact on the strength, load-bearing capacity and service life of the equipment.

Amongst other aspects, aging of components with plastic parts, and wear and damage are the most frequent causes for higher risks to the users. As a result, personal protection equipment must be regularly inspected.

According to the personal protection equipment ordinance, the company owner has a duty to maintain the serviceability of the personal protection equipment and must ensure that it is inspected regularly, at least once a year.

BORNACK has inspected and serviced protection equipment and anchoring equipment for more than 50 years. Our specialist competence and experience as a service provider guarantee reliability. To meet these high standards, BORNACK has an inspection department for inspection in our testing laboratories and for on-site inspections at our customers' premises.

Please contact us for more information at:

revision@bornack.de

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