

INNOTECH®

SHARK



DE – ACHTUNG: Die Verwendung des Innotech-Produktes ist erst zulässig nachdem die Gebrauchsanleitung in der jeweiligen Landessprache gelesen wurde.

EN – ATTENTION: Use of the Innotech product is only permitted after the instruction manual has been read in the respective national language.

FR – ATTENTION : L'utilisation du produit Innotech n'est autorisée qu'après la lecture du mode d'emploi correspondant dans la langue du pays.

IT – ATTENZIONE: L'utilizzo del prodotto Innotech è permesso solo previa lettura del manuale di istruzioni nella lingua del paese corrispondente.

NL – ATTENTIE: Het gebruik van dit Innotech product is pas toegestaan, nadat de gebruikshandleiding in de taal van het betreffende land gelezen werd.

ES – ATENCIÓN: El uso del producto Innotech sólo está permitido después de que se hayan leído las instrucciones de uso en el idioma del respectivo país.

PL – UWAGA: Korzystanie z produktu Innotech jest jedynie dozwolone po przeczytaniu podręcznika w języku narodowym.

CZ – POZOR: Práce s výrobkem Innotech je povolena až po prostudování návodu k použití v příslušném jazyce daného státu.

PT – ATENÇÃO: O uso do produto Innotech apenas é permitido depois de ter lido as instruções de uso na respectiva língua nacional.

SE – O B S : Denna Innotech-produkt får inte användas, förrän bruksanvisningen på respektive lands språk har lästs igenom.

DK – BEMÆRK: Produktet fra Innotech må først anvendes efter at brugsanvisningen på det pågældende lands sprog er læst igennem.

DE

EN

FR

IT

NL

ES

PL

CZ

PT

SE

DK

Prior to use, the following safety instructions and the current state of the art must be taken into consideration.

- Keep this operating manual with the product and carefully fill out the test sheet (page 11).
- Completely read the instruction manual.
- Understand and accept the possibilities and restrictions of the protective equipment as well as the risks associated with its use.
- This protective equipment should only be used by persons who are familiar with this operating manual, who are physically and mentally healthy, and who have been trained in the use of fall-protection systems.
- Medical conditions (cardiovascular problems, intake of medicines, alcohol, etc.) can affect the safety of the user.
- Measures (emergency plan) must be specified for fast rescue prior to using the fall prevention system. Attention: after a fall a longer period of suspension can cause severe injuries or even death (suspension trauma).
- Adhere to the respective accident prevention regulations (e.g. working in areas where there is a danger of falling) when using this protective equipment.
- For horizontal use, only those fasteners may be used that are suited for this purpose and have been tested for the respective edges (sharp edges: sheet with trapezoidal corrugations, steel girder, concrete, etc.).
Attention: avoid pendulum fall!
- Make absolutely sure that the anchorage equipment cannot be endangered by sharp edges.
- The combination of specific tested and approved components is only permitted as specified in this instruction manual. Incorrect applications can impair safe function – this can result in severe or fatal injuries.
- The protective equipment has been developed for personal safety and may not be used for other purposes.
- Every person active in the areas where there is danger of falling is responsible for ensuring that the connection to the anchorage system is kept as short as possible to prevent the possibility of a fall.
- If the equipment is sold in other countries, the instructions for installation and use must be provided in the respective national language!

**If uncertainties concerning safe use of the product arise,
contact the manufacturer! www.innotech.at**

PRIOR TO EACH USE THE USER MUST INSPECT:


- Damage to plastic and/or metal fittings and the reliable operation of buckles or carabiners.
- Cable and seams (e.g. check for cuts, abrasion or other damage).
- The proper function of the spring pre-tension in the travelling fall-arrest device.
- A function check must be performed to ensure safety:
For this purpose, guide the travelling fall-arrest device up along the moveable guide before pulling it down fast. The fall-arrest device must slide up easily and stop immediately when pulled down.
- Also use the test sheet to ensure for yourself that the protective equipment is suitable for the application.
- Check the fall indicator on the carabiner (G) (see page 5).
- Strap fall attenuator not open or other damage

ANNUAL INSPECTION:

- The protective equipment must be subjected to a visual and function check at least every 12 months by an appropriately qualified expert. Depending on the intensity of use and environment it may be necessary to shorten the inspection intervals.
- The inspection must be documented on the test sheet (page 11) that must be stored along with the protective equipment.

A product that does no longer appear to be safe must no longer be used and should be replaced immediately!

ATTENTION! STOP USING THE EQUIPMENT IF:

- Damage or wear is visible on components such as cables and seams (cracks and cuts or other kinds of damage), plastic and/or metal fittings, etc.
- 
- The steel core of the cable is visible
 - Stress has occurred due to falling.
 - Damage is determined through regular inspection.
 - The service life has elapsed.
 - The product identification is no longer legible.

Retire the equipment if a visual inspection performed by the owner or an expert revealed deficiencies or the PPE has expired.

When you retire the equipment, you can be certain that it will not be used again in future applications.

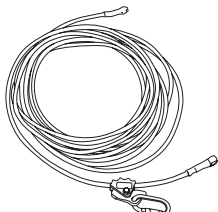
Repairs, changes, or supplements to the protective equipment should only be executed by the manufacturer.

3 SERVICE LIFE

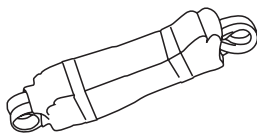
The **service life** of your protective equipment depends on the respective use and cannot be generally defined due to different frequencies of use, use conditions, care and storage.

When used in compliance with the use guidelines and inspected annually by an expert, the kernmantle rope with the attached travelling fall-arrest device and the detachable strap fall attenuator have a service life of **up to 10 years** and **10 years**, respectively.

10 years

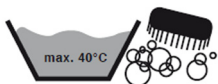
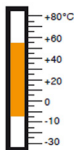


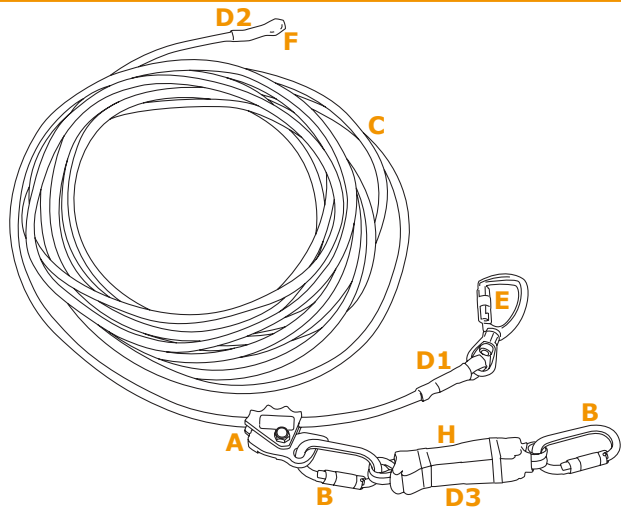
10 years



4 STORAGE / CARE

Store the protective equipment in a suitable protective sheath to protect it from UV radiation, chemicals, moisture and other environmental influences. Clean the cable with lukewarm water and mild soap, rinse off with clean water and air dry (never dry the cable in the dryer or by holding it over a heat source).





A- Travelling fall-arrest device/
Cable adjustment device

B- Triple-lock carabiner

C- Guiding cable

D1- Signs & Markings EN 353-2, EN 354, EN 358

D2- Signs & Markings EN 795 TYPE C

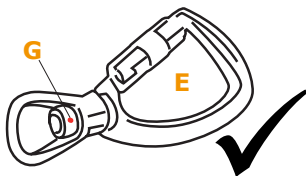
D3- Signs & Markings strap fall attenuator

E- Swivel carabiner

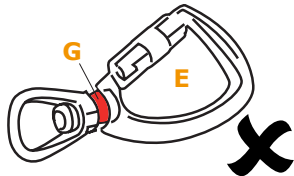
F- Cable end lock

G- Fall indicator

H- Strap fall attenuator



not released



released

Type designation:**Length:****ID No.: P-.....:****Numbers of the applicable standards:****DEKRA EXAM GmbH:****Name or logo of the manufacturer / reseller:****Year of manufacture and manufacturer's serial number:****Signs stating that the instructions specified in the manual must be followed:**

SHARK

Length in metres

Batch number

EN 353-2:2002, EN 354:2010,
EN 358:2000

CE 0158

INNOTECH Arbeitsschutz GmbH

20xx | xx/xxxxx



Mittelfestes Auffanggerät einseitlich beweglicher Führung / Guided type fall arrester including flexible anchorage line Verbindungsmittel / Lanyard Haftgarnitur und Verbindungsmittel für Haftgarnitur / Work positioning belt and lanyard for work positioning belt			
SHARK ...	LENGTH: ... m	CE 0158	
20xx	Serie: xx/xxxxx	ID - Nr.: P-14769	
EN 353-2:2002, EN 354:2010, EN 358:2000, EN 795:2012 TYP C			
Name:			
		INNOTECH® ARBEITSSCHUTZ GMBH	

When used as an anchorage device in accordance with EN 795 TYPE C:

Fall breakers required:

YES

Maximum cable deflection:

2 m

Maximum number of people who will be secured: 4**Numbers of the applicable standards:**

EN 795:2012 TYPE C

DEKRA EXAM GmbH:

CE 0158

Name or logo of the manufacturer / reseller:

INNOTECH Arbeitsschutz GmbH

Signs stating that the instructions specified in the manual must be followed:**Minimum free space below the fall point is calculated from:****Manufacturer's specifications of the PPE used + cable deflection body size + 1 m**

Bei Verwendung als Anschlagrichtung nach EN 795:2012 TYP C / Application as anchor device according to EN 795:2012 typ C			CE 0158
Fallschleifer: JA	Max. Seilauflenkung: 2 m		
Stoß-Absorber: YES	Max. Cable Deflection: 2 m		
Min. Freiraum unter der Abhängerhöhe errechnen sich aus: Herstellangaben der verwendeten PSA + Seilauflenkung + Körpergröße + 1 m Minimum free space necessary below the fall point is calculated as follows: Manufacturer's specification of the PPE used + cable deflection + body height + 1 m			
		INNOTECH® ARBEITSSCHUTZ GMBH	

DEVELOPMENT AND SALES:INNOTECH Arbeitsschutz GmbH, Ehrendorf 4, 4694 Ohlsdorf / Austria
www.innotech.at**THE NOTIFIED AUTHORITY PARTICIPATING IN THE TYPE TEST:**

- DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, CE 0158
The type test was performed in accordance with EN 795:2012
- Approved AUYA testing authority,
Adalbert-Stifter-Str. 65, 1200 Vienna, CE 0511
The type test was performed in accordance with EN 353-2:2002,
EN 354:2010, EN 358:2000

SHARK can be used:

- as rope in accordance with EN 354 (attention: up to a total length of 2 metres!).
- as a travelling fall-arrest device on a moveable guide in accordance with EN 353-2 (total length above 2 metres).
- as a positioning or restraint system in accordance with EN 358.
- as an anchorage device in accordance with EN 795 TYPE C (total length above 2 metres- PPE SHARK 5/10/15/...).

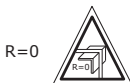
The usable cable length is infinitely adjustable by pressing the clamp bracket.

Notice on how to handle the components properly:

Irrespective of the application it is used for, SHARK must be used in conjunction with tested and approved components (e.g. anchorage devices in accordance with EN 795). The user should be capable of recognising suitable anchorage points, selecting the suitable fall prevention system in accordance with EN 363 and using PPE against falls from a height that corresponds to the state of the art. We recommend participating in a suitable training course on the use of the PPE against falls from a height.

Note on the sharp edge test:

The SHARK restraint system has been tested successfully for horizontal application during a fall over a steel edge in accordance with the test design set forth in prEN 354:2010 (proposal for enquiry CNB/P/11.074) Annex B. The test was also passed successfully when performed over a steel edge $R=0$ and a real concrete edge.



The travelling fall-arrest device (cable adjustment device) may only be extended by the included strap fall attenuator.



The anchorage point on which the protective equipment is fastened should be located above the user if possible and must satisfy the requirements specified in EN 795 (minimum strength of 10 kN).

Material: Textile-sheathed steel cable with a \varnothing 6mm diameter.

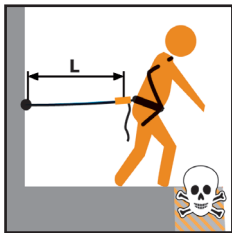
One end sewn up, the other end sewn together with the loop!

(1) USE AS PART OF THE RESTRAINT SYSTEM (ROPE FOR RESTRAINT HARNESSSES):

Adjust the cable length (L) so that areas where there is a danger of falling cannot be reached. ➔ **NO FALL POSSIBLE!**

To this end, the use of the following is permissible:

safety harnesses in accordance with EN 361 and restraint harnesses in accordance with EN 358.



(2) USE AS A WORKPLACE POSITIONING SYSTEM:

Adjust the cable length (L) so that a free fall is prevented.

- We recommend that you remove the strap fall attenuator!

➔ **NO FREE FALL POSSIBLE!**

Use only SHARK 2 for climbing posts or similar constructions. When looping the cable, make sure it cannot be damaged by sharp edges! (Danger to life!)

To this end, the use of the following is permissible:

(1) anchorage eyelets of body support devices in accordance with EN 358

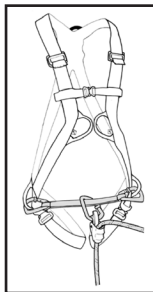
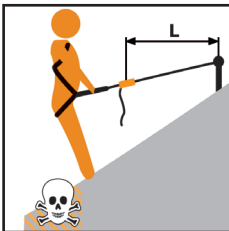
(2) or combined with Innotech STRING 2

(2)

(1)



(2)



(3) USE AS PART OF THE FALL-ARREST SYSTEM (TRAVELLING FALL-ARREST DEVICE INCLUDING MOVEABLE GUIDE):

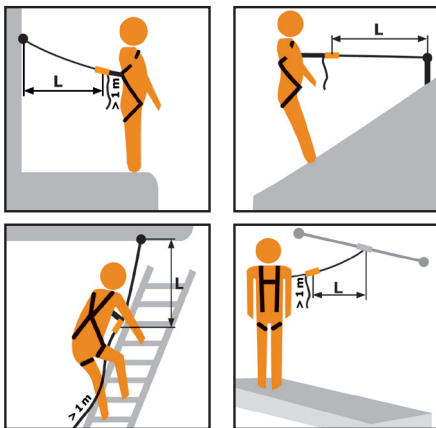
In the event of a fall, the strap fall attenuator absorbs the occurring forces, reducing them to a maximum of 6 kN. If subjected to load stress generated by a fall, the strap fall attenuator can elongate by a maximum of 1.7 m (EN 355). This is why you need to make sure that, while using the fall arrest system, there is always enough free space below the user to prevent him from hitting the ground in the event of a fall.

Always keep the cable length (L) as short as possible to limit the fall height to a minimum. Avoid a slack cable! (see item Incorrect use)

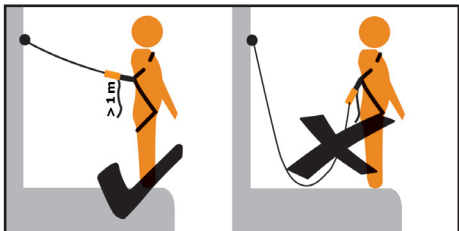
For safety reasons, we recommend that you always use fall arrest systems as restraint systems!

To this end, the use of the following is permissible:

fall-arrest eyelets of safety harnesses in accordance with EN 361



INCORRECT USE:

**(4) USE AS AN ANCHORAGE DEVICE:**

No more than 4 people must be attached to the overall cable system at the same time.

(At least 2 people must be present, and rescue measures must be specified.)

Safe application requires that you observe the corresponding specifications provided by the PPE manufacturers.

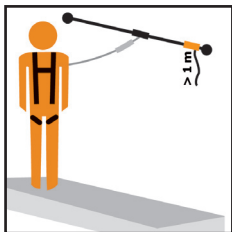
The detachable strap fall attenuator must be removed from the system before the travelling fall-arrest device can be connected directly to the anchorage device using a carabiner that corresponds to EN 362:2005. The connection to the guiding cable is established with suitable PPE against falls from a height. The restraint system is approved for the following fall protection systems in accordance with EN 363:2008:

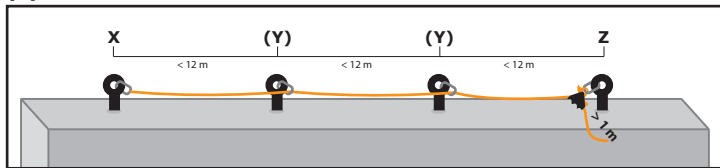
- restraint system
- fall arrest system

When using the cable span as a restraint system, adjust the rope so that it reliably prevents a fall.

- SHARK is not suitable for abseiling work (cable-based access).
- Fall arrest devices may only be used if approved for horizontal lifeline systems by the manufacturers of these fall arrest devices.

Note: there is a hazard when making use of fall arrest devices.



(4) WHEN USED AS AN ANCHORAGE DEVICE:

The anchorage points to which SHARK is fastened should, if possible, be located above the user, have great inherent stability and must satisfy the requirements specified in EN 795 (minimum strength of 10 kN).

Remove the strap fall attenuator from the travelling fall-arrest device.

Fasten the one-hand carabiner (swivel carabiner) of the SHARK at anchorage point (X), while fastening the triple-lock carabiner of the cable adjustment device (fall-arrest device) at anchorage point (Z).

The distance between the respective anchorage points must not exceed 12 m.

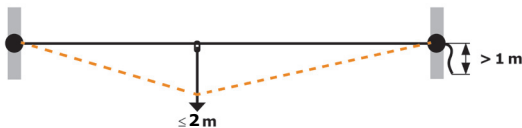
If the distance is greater, an additional anchorage point (Y) is required to act as an intermediate cable bracket. The cable (moveable guide) is fastened at the anchorage point (Y) by means of suitable PPE against falls from a height.

Proceed by tightening the cable (guide) at end point (Z) and slide the cable adjustment device as far as possible towards anchorage point (X).



The remaining cable length from the travelling fall-arrest device to the cable end lock must be at least 1 m!

If a temporary horizontal guiding cable is used, the **maximum cable deflection** is **max. 2 m**. This is why you need to make sure that, while using the fall arrest system, there is always enough free space below the user to prevent him from hitting the ground in the event of a fall.



For safety reasons, we recommend that you always use fall arrest systems as restraint systems!

TEST LOG (part 1/2)

SHARK

ORDER NUMBER: _____

PROJECT: _____

PRODUCT: SHARK Year of manufacture: _____

Serial number: _____

ANNUAL SYSTEM INSPECTION EXECUTED ON: _____

CLIENT: Specialist: 

Company address: _____

CONTRACTOR: Specialist: 

Company address: _____

INSPECTION POINTS: checked and
in orderDEFECTS DETECTED:
(Description of defect/measures)

DOCUMENTATION:

 Instructions for installation and use Test log

GENERAL PPE (personal protective equipment against falls from a height):

Inspection in accordance with manufacturer's specifications

 Expiration date Annual inspection performed Not checked (no authorisation) Identification (2x legible, present)

CABLE:

 Sheathing (no damage) No corrosion End crimpings (2x, no damage)

TEST LOG (part 2/2)

SHARK

INSPECTION POINTS: <input checked="" type="checkbox"/> checked and in order	DEFECTS DETECTED: (Description of defect/measures)
CARABINER:	
<input type="checkbox"/> Fall indicator not released	
<input type="checkbox"/> Operation (buckles in order)	
<input type="checkbox"/> No deformation	
<input type="checkbox"/> Signs of wear	
STRAP FALL ATTENUATOR:	
<input type="checkbox"/> Identification (legible, present)	
<input type="checkbox"/> Not released	
<input type="checkbox"/> Expiration date	
<input type="checkbox"/> Shrink tube (present, no damage)	
<input type="checkbox"/> Signs of wear	
<input type="checkbox"/> Visible harness strap (no damage)	
TRAVELLING FALL-ARREST DEVICE:	
<input type="checkbox"/> No corrosion, no deformation	
<input type="checkbox"/> Cable clamp locks into place automatically	
<input type="checkbox"/> Clamping nodules show no abrasion	
<input type="checkbox"/> Threaded joints (firmly seated)	

Acceptance result: The restraint system corresponds to the specifications in the manufacturer's instructions for installation and use and the state of the art. The safety specifications for reliability are confirmed.

Comments: _____

Name: _____

Client

Inspection: contractor (competent/specialised expert who is familiar with the safety system)

Date, company stamp, signature

Date, company stamp, signature

The manufacturer:

INNOTECH Arbeitsschutz GmbH, Ehrendorf 4, 4694 Ohlsdorf / AUSTRIA

DE hereby declares that the product described below named:

SHARK

EN is in conformity with:

- the provisions of EC Directive 89/686/EEC (12/21/1989),
- the standards:

FR ÖNORM EN 353-2:2002 Guided type fall arresters including a flexible anchor line,

IT ÖNORM EN 354:Lanyards,

IT ÖNORM EN 358:2000 Belts for work positioning and restraint and work positioning lanyards

NL ÖNORM EN 795:2012 Anchor devices

NL was the object

ES of the type test with (type) test no. **IB 2012-3533 / STP 2995**

ES conducted by the testing authority:

APPROVED AUVA TESTING AUTHORITY, 1200 Vienna, Adalbert-Stifter-Str. 65
and

PL the type test with the (type) test no. **ZP/B124/12**

PL conducted by the testing authority:

DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, respectively

CZ Articles 15 and 16 of the PPE Safety Ordinance under the control
of the approved testing authority

PT DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum. (CE 0158)

SE Ohlsdorf, 21.07.09

DK

