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SHARK



	1
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IT – ATTENZIONE: L'utilizzo del prodotto INNOTECH è permesso solo previa lettura e comprensione dell'intero manuale di istruzioni nella lingua del relativo paese di utilizzo.	ㅂ
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NL – ATTENTIE: Dit INNOTECH-product mag pas gebruikt worden nadat u de gebruikershandleiding in de taal van het betreffende land gelezen en begrepen hebt.	Ŋ
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DK – GIV AGT: Du må først bruge et produkt fra INNOTECH, efter du har læst og forstået brugsvejledningen i fuldt omfang i dit lands sprog.	Σ
SV – O B S : Denna INNOTECH-produkt får inte användas förrän bruksanvisningen på respektive lands språk har lästs igenom och förståtts.	SV
CZ – POZOR: Práce s výrobkem INNOTECH je povolena teprve po kompletním přečtení a porozumění návodu k použití v jazyku daného státu.	CZ
PL – UWAGA: Produkty firmy INNOTECH mogą być używane dopiero po dokładnym zapoznaniu się z całą instrukcją obsługi w ojczystym języku.	PL
SL – POZOR: Uporaba izdelka INNOTECH je dovoljena šele po tem, ko ste navodila prebrali v celoti v ustreznem jeziku svoje dežele in jih tudi razumeli.	SL
SK – POZOR: Produkt INNOTECH môžete používať až po prečítaní a porozumení celého návodu na použitie pre príslušnú krajinu.	SK
HU – FIGYELEM: Az INNOTECH termékek használata csak azt követően engedélyezett, hogy saját nyelvén elolvasta és megértette a teljes használati utasítást.	₽
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ZH - 注意:只有在仔细阅读并完全理解了当地语言的使用说明后,才能使用 INNOTECH 公司的产品。	ZH

1 TABLE OF CONTENTS

[2]	DESCRIPTION OF SYMBOLS	3
[3]	SAFETY INSTRUCTIONS	4
[4]	SERVICE LIFE	6
[5]	STORAGE/CARE	6
[6]	COMPONENTS/MATERIAL	7
[7]	SIGNS & MARKINGS	8
[8]	INSTRUCTION MANUAL	9
[9]	TEST LOG	14
[10]	DEVELOPMENT & SALES	16

DESCRIPTION OF SYMBOLS

Warning/danger information



For an IMMEDIATE potential danger which could lead to serious injury or death.



For a POTENTIALLY dangerous situation which could lead to serious injury or death.



For a POTENTIALLY dangerous situation which could lead to minor injury or property damages



Wear protective gloves!



Wear protective glasses!



Additional Information/Instructions



correct



incorrect



Follow the manufacturer's instructions / appropriate user manuals

3 SAFETY IN

SAFETY INSTRUCTIONS

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
- 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

stop immediately when pulled down.

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.

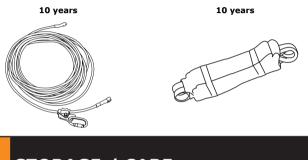
When you retire the equipment, you can be certain that it will not be used again in future applications.

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

ш

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 strap fall attenuator have a service life of **up to 10 years** and **10 years**, respectively.

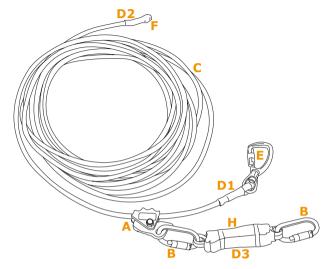


5 STORAGE / CARE

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 B & C
- D3- Signs & Markings strap fall attenuator





Swivel carabiner Cable end lock

H- Strap fall attenuator

Fall indicator

Type designation:

Lenath:

TD No.: P-...:

Numbers of the applicable standards: DEKRA Testing and Certification GmbH: SHARK

Length in meters Batch number

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

FN 358-2018

CE 0158 Name or logo of the manufacturer / reseller: INNOTECH Arheitsschutz GmbH

Year of manufacture and

manufacturer's serial number:

Signs stating that the instructions specified in the manual must be followed:

20xx | xx/xxxxx

Mitlaufendes Auffanggerät einschließlich beweglicher Führung Guded type fall arrester including flexble anchorage ine verbindungsmittel / Lanyard Haltegurte / Met Guden betrauften der Methodungsmittel für Haltegurte / Work positioning belt and teinyard for work positioning belt SHARK 2 | LENGTH: 2 m | C€ 0158 ID-Nr.: P- 000000 Serien-Nr.: 24/????? Art.Nr.: PSA-SHARK-002 EN 354:2010. EN 358:2018. EN 795:2012. EN 353-2:2002 HINNOTECH

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

Fall breakers required:

YES

Maximum cable deflection:

3.5 m

Maximum number of people who will be secured: 4

EN 795:2012 TYPE B & C

Numbers of the applicable standards: DEKRA Testing and Certification GmbH:

C€ 0158

INNOTECH Arbeitsschutz GmbH

Name or logo of the manufacturer / reseller: 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 Anschlageinrichtung nach EN 795:2012 TYP B & C / Application as anchor device according to EN795:2012 typ B&CC€0158 Falldämpfer: JA Max. Seilauslenkung: 2 m Shock-Absorber: YES Max. Cable Deflection: 2 m Min. Preiraum unter der Absturzstelle errechnet sich aus: Herstellerangabe der verwendeten PSA + Sellauslenkung + Körpergrösse + 1 m issuerangsbe our verwendesen issk visitationering vikipergresse v.i.m. imum free space necessary below the fall point is calculated as follows: nufacturer's specification of the PPE used vicable deflection vibody height v.i.m. HINNOTECH

THE NOTIFIED AUTHORITY PARTICIPATING IN THE TYPE TEST:

DEKRA Testing and Certification GmbH, Dinnendahlstr. 9, 44809 Bochum, €€ 0158 The type test was performed in accordance with EN 795:2012, EN 353-2:2002, EN 354:2010, EN 358:2018

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 B & 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 EN 353-2:2002 (PPE-R/11.075). The test was also passed successfully when performed over a steel edge R=0,5 and a real concrete edge.



Definition of sharp edge - Type B (PPE Directive 89/686/EEC - CNB/P/11.054): A steel edge without a radius, manufactured from a square-section rod as per EN 10278:1999-12; Material: C 45+C or E335 GC (ST60) as per EN 10025. The equipment can therefore be used at similar edges.

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 Ø 6mm diameter.

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

8 USE INSTRUCTIONS

8.1 USE AS PART OF THE RESTRAINT SYSTEM (ROPE FOR RESTRAINT HARNESSES)

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 as per EN 361 and harnesses for workplace positioning or restraint as per EN 358.



8.2 USE AS A WORKPLACE POSITIONING SYSTEM

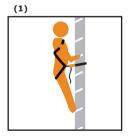
Adjust the cable length (L) so that a free fall is prevented.

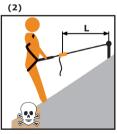
→ NO FREE FALL POSSIBLE!

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 | 2) anchorage eyelets of body support devices in accordance with EN 358







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

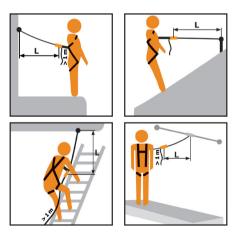
In the event of a fall, the strap fall attenuator absorbs the occurring forces, reducing them to a maximum of 6 kN. If subjected to load stress generated by a fall, the strap fall attenuator can elongate by a maximum of 1.7 m (EN 355). This is why you need to make sure that, while using the fall arrest 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:



8.4 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 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.

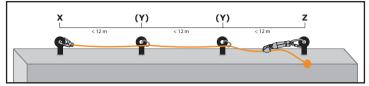
- SHARK is not suitable for abseiling work (cable-based access).
- Fall arrest devices may only be used if approved for horizontal lifeline systems by the manufacturers of these fall arrest devices.

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



USE INSTRUCTIONS

USE AS AN ANCHORAGE DEVICE 8.4



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).

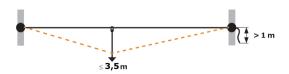
Fasten the one-hand carabiner (swivel carabiner) of the SHARK to the anchor point (X). while fastening the triple-lock carabiner and the energy absorber of the cable adjustment device (fall arrester) to anchor point (Z).

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 (quide) 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. 3,5 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:	Purchase date:				
PROJECT:	Date of first use:				
PRODUCT: SHARK Year of construction	n: Serial number:				
REASON FOR WORK: $\ \square$ Regular inspection	□ Repair				
ANNUAL SYSTEM INSPECTION EXECUTED ON:: DATE OF NEXT INSPECTION:					
CLIENT: Specialist: Company address:	≅				
CONTRACTOR: Specialist: Company address:	≊				
INSPECTION POINTS: checked and in order	DEFECTS DETECTED: (Description of defect/measures)				
DOCUMENTATION:					
☐ Instructions for installation and use					
☐ Test log					
GENERAL PPE (personal protective equipment a Inspection in accordance with manufacturer's specifications	against falls from a height):				
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: ☑ checked and in order	DEFECTS DETECTED: (Description of defect/measures)
CARABINER:	
Fall indicator not released	
Operation (buckles in order)	
☐ No deformation	
Signs of wear	
STRAP FALL ATTENUATOR:	
☐ Identification (legible, present)	
☐ Not released	
Expiration date	
Shrink tube (present, no damage)	
Signs of wear	
☐ Visible harness strap (no damage)	
TRAVELLING FALL-ARREST DEVICE:	
☐ No corrosion, no deformation	
Cable clamp locks into place automatically	
Clamping nodules show no abrasion	
Threaded joints (firmly seated)	
	responds to the specifications in the manufacturer's ate of the art. The safety specifications for reliability
Comments:	
Name:	
Client	Inspection: contractor (competent/specialised expert who is familiar with the safety system)
Date, company stamp, signature	Date, company stamp, signature

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