

INNOTECH® BRAKE



Instruction manual

DE – ACHTUNG: Die Verwendung des INNOTECH-Produkts ist erst zulässig, nachdem die Gebrauchsanleitung in der jeweiligen Landessprache vollständig gelesen und verstanden wurde.

EN – ATTENTION: Use of the INNOTECH product is permitted only after the instruction manual has been read and fully understood in the respective language.

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.

FR – ATTENTION : L'utilisation du produit INNOTECH n'est autorisée qu'après avoir entièrement lu et compris la notice d'utilisation dans la langue du pays concerné.

NL – ATTENTIE: Dit INNOTECH-product mag pas gebruikt worden nadat u de gebruikershandleiding in de taal van het betreffende land gelezen en begrepen hebt.

ES – ATENCIÓN: Se autorizará el uso de los productos INNOTECH una vez que se hayan leído y entendido las instrucciones de uso en el idioma del país.

PT – ATENÇÃO: O uso do produto INNOTECH apenas é permitido depois de ter lido e compreendido na totalidade as instruções de uso na respetiva língua nacional.

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.

SV – OBS: Denna INNOTECH-produkt får inte användas förrän bruksanvisningen på respektive lands språk har lästs igenom och förstås.

CZ – POZOR: Práce s výrobkem INNOTECH je povolena teprve po kompletním přečtení a porozumění návodu k použití v jazyku daného státu.

PL – UWAGA: Produkty firmy INNOTECH mogą być używane dopiero po dokładnym zapoznaniu się z całą instrukcją obsługi w ojczystym języku.

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.

SK – POZOR: Produkt INNOTECH môžete používať až po prečítaní a porozumení celého návodu na použitie pre príslušnú krajinu.

HU – FIGYELEM: Az INNOTECH termékek használatá csak azt követően engedélyezett, hogy saját nyelvéen elolvasta és megértette a teljes használati utasítást.

TR – DİKKAT: INNOTECH ürününün kullanımına ancak ilgili ülkenin dilinde sunulmuş olan kullanım kılavuzunun tamamen okunmasından ve anlaşılmasından sonra izin verilir.

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。

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Danger/warning information

For a DIRECTLY threatening danger which results in serious physical injury or death.



For a POTENTIALLY dangerous situation which results in serious physical injury or death.



For a POTENTIALLY dangerous situation which could result in slight physical injuries and material damage.



Wear protective gloves.



Wear safety glasses.

**Supplementary information/instructions**

correct



wrong



Comply with the manufacturer's instructions/instruction manual

Comply with the following safety instructions and the latest state of the art.

- The protective equipment may be used only by persons who have been trained
 - in "personal protective equipment" (PPE).
 - are in good physical and mental health. Medical conditions such as cardiovascular problems, intake of medicines, consumption of alcohol, etc. negatively affect the safety of the user.
 - are familiar with the locally applicable safety regulations.
- Understand and accept the options, restrictions, and risks of the protective equipment.
- A plan must exist for rescue procedures which takes into account all possible emergencies arising during work (emergency plan).

CAUTION: After a fall, an extended period of suspension in the PPE can cause severe injuries or even death (suspension trauma).
- At least 2 people must be present, and rescue measures must be specified.
- Comply with the applicable accident prevention regulations (e.g. working in areas where there is a danger of falling) when using the protective equipment.
- For horizontal implementation, use only lanyards that are suited for this purpose, and that are suitable for the respective fall edge (sharp edges: trapezoid sheet metal, steel girders, concrete, etc.).

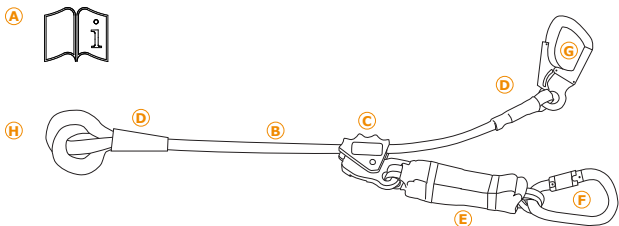
CAUTION: Avoid a pendulum fall!
- Incorrect use or the combination of incompatible equipment causes severe or fatal injuries for which INNOTECH® accepts no liability. Comply with the applicable instruction manual.
- The minimum free space necessary under the edge is calculated as follows:
Deformation of the anchorage device in the event of strain + Manufacturer's specification of the personal protective equipment used including deflection of the cable + body height + 1 m safety margin.
- The protective equipment was developed to protect humans. Do NOT use for other purposes.
- In order to prevent a fall, people in areas where there is danger of falling must ensure that the connection to the anchorage system is kept as short as possible.
- Keep the operating manual together with the product.
- If the protective equipment is sold to another country, the instructions for installation and use must be provided in the respective national language.
- Children and pregnant women must NOT use the protective equipment.



If uncertainties arise during installation, it is imperative that you contact the manufacturer.

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COMPONENTS/MATERIAL



- A) Instruction manual
- B) Guide cable: Core jacket \varnothing 12 mm
- C) Travelling safety harness/length adjustment device
- D) Signs & Markings
- E) Shock absorbing device (> 2 m overall length)
- F) INNOTECH "TRIPLE-LOCK-CARABINER": Aluminium
- G) One-hand carabiner: Aluminium
- H) Cable end lock

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PRODUCT SUITABILITY/APPROVAL

INNOTECH "BRAKE" was developed as a

- lanyard as per EN 354 (up to 2 m max. overall length)
INNOTECH "BRAKE" (up to 2 m max. overall length) is NOT to be used as a fall arrest system complying with EN 363,
- travelling fall-arrest device on moveable guide in accordance with EN 353-2 (greater than 2 m overall length)
- anchorage device as per EN 795:2012 TYPE B & C (greater than 2 m overall length)

for personal safety, and is suitable for the following fall protection systems as per EN 363:2008:

- Restraint system
- Workplace positioning
- use in the fall arrest system (overall length > 2 m)
travelling fall arrest system including mobile guide

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PRODUCT SUITABILITY/APPROVAL



DANGER TO LIFE from incorrect use.

- INNOTECH "BRAKE" must be used ONLY for personal safety.
- Use INNOTECH "BRAKE" ONLY for the applications approved in this instruction manual.
- NEVER hang loads from the INNOTECH "BRAKE" which are NOT expressly approved in this instruction manual.



Comply with the manufacturer's instructions for the personal protective equipment being used.

INNOTECH "BRAKE" was tested and certified as per **EN 795:2012 TYPE B & C, CEN/TS-16415:2013, EN 353-2:2002, EN 354:2010, EN 358:2000.**

The notified authority participating in the type test:

AUVA Approved Testing Authority

Adalbert-Stifter-Str. 65, 1200 Vienna, Austria, C€ 0511

Type testing was carried out as per EN 795:2012 TYPE B & C, CEN/TS-16415:2013, EN 353-2:2002, EN 354:2010, EN 358:2000.

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SERVICE LIFE

The service life of the protective equipment depends on the actual use, and can NOT be defined in a way that is generally valid, due to different frequencies of use, deployment conditions, care, and storage.

When used in compliance with the usage guidelines, and inspected annually by an expert, the service life is up to **10 years maximum**, starting from the year of manufacture.



Repairs, modifications, or additions to the protective equipment must be executed only by the manufacturer.

7.1 CHECK BEFORE EVERY USE

Before each use, INNOTECH "BRAKE" must be checked visually for any obvious defects.



DANGER

DANGER TO LIFE through damage to the INNOTECH "BRAKE".

- INNOTECH "BRAKE" must be in perfect working condition.
- Carry out functional testing.
- INNOTECH "BRAKE" must NOT continue to be used if
 - Damage or wear on components such as cables and seams (e.g. cracks, cuts, wear, or other damage) is visible,
 - other defects were observed on plastic or metal fittings,
 - stress has been caused by a fall or after heavy strain,
 - the service life has elapsed,
 - the product identification is illegible or missing.

FUNCTIONAL TESTING:

1. Guide the travelling fall arrest device upwards onto the mobile guide, and pull downwards quickly.
2. It must be easy to guide the safety harness upwards, and it must stop immediately when moved downwards.

In addition, use the test sheet to confirm that the protective equipment is suitable for use.



If there are any doubts concerning the reliable operation of the restraint system, it must NO longer be used, and must be checked by an expert (written documentation). Where necessary, the product must be replaced.

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INSPECTION

7.2 INSPECT EVERY YEAR

INNOTECH "BRAKE" must be inspected at least once a year by a specially trained technician who is familiar with the restraint system. The user's safety depends on the effectiveness and reliability of the equipment.

Shorter intervals between inspections may be required, depending on the intensity of use and the environment (e.g. in corrosive atmospheres, etc.).

Document the inspection by the specialist in the test log in the instruction manual, and keep it with the instruction manual.



The inspection intervals are found in the test log.

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WARRANTY

For normal conditions of use, the guarantee period for manufacturing defects on all parts is 2 years from the date of purchase. This period is reduced if equipment is used in corrosive atmospheres.

If there is strain (a fall, weight of snow, etc.) the warranty claim is void for those components that were designed to absorb energy, or which deform.



For system installation and for components planned and installed by specialised installation companies under their own responsibility, INNOTECH® assumes neither responsibility nor warranty in the case of improper use.

- A) Name or logo of the manufacturer/reseller: INNOTECH®
- B) Type designation: BRAKE
- C) Indication that instructions in the manual must be followed: 
- D) Identification number of the testing authority which tested the product: ID no.: P-.....
- E) EC conformity marking: CE 0158
- F) Year of manufacture and manufacturer's serial number: 20.. JJ/.....
- G) Numbers of the applicable standards: EN 795:2012 TYPE B & C,
CEN/TS-16415:2013,
EN 353-2:2002, EN 354:2010
EN 358:2000
- H) Length: Length in metres
- I) Name of the owner/user: Name:

When used as an anchorage device in accordance with EN 795:2012 TYPE B & C:

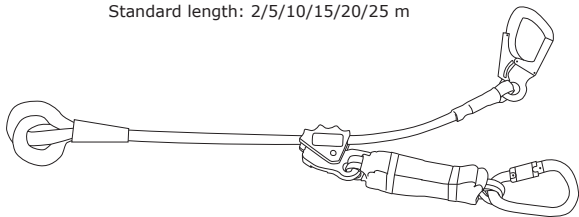
- J) Shock absorber required: YES
- K) Maximum cable deflection: 3 m
- L) Maximum number of people who can be secured: 2
- M) Minimum free space below the fall point is calculated from:
Manufacturer's specifications for the PPE used + cable deflection + body size + 1 m

Mittlaufendes Auffängergerät einschließlich beweglicher Führung / Guided type fall arrester including flexible anchorage line		
Verbindungsmittel / Lanyard		
Haltegurte und Verbindungsmittel für Haltegurte / Work positioning belt and lanyard for work positioning belt		
B	BRAKE ...	LENGTH: 3 m
F	20xx	Serie: xx/xxxxx
G	EN 353-2:2002, EN 354:2010, EN 358:2000	
I	Name:	
A	 	

G	Bei Verwendung als Anschlagelrichtung nach EN 795:2012 TYP B & C / Application as anchor device according to EN 795:2012 TYP B & C		
J	Falldämpfer: JA	Max. Seillauslenkung: 3 m	K
	Shock-Absorber: YES	Max. Cable Deflection: 3 m	L
	Min. Freiraum unter der Abstützstelle errechnet sich aus: Herstellerangabe der verwendeten PSA + Seillauslenkung + 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		
A			C

10 DIMENSIONS

Standard length: 2/5/10/15/20/25 m



11 USE

Notice on correct use of the components:

Connect the length adjustment device by means of the INNOTECH "TRIPLE-LOCK-CARABINER" to the corresponding anchorage eyelet of the safety harness (body support device) and the one-hand carabiner to the anchorage point (exception: use as anchorage device as per EN 795 TYPE C, see section 11.4).



Use INNOTECH "BRAKE" ONLY with tested and approved components.

Max. extension of the moving safety device

Connect the shock absorbing device permanently stitched into the safety device to the safety harness ONLY by means of a connection element as per EN 362.

Further extensions are not permitted, and put safety at risk.



The anchorage point to which the protective equipment is fastened is to be located above the user and must satisfy the requirements specified in EN 795.

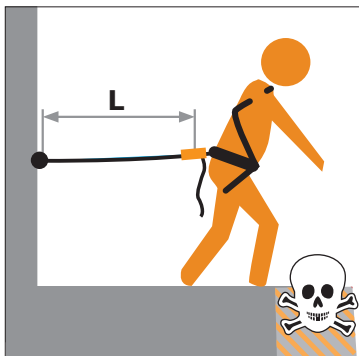
11.1 USE AS PART OF THE RESTRAINT SYSTEM

Lanyard for restraint harnesses

Adjust the cable length (L) so that there is no danger of falling.

Use permitted ONLY with:

- Safety harness as per EN 361 and restraint harness as per EN 358

**DANGER TO LIFE through falling over the fall edge.**

- The anchorage point (EN 795) should be positioned at hip height or above.
- Maintain a minimum distance from the edge, in order to prevent a fall.
- Work only with a taut cable.

11.2 USE AS A WORKPLACE POSITIONING SYSTEM

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

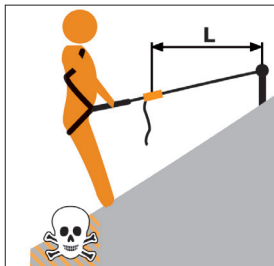
Use permitted ONLY with:

- (1) Positioning loops of the safety harness (body support device) as per EN 358 or
- (2) INNOTECH "STRING-1+2"

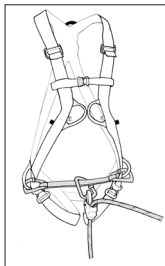
(1)



(1)



(2)



DANGER TO LIFE through falling over the fall edge.

- The anchorage point (EN 795) should be positioned at hip height or above.
- Work only with a taut cable.
- Comply with the maximum permitted fall height of 0.5 m.

11.3 USE AS PART OF THE FALL-ARREST SYSTEM

Travelling fall-arrest device including moveable guide

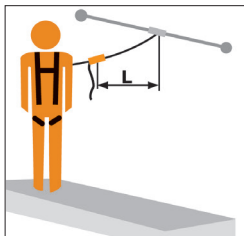
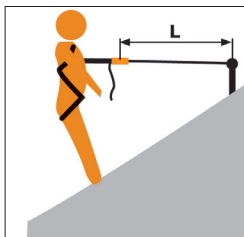
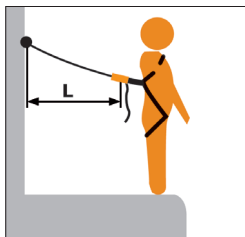
In the case of a fall, the shock absorbing device permanently stitched into the safety device damps the falling forces by means of controlled tearing over a maximum length of 1.75 m.

While using the fall arrest system, ensure that there is enough free space to prevent the user from hitting the ground.

Set the cable length (L) so that the fall height is restricted to a minimum. **Avoid a slack cable.** (see "Incorrect use")

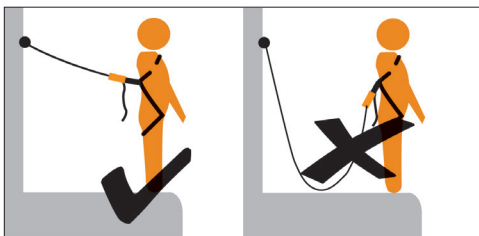
Use permitted ONLY with:

- the fall arrest eyelets of the safety harness (body support devices) as per EN 361



It is recommended to use a fall arrest system as a restraint system.

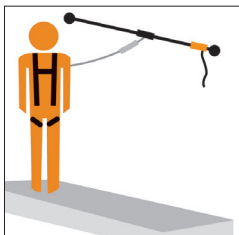
INCORRECT USE

**DANGER TO LIFE** through falling over the fall edge.

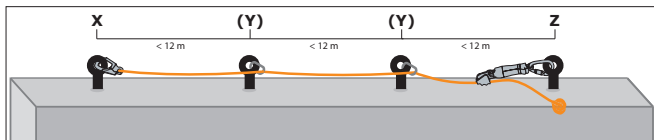
- The anchorage point (EN 795) should be positioned at hip height or above.
- Work only with a taut cable.

11.4 USE AS AN ANCHORAGE DEVICE:

A **maximum of 2 persons** may be attached simultaneously to the restraint system by means of a single carabiner as per EN 362.

**DANGER TO LIFE** through falling over the fall edge.

- The anchorage point (EN 795) should be positioned at hip height or above.
- Work only with a taut cable.



Attach the one-hand carabiner to the anchorage point (X), and the INNOTECH "TRIPLE-LOCK-CARABINER" to the anchorage point (Z).

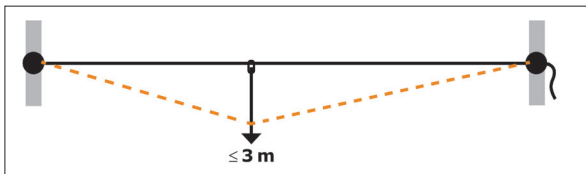
The distance between the respective anchorage points must not exceed 12 m. For greater separations, insert a further anchorage point (Y) as an intermediate cable bracket.

Attach the guide cable to the anchorage point (Y) using a carabiner as per EN 362, and tension to the end point (Z).

Push the length adjustment device towards anchorage point (X).

In the case of a fall, the shock absorbing device permanently stitched into the safety device damps the falling forces by means of controlled tearing over a maximum length of 1.75 m.

While using the fall arrest system, ensure that there is enough free space to prevent the user from hitting the ground.



When used as a temporary horizontal guide cable, the **maximum cable deflection is 3 m**.



It is recommended to use a fall arrest system as a restraint system.



Use **ONLY** fall arrest devices which are approved for horizontal lifeline systems.

12.1 STORAGE AND TRANSPORT

Store and transport the protective equipment in a suitable protective cover to protect it from UV radiation, chemicals, moisture, and other environmental influences.



12.2 CLEANING AND CARE

Clean the safety equipment using a soft brush (dry or damp), and luke warm water and mild soap.

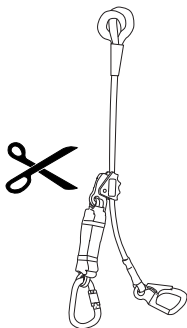
Rinse off with clean water, and allow to air dry.



1.

CUTTING INTO PIECES

When disposing, ensure that re-use is impossible.



2.

DISPOSAL

Do NOT throw the safety equipment into domestic waste.

As per national requirements, gather together the used parts, and send them for environmentally friendly re-use.

14 COPY TEMPLATE TEST SHEET

PRODUCT: **BRAKE** LENGTH: m
MANUFACTURER: **INNOTECH® Arbeitsschutz GmbH**

SERIAL NO.: YEAR OF CONSTRUCTION:

DATE OF FIRST USE:

OWNER/COMPANY:

**The periodic inspection must be performed and documented
at least once per year by an EXPERT.**

DATE	TEST RESULTS/COMMENTS/ NEXT INSPECTION NO LATER THAN	✓ X	EXPERT/ SIGNATURE
1.			
2.			
3.			
4.			
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9.			
10.			
11.			
12.			
13.			
14.			

It is recommended that the personal protective equipment is used by only one person.
The personal protective equipment is used by: Name(s):

INNOTECH® Arbeitsschutz GmbH, Laizing 10, 4656 Kirchham/Austria
www.innotech.at

