

Operating Instructions

Lifting Beam

DTHBV-50.100.150



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1 General information

1.1 Warranty

The warranty period is 12 months from date of delivery ex works subject to correct usage and adherence to the prescribed service intervals. As a general principle, the wearing parts (e.g. gaskets, sealing elements, springs, bearings, etc.) are not covered by the warranty. Please also take note of our general Terms & Conditions in this regard.

1.2 Safety information

The statutory health & safety and accident prevention regulations apply independently of the information contained in these operating instructions.

Every person instructed by the owner to operate, service or repair the product must first have read and understood the operating instructions, especially [Section 2 "Safety"](#). More detailed explanations are given in [Section 1.5 "Information on the briefing of operating personnel and the keeping of mandatory records"](#).

Anyone who repairs the product is in principle responsible for ensuring their own health and safety.

Due regard for all the relevant safety regulations and legal requirements is essential to avoid injury to personnel and damage to the product during servicing and repair work.

Maintenance engineers must have read and understood these regulations before starting work.

Repairs to the IBS products must be carried out by duly trained and qualified personnel in order to be executed correctly. Responsibility for training lies with the owner and maintenance engineers, who are required to ensure that the operators and any future maintenance engineers are appropriately trained to work on the product.

No warranty claims for damage caused by improper operation will be accepted.

The warranty will also be invalidated in the event of unauthorised repair work and/or invasive action, and the use of accessories and spare parts which are not designed for use with our product.

Defects must be repaired immediately in order to minimise the extent of the damage and to preserve the safety of the product.

Failure to take prompt action will nullify any further warranty claims.

We reserve the right to make modifications in the interests of making technical improvements.

We have flagged up all the safety information and warning signs for you.

We have used the following symbols and warning words:



Caution



Suspended load



Note: Failure to observe the signs can lead to disruptions in operations.



Please note that we will not accept liability for damage caused by failure to follow these operating instructions.

This symbol is used in the operating instructions to flag up the following safety information, which must be heeded at all costs in the circumstances below:

When lack of care can lead to injuries or life-threatening situations.

When there is a risk of being crushed while working.

When non-compliant and incorrect working practices can cause damage to the product.



When attention must be drawn to specific processes, methods, information and the use of aids, etc.

Never stand under suspended loads.

1.3 Documentation

The product, as built by IBS Industriebarrieren GmbH, is supplied with detailed documentation.

The format of this documentation complies with the relevant standards and requirements. It is the responsibility of the user to distribute the relevant parts of the documentation to the right people. The user is required to ensure that at least one copy of the documentation is in the immediate vicinity of the product and is accessible to the relevant people.

The operating instructions constitute an integral part of the product and must be kept throughout its service life.

The operating instructions must be passed on to any subsequent owner or user of the product.

Any person assigned to work on the product must have read the relevant documentation before starting work, with particular reference to [Section 2 "Safety"](#). This applies most notably to persons who are instructed to work on the product only occasionally, e.g. maintenance personnel.

1.4 Copyright

These operating instructions and the product documents are protected by copyright as the property of IBS Industriebarrieren GmbH. They are only supplied with the product to our customers and to the owners of our products and belong with the product.

These documents may not be duplicated or made accessible to third parties, especially to competing firms, without our express permission.

1.5 Information on the briefing of operating personnel and the keeping of mandatory records

We recommend that the owners of our products make the operating instructions available to all persons who are instructed to operate, service and repair the products, especially [Section 2 "Safety"](#) so that they can acquire the relevant knowledge. We also recommend that owners issue internal "**Operating procedures**", taking due account of the known skills and qualifications of the relevant personnel.

Written confirmation should be given to the owner to verify attendance at briefing sessions and training courses, etc., which cover the knowledge needed for the operation, maintenance and repair of the product.

2 Safety

2.1 Designated use

This load suspension device, hereinafter also referred to as the product, is only designed to lift IBS stop logs in and out of the channel. There are risks involved in using the product for any other purpose. The specified technical limits must not be exceeded.

The product may only be used as indicated in its technical specification. This includes adhering to the conditions prescribed by the manufacturer with reference to its start-up, assembly, operation, location and maintenance.



The safe operation of the product cannot be guaranteed if it is not used for its intended purpose.

The owner of the product rather than the manufacturer will be responsible for any injury and damage arising as a result of its improper use.

Fundamental principles

The product, as built and placed into circulation by IBS Industriebarrieren GmbH, is designed for industrial use and meets the safety regulations applicable at the time of its delivery and set out in detail below. The product reflects the industry standard and conforms to the recognised codes of safe practice at the time of its delivery.

Any relevant customer specifications have been met insofar as they form part of the contract and did not impinge upon existing safety requirements.

Personal protective equipment

The minimum requirements in terms of personal protective equipment are as follows:

- Hard hat
- Safety shoes
- Safety gloves

These symbols are used to remind you to wear your personal protective equipment.



Hard hat



Safety shoes



Safety gloves

Intended purpose

The product is designed to serve the purpose of use agreed in the contract between the manufacturer/supplier and user and to serve the purpose of use set out in the product specification and in line with its application as set out in the technical data.

The operational safety and reliability of the product is guaranteed if it is used as intended and with due regard for the relevant safety regulations, as far as can be foreseen.

Improper use of the product can entail the following risks:

- Risk of injury or death of the operator.
- Risk of damage to the product and to other valuable property

belonging to the operator or to third parties.

Improper use of the product might include the following:

- The product load limits are exceeded.
- It is used to transport items other than those specified.



Improper use of the product and disregard for the relevant safety standards and regulations can place the operator at risk of injury or death!



Please ensure that adequate safety precautions are taken when transporting and manoeuvring the product.

Never stand under suspended loads.

You should only work with the load suspension equipment if you have read and understood the operating instructions.

Always wear the correct protective equipment when using the load suspension device.



Technical condition:

The product must be in perfect working order when it is used and must be used as intended with due regard for the relevant regulations (cf. also section entitled ["Malfunctions" in section 2.2.](#))

The owner of the product rather than the manufacturer will be responsible for any injury and damage arising as a result of its improper use.

2.2 Organisational measures

Adherence to regulations

The owner must take appropriate organisational measures and provide the necessary instruction to ensure that the relevant safety regulations and codes of safe practice are observed by the personnel assigned to operate, service and repair the product.

Monitoring of conduct

The owner is required to carry out at least occasional checks on personnel to ensure safe working practices and due awareness of hazards.

Hazard warnings

The owner is required to ensure that due account is being taken of safety advice and hazard warnings relating to the product and that the signs are clearly legible.

Malfunctions

Take the product out of operation immediately if it is damaged and unsafe to use, or if the way in which it is operating gives reason to suppose that it is damaged and unsafe to use, and do not reuse it until the damage has been rectified. Damage may only be rectified by trained and authorised personnel.

Modifications

The consent of the manufacturer/supplier must be obtained before making any modifications to the product, fitting anything on the product or making alterations to the product which may affect its safety.

This also applies to the installation of safety devices.

Spare parts

The only spare parts which may be used are such as meet the specifications laid down by the manufacturer/supplier. This is always the case with original spare parts. Neither liability for the product nor warranty claims will be accepted if repairs are carried out improperly and if spare parts which are not approved are used.

Checks/inspections

It is essential to adhere to the prescribed intervals for regular checks and inspections as set out in the maintenance manual.

Staff selection and qualifications

- Work on/with the product may only be carried out by reliable personnel who are not below the minimum legal age.
- Personnel must be duly trained and briefed before working on the product, taking advantage of the training offered by the manufacturer, where necessary.
- Responsibility for operating, servicing and repairing the product must be clearly delineated so that staff are in no doubt as to their remit.

- Personnel must have the necessary expert knowledge of the safety regulations before being allowed to conduct servicing and repair work on the safety-related parts of the product.
- Set out the responsibility of operators, including in respect of safe working practices, allowing the rejection of instructions from third parties which go against the codes of safety.
- Personnel who are being trained, briefed, instructed or familiarised with the product may only be allowed to work on/with the product under the constant supervision of an experienced person.

2.3 General safety information

Intended location/place of installation

There must be enough space for the product and enough space to cordon off all the areas which are not included in the working zone. The exclusion zone must be an effective and reliable means of preventing anyone touching or being hit by moving parts.

There must be sufficient space to allow for an escape route.

Operational test

After the product has been assembled, it must be tested before it is put into operation.

Maintenance instructions

The reliable operation of the product can only be guaranteed in case of precise adherence to the maintenance procedures in the operating instructions (cf. [Section 7 "Maintenance"](#)).

Safety during maintenance work

- Never engage in dangerous working practices.
- Never operate the product unless all the safety devices are fitted and in working order.
- Check the product at least once a day for visible external signs of damage and defects.
- Report any changes and unusual behaviour immediately to the relevant body/supervisor; if necessary, shut the product down immediately and secure it.
- Do not use the product again until the cause of the malfunction has been remedied.

Environmental protection regulations

The relevant environmental protection regulations must be adhered to when carrying out any servicing and repair work. The main German regulations and laws governing the use of cold cleaning solvents are as follows:

- Dangerous Chemicals Ordinance (GefStoffV)
- Water Resources Law (WHG)
- Waste Management Law (AbfG)
- Waste Documentation Ordinance (AbfNachwV)
-

The use of petroleum ether is prohibited. It is highly inflammable, susceptible to static charge and can give rise to explosive mixtures of gas and air.

Apply careful selection criteria even before buying lubricants and lubricating oils, researching their environmental impact, health risks, regulations for their disposal, and local facilities for approved disposal.

Information about residual risks/residual hazards



Never stand under suspended loads.

Always wear the correct protective equipment when using the load suspension device.



Some parts of the product or load may have sharp edges.

3 Product as supplied

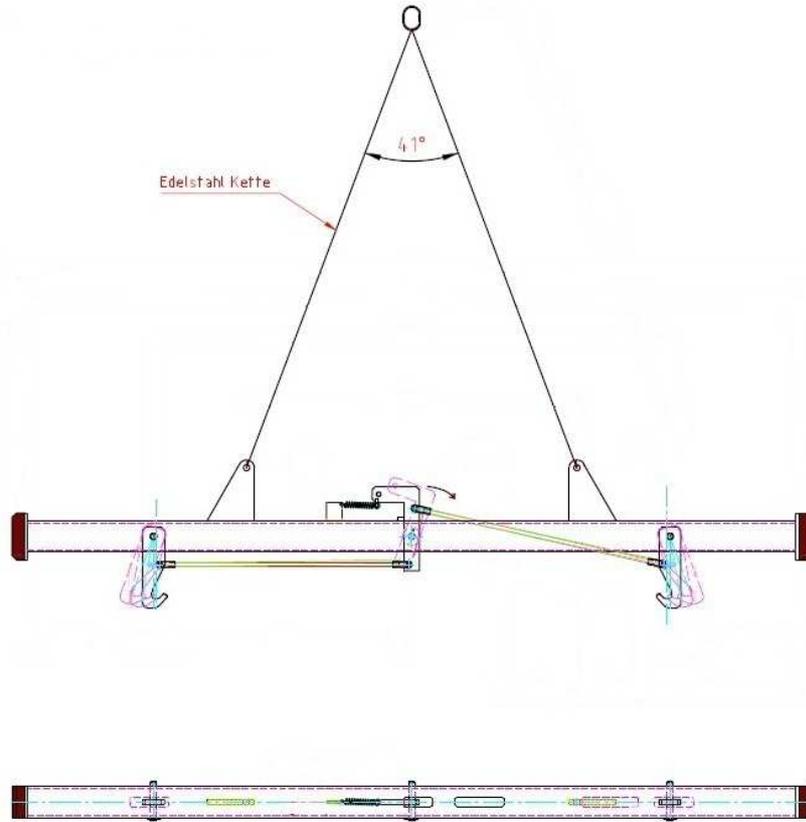


Fig. 01

Edelstahl Kette = Stainless steel chain

The load suspension device is supplied as a complete package comprising the following parts:

- Lifting beam, complete
- Operating instructions
- EU Declaration of Conformity

4 Technical data

Dimensions and weights		
Weight of load suspension device	kg	160
Max. load	kg	1400
Dimensions (L x W x H)	mm	2540 x 500 x 125

5 Transport and storage



Protect the product in transit and storage from knocks, vibrations, atmospheric exposure, extreme humidity and temperatures below 0°C and above +50°C.

These measures will help prevent mechanical damage.

When the product is out of use, take measures to prevent unauthorised use of the product in order to avoid damage and to prevent people from being put at risk.

6 Start of operation



Do not use the product for any purpose other than that specified in the operating instructions.

Any machines, equipment and devices which are not mentioned in these instructions may only be used in connection with the product if they are explicitly intended for this purpose and approved by the manufacturer by way of a document of compliance.

Please note that such machines, equipment and devices may enhance or complement the safety installations described in these instructions.

Only work with such machines, equipment and devices if you have read and understood the instructions for their usage. Follow the safety instructions in the operating manuals for all other machines, equipment and devices.

Otherwise you will put yourself at risk. The possible consequences include death, serious injury or extensive damage to property.

The product is an industrial product which has been designed and made for heavy duty and industrial use only.

The product may only be operated and manipulated by trained and duly skilled personnel.

The minimum age for operators is 18.

The owner must provide the operator with the operating instructions and ensure that the operator has read and understood them.

6.1 Risk awareness



Never modify the product or parts of the product without obtaining clearance from the manufacturer by way of a document of compliance.

Always check the product and all the fastening and lifting accessories for visible signs of damage before use.

The product must be taken out of use if it is found to be damaged.

Failure to do so can leave you exposed to uncontrollable risks.

There must be enough space to assemble the product and enough space to cordon off all the areas which are not included in the working zone. The exclusion zone must be an effective and reliable means of preventing anyone touching or being hit by moving parts.

There must be sufficient space to allow for an escape route.

There must also be a non-slip floor surface and sufficient lighting in the working zone.

6.2 Operation and control

6.2.1 Fitting the stop logs in the channel

- Position the traverse over the stop log.
- Lower the lifting beam slowly until it is resting on the stop log and until the hooks (Fig. 02) engage in the anchor bolts on the stop log (Fig. 03).



Fig. 02 (Lifting hook)



Fig. 03 (Anchor bolt on stop log)

- As the crane rises, a positive connection is formed between the lifting beam and the stop log (Fig. 04).



Fig. 04 (Lifting beam with stop log)

	DANGER
	Do not exceed the maximum load of 1400 kg.

	DANGER
	If the wrong lifting accessories are used, there is a risk that the suspension device will become detached from the crane hook.

- During the lifting process, make sure that the crane hook is always aligned vertically above the centre of gravity of the load.
- Make sure that there is sufficient clearance for the load when lifting it with the crane.
- Move the crane slowly and smoothly in order to prevent the load from rocking.
- Whenever possible, the load should only be moved near ground level (max. height of 1m).
- When the load has reached the required position, set it down slowly.
- Pull the chain to operate the release lever until the lifting hooks move out.
- Then move up out of the stop log.
- Detach the crane hook from the suspension device.
- Store the suspension device and lifting accessories in a safe place until they are needed again.

6.2.2 Removing the stop logs from the channel

- Lower the lifting beam slowly into the channel until it is resting on the stop log and until the hooks (Fig. 05) engage in the anchor bolts on the stop log (Fig. 06).



Fig. 05 (Lifting hook)



Fig. 06 (Anchor bolt on stop log)

- As the crane rises, a positive connection is formed between the lifting beam and the stop log (Fig. 07).



Fig. 07 (Lifting beam with stop log)

- Pull the chain to operate the release lever until the lifting hooks move out.
- Then move up out of the stop log.
- Detach the crane hook from the suspension device.
- Store the suspension device and lifting accessories in a safe place until they are needed again.

7 Maintenance and servicing

Regular servicing and careful monitoring and maintenance are essential for the operational reliability and long life of the load suspension device.

7.1 Safety information



The safety precautions, safety advice and hazard warnings set out in section 1.2 and section 2 must be heeded and adhered to in respect of the maintenance of the load suspension equipment.

Ensure **compliance with the accident prevention regulations!**

Repairs are to be carried out by **authorised and skilled professionals** only.

Parts from suppliers are to be serviced **as specified by the manufacturer** in any given case.

Keep transportation routes clear.

7.2 Repairs

Arrange for repairs to be carried out by authorised companies and duly qualified professionals only.

7.3 Servicing and inspection checklist



Cleaning and servicing work may only be carried out by trained professionals in compliance with the accident prevention regulations!

Disregard for the above stipulation can lead to physical injury or extensive damage to property!

Servicing work must never be carried out while loads are being lifted.

When / how often (minimum)	What needs to be done?
<ul style="list-style-type: none"> ▪ Annually ▪ Before and after every use ▪ After every use 	<ul style="list-style-type: none"> ▪ General visual check ▪ Check lifter for freedom of movement ▪ Clean and lubricate moving parts

Any further servicing work and inspections to be specified by the owner.

8 Structural alterations to the product

The consent of the manufacturer must be obtained before making any modifications to the load suspension device, fitting anything on it or making alterations to it. This also applies to welding on load-bearing parts.

Any modifications require the written approval of the manufacturer.

Externally sourced parts cannot be guaranteed to be appropriate for the type of duty and to meet the safety requirements in terms of their design and build.

9 Removal from service / recommissioning

9.1 Temporary removal from service



Store the suspension device in a safe place when it is not in service in order to prevent unauthorised use of the device and to prevent people from being put at risk.

9.2 Permanent removal from service and disposal



Hinweis

The product must be completely scrapped when it is finally taken out of service and disposed of.

The product can be dismantled into its constituent parts.

The parts can be recycled, disposed of in line with the local regulations or returned to the manufacturer.

Hinweis = Note

10 Additional information

10.1 Service centre address

Do you have any further questions or requests? Please do not hesitate to contact us.

Our company address is as follows:

IBS Industriebarrieren GmbH
Gemeindewald 4-5
D-86672 Thierhaupten

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Fax: 0049 - (0)8271 / 8176-76
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11 Appendix

Lifting beam assembly drawing

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