

Crane Pick-Up Spreader 2.5t
Item No. 105588



Instructions for Use

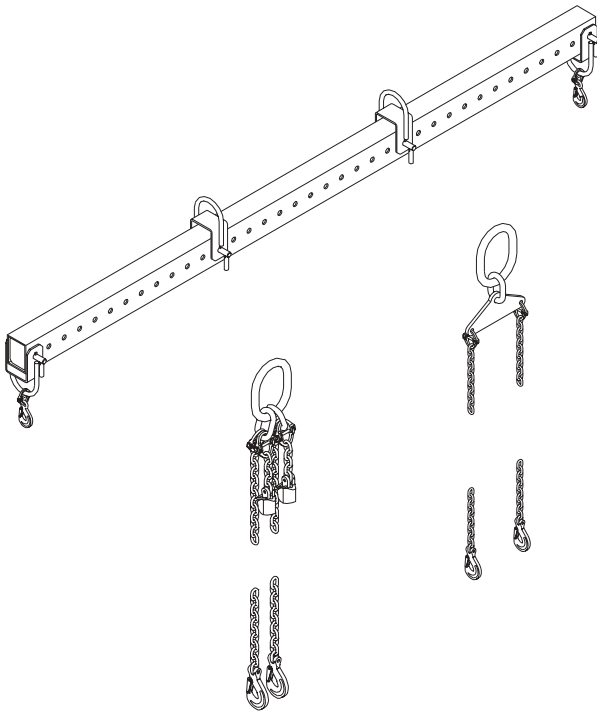
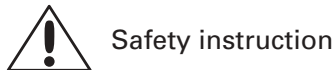


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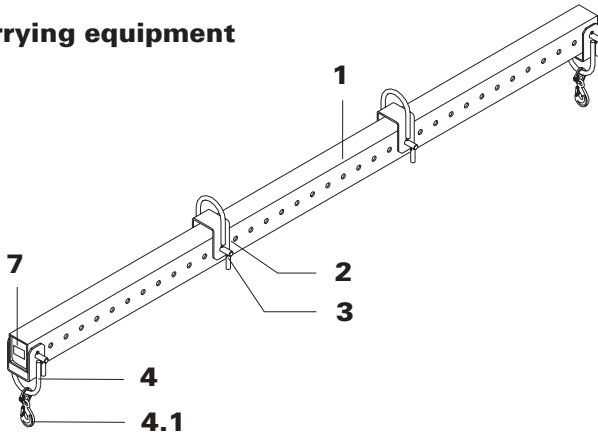
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Legend



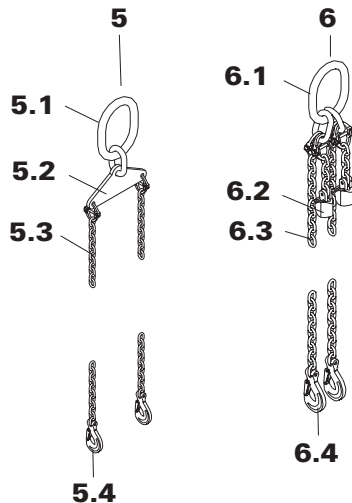
A1 Overview

Load-carrying equipment



- 1** Spreader beam
- 2** Spreader shoe
- 3** Spreader bolt
- 4** Spreader shoe with spreader hook
- 4.1** Spreader hook

Lifting gear



- 5** Lifting chains 2-sling
L = 3.50 m with compensator
- 5.1** Lifting eye
- 5.2** Compensator
- 5.3** Lifting chain
- 5.4** Lifting hook
- 6** Lifting chains 2-sling
L = 6.0 m (can be shortened)
- 6.1** Lifting eye
- 6.2** Chain shortening device
- 6.3** Lifting chain
- 6.4** Lifting hook

7 Type sticker

A2 Safety Instructions

- 1.** Only those persons with the necessary experience can be authorised by the contractor to operate the load-carrying equipment!
- 2.** The contractor must ensure that the PERI Instructions for Use is available and brought to the attention of those persons operating the load-carrying equipment!
- 3.** The crane pick-up spreader is to be used according to valid safety regulations together with appropriate care and attention!
- 4.** Do not exceed the maximum load-bearing capacity of the crane pick-up spreader!
- 5.** Always attach, transport and set down loads in such a way that the crane pick-up spreader and the load itself are not damaged!
- 6.** Move loads with the crane pick-up spreader only when there is no or very little wind! Ensure risk-free transport of loads at all times!
- 7.** Do not endanger any persons who are working in the area along which the load is being transported!
- 8.** The contractor must ensure that the crane pick-up spreader is kept in good working order, especially the lifting chains!
- 9.** Persons authorised to use the crane pick-up spreader must inform the contractor immediately in cases of obvious defects and deficiencies e.g. cracks, permanent deformations, breakage, missing labels!
- 10.** If there is any suspicion that the load-bearing capacity or function of the crane pick-up spreader has been adversely affected due to corrosion or any other particular occurrence, then it must be taken out of service!
- 11.** The contractor must ensure that all maintenance work carried out on the crane pick-up spreader is only carried out by qualified personnel!
- 12.** Before a crane pick-up spreader which has been repaired or taken out of service can be used again, it must be inspected and approved by qualified personnel! All defects and deficiencies must be immediately rectified!
- 13.** The crane pick-up spreader is to be stored and transported so that the load-bearing capacity and function are not negatively affected through environmental influences or any other effects!
- 14.** The contractor must ensure that the crane pick-up spreader undergoes regular checks and inspections!

A3 Intended Use

- 15.** Ensure that chains do not come into contact with sharp edges when being used to transport loads!
- 16.** Steel chains must not be twisted and must remain free of any knots!
- 17.** Twisted chains must be straightened before the next use!
- 18.** If a chain is wound around a load several times for lifting, ensure that no crossover of the chain occurs!
- 19.** After moving, make sure that the load is in a safe and secure position before detaching the chains!

These operating instructions contain details for the handling and approved use of the crane pick-up spreader 2.5t.

All valid safety and environmental regulations are to be observed wherever the crane pick-up spreader is used.

Only materials in good working order are to be used. A damaged crane pick-up spreader must be taken out of service and replaced.

Only PERI original components are to be used as spare parts.

The crane pick-up spreader can be used in temperatures ranging from -20° up to +60° C.

The crane pick-up spreader is classified as load-carrying equipment according to VBG 9a. See B2 for testing instructions.

The 2-sling lifting chains, 6.0 m (can be shortened) and 2-sling lifting chains with compensator $L = 3.50$ are lifting gear equipment according to VBG 9a.

The contractor is responsible for ensuring regular inspections are carried out according to VBG 9a.

A4 Load-bearing capacity

Load-bearing capacity 2500 kg



Max. lifting gear inclination angle $\alpha \leq 30^\circ$



- during force redirection on sharp edges (radii > 8 mm), the load-bearing capacity is reduced to 1600 kg.
- if the load to be carried is not directly attached to the lifting gear but instead the chains are only wrapped around, then appropriate measures must be taken to prevent the chains from slipping.

Load-bearing capacity 2500 kg $\alpha \leq 30^\circ$

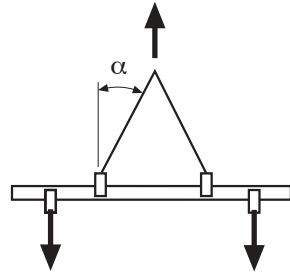


Fig. 1

Fig. 1

A5 Labelling

Type Sticker

Labelling according to VBG 9a § 4 and inspection certificate according to VBG 9a § 43*



Do not use the crane pick-up spreader if the type sticker is missing or is unreadable!

Arrange an inspection by qualified personnel and attach new sticker!

*Only valid for Germany!

Fig. 2

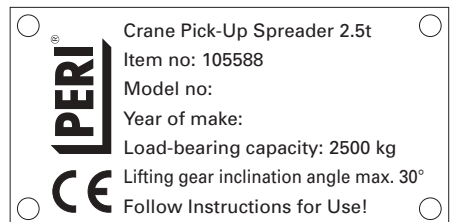
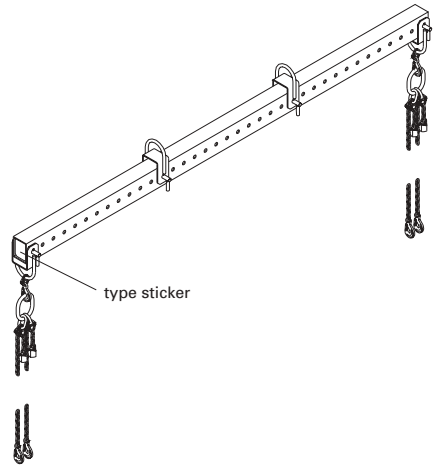


Fig. 2

A6 Application

6.1 Moving formwork elements using 4 lifting points



Observe bearing capacity of load-carrying equipment!

Requirements for carrying loads:

- lifting points on formwork element are symmetrically positioned to the centre of gravity axis **S**.
- lever **a** and the lifting gear inclination angle α have to be symmetrical.

Count number of drilled holes between the spreader bolts **3**.

- position spreader shoe **2** and spreader shoe with hook **4** symmetrically to the centre of gravity axis **S**.

Fig. 3



- lifting chains **5** are the same length, not twisted or tangled.
- during lifting, the Compensator must hang in a horizontal position.
- with extended formwork elements, the load capacity of connecting parts must be verified before lifting.

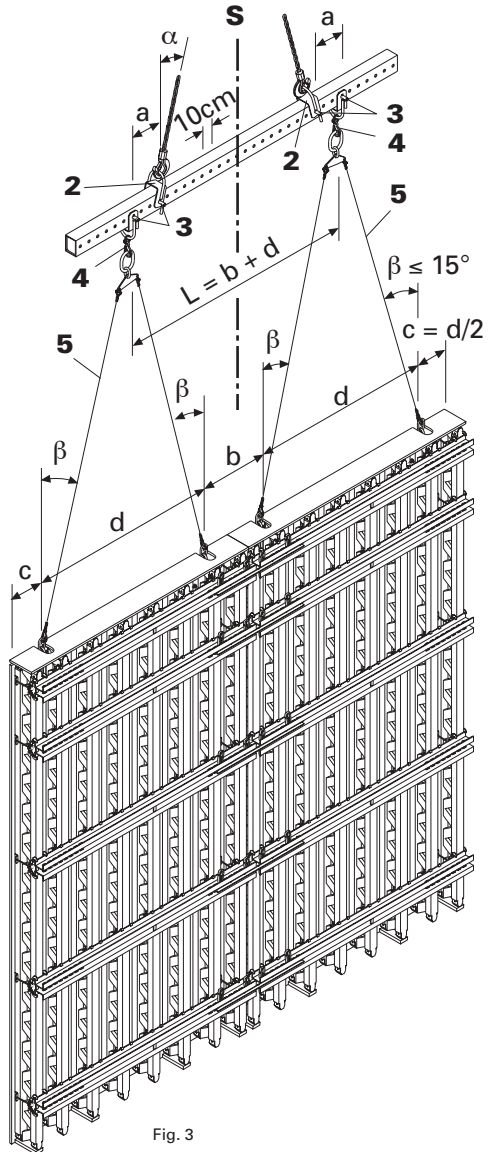


Fig. 3

A6 Application

6.2 Moving inclined climbing formwork units

Requirements for carrying loads: Work preparation

- determine position of centre of gravity **S**, see Table 6.4.
- determine position of spreader shoe **2** and of load introduction points **4**.
- determine length of chains.

On the construction site

1. Position spreader shoe **2** and load introduction points **4**.
2. Hang in lifting eye **6.1** in the spreader hook **4.1**.
3. Shorten chains, see **6.3**.
4. Attach crane pick-up spreader to spreader shoes **2**.



The crane pick-up spreader hangs horizontally.

Moving

1. Pivot crane pick-up spreader over the climbing formwork unit.
2. Loop lifting strap **7** around bracket and attach to lifting hooks. (Load-bearing capacity of lifting strap: min. $\frac{1}{2}$ platform weight)
3. Attach shortened chains **6.3** to V-strongback **8**. If necessary, adjust chains.
4. Move climbing formwork unit. Fig. 4

The inclination of the bracket **9** is 1° to 2° towards the direction of the formwork.

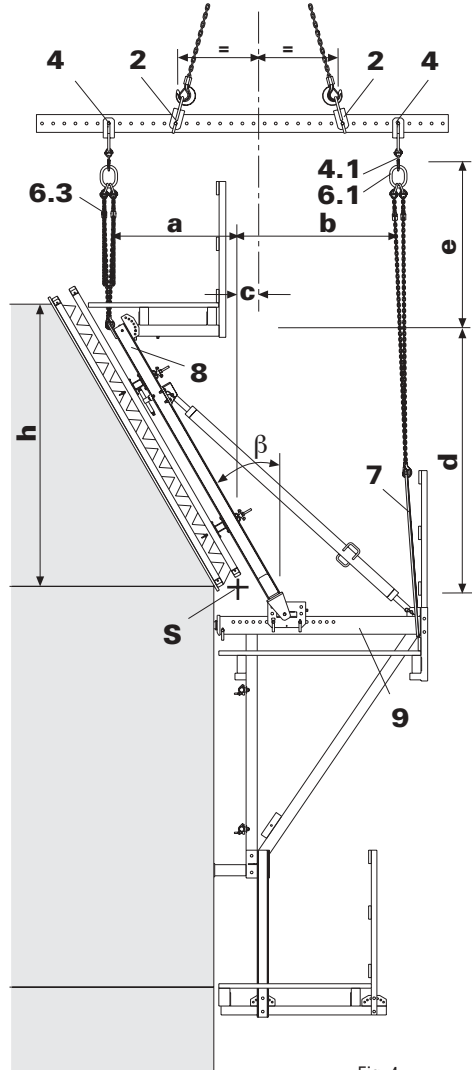


Fig. 4

A6 Application

Moving with timber brace

Timber brace **10** (min. 10/10 cm)
Fig. 5

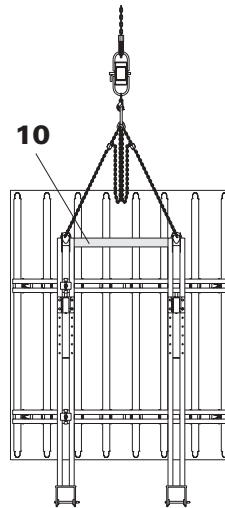


Fig. 5

6.3 Shortening chains



Observe lifting gear instructions of use!

1. Hang in chain link, Fig. 6a
2. Close safety clip, Fig 6b
3. Check length of chain

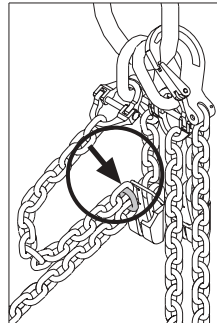


Fig. 6a

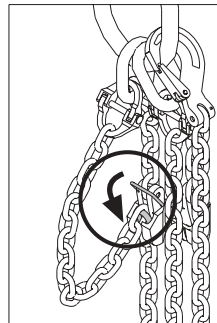


Fig. 6b

6.4 Table for determining the centre of gravity for inclined climbing formwork units

Table for SKS 180

Reference values for a 1.50 m width of influence (bracket spacing)

| Concreting height h | Inclination β | V-Strong-back | Dimension a | Dimension b | Dimension c |
|---------------------|---------------------|---------------|-------------|-------------|-------------|
| 2.00 m | 10° | Typ 2 | 0.51 m | 1.11 m | 2.50 m |
| | 20° | Typ 2 | 0.78 m | 1.21 m | 2.38 m |
| | 30° | Typ 3 | 1.21 m | 1.40 m | 2.71 m |
| 3.00 m | 10° | Typ 3 | 0.52 m | 1.19 m | 3.09 m |
| | 20° | Typ 4 | 1.09 m | 1.44 m | 3.88 m |
| | 30° | Typ 4 | 1.46 m | 1.65 m | 3.57 m |
| 4.00 m | 10° | Typ 4 | 0.58 m | 1.30 m | 4.08 m |
| | 20° | Typ 4 | 1.01 m | 1.52 m | 3.88 m |
| | 30° | Typ 4 | 1.35 m | 1.76 m | 3.57 m |

In all cases: Dimension c = approx. 0.20 m

Table 6.4a

Table for SKSF 240

Retract carriage

Reference values for a 1.50 m width of influence (bracket spacing)

| Concreting height h | Inclination β | V-Strong-back | Dimension a | Dimension b | Dimension c |
|---------------------|---------------------|---------------|-------------|-------------|-------------|
| 2.00 m | 10° | Typ 2 | 0.39 m | 1.43 m | 2.50 m |
| | 20° | Typ 2 | 0.70 m | 1.52 m | 2.38 m |
| | 30° | Typ 3 | 1.18 m | 1.72 m | 2.71 m |
| 3.00 m | 10° | Typ 3 | 0.41 m | 1.51 m | 3.09 m |
| | 20° | Typ 4 | 1.02 m | 1.76 m | 3.88 m |
| | 30° | Typ 4 | 1.43 m | 1.97 m | 3.57 m |
| 4.00 m | 10° | Typ 4 | 0.47 m | 1.62 m | 4.08 m |
| | 20° | Typ 4 | 0.93 m | 1.84 m | 3.88 m |
| | 30° | Typ 4 | 1.32 m | 2.09 m | 3.57 m |

In all cases: Dimension c = approx. 0.20 m

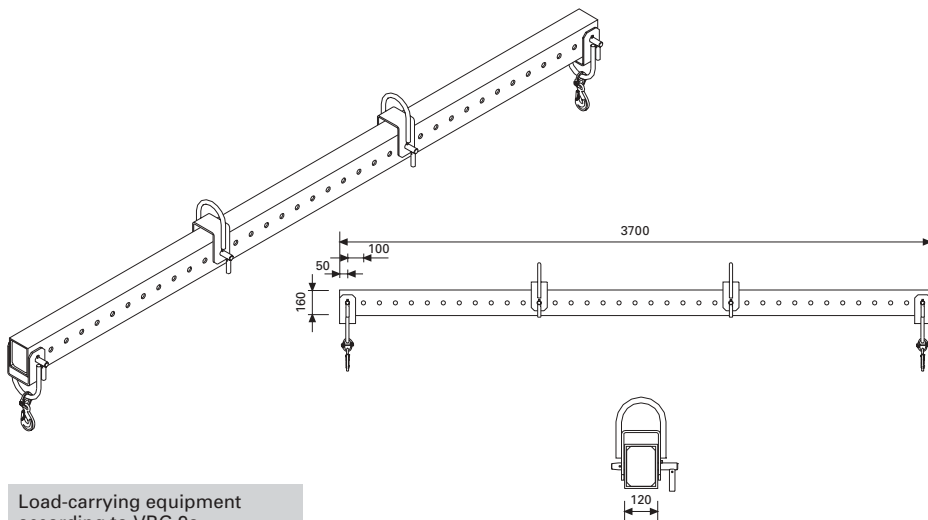
Table 6.4b

A7 Product Overview

Weight kg Item no.

Crane Pick-Up Spreader 2.5t

129,00 105588



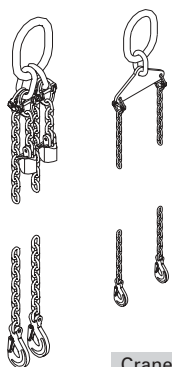
Load-carrying equipment according to VBG 9a
Load-bearing capacity: 2500 kg

Lifting Gear 2-Sling, 6m (can be shortened)

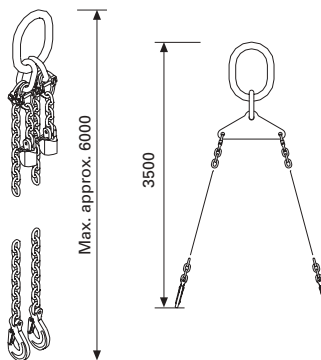
19,00 105585

Lifting Gear 2-Sling, L = 3.50 m with Compensator

7,50 106647



Crane slings according to VBG 9a



| Load-bearing capacity [kg] with angle of inclination | | | |
|--|--------|-------|--------|
| 0-45° | 45-60° | 0-45° | 45-60° |
| 2800 | 2000 | 2240 | 1600 |

This document is a english language
replica of the german original.



EC Declaration of Conformity **According to EC Directive 98/37/EG** **Appendix II A**

Hereby we declare that the following product conforms to the relevant, fundamental safety and health requirements of the concerned EG directive on the basis of its design and type of construction, as well as those design aspects we have implemented.

Any changes made to the product that are not co-ordinated with us results in this declaration losing its validity.

Crane Pick-Up Spreader 2.5t Item no. 105588

Relevant EC Directive:
EC Machine Directive 98/37/EC

Applied National Standards and Technical Specifications:
DIN 1055, DIN 4421, DIN 18800, DIN 15429, VBG 9a

Weissenhorn, 14 March 2003

Dipl.-Ing. Manfred Rathfelder
Head of Research & Development

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Germany

B2 Testing

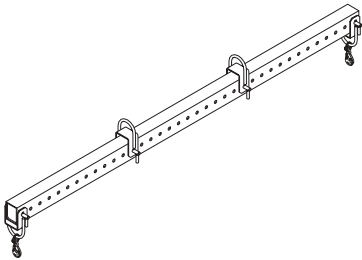
Instructions

1. Scope

These testing instructions apply to regular inspections and/or inspections carried out after a particular occurrence on the following load-carrying equipment which is manufactured and sold by PERI GmbH:

Description:

Crane Pick-Up Spreader 2.5t
Item no: 105588



2. Intended Purpose

Regular inspections of the load-carrying equipment will ensure that its operating safety and reliability is guaranteed and any possible accident risks are eliminated – subject to proper handling. Inspections must be carried out at regular intervals (in Germany, at least every 12 months!), According to the conditions of use, shorter intervals may be necessary.

3. Responsibility

The contractor (or his safety representative) is responsible for arranging regular safety inspections of the load-carrying equipment. Safety inspections on the load-carrying equipment must only be carried out by qualified and authorised personnel.

4. Procedures

4.1 Arranging Safety Inspections

The contractor arranges the inspection to take place at the manufacturer of the load-carrying equipment. Alternatively, the inspection can be done by an authorised service provider or by the contractor himself provided that a qualified inspector is available at the same time.

4.2 Implementation of the Inspection

The scope of testing includes a visual and functionality inspection. Implementation of an inspection exceeding normal requirements is subject to the discretion of the inspector and can extend to following inspections:

Visual inspection:

- all available parts
- worn and deformed parts
- cracks
- corrosion damage
- spreader hook
- bolts

Measures:

If any defects are found during the safety inspection, these must be rectified according to instructions given by the inspector. Afterwards, another inspection takes place.

Important: within the framework of maintenance work done on the load-carrying equipment, any welding work must be carried out by companies which possess the appropriate welding qualification certificate according to national and international regulations or standards.

In Germany: "Großer Eignungsnachweis" according to DIN 18800, Part 7, Paragraph 6.2. This is required according to DIN 15429.

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