

VIP Containerhaken > VCH 10 t / 12.5 t <



Assembly instruction

This safety instruction/declaration has to be kept on file for the whole lifetime of the product and forwarded with the product.
TRANSLATION OF THE ORIGINAL ASSEMBLY INSTRUCTION

This assembly instruction is valid in addition to the safety instructions for RUD Sling chains (ICE-No. 7995555 or VIP-No. 7101649).



VIP-Container hook
VCH-10 t / 12.5 t



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RUD-Art.-Nr.: 7908184-EN / V02 / 02.023



Simple inspection, administration and documentation of work equipment and components which must be inspected regularly

EG-Einbauerklärung

entsprechend der EG-Maschinenrichtlinie 2006/42/EG, Anhang II B und ihren Änderungen

Hersteller: **RUD Ketten
Rieger & Dietz GmbH u. Co. KG**
Friedensinsel
73432 Aalen

Hiermit erklären wir, dass die nachfolgend bezeichnete unvollständige Maschine den grundlegenden Anforderungen der Maschinenrichtlinie 2006/42/EG (Anhang 1) entspricht. Die nachfolgend bezeichnete unvollständige Maschine darf, in der gelieferten Ausführung erst dann in Betrieb genommen werden, wenn festgestellt wurde, dass die Maschine, in die diese unvollständige Maschine eingebaut werden soll, den Anforderungen der EG-Maschinenrichtlinie 2006/42/EG entspricht.

Produktbezeichnung: Containerhaken
VCH / CH

Folgende harmonisierten Normen wurden angewandt:

<u>DIN EN 1677-1 : 2009-03</u>	<u>DIN EN ISO 12100 : 2011-03</u>
_____	_____
_____	_____

Folgende nationalen Normen und technische Spezifikationen wurden außerdem angewandt:

<u>DGUV-R 109-017 : 2020-12</u>	_____
_____	_____
_____	_____

Die speziellen Unterlagen zur unvollständigen Maschine nach Anhang VII Teil B wurden erstellt und werden auf begründetes Verlangen in geeigneter Form übermittelt.

Für die Zusammenstellung der Konformitätsdokumentation bevollmächtigte Person:
Michael Betzler, RUD Ketten, 73432 Aalen

Aalen, den 01.06.2022 Hermann Kolb, Bereichsleitung MA

Name, Funktion und Unterschrift Verantwortlicher

EC-Mounting declaration

According to the EC-Machinery Directive 2006/42/EC, annex II B and amendments

Manufacturer: **RUD Ketten
Rieger & Dietz GmbH u. Co. KG**
Friedensinsel
73432 Aalen
Germany

We hereby declare that the following incomplete machines correspond to the basic requirements of the Machinery Directive 2006/42/EC (annex 1). The following incomplete machine, in the delivered machine, may only be put into operation when the machine in which the incomplete machine shall be assembled, has been tested according to the requirements of the EC-Machinery Directive 2006/42/EC.

Product name: Container hook
VCH / CH

The following harmonized norms were applied:

<u>DIN EN 1677-1 : 2009-03</u>	<u>DIN EN ISO 12100 : 2011-03</u>
_____	_____
_____	_____

The following national norms and technical specifications were applied:

<u>DGUV-R 109-017 : 2020-12</u>	_____
_____	_____
_____	_____

The special documents about the incomplete machine according to annex VII part B have been created and can be handed over in a suitable form on request.

Authorized person for the configuration of the declaration documents:
Michael Betzler, RUD Ketten, 73432 Aalen

Aalen, den 01.06.2022 Hermann Kolb, Bereichsleitung MA

Name, function and signature of the responsible person



Please read user instruction carefully before initial operation of VCH 10 t / 12.5 t. Make sure to understand all volumes. Non-observance of this user's manual can lead to serious physical injury and property damage and eliminates warranty.

1 Safety instructions



ATTENTION

Wrong assembled or damaged lifting means as well as improper usage can lead to physical injury and damage of property while failing. Inspect lifting means before each use carefully!

- Remove all body parts (fingers, hands, arms etc.) from the danger zone during the lifting process (risk of crushing).
- The VIP-Container hook VCH 10 t / 12.5 t must only be used by competent and trained persons, considering the DGUV 109-017, and outside Germany acc. to the country specific requirements.
- Use VCH 10 t / 12.5 t only at an angle bigger than 30° and up to 60° at the max. A self-release during the lift is hereby not possible.
- Please observe the correct WLL correlation.
- No technical modifications must be made to the VCH 10 t / 12.5 t.
- No persons are allowed in the danger zone.
- Consider extreme circumstances or shock loading when choosing the utilised product.
- Staying under suspended loads is prohibited.
- Ensure a stable position of the load during lifting. Swinging must be avoided.
- Damaged or worn VCH 10 t / 12.5 t must not be used.
- The lifting of persons is not allowed.

2 Intended use

VIP container hooks VCH 10 t / 12.5 t must only be used for the manufacturing or assembly of lifting means in combination with chains and components of the corresponding WLL. They are intended to be used as end fittings for the connection with ISO Container edges. VCH 10 t / 12.5 t must only be used only at an angle bigger than 30° and up to 60° max. The VIP-Container hook VCH 10 t / 12.5 t must only be used in the here described usage.

3 Assembly- and instruction manual

3.1 General information

- Capability of temperature usage:
When used in temperatures higher than 200°C the WLL of the VIP-Container hook VCH 10 t / 12.5 t must be reduced as follows

-40°C up to 200°C	no reduction
200°C up to 300°C	minus 10 %
300°C up to 400°C	minus 25 %

 Temperatures above 400°C are prohibited!
- If used in combination with ICE-slings, WLL-parameters of the ICE-program must be observed.
- VIP-Container hook VCH 10 t / 12.5 t must not be used together with aggressive chemicals, acids and vapours.

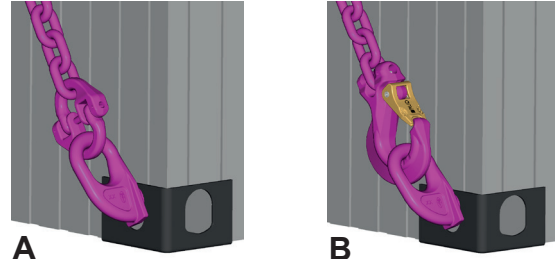
3.2 Hints for the assembly

At the VIP container hook VCH 10 t / 12.5 t VIP chains can be connected by using the following components:

- VIP connecting link VVS 16 (Pic. 1 - A)
- VIP end fitting f.e. VIP-Cobra clevis hook VCGH 16 (Pic. 1 - B)

At the VIP container hook VCH 12.5 t also ICE chains can be connected by using the following components:

- ICE-connecting link IVS 16 (Pic. 1 - A)
- ICE-Star-Hook ISH 16 (Pic. 1 - B)



Pic. 1:

A: VCH 10 t / 12.5 t with VVS 16 / IVS 16

B: VCH 10 t / 12.5 t with VIP-Cobra hook / ICE-Star-Hook



HINT

Please pay attention to the correct WLL classification during selection and assembly.

3.3 Hints for the usage

- Control frequently and before each operation the total lifting mean in regard of ongoing ability, strong corrosion, wear, deformation etc. (see chapter 4 Inspection / Repair / Disposal).



ATTENTION

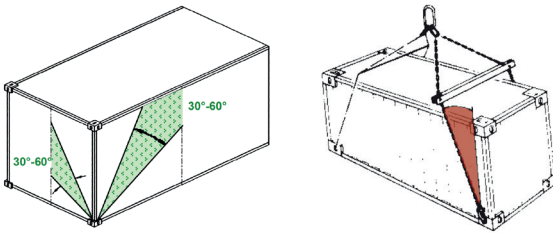
Wrong assembled or damaged lifting means as well as improper usage can result in serious physical injury and property damage when load drops. Inspect lifting means before each use carefully!

- In accordance with DIN EN 818 and DIN EN 1677, RUD components are designed for a dynamic load of 20,000 stress cycles.
 - Please note that during one lifting process there might be several stress cycles.
 - Please note that due to the high dynamic load with high numbers of stress cycles there is the risk of damage to the product.
 - The BG/DGUV recommends: At high dynamic load with high stress cycles (permanent operation), the working load must be reduced according to the engine group 1Bm (M3 according to DIN EN 818-7). Use a lifting mean with a higher working load limit.
- The VCH 10 t / 12.5 t is **not designed** to be used for **vertical lifts** of ISO-Containers.
- Use VCH 10 t / 12.5 t **only** at an angle **bigger than 30° and up to 60° at the max.** A self-release during the lift is hereby not possible.



HINT

Usage outside this angle range is prohibited (see Pic. 2).



Pic. 2: Field of application between 30° and 60°

- Make sure that the VCH 10 t / 12.5 t is locked in the ISO-container edges when container will be lifted.
- Leave hazardous area when possible.
- Watch always your attached loads.
- Read for the complete lifting mean RUD sling chain safety instructions.

4 Inspection / Repair / Disposal

4.1 Hints for the regularly inspection

The operator has to determine and dictate the necessary inspection periods and the deadlines by a risk assessment (see sections 4.2 and 4.3).

The persisting appropriateness of the lifting mean must be checked by a competent person (auditor) at least once per year.

Depending on the conditions of use e.g. frequent use, increased wear or corrosion, it may be necessary to carry out inspections at shorter intervals than once per year. A verification is also required following damage and after special events. The operator must specify the test cycles.

Use only original RUD replacement parts and enter the repairs carried out in the chain index card (of the complete lifting means) and use the AYE-D.NET system.

4.2 Inspection criteria for the regularly examination carried out by the operator

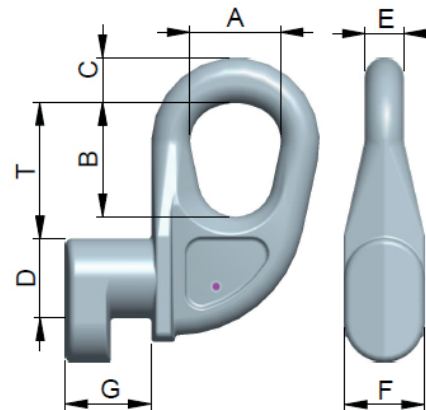
- readable size and manufacturer sign
- mechanical damage like strong notches, especially in areas where tensile stress occurs
- Reduction of cross section caused by wear > 10 %, especially at the connection, and at the eye of the shackle.

4.3 Additional inspection criteria for the competent person resp. auditor

- Cracks or other damage.
- Additional inspections may be necessary depending on the result of the risk assessment (e.g. incipient cracks at load bearing parts).

4.4 Disposal

Dispose worn out components / attachments or packaging according to the local waste removal requirements.



Pic. 3: VCH 10 t / 12.5 t Dimensioning

Denomination	WLL [t]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	weight [kg./pc]	Ref.-No.
VCH 10 t*	10	56	70	28	50	24	50	45	3	51005
VCH 12.5 t	12.5	56	70	28	50	24	50	53	3.1	7908182

Table 1: Dimensioning

* Discounted part which will be replaced by 7908182 VCH 12.5 t
Technical alterations subject to change