

spreader bar VSRS / VSRV

Safety instruction

The safety instruction/ declaration of the manufacturer has to be kept on file for the whole lifetime of the product and forwarded with the product.

Translation of the original instruction.



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RUD-EN-S-Nr: 7906975 / V02 / 02.023



spreader bar VSRS / VSRV



EG-Konformitätserklärung

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

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

Hiermit erklären wir, dass die nachfolgend bezeichnete Maschine aufgrund ihrer Konzipierung und Bauart, sowie in der von uns in Verkehr gebrachten Ausführung, den grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Maschinenrichtlinie 2006/42/EG sowie den unten aufgeführten harmonisierten und nationalen Normen sowie technischen Spezifikationen entspricht.
Bei einer nicht mit uns abgestimmten Änderung der Maschine verliert diese Erklärung ihre Gültigkeit.

Produktbezeichnung: Strebe (ohne Gehänge)
VSRV / VSRS

Folgende harmonisierten Normen wurden angewandt:

DIN EN 1677-1 : 2009-03 DIN EN ISO 12100 : 2011-03

Folgende nationalen Normen und technische Spezifikationen wurden außerdem angewandt:

DGUV-R 109-017 : 2020-12 DIN 15428 : 1978-08

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-Declaration of conformity

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

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

We hereby declare that the equipment sold by us because of its design and construction, as mentioned below, corresponds to the appropriate, basic requirements of safety and health of the corresponding EC-Machinery Directive 2006/42/EC as well as to the below mentioned harmonized and national norms as well as technical specifications.
In case of any modification of the equipment, not being agreed upon with us, this declaration becomes invalid.

Product name: Spreader bar
VSRV / VSRS

The following harmonized norms were applied:

DIN EN 1677-1 : 2009-03 DIN EN ISO 12100 : 2011-03

The following national norms and technical specifications were applied:

DGUV-R 109-017 : 2020-12 DIN 15428 : 1978-08

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 before initial operation of the spreader bar. Make sure that you have comprehend all subjected matters.

Non observance can lead to serious personal injuries and material damage and eliminates warranty.

1. Safety instructions



ATTENTION

Wrong assembled or damaged spreader bars as well as improper use can lead to injuries of persons and damage of objects when load drops.

Please inspect all spreader bars before each use.

- Remove all body parts (fingers, hands, arms, etc.) out of the hazard area (danger of crushing or squeezing) during the lifting process.
- No technical alterations must be implemented on the spreader bar.
- No people may stay in the danger zone.
- Jerky lifting (strong impacts) should be prevented.
- Always ensure a stable position of the load when lifting. Swinging must be prevented.
- Damaged or worn spreader bars must never be utilised.
- You must follow these operating instructions!
- Follow the notes specified in the operating instructions to ensure that the load-suspension equipment achieves its transportation tasks.

2. Intended use

The support must be used only to attach and lift (transport) loads.

The spreader bars must only be used in the here described usage purpose.

3. The following is not permitted:

- The permitted load capacity must not be exceeded
- Persons must not be lifted
- Persons must not stand underneath the suspended load
- The load must not be dragged
- Fixed and jammed loads must not be broken away using a crane
- The load-suspension equipment must not be subject to shocks or impacts
- Heat treatment or welding work on the load-suspension device is not permitted
- The equipment must not be used under exposure to acids, alkalis and their vapours

4. General provisions

- EU Machinery Directive, see Directive 2006/42/EC
- German industrial safety regulations (Betriebs-sicherheitsverordnung – BetrSichV)
- German workplace guidelines for health and safety at work (“Berufsgenossenschaftliche Vorschrift für Sicherheit und Gesundheit bei der Arbeit” BGV A1)
- „Operation of load-suspension equipment in lifting operations (“Betreiben von Lastaufnahme-einrichtungen im Hebezeugbetrieb” DGUV-rules 109-017 (German social accident insurance (DGUV rules 109-017)
- Standard DIN EN 13155 “Crane - Non-Fixed Load Lifting Attachments”

5. Commissioning

- Ensure that the loading bearing equipment is tested by a specialist before the initial commissioning.
- Check whether the manufacturer’s certificate and declaration of conformity are available.
- Before using the support, fit a suitable 2-strand lashing chain to the top connecting components and suitable chains with terminal components to the bottom connecting parts. You must especially ensure that the load carrying capacity and quality grade of all of the chains and terminal components are correct.

6. Usage

- Always regularly observe the appearance of the whole loading bearing equipment before using it (strong corrosion, cracks on load-bearing parts, deformations). Refer to chapter 7 Inspection / repair.



ATTENTION

Wrong assembled or damaged spreader bars as well as improper use can lead to injuries of persons and damage of objects when load drops.

Please inspect all spreader bars before each use.

- RUD components are designed according to DIN EN 818 and DIN EN 1677 for a dynamic load of 20,000 load cycles.
 - Keep in mind that several load cycles can occur with a lifting procedure.
 - Keep in mind that, due to the high dynamic stress with high numbers of load cycles, that there is a danger that the product will be damaged.
 - The BG/DGUV recommends: For higher dynamic loading with a high number of load cycles (continuous operation), the working load stress must be reduced according to the driving mechanism group 1Bm (M3 in accordance with DIN EN 818-7).
Use a loading bearing equipment with a higher working load limit.

- Only trained and instructed personnel are permitted to operate the load-suspension equipment.
- When using load-suspension equipment, you must comply with the provisions of DGUV rules 109-018, the German industrial safety regulations (BetrSichV), BGV A1 and the relevant country-specific provisions (outside of Germany).
- When attaching loads, ensure that the load's centre of gravity is below the suspension point on the crane.
- When attaching the load, ensure that the chain strands are not twisted and their edges are not subject to loads.
- Observe the maximum load bearing capacity of the load-suspension equipment, which is noted on the type plate.
- Observe the maximum load bearing capacity of the connection elements that are used (chains, wire ropes, etc.).
- The use of the VSRS/VS RV load-suspension equipment is restricted to a temperature range of -20°C to +100°C at full load-bearing capacity.
- Only parts with symmetrical loads can be attached, otherwise the load and load-suspension equipment is imbalanced and there is a risk that the load may slip out.
- The load must be symmetrically attached to at least 3 hooks on the spreader bar.
- When attaching the load, the crane and lifting hooks and the points of force introduction on the load-suspension equipment must be arranged vertically and symmetrically above the load's centre of gravity so that the load does not swing when it is lifted.

7. Inspection / repair

7.1 Hints for periodical inspections

The operator must determine and specify the nature and scope of the required tests as well as the periods of repeating tests by means of a risk assessment (see sections 7.2 and 7.3).

Load-suspension equipment must be tested by a specialist at least once a year in accordance with DGUV rules 109-017 and, when outside Germany, in accordance with the applicable provisions in the relevant country.

Additional tests may be required depending on the conditions of use and operating conditions (f.e. frequent usage, increased wear or corrosion) or as extraordinary testing in accordance with the German regulations for operating load-suspension equipment in lifting operations ("Betreiben von Lastaufnahmeeinrichtungen im Hebezeugbetrieb" DGUV rules 109-017).

The inspection has also to be carried out after accidents and special incidents.

7.2 Test criteria for the regular visual inspection by the user

- Completeness of the spreader bar
- Complete, readable WLL statements as well as manufacturer sign
- Deformation at load bearing components
- Mechanical damage, like strong notches, especially in areas where tensile stress occurs

7.3 Additional test criteria for the competent person / repair worker

- Reduction of cross-section due to wear >10 %
- strong corrosion
- further checks may be required, depending on the result of the risk assessment (e.g. testing for cracks in load-bearing parts).



HINT

Wrong assembled or damaged lifting means as well as improper use can lead to personal injury or property damage when load falls down.

8. Maintenance

- Wear and standard parts that are easy to change can be replaced by the operator in accordance with the manufacturer's instructions. Only original RUD parts can be used!
- Changes and modifications can be performed only with the written approval of the manufacturer!

9. Repairs and maintenance

- Repair work can be performed only by specialists in accordance with the manufacturer's instruction.
- Plastically deformed components must generally be replaced by requirement of the manufacturer's user declaration. In this case of overloading an inspection of the weld seams in regard of cracks must be carried out by using a magnetic particle inspection (EN 473, EN 960).
- It's only allowed to use original RUD- spare parts.

10. Storage

Please store lifting means safely, and protect them against atmospheric exposures and aggressive media.

11. Disposal

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

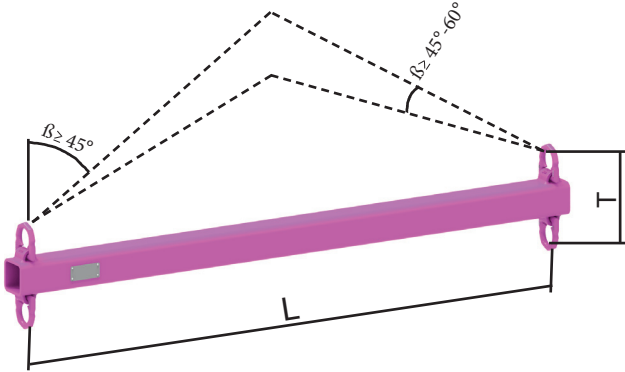
VIP- bar VSRS							
							
chain	designation	usable length L	T	Working load limit WLL		bar [kg/pc.]	article-no.
				0-45°	45°-60°		
6	VSRS-6	500-4000 mm	190	2100	1500	depends on usable length L	8600110
8	VSRS-8	500-5000 mm	240	3500	2500		8600111
10	VSRS-10	500-5000 mm	320	5600	4000		8600112
13	VSRS-13	1000-5000 mm	350	9500	6700		8600113
16	VSRS-16	1000-5000 mm	250	14000	10000		8600114
20	VSRS-20	1000-5000 mm	285	22400	16000		8600115
22	VSRS-22	1000-5000 mm	290	28.000	20000		8600116

table 1

Subject to technical alterations.

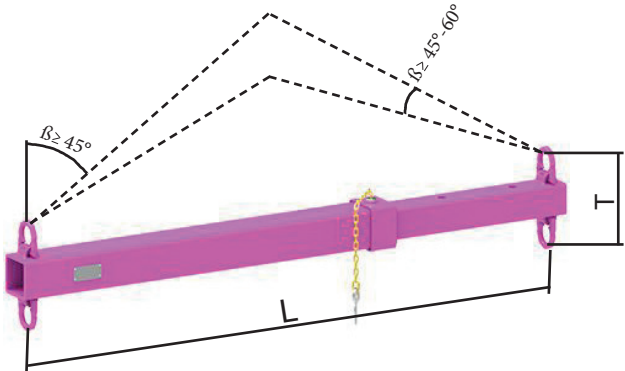
VIP- bar VSRV							
							
chain	designation	usable length L	T	Working load limit WLL		bar [kg/pc.]	article-no.
				0-45°	45°-60°		
6	VSRV-6	1500-4000 mm	190	2100	1500	depends on usable length L	8600120
8	VSRV-8	1500-4000 mm	240	3500	2500		8600121
10	VSRV-10	1500-4000 mm	320	5600	4000		8600122
13	VSRV-13	1500-4000 mm	350	9500	6700		8600123
16	VSRV-16	1500-4000 mm	250	14000	10000		8600124
20	VSRV-20	1500-4000 mm	285	22400	16000		8600125
22	VSRV-22	1500-4000 mm	290	28.000	20000		8600126

table 2

Subject to technical alterations.

**ATTENTION!**

Size 6-13 mm: VLBS for upper and lower connection.

Size 16-22 mm: steel sheet for VV-GSCH assembling for upper and lower connection.