RoRo Lashing Point

boltable 6000 daN

EN

Instruction handbook

These instructions handbook has to be kept on file for the whole lifetime of the product and forwarded with the product.
TRANSLATION OF THE ORIGINAL INSTRUCTIONS



RoRo Lashing Point
boltabel 6000 daN

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RUD Art. No.: 7902515-EN / V04 / 03.026

Herstellererklärung

Hiermit erklären wir (unterstützt durch die Zertifizierung nach ISO 9001), dass die nachfolgend bezeichnete Ausrüstung aufgrund ihrer Konzipierung und Bauart, sowie der von uns in Verkehr gebrachten Ausführung, den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der Europäischen Union entspricht. Bei einer nicht mit uns abgestimmten Änderung der Ausrüstung verliert diese Erklärung ihre Gültigkeit. Weiterhin verliert diese Erklärung ihre Gültigkeit, wenn die Ausrüstung nicht entsprechend den in der Betriebsanleitung aufgezeigten bestimmungsmäßigen Fällen eingesetzt wird.

Hinweis: Beim Zurrpunkt angewendete harmonisierte Normen DIN EN ISO 12100 T1 und T2 sowie in Anlehnung an EN 1677.

Bezeichnung der Ausrüstung: Zurrpunkt

Type: Ro/Ro-Zurrpunkt schraubbar 6000 daN

Herstellerzeichen:

Declaration of the manufacturer

We hereby declare (supported by ISO 9001 certification), that the following described equipment based on the concept and design as well as the by us manufactured type corresponds to the current valid Health- and Safety Requirements of the EU. This declarations becomes invalid in case of any modifications not agreed upon with us. Furthermore this declaration becomes invalid if the equipment is not used according to this prescription.

Hint :Utilized harmonized standards for this Lashing Point DIN EN 12 100 T1 and T2 as well as EN 1677..

Designation of the equipment: Lashing point

Type: Ro/Ro-Lashing Point boltable 6000 daN

Manufacturer‘s sign:

Read the operating instructions thoroughly before using the RUD RoRo Lashing Point. Make sure you have understood everything.
Failure to observe the instructions can result in physical injury or material damage and means that the warranty no longer applies.

1 Safety notes

WARNING
If lashing points are wrongly mounted, damaged or incorrectly used, this can result in physical injury and material damage.
Always check all lashing points carefully prior to each use.

- The RoRo Lashing Point may be loaded only within the range specified in EN 29367-2 (see *Pic. 1* and *Pic. 2*).
- In the resting position, lashing points must not protrude beyond the level of the loading surface.
- The RUD RoRo Lashing Point may be used only by authorised and trained persons in adherence to DGUV 109-017 and outside Germany, observing the relevant specific national regulations.

2 Proper use

The RUD RoRo Lashing Point may be used only for the attachment of lashing systems.

The RUD RoRo Lashing Point may be used for the purposes described in standard EN 29367-2 (Lashing and securing arrangements on road vehicles for sea transportation on RoRo ships, General requirements, Part 2: Semi-trailers).

The RUD RoRo Lashing point may also be used for general lashing purposes with an LC = 6000 daN.

The RUD RoRo Lashing Point may not be used for lifting loads.

3 Instructions for installation and use

3.1 General information

- Permissible temperature range during use:
  the RoRo Lashing Point may be used at temperatures from -20°C to 100°C.
- The RUD RoRo Lashing Point must never be brought into contact with aggressive chemicals, acids or their vapours.
- Mark the attachment positions of the RoRo Lashing Point with a contrasting colour for easy identification.

3.2 Installation instructions

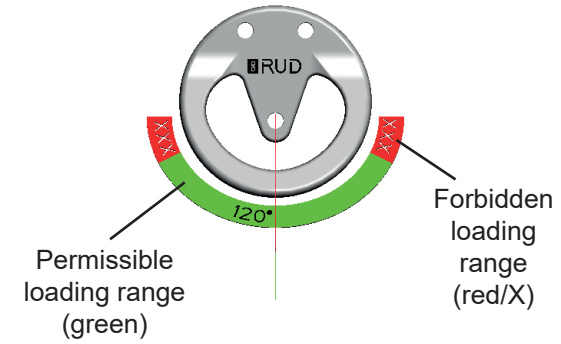
The following applies in general:

- The attachment point for the RoRo Lashing Point should be selected carefully to ensure that the transferred forces can be absorbed by the base material without any deformation.
- Determine the number and arrangement of RoRo Lashing Point in accordance with EN 29367-2.
- Use three M12 bolts, quality grade 10.9, to fix the RoRo Lashing Point to the designated location.
- Secure the bolts to prevent them from loosening over time.

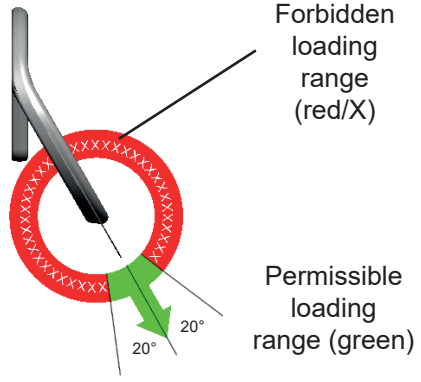
NOTE
We recommend the use of NORD-LOCK lock washers (follow the manufacturer's instructions).

- Tighten the three M12 bolts with a tightening torque of 70 Nm using a suitable tool.
- Finally, check to ensure that the unit is properly installed (see Section *4 Inspection / Repair / Disposal*).

3.3 Permissible loading directions



Pic. 1:



Pic. 2:

3.4 Instructions for use

- Check the entire lashing point at regular intervals and each time it is put into service to ensure that it is still suitable for use as a lashing system, that the bolts are still tightened, and to identify any severe corrosion, deformation etc. (see Section *4 Inspection / Repair / Disposal*).

CAUTION
If lashing points are wrongly mounted, damaged or incorrectly used, this can result in physical injury and material damage.
Always check all lashing points carefully prior to each use.

- Note that the lashing system must be able to move freely in the RUD RoRo Lashing Point. When attaching and removing the lashing system (e.g. lashing chain), crushing, shearing, trapping and impact points must be prevented.
- Prevent damage being caused to the lashing system by sharp-edged loads.
- Lashing points must never be used for lifting loads.

4 Inspection / Repair / Disposal

4.1 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 *4.2* and *4.3*).

The continuing suitability of the lashing point must be checked at least 1x year by an expert.

Depending on the usage conditions, f.e. frequent usage, increased wear or corrosion, it might be necessary to check in shorter periods than one year. The inspection has also to be carried out after accidents and special incidents.

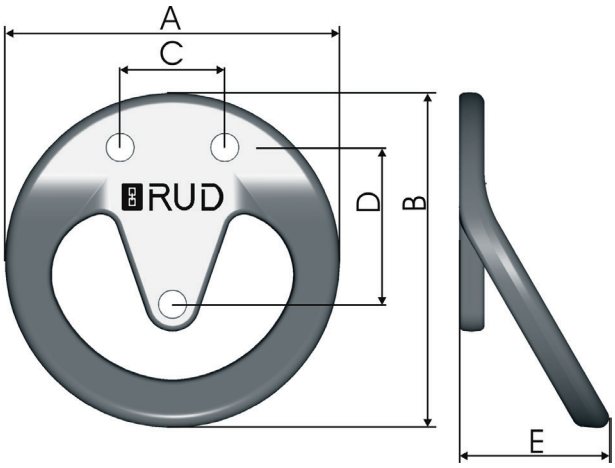
The operator must specify the test cycles.
Only use original RUD spare parts.

4.2 Test criteria for the regular visual inspection by the user

- Check that the lashing point is complete.
- Check that the bolt size and quality grade and the length of thread engagement are correct.
- Check that the bolts are fitted securely and check the tightening torque.
- Check that the manufacturer's marking is present.
- Check for deformation of load-bearing parts such as lashing rings and bolts.
- Check for mechanical damage such as significant indentations, particularly in areas subject to tensile stress.

4.3 Additional test criteria for the competent person / repair worker

- Check whether there are changes in cross-section due to wear > 10 %.
- Check for severe corrosion (pitting corrosion).
- Check that the bolts and bolt threads function properly and are not damaged.
- Further checks may be required, depending on the result of the risk assessment (e.g. testing for cracks in load-bearing parts).



Pic. 3:

Designation	LC [daN]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	3x bolt	Weight [kg/pc.]	Art. no. without bolt	Art. no. with bolt
RoRo Lifting Point boltable 6000 daN	6000*	160	160	50	75	72	M12x50 (7900944)	1.6/1.8	7994086	7997726

Table 1: Dimensions

The right to make technical changes is reserved.

** Static test load in accordance with EN 29367-2, Section 4.6.3 = 120 kN*