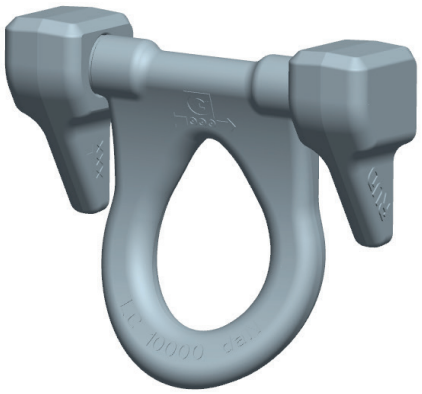
Star **L**ashing **P**oint
SLP

EN

Safety instructions

This safety instruction/declaration of the manufacturer has to be kept on file for the whole lifetime of the product.

Translation of the Original instructions



Star **L**ashing **P**oint **SLP** - for welding

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Declaration of the manufacturer

We hereby declare (supported by certification as per ISO 9001) that the equipment, as mentioned below, corresponds to the appropriate, basic requirements of safety and health of the corresponding European Union in the design as it is sold by us because of its design and construction. In case of any modification of the equipment, not being agreed upon with us, this declaration becomes invalid. Furthermore, this declaration will become invalid if the equipment is not used according to the prescriptions mentioned in the manual.

Hint: Applied standards: DIN EN ISO 12100 T1 and T2 in particular EN 1677.

Designation of the equipment:
Star lashing point -
Lashing point - for welding

Type: **SLP**

Manufacturer‘s sign:

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:
Star lashing point -
Zurrpunkt schweißbar

Type: **SLP**

Herstellerzeichen:

Before initial usage of the RUD weld-on lashing point SLP, please read carefully the safety instructions. Make sure that you have understood 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 weld-on lashing points SLP as well as improper use can lead to injuries of persons and damage of objects when load drops.
Please inspect all lashing points before each use.

- RUD Lashing points must not be used for lifting loads.
- RUD weld-on lashing points SLP must only be used by instructed and competent persons considering BGR 500 (DGUV 100-500) and outside Germany noticing the country specific statutory regulations.

2 Intended use of the SLP

- RUD Lashing points must not be used for lifting loads.
- Furthermore the RUD lashing point SLP must only be loaded up to the mandated LC= Lashing capacity.
- Loading from any side is permitted.
- RUD weld-on lashing points SLP must only be used in the hereby described operation purpose.

3 Assembly- and instruction manual

3.1 General information

- Capability of temperature usage:

  When used at higher temperatures the working load limit (WLL) of the lashing point 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 %

- Please mark mounting position of lashing point with a coloured contrast paint for better visibility.
- Determine the required, permitted Lashing Capacity acc. EN 12 195-1 „Load securing devices on road vehicles“ - calculation of Lashing Capacities and acc. VDI 2700. **RUD-Lashing Points are marked at the welding block with the permitted lashing capacity „LC“ in daN.**

3.2 Hints for the assembly

Basically essential:

- The material construction to which the lashing point will be attached should be of adequate strength to withstand forces during lashing without deformation.
  The weld-on material must be suitable for welding and the contact areas must be free from impurities, oil, colour, ect. The material of the forged welding block is S355J2+N (1.0577+N (St52-3).

HINT
The Lashing link of SLP is identificated with Lashing Capacity „LC“ in daN.

- The quantity and the arrangement of the Lashing Points on vehicles have to be determined acc. EN 12640 or EN 75410 (for RoRo traffic; Roll-on - Roll-off) as long as the vehicles are not designated acc. their design and mechanism for the transport of specific goods with special demands for load securing.

HINT
The Lashing Points shall be arranged aswide as possible to use the full loading area and they should not protrude in steady position.
After use, the suspension ring must be positioned to the bottom.

- Execute the position of the Lashing Points with the load in such a way that unacceptable stress like twisting or tilting will be avoided.

ATTENTION
Lashing Points must not be used for Lifting of loads.

3.3 Hints for the welding

- The welding should only be carried out according to ISO 9606-1 or AWS Standards by an authorized welder.
- The evidence of the suitability of the used weld metal must be mentioned by the respective filler material manufacturer.

HINT
- *Don‘t weld at the quentched and tempered suspension ring.*
- *Weld all seams in the same temperature.*

1. Position the SLP into the designated recess at the vehicle frame.
2. Append weld-on blocks and check function of the ring. The ring must be able to pivot 225°. If necessary please correct.
3. Weld blocks on. Choose type of weld seam and size according to picture 2.
4. Please check by a competent person after welding the ongoing usage of the weld-on lashing point (see chapter 4, Inspection criteria).

- By the position of the weld-seam (HY+◺ continuousfillet weld seam) the following requirements will be observed: DIN 18800 steel constructions requires: at outdoor buildings or when strong corrosion must be expected weld seams must be carried out as continuous fillet weld seams.

3.4 User instructions

- Before each usage please check the Lashing Points in regard of cracks within the weld seam, strong corrosion, wear, deformations etc. (see section 4 Instection criteria).

ATTENTION
Wrong assembled or damaged weld-on lashing points SLP as well as improper use can lead to injuries of persons and damage of objects when load drops.
Please inspect all lashing points before each use.

- The Lashing device must be free moveable within the SLP. During hang up and unhinge of the lashing devices there must no crush, cutting or traps occur for the handling.

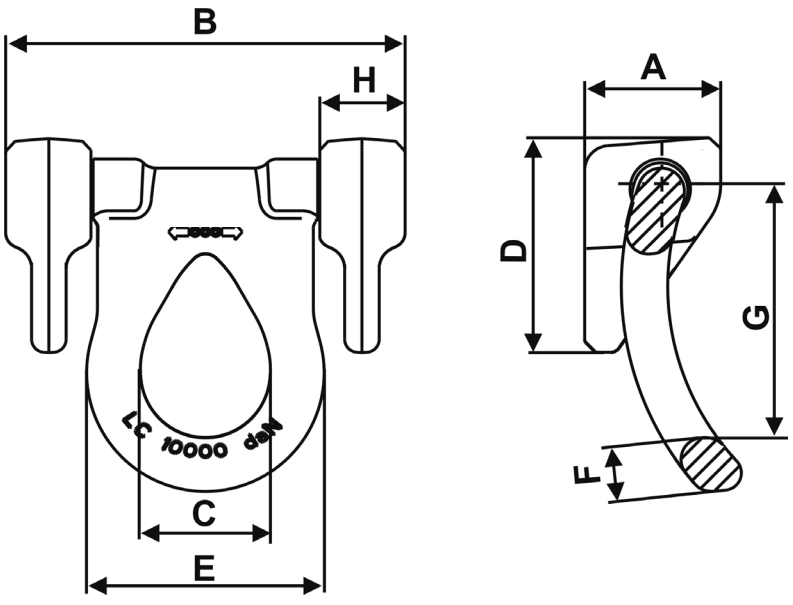
3.5 User instructions

After welding, or sooner if conditions dictate, an annual inspection should be undertaken by a authorized person to check the continuance of the appropriateness. (see section 4 Inspection criteria).

type	permissible LC daN	**weight** [kg]	A	B	C	D	E	F	G	H	material number SLP with spring
SLP 10.000	10,000	3.75	63	185	60	100	110	25	115	40	7903370

table 1: dimensioning

Subject to technical alterations



pic 1: drawing of the assembly

4 Inspection criteria

Observe and control the following points before each initial operation, in regular time intervals, after the assembly and after special incidents:

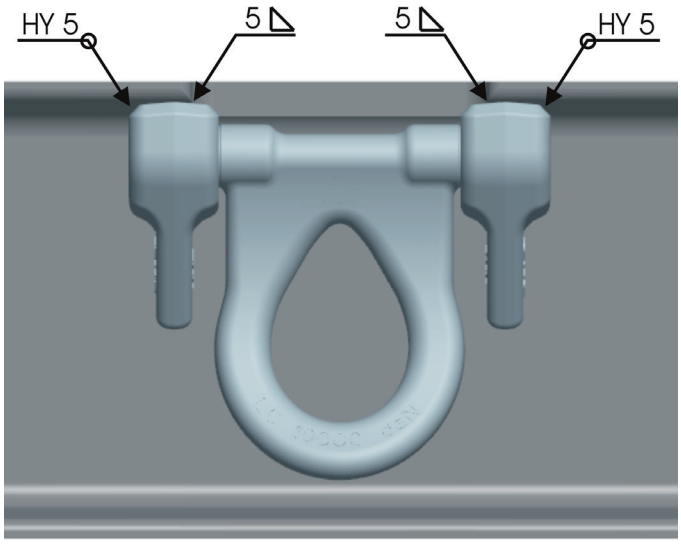
- Completeness of the lashing point
- Complete, readable WLL statements as well as manufacturer sign
- Deformation at load bearing components like base body
- Mechanical damage, like strong notches, especially in areas where tensile stress occurs
- Reduction of cross-section due to wear >10 %
- Evidence of corrosion (Pitting)
- Evidence of cracks.
- Cracks or other damages at weld seam

HINT
** Attend to drying specifications*

Attend to the process specifications of the welding additives

	Europe (DE, GB, FR, ...)	**USA, Canada,** ..
	low-alloy steel , mild Steels	
MAG / MIG (135) **Gas shielded wire welding (135)**	ISO 14341: G4 Si 1 z.B. Castolin 45250	ISO 14341 AWS A 5.18 : ER 70 S-6 **z.B. Eutectic** MIG-Tec Tic A88
Stick Electrode direct current (111, =)	EN ISO 2560-A - E 42 6 B 3 2; EN ISO 2560-A - E 38 2 B 12 H10 z.B. Castolin 6666 * Castolin 6666 N*	AWS A 5.5 : E 8018-G AWS A 5.5 : E 7016 EN ISO 2560-A - E 42 6 B 3 2; EN ISO 2560-A - E 38 2 B 12 H10 z.B. Eutectic 6666/ 35066 CP *
Stick Electrode Alternating Current (111, ∼)	**EN ISO 2560-A - E 38 0 RR 1 2** **EN ISO 2560-A - E 42 0 RR 1 2;** z.B. Castolin 6600 Castolin 35086 open-circuit voltage 35-48 (max.) V	**AWS A 5.1 : E 6013** **EN ISO 2560-A - E 38 0 RR 1 2** EN ISO 2560-A - E 42 0 RR 1 2; z.B. Eutectic Beauty Weld II
WIG (141) TIG Tungsten Arc Welding	ISO 636: W3 Si 1 z.B. Castolin 45255W	ISO 636 AWS A 5.18 : ER 70 S-6 z.B. Eutectic TIG-Tec-Tic: A 88

table 2: welding process + welding additives



pic 2: welding seam with dimension