

Lashing Point weldable, Ringbock LRBS

Safety instructions/User Information

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

Lashing Point
weldable,
Ringbock LRBS



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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 aufgeführten 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: **Lashing Ringbock - LRBS**

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 EC. 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 equipment:

Lashing point

Type: **Lashing Ringbock LRBS**

Manufacturer's sign: 

User Instruction

1. Usage only by authorized and trained persons.
2. Check Lashing Points regular and before every usage in regard of cracks at weld seam, strong corrosion, wear, deformations etc.
3. Design location of Lashing Points in such a way that the base material can withstand lead in forces without deformation. The weld on material must be free of impurities, oil and paint.
Material of weld blocks S355J2+N (1.0570+N (St52-3))
B.S. 4360.50 D or AISI 1019
4. 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. The Lashing Points shall be arranged as wide as possible to use the full loading area and they should not protrude in steady position. Execute the position of the Lashing Points with the load in such a way that unacceptable stress like twisting or tilting will be avoided.

Warning: Lashing Points must not be used for Lifting of loads.

5. 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.**

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

7. Suitability of temperature use: RUD-Lifting points LRBS are suitable for the temperature range from -20°C up to 400°C. For the use within the following temperature range, the WLL must be reduced by the following factors:
200°C up to 300°C: by -10 % and
300°C up to 400°C: by -25 %

The lifting points LRBS can be stress-relieved one-time in an unloaded condition, together with the load (e.g. welded construction): Temperature < 600°C (1100°F, without a reduction of the WLL).

The evidence of the suitability of the used weld metal must be mentioned by the respective filler material manufacturer.

8. Please make Lashing Point easy visible by using a contrasting colour as paint.

9. Weld seam arrangement (continuous HV) fulfills the following requirements: DIN 18 800 Structural steel elements specifies:

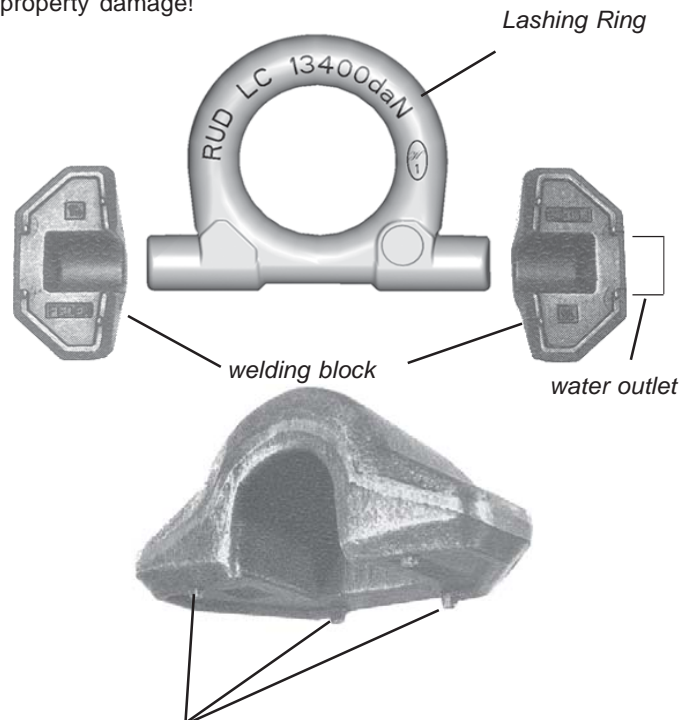
At outdoor sites or in case of a high corrosion hazard, all weld seams should only be carried out as continuous, fillet weld. The HV-weld of the LRBS fulfills this specification. The distance lugs assist in achieving the correct air gap for the root of seam weld (approx. 3 mm, or 1/8") Lugs must not be removed!

10. After welding, or sooner if conditions dictate, an annual inspection should be undertaken by a authorized person to check the continuance of the appropriateness.

Inspection criteria concerning paragraph 2 and 10

- Completeness of Lashing Point
- Complete and readable marking of Lashing Capacity as well as manufacturer sign
- Deformation at supporting structures like Basic Components and Lashing Rings.
- Mechanical damage like strong notches, particularly in areas with tensile stress
- Reduction of cross sectional diameter caused by wear > 10 %
- strong corrosion (pittings)
- Cracks on supporting structures
- Cracks or any other damage of the weld seam

Warning: Failure to read, understand and follow the instructions, Lashing Capacity and specifications in this and other RUD publications could result in serious injury or property damage!



Type	pem. LC daN	weight kg	A	B	C	D	E	F	T	O	Q	LRBS	Part-No.: Lashing Ring	welding block	
LRBS 8000	8000	0,9	62	16	28	48	135	71	65	17	77	7993148	7993477	7992004	
LRBS 13400	13400	2,1	88	20	39	60	170	92	84	23	101	7993149	7993478	7992005	
LRBS 20000	20000	3,0	100	22	46	65	195	100	95	28	106	7993150	7993479	7992007	
LRBS 32000	32000	6,9	130	30	57	90	266	134	127	35	147	7993151	7993480	7992008	

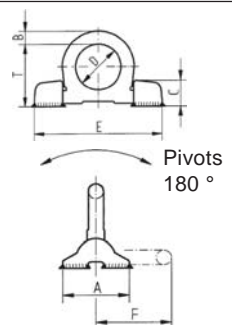
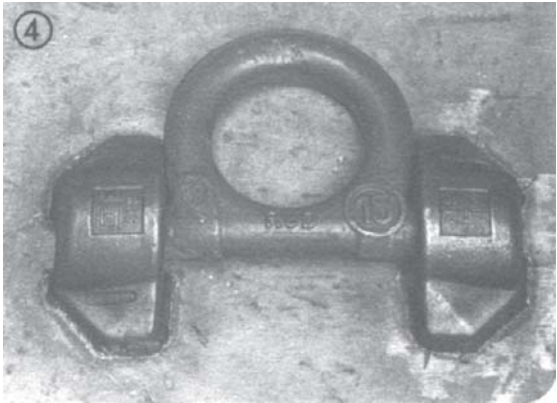
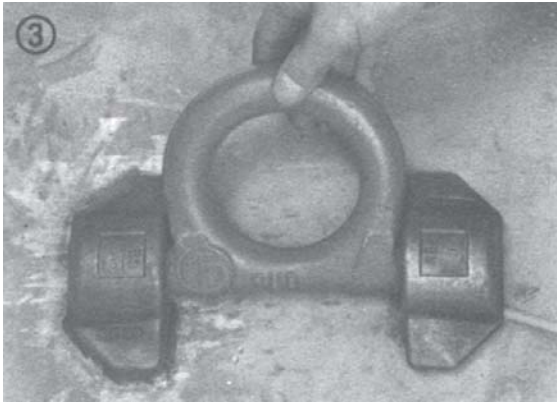
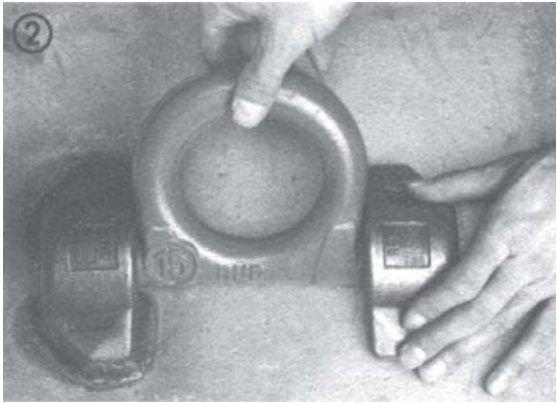
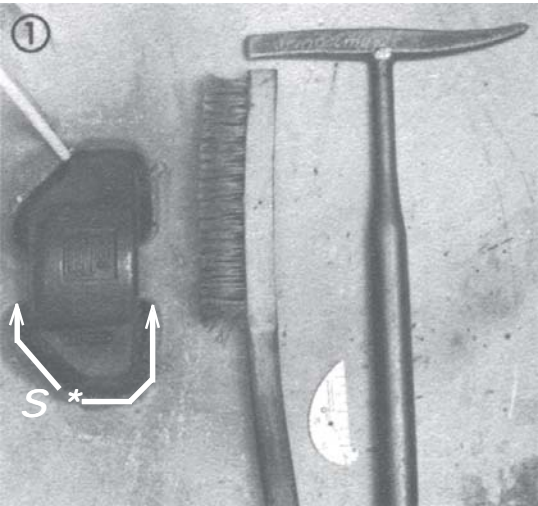


chart 1

The welding should only be carried out by an authorized welder according to EN 287 or AWS Standards.

Welding sequence:

- ① Welding of the block.
The distance lugs assist in achieving the correct air gap for the root of seam weld (approx. 3mm, or 1/8") Lugs must not be removed! Start welding of root seam and top run at point „S“ (see drawing). Before carrying out roof weld (top run), carefully clean root of seam. Append fillet weld (measurement „a“) acc. Chart 3. The whole welding should be carried out at the same temperature. Do not interrupt welding. Keep area of water outlet open.
 - ② Attach Lashing Ring into weld on block. Second weld on block should be aligned as close as possible, in a way that the ring can be moved easily.
 - ③ Welding of block in the area of the distance lugs. Test function (180° pivoting) If necessary, please correct.
 - ④ Weld on block as described under Pos. ①
- **Warning! Do not weld at the pink powder coated, quenched and tempered load ring!**

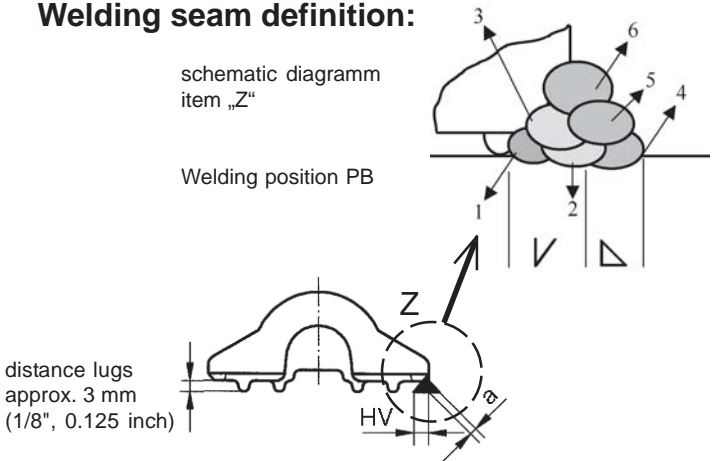


Weld size (per welding block):

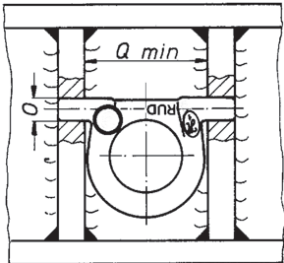
weld seam	size	length	volume
LRBS 8000	HV 4 + a 3 ▽	2 x 130 mm	ca. 4,5 cm ³
LRBS 13400	HV 5,5 + a 3 ▽	2 x 170 mm	ca. 9 cm ³
LRBS 20000	HV 6 + a 4 ▽	2 x 190 mm	ca. 11 cm ³
LRBS 32000	HV 8,5 + a 4 ▽	2 x 250 mm	ca. 26 cm ³

chart 3

Welding seam definition:



Lashing Ring is integrated in the design:



Welding method:

	Europa (DE, GB, FR,)	USA, Canada, ..
	structural steel Low alloyed steel	
pulsed MIG arc welding MAG	EN 440: G4 Si 1 z.B. Castolin 45250	AWS A 5.18 : ER 70 S-6 z.B. Eutectic MIG-Tec Tic A88
electric manual DC =	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 *
electric manual AC ~	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 no-load-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
TIG (tungsten inert-gas shielded) welding	EN 1668: W3 Si 1 z.B. Castolin 45255W	AWS A 5.18 : ER 70 S-6 z.B. Eutectic TIG-Tec-Tic: A 88

chart 3

* Attend to drying specifications

Attend to the process specifications of the welding additives