

Operating and welding instructions for lashing points GK 8 (Last update: 06.01.2016)

General principles for use:

Falling loads, caused by the failure or incorrect use of lifting gear or its individual parts, involves an indirect threat to life or the health of persons staying in the danger zone of lifting processes. This manual contains those aspects relating to the safe use, associated with good handling, of the weld-on lifting points. Prior to the application of the weld-on lifting points, the responsible persons must be instructed by experts. Lashing points may not be used in acids or exposed to acid vapours. It should be noted that certain production processes release acids or vapours.

Installation instructions:

The position of the lashing points to the load are to be executed in such a way that a flat surface is appropriate to receive the expected force transmission.

The position of the lashing points should be as close as possible to the outer points of the loading area. The load must be designed in such a way that a plain support surface is suitable for absorbing the expected introduction of force.

The number and arrangement of the lashing points on vehicles must be determined in accordance with EN 12640 or DIN 75410. This does not apply to vehicles for special goods with special load safety requirements. The permissible lashing force of the individual lashing point is found in standard EN 12195-1 (load securing equipment on road vehicles - calculation of lashing forces) and VDI 2700 (load securing on road vehicles).

The weld-on lifting points are to be attached to the load as follows:

- that they can be reached easily and without obstruction for the slopes of the sling.
- that no danger zones (pinching, shearing, catching or shock marks) are created that endanger or hinder the slinger or the transport.
- that inadmissible stress, for example caused by eccentric load and thus uneven load distribution, taking into account the centre of gravity (EN 818-6), is avoided.
- that the sling is not deviated by other construction components and that damage, e.g. due to sharp edges, is excluded.

The number and arrangement must be selected in such a way that the load cannot change its position unexpectedly during transport.

The sling point may not be turned under load or be used to turn the load.

The load ring must be set in the tensile direction and be freely movable and may not prop up on edges or at the sling point

Anschrift

SFA GmbH
Amboßweg 1a
59519 Möhnesee

Eintragung

SFA GmbH
HRB 9095 (Arnsberg)
Geschäftsführer: Mirko Geschke
USt-IdNr.: DE 270798733
Steuer-Nr.: 343/5781/2955

Fernverbindungen

Telefon: +49 2924 876601
Telefax: +49 2924 876614
Mobil: +49 176 20344600
E-Mail: mail@anschweisspunkte.de
Internet: www.anschweisspunkte.de

Bankverbindungen

Sparkasse Soest-Werl
IBAN: DE65 4145 0075 0000 0879 73
SWIFT: WELADED1SOS



SFA | Amboßweg 1a | 59519 Möhnesee

Welding:

- The construction of the weld-on bracket ensures the necessary air gap for the placement of the root pass. Each new pass tempers the already performed pass.
- Welding must be done by certified manual welders only according to DIN EN ISO 9606-1.
- The material of the weld-on bracket is 1.5070 (S355J2 + N) according to EN 10025. Preheating of the weld-on lifting point is not required.
- The welding metal must be introduced into the full cross-section.
- Seam transitions must be executed notch-free.
- Prior to applying the deck seam, slag and impurities must be removed.

After cleaning the welding seam, a visual check of the welding seam must be carried out for cracks, hacks and inclusions. In case of doubt, a surface crack inspection must be carried out.

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59519 Möhnesee

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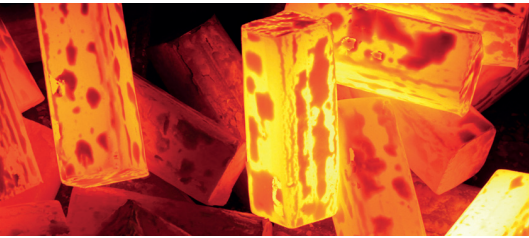
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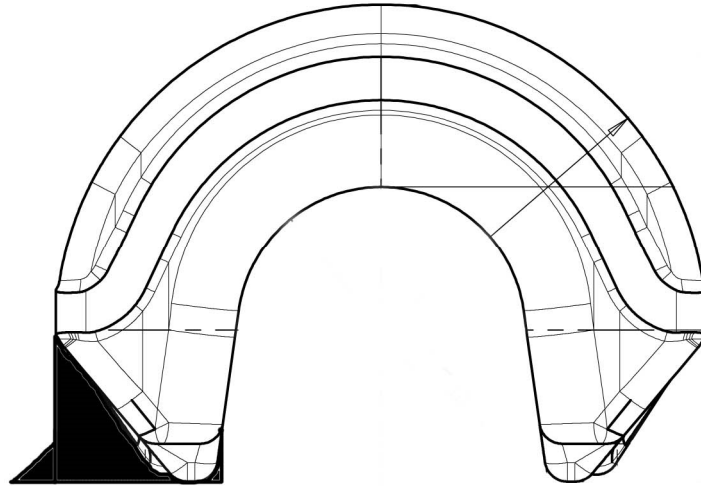
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Welding seam arrangement



Please note that **the size of the welding seam** depends on the size of the weld-on block

	Size	Length
Attachment eye LC2000daN	HV 4 + 3	2 x 36 mm
Attachment eye LC4000daN	HV 5 + 3	2 x 38 mm
Attachment eye LC6300daN	HV 7 + 3	2 x 41 mm
Attachment eye LC10600daN	HV 10 + 4	2 x 50 mm
Attachment eye LC16000daN	HV 16 + 4	2 x 65 mm

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Welding procedure + additives for Europe, the United States and Canada for the material construction steels, low alloy steels

MAG / MIG	EN ISO 14341 G4Si1 e.g. Castolin 45250	AWS: A-5.18 HE 70 S-6 for example, eutectic MIG-TEC Tic A88
MMA DC	EN499 E 426 B32 H5 e.g. Castolin 6666 or 6666N - observe drying regulation	AWS: A 5.5 E8018-G E7016 for example, eutectic 6666/35066 CP
MMA AC	EN499 E 380 RR 12 e.g. Castolin 35086 CP 6600	AWS: A-5.1 E 6013 e.g. eutectic Beauty Weld II
WIG	DIN 8575 WSG CrMo1 e.g. Castolin 45252 W	AWS: A-5.18 ER 70 S-6 e.g. eutectic TIG-Tec-Tic: A 88

RESISTANCE TO TEMPERATURE:

The specified capacities of the lashing points apply to temperatures from minus 40 to plus 200 degrees Celsius without deduction. When used in other temperature ranges, adequate tests for the respective ambient operating temperature are to be carried out in advance. In such cases, the load bearing capacity must be recalculated.

Inspection and maintenance:

Lashing points must be checked after installation and at least twice a year by a competent person. Before use, e.g. by the slinger, weld-on lifting points must be inspected for cracks, deformations, strong corrosion. List of possible inspection criteria:

- Completeness of the weld-on lifting point.
- Observe the indicated load bearing capacity.
- Immediate prohibition of use in case of cracks.
- Immediate prohibition of use in case of damage of the bow part or the bracket. The current test requirements shall apply.

Immediate prohibition of use in the presence of severe corrosion.

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