ORIGINAL OPERATING INSTRUCTIONS

JDT – J. D. Theile GmbH & Co. KG, Letmather Str. 26-45, D-58239 Schwerte, Germany Tel: +49 2304 757 0 Fax: +49 2304 757 177 www.jdt.de



Operating instructions for toggle chains NORM 8 (quality grade 8)

General principles for using sling gear:

The operating instructions need to be kept together with the certificate and CE conformity declaration.

Falling loads caused by failure and/or incorrect use and handling of sling gear or parts thereof harbour a direct risk for the body and health of persons present in the danger zone of lifting operations.

These operating instructions include advice for the safe use and handling of the sling gear. Before applying the sling gear, the persons required to do so must be instructed in its handling and use by a qualified person.

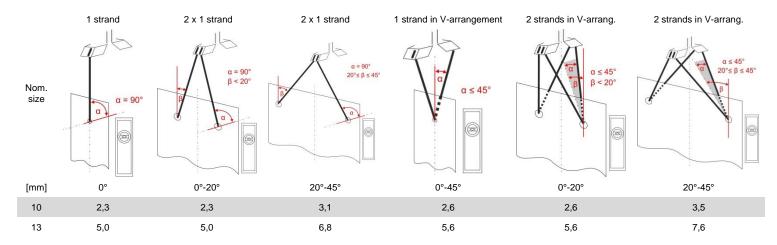
Principal requirements:

- The load rating (see label) of load handling devices needs to match the load. Load handling devices must not be used if the labelling is lacking or illegible.
- The creation of hazard areas (e.g. crushing zones, shearing points, trapping or impact points) that could obstruct or jeopardize the slinger or transport must be avoided.
- The load's basic material and constructive design must be able to withstand the forces applied without deforming.
- Stresses causing uneven load distribution, e.g. by eccentrical force application, need to be considered in the selection of the load handling equipment.
- The potential occurrence of extreme stresses or strong dynamic loads (shock impacts) needs to be considered in the selection of the sling gear and load rating.
- Sling gear must not be used for passenger transport. Persons must keep out of the hazard area of suspended loads at all times.
- Sling gear must not be brought into contact with acid or other aggressive media. Please note that specific production processes can also generate acid fumes.
- Never change sling gear on your own authority (e.g. by milling, welding, bending, attachment of parts)!
- The sling gear must not be exposed to inadmissible temperature conditions.
- Only original replacement parts must be used.
- Relevant additional requirements must be met when transporting hazardous materials.
- Load handling equipment needs to be stored in a manner ensuring that it is protected from damage and will not pose any risks.
- In the event of malfunction, the sling gear needs to be taken out of circulation immediately and serviced.
- Load handling equipment needs to be disposed of appropriately upon meeting discard criteria. Note: Possibly provided pollutants (e.g. grease and oils) must be disposed
 of separately.

Note: Violation will cause the operating licence to expire.

1. Load rating and temperature usability

Table 1 NORM 8 (quality grade 8) load rating/WLL in t as per EN 818



Careful attention should be paid to the maximum temperature potentially reached by the sling gear in the individual case.

Table 2

Working temperature in °C	WLL NORM 8 (quality grade 8) in %		
minus 20°C - plus 100°C	100		

2. Assembly of the load handling equipment

The nominal size and quality grade need to be considered in the assembly of chain suspensions. All fully assembled load handling equipment must be labelled in keeping with the European Machinery Directive.

3. Use of the sling chains

The sling chains must only be used in keeping with the requirements of DGUV Regulation 100-500, Chapter 2.8, and/or the respective national regulations.

3.1 Getting started - before first use

Before using the sling gear for the first time, please ensure that

- the sling gear conforms with the order exactly;
- the test certificates are provided (inspection certificate, declaration of conformity, etc.);
- the label information and load rating provided on the sling gear conform with the information provided in the test certificates (see Table 1).

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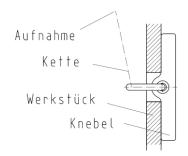
3.2 Load handling

Before every use, the sling gear should be checked for evident damage or signs of wear. If any damage is discovered, please proceed in keeping with the maintenance specifications.

- The weight of the load must be known.
- The load's centre of gravity must be known.
- The chain sling must not be twisted or knotted.
- Chains may be dragged over sharp edges (radius ≤ chain diameter). The 20 % reduction in the working load limit is already included.

3.3 General assembly instructions:

- The toggle chain sling used needs to match the size of the provided retainer.
- The toggle and chain need to be threaded through the workpiece to be lifted. Then the toggle needs to be reoriented so that the bar can serve as a support for the workpiece to be lifted. Tighten the chain sling afterwards.
 - Loads need to be lifted and transported carefully.
- Loads must be put down stably. Only then may the chain sling with toggle be removed.



Übers.: Retainer Chain Workpiece Toggle

4. Sling gear storage

When not in use, sling gear should be stored on a rack intended for this. It should not be left lying on the ground after use as it could be damaged there. Sling gear that is not expected to be used for a longer period of time should be protected from corrosion.

5. Inspection and maintenance

Before use, sling gear should be regularly checked for appropriate use and perfect condition (e.g. absence of strong corrosion, deformations, etc.), e.g. by the slinger. Faulty sling gear must not be used. It must be inspected in keeping with the applicable standards (incl. EN 818-6) and guidelines (e.g. DGUV regulation 100500) by a qualified person every six months as a minimum. Every 3 years, sling gear needs to be inspected for cracks by a qualified person using appropriate test devices.

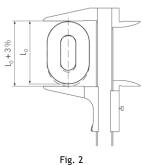
The user needs to take risk assessment results into account as required by industrial safety regulations. Intervals are shortened if products are exposed to critical operating conditions. Records of the inspections must be kept.

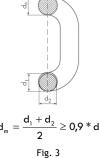
The test coefficient (see EU Directive 2006/42/EC, section 4.4.1) is prescribed by DIN EN 818ff and/or DIN EN 1677ff.

If the following defects occur, the sling gear needs to be taken out of service immediately for repair:

- Label information on the load rating or for verifying the identity of the sling gear is illegible or lacking.
- Deformations at the suspension, chain or other sling elements (Fig. 1).
- Inadmissible wear or distension of a chain link is for example provided if the nominal inner length is exceeded by 5 %, which equals an outer extension of 3 % (Fig. 2).
- The thickness of a chain link is reduced by > 10 % on average in any place (Fig. 3).
- Clear differences in length between strands used for multi-strand sling chains.
- Toggle wear (thickness reduction) ≥5%.
- Damages such as: cuts, notches, grooves, linear cracks, excessive corrosion, heat-related discolouration, bent or twisted chain links or other defects.







6. Repair

Repairs must be performed by qualified persons. Chains meeting discard criteria must be replaced. If only a single link of a sling chain meets discard criteria, the entire chain strand must be replaced. Welded sling chains must only be repaired by the manufacturer.

7. Documentation

The records of the regular inspections (section 5) and repair (section 6) need to be documented.

JDT offers professional support for these activities, as well as a PC program, >Sbase<, for digital sling gear documentation and administration.

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8. Declaration of Conformity

EG-Konformitätserklärung EC Conformity Declaration Déclaration de conformité CE EG-Conformiteitsverklaring Declaración de conformida CEE Dichiarazione di conformità CE EY-yhdenmukaisuustodistus EF-Overensstemmelseserklæring EG-Konformitetsförklaring

Der Unterzeichnende, bevollmächtigt von der The undersigned, empowered by Le soussigne, mandataire de De ondergetekende, gemachtigde van de firma El suscrito, autorizado por la il sottoscritto, delegato dalla Allekirjoittanut, yhtiön Den undertegnede, befuldmægtiget af förklarar undertecknad, bemyndigad av

Brugte nationale normer
Nationella normer som tillämpats

Im Sinne der EG Richtlinie Maschinen 2006/42 EG und weiter ergänzender Richtlinien. As defined by the EC Guideline Machines 2006/42 EC and other complementary guidelines. Dans le sens des directives CE Machines 2006/42 EE et des directives complémentaires. Overeenkomstig de EG-richtlijn Machines 2006/42 EG en verdere aanvullende richtlijnen. Conforme a la Directiva CE de Mâquinas 2006/42 EG en verdere aanvullende richtlijnen. Ai sensi della direttiva CE sulle macchine 2006/42 CE e altre direttive integrative. Koneista annetun EY-direktiivin 2006/42 EY ja muiden lisädirektiivien tarkolitamassa mielessä. I overensstemmelse med EF-retningslinie maskiner 2006/42 EF og videre supplerende retningslinier. I enlighet med EG:s Maskindirektiv 2006/42 EG samt vidare kompletterande direktiv.

J. D. Theile GmbH & Co. KG. Postfach 18 29, D-58213 Schwerte

erklärt, daß das (die) umseitig bezeichnete(n) Anschlagmittel in der von uns in Verkehr gebrachten Ausführung bei bestimmungsgemäßer Benutzung mit den grundliegenden Sicherheits- und Gesundheitsanforderungen übereinstimmen.

declares that sling gear, listed overleaf, conform in its marketed design with the requisite basic safety and health requirement, provided they are used in accordance with their intended purpose.

déclare que le matériel de levage décrit au verso et employé conformément aux prescriptions, dans l'exécution mise en circulation par nos soins, est conforme aux exigences fondamentales de sécurité et de santé.

verklaart dat de op de achterzijde aangegeven aanslagmiddelen in de door ons in het verkeer gebrachte uitvoering bij doelmatig gebruik met de pricipiêle eisen omtrent veiligheid en gezonderheid overeenstemmen.

declara que el/(los) dispositivo/(s) de suspensión mencionado/(s) al dorso en la forma lanzada al mercado concuerdan con los requiremientos básicos impuestos a la seguridad y a la salud bajo la condición de una aplicación de acuerdo con los fines previstos.

(inchiara che il/0 dispositivo/0 di arresto definició) la terzo, nel modello da noi distributo, se usatio(in en modo dovuto risponde (rispondono) ai requisiti

dichiara che ili(i) dispositivo(i) di arresto definito(i) a tergo, nel modello da noi distribuito, se usato(i) nel modo dovuto risponde (rispondono) ai requisiti basilari de sicurezza e sanitari.

vasilation va souriezza o samain.

vasilatitamana vakuuttaa, että kääntöpuolella mainittu/tut kiinnitysväline/et myyntiin tuomassamme moudossa ja sitä/niitä asianmukaisesti käytettynä ovat perustavanlaatuisten turvallisuus- ja terveysvaatimusten kanssa yhdenmukaisia.

erklærer, at det (de) omstående anslagsmidel (-midler) i den udførelse, som vi har givet den ud, ved bestemmelsens benyttelse stemmer ovcrens med de grundlæggende sikkerheds- og sundhedskrav.

att det (de) på omstående sida uppförda anslagmedlet (-medlen) i det av oss sålda utförandet vid ändamålsenlig sanvändning överensstämmer med de grundläggande kraven beträffande säkerhet och hälsa.

EG-Richtlinien EC Guidelines Directives CE EG-richtlijnen Directivas CEE Direttive CE EY-direktlivit EF-retningslinier EG-Direktiv	EC Guideline for Directives CE Ma EG-richtlijn mach Directiva CEE 'Ma Direttive CE sulle Koneista annettu	aschinen geändert du Machines amended t chines modifiée en innes gewijzigd door aquinas' modificada ; macchine cambiate EY-direktivi muutett maskiner forandret ge ktiv andrat genom	oor con u direktiiveillä	2006/42 EG	Harmonisierte Normen Harmonized standards Normes harmonisées Overeenkomstige normen Normas armonizzate Norme armonizzate Harmonisoidut standardit Harmonisoidut standardit Harmoniserade standarder	EN ISO 12100	EN 818-2 EN 818-3 EN 818-4 EN 818-5 EN 818-7 EN 1677-1 EN 1677-2 EN 1677-4 EN 1677-5 EN 1677-6 EN 13889 EN 13155	
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Aberspach / Qualitätsmanager
Unterschrift

EN 818-1

Dokumentationsverantwortlich: R. Aberspach in Fa. J.D.Theile, Letmather Str. 26-45, D-58239 Schwerte

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UKCA Declaration of Conformity

The undersigned, empowered by

J.D. Theile GmbH & Co. KG, Postfach 18 29, D-58213 Schwerte, Germany

declares that sling gear, listed overleaf and marked with UKCA, conform in its marketed design with the requisite basic safety and health requirement, provided they are used in accordance with their intended purpose.

Applicable standards:

UK Guideline Supply of Machinery (Safety) regulation 2008

EN BS 818-1 - EN BS 818-7

EN BS 1677-1 - EN BS 1677-6

EN BS 12100

EN BS 13155

EN BS 13889

Schwerte, 2021-11-02

T. Muchowski, Managing Director