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T.Ş. 250.426

TECHNICAL SPECIFICATION OF SUPPLYING 1500 kN DRAW HOOK

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1. SUBJECT and SCOPE

This technical specification covers the minimum general and technical conditions, requirements, control, acceptance, warranty and other issues of **1500 kN draw hook** used during the overhauling and manufacturing freight wagons at TÜRASAS Regional Directorate of Eskişehir and TÜRASAS Regional Directorate of Sivas.

2. GENERAL CONDITIONS AND REQUIREMENTS

2.1. Draw hook shall be 1500 kN,

2.2. Draw hooks shall comply with EN 15566 standards

2.3. In order to ensure traceability of the draw hooks, marking will be done in accordance with EN 15566 standard. However, the contract numbers and the customer logo will be embossed on the draw hooks. Also, charge numbers and serial numbers will be overwritten with dot matrix, laser, etc. by some method on draw hooks. The customer logo and numbers written on the draw hooks will be placed in a position that can be seen easily after the draw hooks are mounted on the wagon and in the same position in all draw hooks.

2.4. "L" dimension between centers will be 530 mm for the buffer stroke length 105 mm.

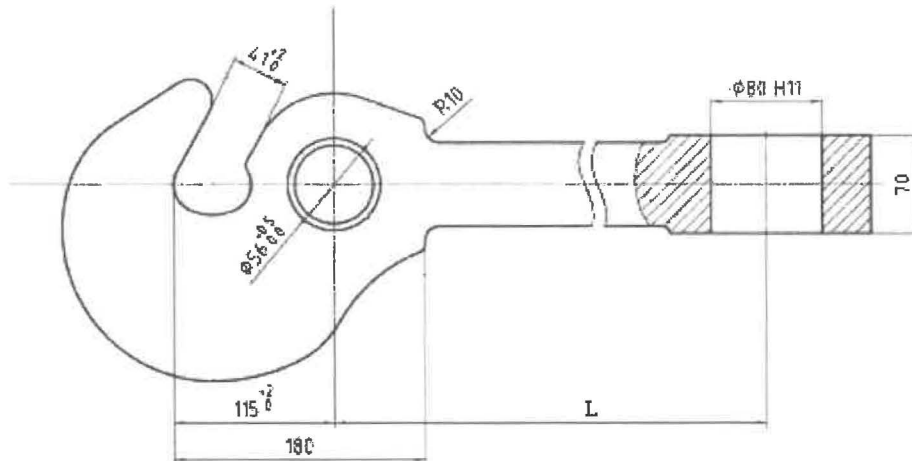


Figure 1. Draw hook

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3. PROPOSING

- 3.1.The Bidders will provide the TSI Certificate of Conformity for draw hook (TSI certificate (EC, CE, EG) or conformity certificate to the EN 15566 by NoBo approved) with the first product delivery. The Compliance Tests shall be approved by a NoBo Body authorized according to 2008/57/EC Directives recorded NANDO Database of EU.
- 3.2.The Bidders shall submit TSI/EN conformity declaration which is prepared according to TS EN ISO/IEC 17050-2 belongs to the products offered to TÜRASAS with the first product delivery.
- 3.3.The Bidders will give the Technical Drawings of 1500 kN draw hook which they offered in their proposals.
- 3.4.The Bidders will give the Usage and maintenance books of the product per 4.4 and 4.5 articles of TSI WAG 321/2013 regulation belong to product which they offered together with their proposal.

4. CERTIFICATES WITH THE DELIVERED BATCH TO THE ACCEPTANCE DEPARTMENT AFTER CONTROLS AND CHECKS PERFORMED

- 4.1.TSI certificates (EC, CE, EG) or EN 15566 certificate of conformity approved by a NoBo with each batch presented to Acceptance Department will be given to Administration.
- 4.2.The Bidders will give the Technical Drawings of 1500 kN draw hook which they offered to Acceptance Department.
- 4.3. The manufacturer will give the results of all tests required by EN 15566 standard related to draw hook in the form of a 3.1 certificate according to EN 10204 together with the batch they presented to Acceptance Department.

5. TESTS AND INSPECTIONS PERFORMED BY THE MANAGEMENT

The management shall control and check each batch from the point of followings;

- 5.1.Control of TSI certificates (EC, CE, EG) or EN 15566 Certificate of Conformity approved by NoBo
- 5.2.Control of 3.1 certificate per EN 10204
- 5.3.100 % visual inspection

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5.4.TÜRASAS shall have the right of taking a sample and/or samples and perform destructive tests and / or non- destructive tests on the samples if TÜRASAS deems necessary. Firm shall give new componets used at destructive tests to TÜRASAS free of charge.

6. PACKING, DELIVERY PLACE AND DELIVERING MANNER

The components to be submitted to the Acceptance Department shall be delivered in quality and thick wooden, petrolium products, etc made- cases resisting the minor damages during loading and unloading to prevent any damage from dust, rain, snow, sun rays, wind, etc. and to be protected any harm during carrying in every weather condition. Four boxes can be stored over and over. Durable string tape shall be wrapped to prevent the spreading the cases.

The cases must be convenient to be lifted by a fork-lift. The weight of the cases with the components in shall be 400-500 kilograms. All writings on the cases must be readable, inerasable and weatherproof and the writings must contain the name of the manufacturer, material name, order number and drawing number, number of the component, the batch number, manufacturing date.

The list consisting of the data above or marking list data shall be delivered to Acceptance Department with the dispatch list or the invoice for each case seperately. The components delivered to Acceptance Department stocked into the cases upon they are wrapped with bubble pack to prevent from from climate and envirolment conditions such as rain, wild, snow and will not be damaged during the stocking, carrying, loading and unloading. The componets shall not touch each others.

In case the components are delivered to the Acceptance Department improper manner, a written report shall be prepared and the components shall be returned to the firm without accepting them.

The place of delivery of the parts packaged in accordance with the technical specifications is TÜRASAS Eskişehir Regional Directorate or TÜRASAS Sivas Regional Directorate, depending on the demand.

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7. PROTOTYPE

For the first time being manufacturer, 2 prototype shall be given to TÜRASAS. After accepting the prototype, manufacturer shall start the serial production. Although manufacturer sold product to TÜRASAS before, if the project or manufacturing process has changed, manufacturer shall give another prototype to TÜRASAS.

8. WARRANTY

The manufacturer shall warranty for the components having manufacturing defects and are not recognised at acceptance stage two (2) years starting from the date of delivering the last batch. The winner firm shall change the defected components with the new ones after the defects are informed in a (1) month.

9. OTHER ISSUES

9.1.Increasing the component number, delivering and delivering type, insurance, warranty, etc. issues which are not in the technical specification shall be defined in the Administrative Specifications.