

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Lifting set for Offshore containers**with type designation(s)  
**Wire rope lifting sets**

Issued to

**SPT Mühendislik ve Ticaret Ltd. Sti.**  
**ANKARA, Turkey**

is found to comply with

**DNV GL standard DNVGL-ST-E271 – 2.7-1 Offshore containers, August 2017**  
**ISO 10855-2:2018 Offshore containers and associated liftings sets – Part 2: Design, manufacture and testing of lifting sets**  
**IMO/MSC Circular 860**  
**EN 13414-1 Wire rope slings****Application :****1, 2, 3 and 4 leg lifting sets, with forerunner where fitted, for lifting of:**  
**- Offshore Containers, with Maximum Gross Mass 0 to 25000 kg.**Issued at **Aberdeen** on **2020-08-19**This Certificate is valid until **2025-08-18** .for **DNV GL**DNV GL local unit: **Istanbul**Approval Engineer: **Elisabeth Legg**

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**Brendan Ward**  
**Delivery Lead - Containers**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **262.1-033284-1**  
Certificate No: **TAS00002MJ**

## Manufactured by

DNV GL CIM No.: 10308697

Local DNV GL Office: Istanbul

## Responsibility

SPT Mühendislik ve Ticaret Ltd. Şti. takes full responsibility that both the design and production are in compliance with the Rules, Standards and / or Regulations listed on page 1.

## Product description

This type approval certificate covers wire rope lifting sets from 18 mm to 48 mm diameter with turnback eyes certified by SPT Mühendislik ve Ticaret Ltd. Şti., in accordance with DNVGL-ST-E271.

The wire rope lifting sets certified by SPT Mühendislik ve Ticaret Ltd. Şti. consist of components from the following sub suppliers:

| Component                   | Sub supplier<br>(DNV GL to be informed and review new sub suppliers)                                                               | DNV GL TAC number                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Master link & quad assembly | Scaw South Africa (Pty) Limited – McKinnon Chain<br>Pewag Austria GmbH<br>Crosby Group LLC<br>Yoke Industrial Corp.                | TAS000013Z<br>TAS00001UX<br>TAS00002KR<br>TAS000005Z |
| Wire rope <sup>1)</sup>     | Erciyes Celik Halat AS<br>Hascelik San. ve Tic. A.Ş<br>Celik Halat ve Tel Sanayii A.Ş.<br>Kiswire Ltd.                             | N/A                                                  |
| Shackles <sup>2)</sup>      | Van Beest BV<br>Crosby Group LLC<br>Yoke Industrial Corp.                                                                          | TAS000011V<br>S-8357<br>TAS0000241                   |
| Ferrules <sup>3)</sup>      | Sahm Splice GmbH<br>Crosby Group LLC<br>Wirop Europe GmbH                                                                          | N/A                                                  |
| Thimbles <sup>4)</sup>      | Van Beest BV<br>Shandong Huayuan Rigging Co.,Ltd<br>Hubert Waltermann Eisenwarenfabrik und Gesenkschmiede GmbH & Co.<br>Talurit AB | N/A                                                  |

1) Wire ropes used in fore runner and bottom legs of lifting sets shall be 6-stranded and of type 6x19 or 6x36 and may be fibre cored or steel cored, with wire rope grades 1770 N/mm<sup>2</sup> or 1960 N/mm<sup>2</sup>, in accordance to EN 12385, or equivalent.

2) Shackles are only considered part of the lifting set if captive (i.e. can not be removed after assembly of lifting set).

3) Ferrules/sleeves shall be in accordance with EN 13411-3, or equivalent.

4) Thimbles shall be in accordance with EN 13411-1, or equivalent.

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Components should be delivered with the following certificates:

- Master Links, Quad assemblies and Shackles: Certificates based on DNV GL Type Approval.
- Wire Ropes: To be supplied with traceable material certificates in accordance with EN 10204, inspection certificate, type 3.1.
- Thimbles and ferrules: To be supplied with a material certificate in accordance with EN 10204, test report, type 2.2.

### **Application/Limitation**

For each delivered drum of wire rope, a test leg with one eye in each end shall be prepared and tested to breaking. A reference should be made to the wire drum test report in each sling set certificate where that wire is used.

All production testing should be carried out in accordance with SPT Mühendislik ve Ticaret Ltd. Şti. internal procedures, to be agreed with the local DNV GL office.

The manufacturer shall issue product certificates in accordance with DNV GL-ST-E271 section 8.5, using the SPT Mühendislik ve Ticaret Ltd. Şti. form Rev. 1\_2020 "Certificate for Offshore Container Lifting Sets". This certificate form is only to be used for lifting sets certified in accordance with this Type Approval Certificate.

The WLL to be referenced in certificates and marked on lifting sets shall be the maximum working load limit (WLL) of the lifting set, as per the definition in DNVGL-ST-E271.

Lifting sets shall be assembled in accordance with the strength requirements described in DNVGL-ST-E271 section 8. The angle of the sling legs from vertical should be taken into account when choosing slings. This angle should normally be 45°, but smaller angles may be used.

Special lifting sets, assembled in accordance with the principles described in DNVGL-ST-E271 section 8 and appendix E, are also covered by this Type Approval. If unsymmetrical slings are to be assembled, the local DNV GL office shall be contacted to review each case, unless otherwise agreed in advance.

*Note: The sling leg is not necessarily the weakest part of the lifting set. Master Link assemblies selected for lifting sets with legs at 45° may not be suitable for lifting sets with a smaller angle.*

### **Type Approval documentation**

#### **Tests carried out**

Prototype breaking load test of assembled wire rope sling leg.



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### **Marking of product**

For lifting sets manufactured in accordance with DNVGL-ST-E271: refer to section 8.

### **Periodical assessment**

In order to maintain the validity of the type approval certificate, periodical assessments should be carried out every 6 months, in accordance with DNVGL-SE-0284. Periodical assessments will, when possible, be harmonised with other surveys and audits carried out.

### **END OF CERTIFICATE**