

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cargo Securing Devices**

with type designation(s)

Chain shackle - 8804-26**Anchor shackle - 8807-26**

Issued to

Yoke Industrial Corp.**Taichung, Taiwan**

is found to comply with

Standard for Certification No. 2.22 Lifting Appliances**DNV STC No. 2.23 Container Securing Devices****Det Norske Veritas' Rules for Classification of Ships****Federal Specification Chains and Attachments, carbon and alloy steel, RR-C-271F****IMO Res. A.581(14) - Guidelines for Securing Arrangements for the Transport of Road Vehicles on Ro-Ro ships.****Application :****Grade 8 shackles used as Cargo Securing Devices and as Loose Lifting Gear.****For use below weather deck.**

Type	MSL, tension (kN)	MSL, shear (kN)	MSL, compr. (kN)
Chain shackle - 8804-26	See page 2		
Anchor shackle - 8807-26	See page 2		

This Certificate is valid until **2019-06-29**.Issued at **Høvik** on **2015-08-06**for **DNV GL**DNV GL local station: **Kaohsiung**Approval Engineer: **Nina Thorvaldsen Moberg**

Inger-Helene Hals
Head of Section

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.

Product description

This Type Approval Certificate replaces Type Approval Certificate S-6505.

Chain shackle, type KM.
Anchor shackle, type KH.

Application/Limitation

Breaking load (BL = MSL x 5):

Type	MSL/WLL*) [t]	Safety factor	BL [kN]
8804-26	12.5	5	612.9
8807-26	12.5	5	612.9

*) MSL (Maximum Securing Load) for cargo securing device is identical to WLL (Working Load Limit) for loose lifting gear, in kN.

Tests to be carried out:

- Production testing: According to RR-C-271F Federal Specification – chains and attachments, carbon and alloy steel section 3.4.3.
- Material tests are to include impact testing at 0° C, with the impact energy requirements according to DNV Standard for Certification 2.23 section 3.5.4.

Materials should be according to approved drawings or equivalent, and to be delivered with works material certificates.

Shackles with screw pin, and without any safety pin, may not be accepted as lifting gear by all Flag States and/or Shelf states.

Products manufactured according to this TA shall be inspected by a DNV GL surveyor, and in addition the DNV GL surveyor shall witness the production testing and issue DNV GL product certificates for each batch. For Cargo Securing Device the product certificate should be according to DNV Standard for Certification 2.23 and include the text for use below weather deck only, while for Loose Lifting gear a product certificate on form CG3 is to be issued.

Type Approval documentation

Tests carried out

Prototype tested to breaking load in tension, in accordance with the Rules.

Marking of product

Each item to be marked according to EN 1677-1, "Components for slings - Safety - Part 1: Forged steel components, Grade 8".

Periodical assessment



Job Id: **262.1-020180-1**
Certificate No: **TAS0000034**

For retention of Type Approval, a DNV GL surveyor shall perform a survey every 2nd year and before the expiry date of this certificate to verify that the type approval is complied with.

END OF CERTIFICATE