DNV·GL

Certificate No:
TAS000025D

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Twistlock large seat BD-C1

Issued to
General Lashing System (China) Co., Ltd.
Ningbo, China

is found to comply with
DNV GL rules for classification – Ships

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

SWL, tension (kN)	**250**
SWL, shear (kN)	**210**
SWL, compr. (kN)	**1000**

Issued at **Hamburg** on **2019-08-22**
This Certificate is valid until **2024-08-21**.
DNV GL local station: **Ningbo**

for **DNV GL**

Approval Engineer: **Mark-Oliver Wobig**

Andree Orth
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.

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Product description

Twistlock

Application/Limitation

Load	Tension [kN]	Shear [kN]	Compression [kN]
Test Load	375	315	1250
Breaking Load	500	420	2000

Tests to be carried out:

- Production testing: At least 2% of the items delivered are to be selected and subjected to the test load.
- Material tests are to be included energy testing at -20°C, with the impact energy requirements acc. to DNVGL-CP-0068. The material shall be according to the approved drawings. Material certificates shall be 3.1 acc. to ISO 10474:2013.

Type Approval documentation

Drawing No.	Rev.	Title
BD-C1		Twistlock large seat
BD-A1/R		Shaft
BD-C1/L		Right Body
BD-C1/R		Left Body
BD-C1/4/5/6/7		Part

Drawing approval No. GL Ref.-No.: 09-034072 Date: 2009-03-02

Tests carried out

The prototype test was carried out in Ningbo, P.R. China, dated 2019-07-03 in accordance with the DNVGL-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2 and 3.5 years, to verify that the Type Approval is complied with.