

Certificate No: TAS00001M0

# TYPE APPROVAL CERTIFICATE

This is to certify:

**That the Cargo Securing Devices** 

with type designation(s) **Semi Automatic Twistlock BD-K2** 

Issued to

General Lashing System (China) Co., Ltd. 2113, Ningheng South Road Hengxi, Yinzhou, 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)

Issued at Hamburg on 2018-08-01

for **DNV GL** 

This Certificate is valid until 2023-07-31.

DNV GL local station: Ningbo

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.



www.dnvgl.com

Page 1 of 2

Job Id: **262.1-028785-1** Certificate No: **TAS00001M0** 

### **Product description**

Midlock

## **Application/Limitation**

Load	Tension [kN]	Shear [KN]	Compression [KN]
Test Load	313	263	1060
Breaking Load	500	420	1696

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.	<u>Title</u>
BD-K2 BD-K2/01 BD-K1/02		Semi Automatic Twistlocks Semi Automatic Twistlocks (Body, 2pages) Slip Block

Drawing Approval: Ref. No. 07-134241 dated 2007-11-20

## **Tests carried out**

The prototype test was carried out in Ningbo, P.R. China, dated 2018-07-13 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.

Form code: TA 251 Revision: 2016-12 www.dnvgl.com Page 2 of 2