

Certificate No: **TAS0001KU**

TYPE APPROVAL CERTIFICATE

This is to certify:	
That the Cargo Securing Devices	
with type designation(s) Lashing turnbuckle BA-A1/XX	
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 installable DNV GL.	ation on all vessels classed
SWL, tension (kN) 245 SWL, shear (kN) - 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	

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.



Approval Engineer: Mark-Oliver Wobig

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Andree Orth Head of Section

Job Id: **262.1-028785-1** Certificate No: **TAS00001KU**

Product description

Turnbuckle Type J-H Turnbuckle Type H-H Turnbuckle Type J-J

Application/Limitation

Load	Tension [kN]
Test Load	306
Breaking Load	490

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

<u>Drawing No.</u>	Rev.	Title
BA-A1		Lashing Turnbuckle
BA-A1/01		Body
BA/01		Handle Pin
BA/02		U-Body
BA/03		Lock Nut
BA/04		Lashing Bar
BA-05		Shank Hook

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.

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