



Certificate no.:
TAS00004R7

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Cargo Securing Devices**

with type designation(s)
Automatic Twistlock TL-8/S

issued to

Sclashing Shanghai Co., Ltd.
Shanghai, China

is found to comply with

DNV class programme DNV-CP-0068 – General – Certification of container securing devices

Application:

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

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

Issued at **Hamburg** on **2025-03-06**

This Certificate is valid until **2030-03-05**.

for **DNV**

DNV local unit: **Shanghai**

Approval Engineer: **Aadil Wafdi**

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 AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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 USD 300 000.

Product description

Automatic Twistlock

Application/Limitation

Load	Tension [kN]	Shear [kN]	Compression [kN]
Test Load	312.5	262.5	1250
Breaking Load	500	420	

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 DNV-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
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ZS-TL-8/S		Automatic Twistlock
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Drawing approval: Ref.No. 262.1-042398-1, dated 2024-10-16

Test Report of SCLashing dated 2025-01-14 in Zarrenthin and Test report of SCLashing No.: ZS202502001, dated 2025-02-19 in Shanghai

Tests carried out

The prototype test was carried out in Shanghai, P.R. China, dated 2025-02-19 in accordance with the DNVGL-CP-0068. The operational test was carried out in Zarrenthin, Germany, dated 2025-01-14 in accordance with the DNVGL-CP-0068. In the operational test a twistlock opening of 13.5 mm under a pull-out force of 275 kN was measured. For calculation of lashing forces the values stated in DNV Pt.5, Ch.2, Sec.8, 2.3.6 shall be applied.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

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