



Certificate No:
TAS00003M9

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)

Turnbuckle RS-FN/985-1170/K38

Turnbuckle RS-FN/1325-1605/K38

Turnbuckle RS-FN/1255-1530/K38

Turnbuckle RS-FN/1230-1415/K38

Turnbuckle RS-FN/1190-1555/K38

Turnbuckle RS-FN/1170-1320/K38

Turnbuckle RS-FN/925-1160/K38

Issued to

SEC Ship's Equipment Centre Bremen GmbH & Co. KG
Bremen, Germany

is found to comply with

DNV rules for classification – Ships

Application :

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

SWL, tension (kN) 250

Issued at **Hamburg** on **2022-11-09**

This Certificate is valid until **2027-11-08**.

DNV local unit: **Hamburg – CMC North/East**

for **DNV**

Approval Engineer: **Aadil Wafdi**

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.

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 300,000 USD.



Form code: TA 251

Revision: 2022-09

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Turnbuckle

Application/Limitation

Load	Tension [kN]
Test Load	313
Breaking Load	500

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
P-RS 1623		Turnbuckle (Spannschraube)
P-RS 1624		Turnbuckle (Spannschraube)
P-RS 1625		Turnbuckle (Spannschraube)
P-RS 1626		Turnbuckle (Spannschraube)
P-RS 1627		Turnbuckle (Spannschraube)
P-RS 1628		Turnbuckle (Spannschraube)
P-RS 1631		Turnbuckle (Spannschraube)
P-RS 8077 C		Bolt
P-RS 8099 F		Fork for Turnbuckles Forged Element
P-RS 8107 C		Bolt for Turnbuckles
P-RS 8120 E		Fork for Turnbuckles Forged Element
P-RS 8224 D		Sliding Nut
P-RS 8234 A		Headmounting (Kopfbeschlag)
P-RS 8235 A		Pipe
P-RS 8329		Fork for Turnbuckles
P-RS 8350		Fork for Turnbuckles
P-RS 8351		Fork for Turnbuckles
P-RS 8373		Fork for Turnbuckles
P-RS 8384		Fork for Turnbuckles
P-RS 8453		Fork for Turnbuckles

Drawing approval: Ref.No.: 262.1-038300-1, dated 2022-11-02
Test report No.: CP-0068 dated 2022-09-15

Tests carried out

The prototype test was carried out in Shanghai, P.R. China, dated 2022-09-15 in accordance with the DNV-CP-0068. Lashing bars and turnbuckles were tested together to proof load and min. breaking load.

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.