

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Lifting Frame**

with type designation(s)

**D1064.20.33, D1064.20.33 (-40°C), D1064.20.36, D1064.20.36 (-40°C), D1064.20.40,
D1064.20.40 (-40°C), D1064.20.45, D1064.20.45 (-40°C), D1064.20.50, D1064.20.50 (-40°C),
D1064.20.55, D1064.20.55 (-40°C), D1064.40.36, D1064.40.36 (-40°C), D1064.40.40,
D1064.40.40 (-40°C), D1064.40.45, D1064.40.45 (-40°C), D1064.40.50, D1064.40.50 (-40°C)**

Issued to

**Bruno Dabelstein Stahl- und Maschinenbaugesellschaft mbH
Boizenburg, Mecklenburg-Vorpommern, Germany**

is found to comply with

DNV GL standard DNVGL-ST-0377 – Standard for shipboard lifting appliances**Application :**

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

Issued at **Hamburg** on **2018-08-01**This Certificate is valid until **2023-07-31**.for **DNV GL**DNV GL local station: **Hamburg**Approval Engineer: **Stefan Heuer**

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**Jörg Kallies
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.



Product description

20ft and 40ft Container Spreader type D1064

Application/Limitation

1. Working conditions:

- Design temperature: -10°C / -40°C
- SWL: 36t up to 55t
- Hoist load coefficient (psi): max. 1.4
- Load cycles: max. 20.000

2. All materials are to be delivered with 3.1 certificates acc. to EN 10204 (or ISO 10474), documenting mechanical properties and chemical composition in compliance with DNVGL-ST-0377, Section 3.

3. Welds and NDT are to be carried out by certified personnel and shall comply with the requirements stated in the DNVGL-ST-0377, Section 11.

4. Product certification

To obtain DNVGL Product Certificates, each spreader shall be load- and function tested (DNVGL-ST-0377, Table 7-1) with Lpstat: $(1.04 \times \text{SWL}) + 9.6\text{t}$

The following functions of the spreader shall be demonstrated to our surveyor:

- a) the reliable operation of locking and unlocking of the twist locks
- b) indicators showing in a suitable manner whether the twist locks are locked or unlocked

Type Approval documentation

Manufacturer

S.M.R. Industrie- und Schiffsservice GmbH
Boizenburg/Elbe, Germany

Marking of product

Each spreader shall be marked by the manufacturer with at least (DNVGL-ST-0377, 7.4):

- Manufacturer's name or trademark
- Type of loose gear
- Serial number
- Year of construction
- Nominal load(s) "SWL" in t or kg
- Dead load "WT" in t or kg

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform a periodical assessment after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE