DNV·GL

Certificate No:
TAS00000VK

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Anchor

with type designation(s)
HA-DU PowerAnchor

Issued to
HEINRICH HARBISCH Schiffswerft GmbH
Duisburg Nordrhein-Westfalen, Germany

is found to comply with
GL Rules for Classification and Construction II - Materials and Welding

Application :

Anchor is approved for the installation on inland waterway vessel according to Binnenschiffsuntersuchungsordnung - BinSchUO

Issued at **Hamburg** on **2017-01-02**
This Certificate is valid until **2022-01-01**.
DNV GL local station: **Essen**

Approval Engineer: **Ansgar Gorissen**

for **DNV GL**

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 Examination Certificate and not to the approval of equipment/systems installed.

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Job Id:
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Product description

HA-DU PowerAnchor, with weight up to 5760 kg.

Application/Limitation

- Installation on inland waterway vessel according to Binnenschiffsuntersuchungsordnung – BinSchUO
- Weight reduction of 50% in comparison to an ordinary stockless anchor.
- Individual inspection of each product. The surveyor has to issue product certificate for each anchor.
- The materials as stated in approved drawings to be delivered with material certificates documenting chemical composition and mechanical properties in accordance with the rules for classification.

Type Examination documentation

Seabed test report of ZSUK
Drawing approval ref. no. 11-015048 /2011-02-27

Tests carried out

Testing of anchors is to be carried out as described in rules for classification.

Marking of product

Each anchor shall be marked according to rules for classification.

Certificate Retention Survey

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