Certificate no.:
TAS000059T

TYPE APPROVAL CERTIFICATE

This is to certify:

that the High Holding Power Anchor

with type designation(s)
AC-14 SELF BALANCE H.H.P ANCHOR

issued to
Asian Star New Heavy Industry Co., Ltd. Chongqing
Chongqing, **China**

is found to comply with

DNV rules for classification – Ships

Application:

Approved for use as High Holding Power Anchor according to DNV GL Rules for with 25% weight reduction compared to ordinary stockless anchor.

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

Issued at **Hamburg** on **2026-04-07**
This Certificate is valid until **2031-04-06**.
DNV local unit: **Wuhan NB & CMC**

for **DNV**

Approval Engineer: **Ansgar Gorissen**

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

AC-14 SELF BALANCE H.H.P ANCHOR 50 kg - 40000 kg

Application/Limitation

- This certificate (design assessment) is a verification of the design towards the listed rules/requirements. The assessment does not waive requirements for certification of the anchor (i.e. issuance of DNV product certificate) or classification procedure required by DNV rules for products installed on DNV classed vessels.
- The manufacturer is required to have a DNV surveyor witness all important production and tests as required.
- Each anchor is to be delivered with required material certificates in accordance with Pt.3 Ch.1 Sec.3 [3.1] and Ch.11 Sec.1 [4.2] with the specifications from the approved drawing below. Materials specified to other standards than DNV Rules shall fulfil the relevant corresponding rules requirements in Pt.2.
- Assembly and fitting tolerance shall be in accordance with Pt.3 Ch.11 Sec.1 [4.4].
- All welding is to be carried out by qualified welders and according to approved welding procedures.
- Surveyor is to issue DNV Product Certificate and each anchor is to be tested prior to issuance of this. Proof load applied is to correspond to the weight of a normal stockless anchor, which is 4/3 of the HHP anchor weight according to Pt.3 Ch.11 Sec.1 [4.5].
- Relevant NDT shall be performed after proof load testing according to Pt.3 Ch.11 Sec.1 [4.5], and to the attending surveyor's satisfaction.
- All welding is to be carried out by qualified welders and according to approved welding procedures.

Type Approval documentation

Drwg AC-14 SELF-BALANCE H.H.P ANCHOR drwg. No. YX24-037-50~40000

Tests carried out

2025-04-17 – 2025-04-23, Wusongkou anchorage No. 8 & No. 9, Wusongkou Port near Changxing Island Panshi Port red buoy

Marking of product

Each anchor shall be stamped according to Rules Pt.3 Ch.11 Sec.1 [4.7].

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment after two years (+/-90days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNVGL-CP-0338.