DNV·GL

Certificate No:
**TAS00001ET**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**That the High Holding Power Anchor**

with type designation(s)
**HHP JYD anchor 300kg - 25000kg**

Issued to
**Jiangsu Yangyuan Marine Equipment Casting Co., Ltd.**
**Taizhou City, China**

is found to comply with
**DNV GL rules for classification – Ships**

## Application :

**Approved for use as High Holding Power Anchor according to DNV GL Rules for weights from 300kg to 25000kg, 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 GL.**

Issued at **Høvik** on **2018-04-30**
This Certificate is valid until **2023-04-29**.
DNV GL local station: **Nantong**

Approval Engineer: **Chi Wan Bang**

for **DNV GL**

**Aldo Matteucci**
**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.


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Job Id: **262.1-005542-9**
Certificate No: **TAS00001ET**

## Product description

High Holding Power (HHP) JYD anchor from 300kg to 25000kg

## 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 DNVGL product certificate) or classification procedure required by DNVGL rules for product installed on DNVGL classed vessels.
- The manufacturer is required to have a DNVGL surveyor witness all important production and tests as required.
- Each anchor and anchor shackle are to be delivered with required material certificates in accordance with Pt.3 Ch.1 Sec.3 Table 2 with the specifications from the approved drawing below. Materials specified to other standards than DNVGL Rules shall fulfill the relevant corresponding rules requirements in Pt.2.
- Material of the anchor shackle pin is K2.
- Shackle pin fitting and pin to hole tolerance shall be in accordance with Pt.3 Ch.11 Sec.1 [4.4.1].
- All welding is to be carried out by qualified welders and according to approved welding procedures.
- Surveyor is to issue DNVGL 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.

## Type Approval documentation

## Tests carried out

Sea bed tests carried out on 25$^{th}$ of April 2008. Report: H08-5-02 BG - "Sea Trial Report of the High Holding Power Anchor" (dated April 25, 2008).

## 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 (+/- 90 days) 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.

**END OF CERTIFICATE**