

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cranes, gen.**with type designation(s)
NPT30DRE

Issued to

Jiangyin Neptune Marine Appliance Co., Ltd.
Jiangyin City, China

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 installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2019-02-19**This Certificate is valid until **2024-02-18**.DNV GL local station: **Jiangyin**for **DNV GL**Approval Engineer: **Stefan Heuer**

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

The drawings are evaluated with respect to structural strength and material qualities according to DNVGL-ST-0377 Edition 2018 "Shipboard Lifting Appliances", as shipboard crane type A1.

- Safe Working Load (SWL): 3t (30 kN)
- Max. working radius: 7.5m
- Wire rope: Ø14 mm, galv., rotation resistant, MBL=107kN
- Heel/Trim: 2°/5° degrees
- Design dynamic factor: 1.3
- Design temperature: -20°C

Application/Limitation

- All materials are to be delivered with material certificate type 3.1 documenting mechanical properties in accordance with DNVGL-ST-0377 Edition 2018.
- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standards and are to be delivered with relevant certificates for materials and testing.
- Slewing gears are not covered by this approval and have to be delivered with manufactures product certificate.
- Winch is not covered by this approval and has to be delivered with manufactures product certificate.
- Installation on board, support to the deck structure and connection to power supply are not included in this approval and shall be evaluated in each case.
- After installation on board, thorough testing shall be carried out as basis for issuance of CG2 crane certificate.
- All lifesaving equipment is not covered by this certificate.
- Lifting of personnel is not allowed when used as crane function.

Type Approval documentation

Tests and welding

The crane shall be tested in "as installed" condition prior to first use. Functional testing shall be performed, in the presence of a DNVGL surveyor and in accordance with DNVGL-ST-0377 Standard for "Shipboard Lifting Appliances", October 2018.

All welding are assumed carried out by qualified welders and according to welding procedures acceptable to the surveyor. NDT is to be in accordance with DNVGL-ST-0377 Standard for "Shipboard Lifting Appliances", October 2018 Sec.11 [11.5.8] and to the surveyor's entire satisfaction.

The manufacturer is required to have a DNVGL surveyor witnessing all important production and tests as required. Based on this witnessing the surveyor should personally stamp the units, sign the reports and issue certificate.

Marking of product



Job Id: **262.1-017189-2**
Certificate No: **TAS00001Y0**

Each unit is to be marked with manufactures name or trade mark, type designation, serial number, safe working load in accordance with DNVGL-ST-0377 Standard for "Shipboard Lifting Appliances", October 2018.

Periodical assessment

For retention of the Type Approval, a DNVGL 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