

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Winch - General Application**

with type designation(s)

**JYQ13 CYCLOIDAL NEEDLE WHEEL WINCH,
JYQ20 CYCLOIDAL NEEDLE WHEEL WINCH,
JYQ26 CYCLOIDAL NEEDLE WHEEL WINCH**

Issued to

**Jiangsu Jiaoyan Marine Equipment Co., Ltd.
JIANGYIN JIANGSU, 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 **2018-01-09**This Certificate is valid until **2023-01-08**.for **DNV GL**DNV GL local station: **Jiangyin**Approval Engineer: **Frank Poetsch**

**Burkhard Lilienthal
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

JYQ13 – 13kN, JYQ20 - 20kN, JYQ26 - 26kN

Application/Limitation

TYPE	JYQ13	JYQ20	JYQ26
SWL	13kN	20kN	26kN
Motor	YZ132M-6-H	YZ160L-6-H	YZ160L-6-H
Frequency	50/60Hz	50/60Hz	50/60Hz
Power	5.5/6.3kW	11/13kW	11/13kW
Drum - ø	220mm	320mm	360mm
Dia of rope - ø	10mm	12-14mm	16mm
MBL of rope	>65kN	>100kN	>130kN
Hoisting speed m/min	>20	>20	>20
Layer	3	3	3
Safety windings, min.	4	4	4

Type Approval documentation

Tests carried out

- 1.) Type Test Report JYQ26 - 26kN acc. DNVGL-ST-0377, dd 2017-12-18 witnessed by surveyor
- 2.) Type Test Report JYQ20 - 20kN acc. DNVGL-ST-0377, dd 2017-12-18 witnessed by surveyor
- 3.) Type Test Report JYQ13 - 13kN acc. DNVGL-ST-0377, dd 2017-12-18 witnessed by surveyor

from office DNV GL Jiangyin – CMC

Marking of product

Manufacturer's name or trade mark and type designation.

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform an assessment after 2 years and after 3.5 years to verify that the conditions of the type approval are complied with. A renewal assessment will be performed at renewal of the certificate.

The objective of the Periodical Assessment is to verify that the conditions for the Type Approval are not altered since the Type Approval Certificate was issued. The main scope of the Periodical Assessment will normally include:

- Verification of the Type Approval applicant's production and quality system w.r.t. ensuring continued consistent production of the Type Approved products at the Type Approval applicant's own premises and at other companies that are given the responsibility for manufacturing of the products
- Review of the Type Approval documentation and that this is still used as basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking

In cases where the Type Approved product is manufactured at other companies, the Periodical Assessment shall verify that the Type Approval applicant has a quality control system for consistent production at their licensees/subcontractors. Furthermore Periodical Assessment shall be carried out randomly at these companies.

When a Type Approved product is manufactured at other companies, the Type Approval applicant takes the sole responsibility for the conformity of the product to the applicable requirements.



Job Id: **262.1-027101-1**
Certificate No: **TAS00001BT**

END OF CERTIFICATE