



Certificate No:
TAS00003D5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Accommodation Ladder/Winch

with type designation(s)
Pnematic/Electric Accommodation Ladder Winch

Issued to
Jiangsu Ouya Marine Outfitting Co., Ltd.
Taizhou, Jiangsu, China

is found to comply with
ISO 7364 Shipbuilding and marine structures - Deck machinery - Accommodation ladder winch

Application :

10/16/20kN Pnematic/Electric Accommodation Ladder Winch

Issued at **Høvik** on **2022-07-26**

This Certificate is valid until **2027-07-25** .

for **DNV**

DNV local unit: **Nantong**

Approval Engineer: **Paulo Correia**

.....
Per Esvall
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.

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 300,000 USD.



Form code: TA 281

Revision: 2021-10

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Product description

Accommodation Ladder Winch in 6 variations:

Type	Drum Load kN	Holding Load kN per rope	Wire Diameter mm	Minimum Rope braking Strength kN	Length of wire on drum (m)
10kN Electric	10	15	13mm	96	2x18.5
10kN Pneumatic	10	15	13mm	96	2x18.5
16kN Electric	16	24	15mm	142	2x25
16kN Pneumatic	16	24	15mm	142	2x25
20kN Electric	20	30	15mm	154	2x35
20kN Pneumatic	20	30	15mm	154	2x35

Application/Limitation

- This Type Approval covers design(s) only, i.e., the Type Approval is not valid for the final product but may be used as basis for obtaining a product certificate.
- The connection and support of the winch to the ships' structure is not covered by this verification and is understood covered by separate drawings in connection with the approval of the hull structure.
- Motor, wire, system, and its related equipment are not parts of approval scope.
- The functionality of the friction connection in the winch gear is not covered by this verification and is to be proved by tests at site.
- The motor for the winch has not been evaluated in this verification. It is to be delivered with manufacturer's certificates documenting sufficient capacity.
- The wire rope of the winch is to be delivered in compliance with the requirements given in ISO 7364:2016(E), with respect to dimension and minimum breaking strength.
- Overload capacity and emergency stop of the winch shall be verified according to ISO 7364:2016(E) 5.3 and 5.4.
- Electrical equipment of winches shall be installed in accordance with IEC 60092-401 according to ISO 7364:2016(E) 4.13 as confirmed by the manufacturer.
- If a DNV product certificate is requested to be issued for each product, the following will apply:
 - The manufacturer is required to have a DNV surveyor witness all important production and tests as required.
 - Non-destructive testing is to be carried out to the attending surveyor's satisfaction.
 - All welding is to be carried out by approved welders and according to approved welding procedures.
 - Materials as stated on the above drawings are to be delivered with certificates minimum equal to EN-10204 3.1.

Type Approval documentation

<u>Drawing No.</u>	<u>Rev.</u>	<u>Title(s)</u>
Doc binder	-	10KN ELECTRIC ACC-LADDER WINCH (44 pages)
Doc binder	-	10KN PNEUMATIC ACC-LADDER WINCH (44 pages)
Doc binder	-	16KN ELECTRIC ACC-LADDER WINCH (43 pages)
Doc binder	-	16KN PNEUMATIC ACC-LADDER WINCH (43 pages)
Doc binder	-	20KN ELECTRIC ACC-LADDER WINCH (61 pages)
Doc binder	-	20KN PNEUMATIC ACC-LADDER WINCH (66 pages)
Q241JS0Y-20E-00	-	Accommodation Ladder Electric Winch - 20KN
Q241JS0Y-20P-00	-	Accommodation Ladder Pneumatic Winch - 20KN
Q241JS0Y-10E-00	-	ED10 L/R DD Electric Accommodation Ladder Winch 10KN
Q241JS0Y-10P-00	-	ED10 L/R DD Pneumatic Accommodation Ladder Winch 10KN
	-	Replace page 25 from 10KN ELECTRIC / PNEUMATIC WINCH doc binder

Q241JS0Y-01-4-09	-	Replace page 26 from 10KN ELECTRIC / PNEUMATIC WINCH doc binder
	-	Replace performance parameter ED10 L/R DD Electric Winch in binder
	-	Replace performance parameter ED10 L/R DD Pneumatic Winch in binder
	-	Winch Drum for 16KN ELECTRIC / PNEUMATIC WINCH

Tests

Type testing carried out and witnessed by DNV Nantong station and stamped on 2022-06-23.

After completion, testing as described in ISO 7364:2016(E) 6 Acceptance tests, including overload and emergency stop shall be carried out.

After installation, onboard tests as a part of the complete accommodation ladder unit and inspection as given in ISO 7364:2016(E) 6.5, MSC.1/Circ.1331 §3.6 and §5.3 shall be carried out.

Marking of product

Each winch shall be marked according to ISO 7364:2016(E) 7 Designation.

Certificate Retention Survey

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.

Periodical assessment

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

END OF CERTIFICATE