

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Accommodation Ladder/Winch**with type designation(s)
ED10L/R D(D); PD10L/R D(D)

Issued to

Jiangyan City Marine Outfitting Co., Ltd.
Jiangyan, JIANGSU, China

is found to comply with

ISO 7364 Shipbuilding and marine structures - Deck machinery - Accommodation ladder winch**Application :****Pneumatic and electric winches for accommodation ladders.**Issued at **Høvik** on **2019-02-06**This Certificate is valid until **2024-02-05**.DNV GL local station: **Nantong**for **DNV GL**Approval Engineer: **Xiao Long Eric Song**

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.



Product description

Pneumatic winch type PD10L/R D, Electric winch type ED10L/R D:

- Drum load: 10 kN
- Holding load: 30 kN
- Wire diameter: 13 mm
- Length of wire on drum: 40 m

Pneumatic winch type PD10L/R DD, Electric winch type ED10L/R DD: (split drum)

- Drum load: 2 x 5 kN
- Holding load: 2 x 15 kN
- Wire diameter: 13 mm
- Length of wire on drum: 2 x 26 m

Application/Limitation

- Materials as stated on the above drawings are to be delivered with certificates minimum equal to EN-10204 3.1.
- The motor for the winch has not been evaluated in this verification. It is assumed delivered with manufacturer's certificates documenting sufficient capacity.
- The wire rope of the winch is assumed delivered in compliance with the requirements given in ISO 7364, with respect to dimension and minimum breaking strength.
- Testing as described in ISO 7364 Part 6 is to be carried out.
- 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.
- 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.

Type Approval documentation

Tests carried out

Prototype test was carried out 2015-04-15 in accordance with ISO 7364-1983(E), witnessed by DNV GL Nantong.

Marking of product

The winches are to be marked according to ISO 7364-2016(E), chapter 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.