DNV·GL

Certificate No:
TAS00002FK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Accommodation Ladder/Winch

with type designation(s)
E30L/RDD, P30L/RDD

Issued to
Taizhou Hengshun Machinery Manufacturing Factory
Jiangyan, 100, China

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

Application :

Accomodation ladder winches per ISO 7364:2016(E) as stated on page 2 of this certificates used for accommodation ladders according to MSC Circ.1331

Issued at **Høvik** on **2020-05-15**
This Certificate is valid until **2025-05-14**.
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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Product description

Accommodation ladder winches with the following information:

	Drum load (kN)	Holding load (kN)	Wire diameter (mm)	Length of wire on drum (m)	minimum rope strength* (kN)
E30L/RDD	30	90	20	2 x 40	233
P30L/RDD	30	90	20	2 x 40	233

-E: Electric winch type
-P: Pneumatic winch type
-DD: The winch is a split drum configuration and the load stated above the sum of the forces on each rope.
*: The minimum rope strength according to ISO 7364:2016(E) with Safety Factor equal 5.

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 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 7364:2016(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 GL product certificate is requested to be issued for each product, the following will apply:
  - The manufacturer is required to have a DNV GL 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

Tests carried out

Type testing carried out and witnessed by DNV GL Nantong station and stamped on YYYY-MM-DD.

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.

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