DNV·GL

Certificate No:
TAS00001A1

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Accommodation Ladder/Winches

with type designation(s)
Electric Acc. Ladder Winch ED16L/R D, Electric Acc. Ladder Winch ED16L/R DD, Air Acc. Ladder Winch PD16L/R D, Air Acc. Ladder Winch PD16L/R DD

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

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

Application :

This Type Examination Certificate (TE) covers the construction of the winches and the design approval/plan approval required for the certification of accommodation ladder winches.

Issued at **Hamburg** on **2017-11-21**
This Certificate is valid until **2022-11-20**.
DNV GL local station: **Nantong**

Approval Engineer: **Frank Poetsch**

for **DNV GL**

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 Examination Certificate and not to the approval of equipment/systems installed.

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Job Id: **262.1-025694-1**
Certificate No: **TAS00001A1**

Product description

ED16 L/R D – 16kN, ED16 L/R DD – 2x 8kN, PD16 L/R D – 16kN, PD16 L/R DD – 2x 8kN

Application/Limitation

Drum load, type D/DD:	16kN / 2x 8kN
Supporting load, type D/DD:	48kN / 2x 24kN
Winding wire layers on drum:	3
Wire rope size:	15mm (min. grade 1770)
Breaking load of the steel wire rope:	5 times the actual holding load (safety factor x5)
Motor:	electric/pneumatic

Type Examination documentation

is based on the following drawings, verified with DNV GL plan approval MCADE698-P261.1C-3

DWG No	**Title**
Q241JYCX-16E-D	Electric Acc. Ladder Winch ED16 L/R D
Q241JYCK-16E-DD	Electric Acc. Ladder Winch ED16 L/R DD
Q241JYCK-16A-D	Air Acc. Ladder Winch PD16 L/R D
Q241JYCK-16A-DD	Air Acc. Ladder Winch PD L/R DD
Q241JYCX-01-1-01A	Motor Gear Wheel, m 2.5, z 23
Q241JYCX-01-1-01B	Motor Gear Wheel, m 2.5, z 23
Q241JYCX-01-2-01A	Gear Wheel Axle
Q241JYCX-01-2-05A	Interrim Gear Wheel
Q241JYCX-01-3-05	Friction Gear
Q241JYCX-01-3-06	Friction Ratchet Wheel
Q241JYCX-01-3-06-01	Ratchet Wheel
Q241JYCX-01-3-06-05	Ratchet Pawl
Q241JYCX-01-3-10A	Gear Wheel Shaft, m 4, z 13
Q241JYCX-01-4-05A	Big Gear. m 4, z 68
Q241JYCX-01-4-07A	Output Shaft
Q241YCX-01-4-09A	Drum, ø 219mm (two section)
Q241YCX-01-4-09A-S	Drum, ø 219mm

Tests carried out

Acc. ISO 7364:2016(E) Ships and marine technology – Deck machinery- Accommodation ladder winches, Part 6 – Acceptance test (factory test)

1.) Acceptance test, winch PD16L/R-D dd 2017-10-18, witnessed by DNVGL Nantong dd 2017-10-18 (Chen, Zhi Jacky)
2.) Acceptance test, winch PD16L/R-DD dd 2017-10-18, witnessed by DNVGL Nantong dd 2017-10-18 (Chen, Zhi Jacky)
3.) Acceptance test, winch ED16L/R-D dd 2017-10-18, witnessed by DNVGL Nantong dd 2017-10-18 (Chen, Zhi Jacky)
4.) Acceptance test, winch ED16L/R-DD dd 2017-10-18, witnessed by DNVGL Nantong dd 2017-10-18 (Chen, Zhi Jacky)

Certificate Retention Survey

Type Approval Assessment Report Rev. 0 dd 2017-10-26, Jiangyan City Marine Outfitting Co., Ltd.; Jiangyan Road East The Civilian´s Economic Developing Zone Jiangyan, issued by DNV GL Nantong, China – Chen, Zhi Jacky (DNV GL Surveyor)