

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Winches for survival craft and rescue boats: free-fall lifeboats

with type designation(s)
IYJ2.53-39-57-16-ZPN & IYJ2.53-29-48-16-ZPN

Issued to
Ini Hydraulic Co., Ltd
Ningbo, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773**,
item No. MED/1.41b. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, III/24, III/34, X/3, LSA Code and 2000 HSC Code

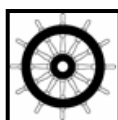
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-09-18**.

Issued at **Høvik** on **2018-09-19**

DNV GL local station:
Ningbo

Approval Engineer:
Paulo Correia



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

Rescue boat davit Winch in two variations:

- A. Winch type IYJ2.53-39-57-16-ZPN
Maximum Working Load, MWL = 38,5 kN (3 layers)
Wire Rope Diameter = 16 mm
- B. Winch type IYJ2.53-29-48-16-ZPN
Maximum Working Load, MWL = 28,6 kN (3 layers)
Wire Rope Diameter = 16 mm

Application/Limitation

- Grades of materials as stated on drawings are to be delivered with makers product certificates (3.1).
- The various components transferring the load like wires, shackles, hooks, etc. are to comply with international standards or codes and are to be delivered with manufacturer's certificate, confirming a safety factor minimum 6 compared to the sustained load.
- Falls to be used with the launching appliance shall be of rotation-resistant and corrosion-resistant steel wire rope.
- Installation, onboard testing (MSC.81(70) part.2), support to the deck structure, and connection to power supply are not included in this examination and shall be accepted by attending surveyor in each case.

Type Examination documentation

Ref. approval NACNO375/NATAS/344.1-001935-J-4 of 2010-05-03 / NACNO375/NATAS/344.1-001935-J-7 of 2010-05-20 / NACNO375/NATAS/344.1-001932-J-4 of 2010-05-12 / NACNO375/NATAS/344.1-001932-J-6 of 2010-05-20

Winch A

CO3301-108	23032010/1	SECOND STAGE PLANET GEAR
JO2.53156W	20052010/4	IYJ2.53-39-57-16-ZPN
JO2.53156	20052010/4	IYJ2.53-39-57-16-ZPN
J00301-101	23032010/1	SUPPORT BEARING
JO2.53156-1	23032010/2	FRAME
JO2.53156-2	20052010/3	DRUM
KC00302-108	23032010/1	KC3 SMALL SHAFT
KC02.5309	23032010/1	KC2.53 GEARBOX
KC02.5309-101	23032010/1	KC2.53-3G PLANETARY FRAME
KC02.5309-102	23032010/1	GEAR BOX HOUSING
KC02.5309-103	23032010/1	FIRST STAGE SUN GEAR
KC02.5309-105	23032010/1	SECOND STAGE SUN GEAR
KC02.5309-106	23032010/1	KC2.53-2.5a PLANETARY FRAME
KC02.5309-107	23032010/1	GEAR BOX HOUSING
KC02.5309-112	23032010/1	KC2.53-3G PLANETARY GEAR
KCD02.52.501-104	23032010/1	FIRST STAGE PLANET GEAR
KCD02.52.501-105	23032010/1	SMALL SHAFT
LM001-106	23032010/1	SMALL BRAKE
LM001-107	23032010/1	DYNAMIC BRAKE

Job Id: **344.1-001935-22**
Certificate No: **MEDB000040Z**

Winch B

J02.53338	IYJ2.53-29-48-16-ZPN Free fall lifeboat winch
J02.53338-1	IYJ2.53-29-48-16-ZPN Frame
J02.53338-2	IYJ2.53-29-48-16-ZPN Drum
J02.53338W	IYJ2.53-29-48-16-ZPN Free fall lifeboat winch
	Material physical and chemical properties

Tests carried out

Prototype testing according to IMO Resolution MSC 81(70) is carried out in 2010-08-10 and in 2018-09-10 witnessed by DNV GL Ningbo.

Marking of product

Marking shall be implemented in accordance with the LSA Code, item 1.2.2.9 and the Directive.

- Type designation, manufacturer name and serial number
- Maximum Working Load, MWL

The Mark of Conformity shall include DNV Notified Body number and the last two digits of the production year.

END OF CERTIFICATE