DNV·GL

Certificate No:
MEDB00005UC

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Winches for survival craft and rescue boats: (d) rescue boats

with type designation(s)
ZR4.13, ZR4.15, ZR4.15CT, ZR4.20, ZR4.20CT, ZR4.24, ZR4.24CT

Issued to
Zollern GmbH & Co. KG
Herbertingen, Baden-Württemberg, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2019/1397,**
item No. MED/1.41d. SOLAS 74 as amended, Regulation III/4, III/16, III/17, III/23, 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 **2024-11-10**.
Issued at **Hamburg** on **2019-11-11**

DNV GL local station:
Augsburg

Approval Engineer:
Frank Poetsch

Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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Product description

Winches for rescue boats, winch types ZR 4.13, ZR 4.15, ZR 4.20, ZR 4.24 (without constant tension) and ZR 4.15 CT, ZR 4.20 CT, ZR4.24 CT (constant tension)

Application/Limitation

The rescue boat winch family suited for hydraulic/electr. motor operation, to veer or to pay out by gravity (stop & go), manual operation lowering (no load on the hook) and manual operation hoisting.
Remote control for the gravity lowering system by "let-go" or "stop & go" function.
The gravity lowering system is completely internal placed in an oil chamber.
Winches with type affix "CT" are equipped with "wave compensation". Further technical data are unchanged.

	ZR 4.13	**ZR 4.15**	**ZR 4.15CT**	**ZR4.20**	**ZR 4.20CT**	**ZR 4.24**	**ZR 4.24CT**
Line pull hydr./electr.	12kN	25/28kN	25/28kN	40kN	40kN	65kN	65kN
Holding load	12kN	25/28kN	25/28kN	40kN	40kN	65kN	65kN
Rope - ø	10mm	13mm	13mm	18mm	18mm	20mm	20mm
Wave comp.	no	no	yes	no	yes	no	yes

Winch testing shall be performed in the presence of a DNV GL - surveyor, unless otherwise agreed.

We point out that the adjustment work regarding the wave compensation of the ZR-winches (series CT) take place on ZOLLERN Test Bench. These adjustments have to carried out by qualified personnel and the setting values shall be record in electronic form. The records have to be submitted to the winch documents. Any presence of DNVGL-surveyor is not needed.

Type Examination documentation

Tests carried out

According IMO Resolution MSC.81(70), amended up to MSC.323(89), Part 1, Regulation 8.1.
Type Test Report Serial No.: 175 d.d. 2013-02-13, winch type ZR4.20 – 04.20 10166, approval organization U.S. Coast Guard; DNVGL Cert. No. N1415ZAU Rev. 01 dd 2018-12-07, winch type ZR 4.15 1528867 Serial no. 101 and GL Cert no. 71914 AB d.d. 2010-10-08, winch type ZR 4.24_1100625 Serial no. 101.

Marking of product

Manufacturer´s name or trade mark and type designation.
End of certificate