

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: (c) liferafts

with type designation(s)
W02EM.FAM1

Issued to

Global Davit GmbH
Bassum, Niedersachsen, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773**,
item No. MED/1.41c. 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

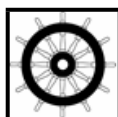
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-01-23**.

Issued at **Hamburg** on **2019-01-24**

DNV GL local station:
Bremerhaven

Approval Engineer:
Frank Poetsch



Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudsus
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Product description

Winches for liferaft, winch types W02EM.FAM1

Designer

Maritime Design Office bv, 3833 LD Leusden, The Netherlands

Application/Limitation

The W02EM.FAM1 includes liferaft winches allowing an output torque of maximum 2,4 kNm. The winches are manually driven but may be equipped with a motor for recovery of a fully manned liferaft (Means Of Rescue) or of the empty hook only. The gravity lowering speed is between 40 and 60 m/min. The single drum has a length of 200 mm. The design temperature is min. -20°C. The family is shown on the attached drawing 4-0659-Rev.B.

Type Examination documentation

Is based in the following drawings, verified with GL Job ID's:
09-025574 (d.d. 2010-07-23).

Drawing No./Rev.	Drawing title
3-4753 - 0	Ass'y W02M.30 (hoisting manually only)
3-4754 - 0	Ass'y W02M.31 (hoisting manually only)
3-4751 - 0	Ass'y W02E.30 (hoisting fully manned raft)
3-4752 - 0	Ass'y W02E.31 (hoisting fully manned raft)
3-2948 - C	Arrangement drum W02
2-2189 - F	Arrangement drum W02/QR
2-2191 - G	Drum 244,5*200
2-2187 - F	Drum 244,5*200/QR
2-2228 - G	Section gearbox 2,4 kNm
1-2612 - C	Gearbox winch W02
2-2184 - E	Shaft for drum 02kNm
3-2945 - C	Toothwheel z=69/5/50/0
3-2946 - B	Pinion z=12/5/58/0,5
4-2590 - B	Toothwheel z=96/3/35/0
2-2186 - C	Shaft for crank-handle
3-2954 - B	Toothwheel z=55/3/29/0
3-3270 - B	Pinion for motor 100-112
1-2627 - E	Section brake 200*30
4-0659 - B	Kinematic diagram W02EM/04EM (2nd/-/4th generation)

Tests carried out

According IMO Resolution MSC.81(70), amended up to MSC.323(89), Part 1, Regulation 8.1.
Type Test Report W02EM.30 d.d. 2010-08-24.
Type Test Report W02EM.31 d.d. 2010-02-10.

Marking of product

Manufacturer's name or trade mark and type designation.

END OF CERTIFICATE