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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 11869-2018

Replacing GB/T 11869-2007

Shipbuilding and marine structures -- Deck machinery -- Towing winches for deep sea use

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(English Translation)

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Preview: page 1 of 4 shown, 9 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/gb-t-11869-2018

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

3.1 General terms

3.2 Type of winch (see Figure 1)

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 11869-2007 "Ocean marine towed winch".

This standard has the following technical changes compared with GB/T 11869-2007.

---Modified some terms, increased the terms of nominal speed, discharge load, intermediate winch, two-sided winch, waterfall winch (the first Chapter 3, Chapter 3 of the 2007 edition);

--- Added schematic diagram of single-roller winch on both sides and double-roller waterfall-type winch on both sides (3.2.6, 2007 edition 4.1);

--- Increased roll load is 100kN,.200kN, 320kN, 560kN, 2500kN, 3000kN, 3500kN, 4000kN, Basic parameters of 4500kN, 5000kN, 6000kN winches (Table 1, 2007 edition Table 1);

---Modified the roll load is 160kN, 250kN, 400kN, 630kN, 800kN, 1000kN, 1250kN, 1600kN, Some basic parameters of the.2000kN winch (Table 1, 2007 edition Table 1);

--- Modified the requirements for the calculation of the locked load and the load stress of the drum (4.2, 2007 edition 5.2);

--- Removed the requirements for load limiting devices in design and operation (2007 version 5.3);

--- Increased the requirements for load alarm devices in design and operation (4.3);

---Modified the requirements for the diameter of the reel in the reel design (4.5.2, 2007 version 5.5.2);

--- Revised the requirements for the flange height of the reel in the reel design (4.5.5, 2007 version 5.5.5);

--- Removed the requirement for the rope arranging device in the auxiliary equipment (2007

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version 5.6.1);

--- Increased the requirements for the console and its layout in the auxiliary equipment (4.6.1);

--- Increased the requirements of the emergency release test in the acceptance test (6.4);

--- Increased the product nameplate requirements (7.3).

This standard uses the translation method equivalent to ISO 7365:2012 "shipbuilding and offshore structures deck machinery ocean towing winch".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 3893-2008 Shipbuilding and offshore structures deck machinery terminology and symbols (ISO/FDIS3828.2007, IDT)

---GB/T 20118-2006 General purpose wire rope (ISO/DIS2408.2002, MOD)

---CB/T 3827-1998 Stranded cable drum (ISO 6482:1980, NEQ) this standard mainly made the following editorial changes.

--- In Chapter 4, the "Table 2" in the original text of the international standard is revised to "Table 1", "Table 1" is modified to "Table 2", and "Table 1 winch basic the parameter "move to 4.1 after;

--- In Chapter 4 of Chapter 4, change the "300" of the editorial error roll load column in the original text of the international standard to "3000";

--- Table 2 in Chapter 4, the editorial error minimum wire rope breaking strength "Fmax" in the international standard text is changed to "Fmin".

This standard is proposed and managed by the National Marine Machinery Standardization Technical Committee (SAC/TC137).

This standard was drafted. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Nanjing Zhongzhou Oasis Machinery Co., Ltd., Ningbo Xinhong Hydraulic Co., Ltd., Shanghai Ship Research and Design Institute.

1 Scope

This standard specifies the design, operation, performance and acceptance tests of electric, hydraulic, diesel or steam driven ocean-going tow winches.

Claim.

This standard applies to ocean-going towed winches. The fiber rope winch can be referred to for execution.

Preview: page 3 of 4 shown, 9 in the full document. Complete English PDF, instant download:
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2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 2408 General purpose wire rope minimum requirements (Steelwireropesforgeneralpurposes-Minimumre-Requirements() ISO 3828 Shipbuilding and offshore structures deck machinery terminology and symbols (Shipbuildingandmarinestructures-Deckmachinery-Vocabularyandsymbols) ISO 6482 Shipbuilding Deck Mechanical Cable Cylinder Profile (Shipbuilding-Deckmachinery-Warpingendpro-Files)

3 Terms and definitions

The following terms and definitions defined by ISO 3828 apply to this document.

3.1 General terms

3.1.1

Nominal speed

The maximum rope speed that the winch can maintain when the winch is subjected to the drum load.

3.1.2

Release load renderingload the prime mover is set at a defined torque, and when the reel is wound with a single layer of wire rope, when the reel is opposite to the applied drive torque the maximum rope tension measured at the reel of the reel when the direction is first turned.

3.2 Type of winch (see Figure 1)

3.2.1

Right winch right-handwinch when the observer is on the side of the prime mover or controller, the reduction gearbox or reel drive is located on the winch on the right side of the reel.

3.2.2

Left type winch left-handwinch when the observer is on the side of the prime mover or controller, the reduction gearbox or reel drive is located on the winch to the left of the reel.

Preview: page 4 of 4 shown, 9 in the full document. Complete English PDF, instant download:
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