



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25015-2021

Ships and marine technology - Ship-shifting winches

Issued on: August 20, 2021

Implemented on: March 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document replaces GB/T 25015-2010 "Transferring Winch". Compared with GB/T 25015-2010, except for structural adjustments and editorial amendments

In addition, the main technical changes are as follows.

a) The change adds some normative reference documents (see Chapter 2, Chapter 7 of the.2010 edition);

b) Some terms have been changed, and the terms of light-load tension, light-load speed, and normally closed braking device have been added (see Chapter 3, 2010 edition Chapter 3);

c) The schematic diagrams of the left-hand moving ship winch and the right-hand moving ship winch have been changed (see 3.2.1 and 3.2.2, 4.1 in the.2010 edition);

d) The design and operation of the steel wire rope, drum length, drum flange height, automatic braking device, drum braking device, control

Device requirements (see 4.3, 4.4.2, 4.4.3, 4.6.1, 4.6.2, 4.9, 5.2.4, 5.2.6, 5.2.7, 5.2.9, 5.2.10 of the.2010 edition);

e) The requirements for safety and protection, speed control, and drive devices in design and operation have been added (see 4.7, 4.8, 4.10);

f) The performance parameter requirements such as nominal mooring speed, supporting load, wire rope breaking force, automatic tension, etc. have been changed (see 5.2, 5.5, 5.6, etc.)

5.7, 5.1.2, 5.1.3, 5.1.4, 5.3.5 of the.2010 version);

- g) The requirements for performance parameters such as the load of the reel and the rope capacity of the reel have been added (see 5.1, 5.3);
- h) The test and acceptance method of reel load is changed (see 6.2.3, 6.3.2, 6.2 of the.2010 edition);
- i) The test and acceptance method for no-load operation has been added (see 6.2.1, 6.3.1);
- j) The inspection rule requirements have been deleted (see Chapter 7 of the.2010 edition);
- k) The identification method of the product model has been changed (see 7.1, 4.2 of the.2010 edition);
- l) The packaging, transportation, and storage requirements have been deleted (see 8.2, 8.3, and 8.4 in the.2010 edition).

The translation method used in this document is equivalent to ISO 18296.2014 "Ship and Marine Technology Moving Ship Winch".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 3766-2015 General rules and safety requirements for hydraulic transmission systems and their components (ISO 4413.2010,

MOD);

---GB/T 3893-2008 Shipbuilding and offshore structure deck machinery terms and symbols (ISO /FDIS3828.2007,

IDT);

---GB/T 4208-2017 enclosure protection class (IP code) (IEC 60529.2013, IDT);

---GB/T 20118-2017 General technical requirements for steel wire ropes (ISO 2408.2017, NEQ);

---CB/T 3827-1998 twisting drum (ISO 6482.1980, NEQ);

---CB/T 3877-2005 General requirements for deck machinery (ISO 7825.1985, MOD).

This document has also made the following editorial changes.

--- In Chapter 2, the normative references have changed their names according to the latest version of ISO 2408;

--- Chapter 3 3.2, write the notes in the original text of the international standard into the text;

--- Chapter 7, 7.1, delete the editorial error "(see 3.1.1)" in the original text of the international standard.

1 Scope

This document specifies the requirements for the design, operation, safety, performance and inspection rules of electric and hydraulic driven ship moving winches.

This document is applicable to ship moving winches used for longitudinal and lateral movement or positioning of engineering ships at sea. Can also participate in inland river operations

Use as per.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 2408 steel wire rope requirements (Steelwireropes-requirements)

ISO 3828 Shipbuilding and marine structures deck machinery terms and symbols (Shipbuildingandmarinestructures-

Deckmachinery-Vocabularyandsymbols)

ISO 4413 General rules and safety requirements for hydraulic transmission systems and their components (Hydraulicfluidpower-General

rulesandsafetyrequirementsforsystemsandtheircomponents)

ISO 6482 Shipbuilding-Deckmachinery-Warpingend profiles

ISO 7825 Shipbuilding-Deckmachinery-General requirements

IEC 60092 (all parts) Electrical installations in ships (Electricalinstalationsinships)

IEC 60529 enclosure protection level (IP code) [Degrees of protection provided by enclosures (IP Code)]

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Professional terms

3.1.1

Light load pull lightloadpul

Under the condition that the reel is wound with a single-layer steel wire rope, the wire rope pulling force is not less than 25% of the pulling force of the drum load.

3.1.2

Lightlinespeed

Under the condition of a single-layer steel wire rope wound on the drum, the minimum rope-rewinding speed measured by the ship-moving winch under the condition of light-load tension.

3.1.3

Normally closed brake device normalyclosedbrake

It is a braking device that is always in a braking state for working conditions other than the take-up and unwinding of the cable.