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

GB/T 47981-2026

**Ships and marine technology - Winches for trailing suction
hopper dredger**

船舶与海洋技术 耙吸式挖泥船用绞车

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions

Foreword

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

This document is equivalent to ISO 4862:2023 "Marine and marine technology - Winches for trailing suction hopper dredgers".

The following minimal editorial changes have been made to this document.

---Added an informative appendix NA, "List of national standards that correspond to the parts of IEC 60092 (all parts) in a consistent manner".

1 Scope

This document specifies the design, operation, performance, and acceptance testing of winches for hydraulically and electrically driven trailing suction hopper dredgers.

The winches specified in this document are those required for operating the suction pipe during dredging operations on a trailing suction hopper dredger, mainly including the draghead winch, the suction pipe centre winch and the pipe bending winch, etc.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies to this document.

ISO 2408:2017 Minimum requirements for general steel wire ropes

Note: GB/T 20118-2025 General technical requirements for steel wire ropes (ISO 2408:2017, MOD)

Note: GB/T 3893-2008 Shipbuilding and Offshore Structures Deck Machinery Terminology and Symbols (ISO /FDIS3828.2007, IDT)

Note: GB/T 3766-2015 General rules and safety requirements for hydraulic transmission systems and their components (ISO 4413:2010, MOD)

ISO 7825 Shipbuilding-Deckmachinery-General requirements

Note: GB/T 42050-2022 General requirements for shipbuilding deck machinery (ISO 7825:2017, IDT)

Note: GB/T 17843-2025 Terminology for Ships and Offshore Dredgers (ISO 8384:2019, IDT)

Note: GB/T 17383-2025 Classification of Ships and Offshore Dredgers (ISO 8385:2018, IDT)

Note: National standards that correspond to the parts of IEC 60092 (all parts) in a consistent manner are listed in Appendix NA.

Note: GB/T 4208-2017 Degrees of protection provided by enclosures (IP code) (IEC 60529:2013, IDT)

3 Terms and Definitions

The terms and definitions defined in ISO 3828, ISO 8384 and ISO 8385, as well as the following terms and definitions, apply to this document.

3.1 Draghead winch

The winch is installed near the rake tube and operated by lifting and lowering the front of the rake tube.