

ICS 47.020.50

CCS U 21



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

GB/T 45604-2025

**Ships and marine technology - High holding power balance
anchors**

船舶与海洋技术 大抓力平衡锚

(English Translation)

Issued on: April 25, 2025

Implemented on: August 1, 2025

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

Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and Definitions
4 Design
5 Manufacturing
6 Test methods
7 Logo
8 Inspection Certificate
Appendix A (Informative) Anchor structure and dimensions
Appendix B (Normative) Anchor tension test method
Appendix C (Normative) Anchor offshore holding force test method
Reference

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 for standardization documents" Drafting.

This document is equivalent to ISO 24061:2021 "Ships and offshore technology - High-holding balance anchors".

1 Scope

This document specifies the design, manufacture, test methods, marking and inspection certificate of high holding force balancing anchors.

This document applies to the design, selection, manufacture and acceptance of high holding force balanced anchors (hereinafter referred to as anchors).

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this text, among which the dated references For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all

amendments) applies to This document.

3 Terms and definitions

For the purpose of this document, the terms and definitions defined in ISO 3828 and the following apply.

3.1 HHPB Anchor

An anchor with rotatable flukes that automatically returns to a vertical position by gravity when lifted from the seabed. The holding force of the anchor is at least Twice as long as a stockless anchor.

4.1 Structure

Anchors are generally composed of anchor handles, anchor claws, pins, cross pins, heads and anchor shackles. See Appendix A for typical structures.

4.2 Basic specifications and dimensions

The anchor should be selected according to the number of ship outfittings. It should be divided into different specifications according to the theoretical mass of the anchor. The corresponding basic dimensions are shown in Table A.1.

4.3 Materials

4.3.1

The chemical composition of anchor component materials shall comply with the requirements of Table 1.