

ICS 47.020.50
CCS U 47



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

GB/T 47047-2026

Marine structures - Mobile offshore units - Chain wheels

海上结构物 海上移动平台 锚链轮

(English Translation)

Issued on: January 28, 2026

Implemented on: August 1, 2026

Issued by: State Administration for Market Regulation

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 21711:2019 "Offshore structures, offshore mobile platforms, anchor chains".

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

---Added the ocean mooring chain class R6 as an example (see 5.2.1).

1 Scope

This document specifies the tooth profile, dimensions, tolerances, materials, and inspection requirements for anchor sprockets.

The anchor chain wheel specified in this document applies to marine mooring chains as defined in ISO 20438.

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.

GB/T 39428-2020 Visual inspection method for surface quality of sand-cast steel parts (ISO 11971:2020, MOD)

Note: There are no technical differences between the content referenced in GB/T 39428-2020 and the content referenced in ISO 11971:2020.

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

ISO 6506-1 Metallic materials - Brinell hardness test - Part 1: Test methods
hardnesstest-Part 1: Testmethod)

Note: GB/T 231.1-2018 Metallic materials - Brinell hardness test - Part 1: Test method (ISO 6506-1:2014, MOD)

ISO 8062-3 Product Geometry Specification (GPS) - Dimensions and geometric tolerances
of molded parts - Part 3: General tolerances for castings

Note: GB/T 42124.3-2025 Dimensional tolerances, geometric tolerances and machining allowances
for castings (ISO 8062-3:2023, MOD)

ISO 16859-1 Metallic materials - Leeb hardness test - Part 1: Test methods test-Part 1:
Testmethod)

3 Terms and Definitions

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

3.1 Pitch diameter

The diameter of the circumcircle of the non-regular polygon formed by the centerline of the
anchor chain at the point where the anchor chain engages with the anchor chain wheel.

Note: Pitch diameter is used to calculate the maximum torque when the anchor chain is in
operation.