

ICS 47.020.40

CCS U 24



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

GB/T 42053-2022

**Ships and marine technology - Marine cranes - Operation and
maintenance requirements**

Issued on: October 12, 2022

Implemented on: October 12, 2022

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

Table of Contents

foreword

1 Scope

2 Normative references

3 Terms and Definitions

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"

drafted.

This document is equivalent to ISO 21132:2019 "Requirements for the use and maintenance of marine cranes in ships and marine technology".

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

--- 3.3 Added a note explaining the corresponding Beaufort scale limits (see 3.3).

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the requirements for ships such as cylinder luffing electric hydraulic cranes, wire rope luffing electric hydraulic cranes, wire rope luffing electric cranes, etc.

Crane use and maintenance requirements.

This document applies to the following types of marine cranes operating in harbour or sheltered water conditions.

--- Deck cranes installed on ships for loading and unloading equipment, cargo or containers in port or sheltered water conditions;

--- Floating cranes installed on barges or buoys for loading and unloading loads in port or sheltered water conditions;

--- Grab cranes installed on ships, barges or buoys for operation in port or sheltered water conditions;

--- Engine room cranes, material cranes, etc. installed on ships for lifting equipment and

materials in harbors or sheltered waters.

This document can also be referred to for marine cranes not covered above or under other environmental conditions.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations

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

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

ISO 4306-1 Marine Cranes Terminology Part 1.General Terms (Cranes-Vocabulary-Part 1.General)

Note. GB/T 6974.1-2008 Crane Terminology Part 1.General Terms (ISO 4306-1.2007, IDT)

3 Terms and Definitions

Terms and definitions defined in ISO 3828 and ISO 4306-1 and the following terms and definitions apply to this document.

3.1

Issued by the marine crane manufacturer to certify that the marine crane has been designed, manufactured and tested in accordance with the design standards and the buyer's requirements

verified certificate.

Note. It should also be confirmed that the corresponding quality control has been carried out according to the quality management system.

3.2

The body responsible for the approval, inspection, testing and certification of marine cranes, such as classification societies.

3.3

Under the action of waves, the ship does not move significantly, and the significant wave height is not greater than 0.6m.