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

GB/T 42689-2023

**Ships and marine technology - Marine cranes - Manufacturing
requirements**

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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 for Standardization Documents"

drafting:

This document is equivalent to ISO 21125:2019 "Marine Crane Manufacturing Requirements for Ships and Offshore Technology":

Please note that some contents of this document may refer to patents: The issuing agency of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the general technical requirements for the manufacture of metal structural marine cranes:

This document applies to the following types of marine cranes:

- Deck cranes installed on ships for loading and unloading cargo or containers in port conditions;
- Floating cranes or grab cranes installed on barges or barges for operation in port conditions;
- Engine room cranes or material cranes installed on ships (including floating docks) for lifting equipment or materials under port conditions:

Note: Other types of marine cranes can be implemented by reference:

This document does not apply to marine cranes operating under the following conditions:

- Working temperature is lower than -20 degrees C;
- The working temperature is higher than 45 degrees C;
- Lifting operation under the sea surface;

- Combined lifting operation of multiple cranes;
- Emergency rescue operations;
- Shore-based cargo handling cranes;
- Used for lifting lifeboats, life rafts, accommodation ladders, pilot ladders, walkways and their operating devices;
- Launching of life rafts and rescue boats:

2 Normative references

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

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

this document:

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

ISO 4306-1 Crane 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)
Marinecranes-General requirements)

3 Terms and Definitions

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