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

GB/T 6974.4-2025

Replacing GB/T 6974.4-2016

**Cranes - Vocabulary - Part 4: Jib cranes
(English Translation)**

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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 Part 4 of GB/T 6974 Crane Terminology. GB/T 6974 has been published in the following parts.

- Part 1: General terms;
- Part 2: Mobile cranes;
- Part 3: Tower cranes;
- Part 4: Jib cranes;
- Part 5: Bridge and gantry cranes;
- Part 6: Railway cranes;
- Part 7: Floating cranes.

This document replaces GB/T 6974.4-2016 "Crane terminology Part 4: Jib cranes" and is in compliance with GB/T 6974.4-2016.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) The "Scope" has been changed (see Chapter 1, Chapter 1 of the 2016 edition);
- b) The term "jib crane" and its definition, as well as the terms and definitions in "luffing

characteristics", "balance characteristics" and "components" are deleted.

Definitions (see 2.1, Chapters 4, 5 and 6 of the 2016 edition);

c) Added the terms "yard gantry crane", "single-jib gantry crane", "combined-jib gantry crane", "hammer gantry crane" Heavy machinery", "Turntable gantry crane", "Turntable gantry crane", "Hook gantry crane", "Grab gantry crane", "Multi-purpose Portal crane", "rail-mounted high tower crane", "tire-mounted high tower crane", "fixed column cantilever crane", "rotating column cantilever crane" Crane", "wall-mounted jib crane", "wall-mounted jib crane" and their definitions (see 4.1, 2.4, 4.1.3.1, 4.1.3.2, 4.1.3.3, 4.1.4.1, 4.1.4.2, 4.1, 5.1, 4.1.5.2, 4.1.5.6, 4.4.2, 4.4.3, 4.7.2.2, 4.7.2.3, 4.7.3.2, 4.7.3.3);

d) Changed the terms "jib crane", "gantry crane", "shipyard gantry crane", "gantry crane for water conservancy and hydropower construction", "gantry crane with Portal crane, container portal crane, general-purpose port portal crane, semi-portal crane, gantry crane "High tower crane", "Mast crane", "Fixed mast crane", "Cable mast crane", "Jib mast crane" Definitions of "H-type mast crane", "cantilever mast crane" and "mobile mast crane" (see 3.1, 4.1.1.1, 4.1.2.2, 4.1.2.3, 4.1.5.3, 4.1.5.4, 4.1.5.5, 4.2.1, 4.3.1, 4.4.1, 4.6.1.1, 4.6.2.1, 4.6.2.2, 4.6.2.4, 4.6.2.5, 4.6.2.7, 4.6.3.1, 2016 edition 2.2, 3.1, 3.1.2, 3.1.3, 3.1.1.2, 3.1.1.3, 3.1.1.1, 3.2, 3.3, 3.4, 3.6, 3.6.1, 3.6.1.5, 3.6.1.1, 3.6.1.2, 3.6.1.4, 3.6.2);

e) The terms "rigid jib crane", "single mast crane", "mobile jib crane" and their definitions have been changed (see 4.6.2.3, 4.6.2.6, 4.7.4.1, 3.6.1.6, 3.6.1.3, 3.7.3 of the 2016 edition).

This document is modified to adopt ISO 4306-4:2020 "Crane terminology - Part 4: Jib cranes".

This document has the following structural adjustments compared to ISO 4306-4:2020.

--- Divide the term into Chapter 3 and Chapter 4 according to the basic term "jib crane" and the type of jib crane;

--- Chapter 4 "Types of Jib Cranes" is divided into 4.1 to 4.7 according to the 7 types of jib cranes, and sub-items are set according to each type;

---Place the figures after the first mention of the corresponding term.

The technical differences between this document and ISO 4306-4:2020 and their reasons are as follows.

a) The wording of "scope" has been changed (see Chapter 1, Chapter 1 of ISO 4306-4:2020) to comply with my country's document writing rules;

b) Added the terms "jib crane", "port gantry crane", "shipyard gantry crane" and "gantry crane for water conservancy and hydropower construction" "Cargo yard gantry crane", "Hammer gantry crane", "Hook gantry crane", "Grab gantry crane", "Port general gantry

crane" Heavy machinery", "gantry crane", "railway high tower crane", "tire high tower crane", "cable mast crane", "rigid "Slant-braced mast crane", "cantilever crane", "column cantilever crane", "wall cantilever crane", "mobile cantilever crane" "Machine" and its definition (see 3.1, 4.1.2.1, 4.1.2.2, 4.1.2.3, 4.1.2.4, 4.1.3.3, 4.1.5.1, 4.1.5.2, 4.1.5.5, 4.3.1, 4.4.2, 4.4.3, 4.6.2.2, 4.6.2.3, 4.7.1.1, 4.7.2.1, 4.7.3.1, 4.7.4.1), supplemented some commonly used boom lifts in my country Heavy machinery terminology;

c) The definitions of the terms "gantry crane" and "gantry crane with bucket" have been changed (see 4.1.1.1, 4.1.5.3, ISO 4306-4:2020 3.1, 3.6), the definition description is more accurate.

The following editorial changes have been made to this document.

a) The reference numbers in Figures 1, 2, 4 to 11, and 14 to 22 have been changed to follow the technical conventions of my country;

b) Changed the classification of jib cranes in Figure A.1 to include "bench cranes";

c) Added Chinese Pinyin index and English corresponding word index.

Introduction

GB/T 6974 "Crane Terminology" aims to establish the most commonly used terminology in the crane field and is intended to consist of nine parts.

--- Part 1: General terms. The purpose is to standardize the terms and definitions of the main types, parameters, general concepts and components of cranes.

--- Part 2: Mobile cranes. The purpose is to standardize the terms and definitions of various basic types of self-propelled mobile cranes.

--- Part 3: Tower cranes. The purpose is to standardize the terms and definitions of tower cranes.

--- Part 4: Jib cranes. The purpose is to standardize the terms and definitions of jib cranes.

--- Part 5: Bridge and gantry cranes. The purpose is to standardize the terms and definitions of bridge cranes and gantry cranes.

--- Part 6: Railway cranes. The purpose is to standardize the terms and definitions of railway cranes.

--- Part 7: Floating cranes. The purpose is to standardize the terms and definitions of floating cranes.

--- Part 8: Cable cranes. The purpose is to standardize the terms and definitions of cable cranes.

--- Part 9: Electrical. The purpose is to standardize the terms and definitions related to

crane electrical equipment.

Crane terminology

Part 4: Jib cranes

1 Scope

This document defines terminology relating to jib cranes.

This document applies to jib cranes specified in GB/T 20776-2023.

Appendix A gives a classification of different types of jib cranes.

2 Normative references

This document has no normative references.

3 Basic Terminology

Jib crane

Except tower cranes, mobile cranes, railway cranes, floating cranes, deck cranes and offshore platform cranes, with jibs Crane with frame.

[Source. GB/T 20776-2023, 3.8]

4.1.1 General terms

4.1.1.1

portal crane portalslewingcrane A mobile jib crane mounted on a portal base that can pass underneath railway and road vehicles and equipment.

4.1.2 Classification by location of use

4.1.2.1

A gantry crane with a high operating speed used for loading and unloading operations at port terminals.

4.1.2.2

A portal crane with two or more lifting hooks used for lifting operations in shipyards.

4.1.2.3

It is used for concrete lifting and pouring, structural parts and electromechanical equipment lifting in water conservancy and power engineering, and has a large working range and a