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

GB/T 6974.3-2024

Replacing GB/T 6974.3-2008

**Cranes - Vocabulary - Part 3: Tower 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 is required.

This document is Part 3 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 6974.3-2008 "Crane Terminology Part 3: Tower Cranes" and is compatible with GB/T 6974.3-Compared with 2008, 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 2008 edition);
- b) Added the terms "assembled tower crane", "self-erecting tower crane" and "mobile self-erecting tower crane" "Machine" and its definition (see 3.1.1, 3.1.2 and 3.1.3);
- c) The illustrations of different types of tower cranes have been modified (see Chapter 5, Chapter 4 of the 2008 edition).

This document is equivalent to ISO 4306-3:2016 "Crane terminology Part 3: Tower cranes".

This document adds a chapter on "Normative References".

Introduction

The standardization of terminology is the basis of standardization activities. GB/T 6974 "Crane Terminology" is a terminology standard in the field of cranes.

To improve the standardization level of cranes, ensure the consistency and logical integrity of terminology, and improve the terminology between concept systems and different languages.

GB/T 6974 is planned to consist of 9 parts.

--Part 1: General terms. The purpose is to standardize the general terms and definitions applicable to the crane industry.

-- Part 2: Mobile cranes. The purpose is to standardize the terms and definitions related to mobile cranes.

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

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

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

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

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

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

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

Crane terminology Part 3: Tower cranes

1 Scope

ISO 4306 defines the vocabulary of the most commonly used terms in the crane sector.

This document defines a common definition of tower cranes and illustrates each type of tower crane using example figures with reference numbers.

A term used in heavy machinery.

This document applies to.

- tower cranes that can be assembled and disassembled (cranes that can be erected with the aid of components or by themselves);

- permanently installed tower cranes;

- Mobile self-erecting tower crane.

This document does not apply to.

- Mobile cranes;

- Mounting mast with or without jib.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

Tower Crane A power-driven slewing jib crane with the jib located at the top of a tower which remains substantially vertical in the working position.

Note: Tower cranes are equipped with devices for lifting and lowering suspended loads and moving the load by luffing, slewing or traveling as a whole. Some tower cranes only partially realize Actions instead of all actions.

3.1.1

Assembled tower crane Tower crane erected from parts Tower cranes (3.1) that are transported to the site in parts and erected using separate lifting equipment.

The design allows it to remain in the installed position when not in operation and be disassembled and moved to another site.

3.1.2

Self-erecting tower crane A tower crane (3.1) that is transported to the site and does not require the use of separate lifting equipment for almost all of its erection.

The design allows it to remain in place when not in operation and be lowered and moved to another site.

3.1.3

Mobile self-erecting tower crane mobile self-erecting tower crane Self-erecting tower cranes (3.1.2) mounted on a self-propelled or trailer-mounted chassis.