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

**GB/T 23724.3-2025**

Replacing GB/T 23724.3-2010

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**Cranes - Inspections - Part 3: Tower cranes  
(English Translation)**

**Issued on: June 30, 2025**

**Implemented on: January 1, 2026**

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

## Table of Contents

|                                                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------|--|
| Preface                                                                                                           |  |
| Introduction                                                                                                      |  |
| 1 Scope                                                                                                           |  |
| 2 Normative references                                                                                            |  |
| 3 Terms and Definitions                                                                                           |  |
| 4 General                                                                                                         |  |
| 5 Daily Inspection                                                                                                |  |
| 5.1 Basic Requirements                                                                                            |  |
| 5.2 Content                                                                                                       |  |
| 5.3 Results                                                                                                       |  |
| 6 Regular inspections                                                                                             |  |
| 6.1 Basic Requirements                                                                                            |  |
| 6.2 Inspection Item                                                                                               |  |
| 6.3 Cycle                                                                                                         |  |
| 6.4 Results                                                                                                       |  |
| 7 Regular Inspection                                                                                              |  |
| 7.1 Basic Requirements                                                                                            |  |
| 7.2 Content                                                                                                       |  |
| 7.3 Cycle                                                                                                         |  |
| 7.4 Results                                                                                                       |  |
| 8 Comprehensive Inspection                                                                                        |  |
| 8.1 Basic Requirements                                                                                            |  |
| 8.2 Content                                                                                                       |  |
| 8.3 Cycle                                                                                                         |  |
| 8.4 Results                                                                                                       |  |
| 9 Special Inspections                                                                                             |  |
| 9.1 Basic Requirements                                                                                            |  |
| 9.2 Content                                                                                                       |  |
| Appendix A (Normative) Inspection List                                                                            |  |
| Appendix B (Informative) Inspection of Hooks                                                                      |  |
| Appendix C (Informative) Examples of Periodic Inspection, Comprehensive Inspection and Special Inspection Reports |  |

## Reference

Figure B.1 Shape and size of hook

Table A.1 Inspection List

Table C.1 Inspection report example

## 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 3 of GB/T 23724 Crane Inspection. GB/T 23724 has been published in the following parts.

--- Part 1: General provisions;

--- Part 3: Tower cranes.

This document replaces GB/T 23724.3-2010 "Crane Inspection Part 3: Tower Cranes" and GB/T 23724.3-Compared with 2010, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

--- Deleted "for use in conjunction with GB/T 23724.1" (see Chapter 1 of the 2010 edition);

--- Changed the general requirements for inspection (see Chapter 4, Chapter 3 of the 2010 edition);

--- Changed the record requirements for regular inspections, periodic inspections and comprehensive inspections (see 6.4, 7.4 and 8.4, 2010 edition 5.4, 6.4 and 7.4);

--- Changed the periodic requirements for comprehensive inspection (see 8.3, 7.3 of the 2010 edition);

--- Added description of special environmental conditions [see 9.1a)].

This document is modified to adopt ISO 9927-3:2019 "Crane inspection - Part 3: Tower cranes".

The technical differences between this document and ISO 9927-3:2019 and their reasons are as follows.

--- Changed the basic requirements for regular inspections (see 6.1). The technical contents of 6.1 and 6.4 of ISO 9927-3:2019 are similar, and there are errors.

Therefore, the statement in 5.1 of GB/T 23724.3-2010 is used.

--- ISO 4309 (see 6.2) has been replaced with the normative reference GB/T 5972 to adapt

to my country's technical conditions and increase operability.

Sexuality;

--- Changed the number of safety loops of wire rope on the drum (see Table A.1) to be consistent with the current relevant standards to adapt to my country's technical conditions.

The following editorial changes have been made to this document.

--- Replaced ISO 9927-1 with the informative reference GB/T 23724.1 (see 7.1);

--- Replaced ISO 4309 with the informative reference GB/T 5972 (see 7.2).

## Introduction

GB/T 23724 Crane Inspection aims to specify the requirements for crane inspections in order to promptly identify and eliminate potential safety hazards.

It provides a guarantee for the safe use of cranes. GB/T 23724 is intended to consist of 5 parts.

--- Part 1: General provisions;

--- Part 2: Mobile cranes;

--- Part 3: Tower cranes;

--- Part 4: Jib cranes;

--- Part 5: Bridge and gantry cranes.

Crane inspection part 3.tower cranes

## 1 Scope

This document specifies the routine inspection items to be carried out on tower cranes (hereinafter referred to as "tower cranes").

This document does not cover inspections to be performed before the crane is used for the first time.

## 2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 5972 Crane Wire Rope Care, Maintenance, Inspection and Retirement (GB/T

5972-2023, ISO 4309:2017, IDT)

### 3 Terms and Definitions

There are no terms or definitions that require definition in this document.

### 4 General

To ensure the safe use of tower cranes, they should be kept in suitable working condition and operating conditions. Therefore, all tower cranes need to undergo regular inspections.

Inspections should be carried out to promptly identify and eliminate potential safety hazards. Inspections should be arranged.

Routine checks include.

- Daily inspection;
- Regular inspection;
- Regular inspection;
- Comprehensive inspection.

The inspection cycle, content, responsible person, results and reports shall comply with the requirements of Chapters 5 to 9 and Table A.1 in Appendix A.

**NOTE:** The manufacturer may give inspection requirements that differ from those in this document. In this case, the manufacturer's requirements shall prevail.

#### 5.1 Basic Requirements

Daily inspections should be carried out before starting work. Daily inspections should include visual inspection (normally without disassembly) and functional tests, see 5.2.

Daily inspections should be performed by competent personnel (such as tower crane drivers).

#### 5.2 Content

Inspections before each operation should include.

- a) The function of each mechanism, especially the brake (usually checked under no-load conditions);
- b) the functions of each limiter and indicator;