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

GB/T 28756-2025

Replacing GB/T 28756-2012

Cable cranes

缆索起重机

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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 replaces GB/T 28756-2012 "Cable cranes". Compared with GB/T 28756-2012, except for structural adjustments and editorial changes, In addition to the modifications, the main technical changes are as follows.

- Changed the scope (see Chapter 1, Chapter 1 of the 2012 edition);
- Changed the terms and definitions (see Chapter 3, Chapter 3 of the 2012 edition);
- Changed the "Type and Basic Parameters", including changing "arc-type" to "double-arc-type", deleting the "cable-track" cable crane, and adding Added classification by number of load-bearing cables and changed basic parameters (see Chapter 4, Chapter 4 of the 2012 edition);
- Changed the working conditions, including adding power supply requirements, changing track requirements and working environment requirements (see 5.1, 2012 edition 5.1);
- Deleted the whole machine requirements (see 5.2 of the 2012 edition);
- Changed the material requirements (see 5.2.2, 5.3.2 of the 2012 edition);
- Changed the requirements for metal structures (see 5.2.3, 5.3 of the 2012 edition);
- Changed the requirements of the mechanism, including the requirements of the lifting mechanism, traction mechanism and trolley running mechanism, and deleted the tensioning device Requirements (see 5.2.4, 5.4 of the 2012 edition);
- Increased performance requirements (see 5.3);
- Changed the requirements for load-bearing cables, including the standards to be met (see 5.4.1, 5.5.1 of the 2012 edition);
- Changed the relevant requirements for wire ropes, including adding the selection requirements for sealed wire ropes and the safety factor of working wire ropes (see 5.4.2, 5.5.2 of the 2012 edition);
- Changed the requirements for bearings (see 5.4.3, 5.5.6 of the 2012 edition);
- Added requirements for motors and reducers (see 5.4.4 and 5.4.5);
- Changed the requirements for reels (see 5.4.6, 5.5.2 of the 2012 edition);
- Changed the requirements for pulleys (see 5.4.7, 5.5.3 of the 2012 edition);
- Changed the requirements for hooks and brakes (see 5.4.8 and 5.4.9, 5.5.4 and 5.5.5 of the 2012 edition);
- Changed the requirements for the hoisting trolley, including deleting the requirements for the spacing of the hoisting rope guide pulleys and adding the requirements for setting the load-bearing rope and working rope Requirements for observation and maintenance

platforms (see 5.4.10, 5.5.7 of the 2012 edition);

- Changed the requirements for wheels and cabs of large vehicles (see 5.4.11 and 5.4.12, 5.5.8 and 5.5.9 of the 2012 edition);
- Changed the safety and protection requirements (see 5.5, 5.5.10 and 5.9 of the 2012 edition);
- Changes have been made to electrical requirements, including changes to power supply, selection and installation of electrical equipment, transmission system, control system, electrical protection, Requirements for lighting, lightning protection, grounding and fire protection, and added requirements for safety monitoring and management systems (see 5.6, 5.7 of the 2012 edition);
- Changed the requirements for surface coating (see 5.8, 5.8 of the 2012 edition);
- The test methods have been changed, including adding basic requirements, changing test conditions, visual test, no-load test, rated load test, Static load test, dynamic load test and noise measurement, emergency stop test, load cable sag measurement, anti-collision test and safety device test are added etc. (see Chapter 6, Chapter 6 of the 2012 edition);
- Changed the inspection rules, including adding inspection categories (see Chapter 7, Chapter 7 of the 2012 edition);
- Changed the marking, packaging, transportation and storage (see Chapter 8, Chapter 8 of the 2012 edition);
- Deleted the relevant content of "weld quality requirements and testing" (see Appendix A of the 2012 edition).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Lifting Machinery (SAC/TC227).

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This document was first published in 2012 and this is the first revision. Cable crane

1 Scope

This document specifies the types, basic parameters and technical requirements of cable cranes, describes the corresponding test methods, and specifies the inspection regulations.

Rules, marking, packaging, transportation and storage.

This document applies to cable cranes specified in GB/T 20776.

2 Normative references

GB/T 700

GB/T 1228

GB/T 1229

GB/T 1230

GB/T 1231

GB/T 1591

GB/T 3766

GB/T 3811

GB/T 3906

GB/T 5972

GB/T 6067.1

GB/T 6974.8

GB/T 8918

GB/T 8923.1

GB/T 9075