

ICS 53.020.99

CCS J 80



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

GB/T 10597.1-1989

**Hoisting hoister
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

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

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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 of Standardization Documents" drafted.

This document replaces GB/T 10597-2011 "Winding Hoist", compared with GB/T 10597-2011, except for structural adjustment and editing in addition to the sexual changes, the main technical changes are as follows.

- a) terms and definitions have been changed (see Chapter 3, Chapter 3 of the 2011 edition);
- b) Change the hoist from the original singleness to the diversity (see Chapter 4, Chapter 4 of the 2011 edition);
- c) On the basis of the original single-speed hoist hoist, a multi-speed hoist hoist is added (see 4.3);
- d) The schematic diagram of the gantry hoist and the basic parameters of the gantry hoist are added [see Figure 4c) and Table 7];
- e) Change the opening and closing speed of the hoist to be divided according to the operating period (see Chapter 5, Chapter 5 of the 2011 edition);
- f) Increased the hoisting capacity of the hoist (see Chapter 5);
- g) The power supply requirements in the working environment conditions of the hoist are

added (see 6.1.1);

h) The performance requirements for the braking system of the hoisting mechanism of the hoist are changed (see 6.3.2, 6.3.2 of the 2011 edition);

i) Added the requirements for the hoist safety monitoring and management system (see 6.3.17);

j) Added requirements for static load test (see 6.3.19) and dynamic load test (see 6.3.20) of hoists;

k) Changed the requirements for the reel in the main parts of the hoist (see 6.4.5, 6.4.5.1 of the 2011 edition);

l) The connection requirements for the main components of the hoist are added (see 6.5);

m) Added the requirements for the electrical equipment system of the hoist (see 6.7.1), the hydraulic station of the hydraulic grabbing beam and the relevant requirements for its electric control equipment (see 6.7.7);

n) Changed the test method (see Chapter 7, Chapter 7 of the 2011 edition), inspection rules (see Chapter 8, Chapter 8 of the 2011 edition).

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the type, basic parameters, technical requirements, test methods, inspection rules, marking, packaging, transportation and storage of hoisting hoists.

This document is applicable to the fixed or closed gates and trash racks of water conservancy and hydropower projects, which are mainly driven by electric power and adopt wire rope hoisting method.

Mobile hoist.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 699 High Quality Carbon Structural Steel GB/T 755 Rotating Electric Motor Rating and Performance GB/T 1176 Cast copper and copper alloys GB/T 1184 shape and position tolerances do not note tolerance values GB/T 1228 High-strength hexagon head bolts for steel structures GB/T 1229 High-strength hex nuts for steel structures GB/T 1230

High-strength washers for steel structures GB/T 1231 Technical Specifications for High Strength Large Hexagon Head Bolts, Large Hexagon Nuts and Washers for Steel Structures GB/T 1804 General Tolerances Unmarked Tolerances of Linear and Angular Dimensions GB/T 3181 Paint Film Color Standard GB/T 3323.1 Nondestructive testing of welds - Radiographic testing - Part 1: Film technology for X and gamma rays GB/T 3478.1 Cylindrical spur involute splines (metric module flank fit) Part 1: General GB/T 3632 Torsional shear type high-strength bolt connection pair for steel structure GB/T 3811-2008 Crane Design Specification GB/T 4323 elastic sleeve pin coupling GB/T 5226.32 Mechanical and Electrical Safety Mechanical and Electrical Equipment Part 32: Technical Requirements for Hoisting Machinery GB/T 5272 Plum-shaped elastic coupling GB/T 5972 Crane wire rope maintenance,, inspection and scrapping GB/T 5973 Wedge joint for steel wire rope GB/T 5974.2 Heavy-duty ferrules for wire ropes GB/T 5975 Pressure plate for steel wire rope GB/T 5976 Wire rope clip GB/T 8918 Steel wire ropes for important purposes GB/T 8923.1 Visual assessment of surface cleanliness of steel surface preparations before coating - Part 1: Uncoated steel the rust grade and treatment grade of the surface and the steel surface after the full removal of the original coating GB/T 9286 Paint and varnish cross-cut test GB/T 10095 (all parts) Cylindrical gear precision system GB/T 10183.1 Tolerances for Crane Wheels and Tracks for Carts and Trolleys - Part 1: General