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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 25335-2025

Replacing GB/T 25335-2010

Railway heavy-duty construction machinery - T-girder erecting machines

铁路大型施工机械 T梁架桥机

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Standardization Administration of the PRC

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 25335-2010 "Railway T-beam Bridge Erection Machine". Compared with GB/T 25335-2010, the main differences are in structural adjustments and compilation. Aside from the logical changes, the main technical changes are as follows:

a) The ambient wind speed was changed (see 4.3,

3.2.2 in the.2010 version);

b) The beam erection slope requirements have been changed (see 4.5,

3.1.2 of the.2010 version);

c) The working levels of the entire bridge erecting machine and the hoisting mechanism have been increased (see 5.1.2);

d) Increased the internal clearance requirements for the bridge erecting machine (see 5.1.6);

e) Added requirements for pin connections in metal structures (see 5.1.9);

f) The requirements for butt welds have been changed [see 5.1.10e),

4.3.3.6 of the.2010 edition];

g) Increased requirements for the self-running speed of the bridge erecting machine (see 5.2.5~5.2.7);

h) Added requirements and test methods for single-unit emergency braking of bridge

erecting machines [see 5.2.9, 6.2.4d)];

i) Increased allowable deviation requirements for each mechanism of the bridge erecting machine (see 5.2.10);

1 Scope

GB/T 25335-2025 is the Chinese national standard covering the bridge erecting gantry that places precast T-girders span by span - the lifting and traversing, the stability during launching when the machine is cantilevered over the gap, the wind limits and the safety devices. It replaces GB/T 25335-2010, under the National Railway Administration. It was issued on 2 December 2025 and has been in force since 1 July 2026, replacing GB/T 25335-2010. The document is under the responsibility of the National Railway Administration. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the technical requirements, inspection rules, marking, packaging, transportation, and storage of T-beam bridge erecting machines, a large-scale construction machinery for railways. The corresponding experimental methods were developed. This document applies to newly constructed T-shaped concrete beam bridge erecting machines (hereinafter referred to as "bridge erecting machines") for 1435mm standard gauge passenger and freight railway lines. Design, manufacturing, and testing.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB 146.1 Standard gauge railway clearances - Part

3 Welds and edges Treatment level of surface defects in other areas

GB/T 9286-2021 Paints and varnishes - Cross-cut test

GB/T 10095.1-2022 Cylindrical gears - ISO tooth surface tolerance system - Part