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JJG

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

JJG 234-2012

Replacing JJG 234-1990; JJG 709-1990

**Verification Regulation of Automatic Rail-weighbridges
(English Translation)**

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Table of Contents

Introduction (II)	
1 Scope (1)	
2. References (1)	
3 Terminology and units of measurement (1)	
3.1 The term (1)	
3.2 Units of measurement (2)	
4 Overview (2)	
5 Metering performance requirements (3)	
5.1 Accuracy class (3)	
5.2 Verification scale interval (e) (3)	
5.3 The maximum permissible error (3)	
6 General Requirements (4)	
6.1 Security (4)	
6.2 Indicates weighing results (4)	
6.3 Vehicle identification means (4)	
6.4 Installation Status (4)	
6.5 Software Requirements (4)	
6.6 Load cell and weighing instruments (5)	

3 Terminology and units of measurement (1)

3.1

The term (1)

5.2 Verification scale interval (e) (3)

5.3 The maximum permissible error (3)

6.6 Load cell and weighing instruments (5)

Flag 6.7 (5)

7.5 Test cycle (8)

Appendix A weighing results to determine an indication of the weighing results and Examples (9)

Appendix B test recording format (informational) (11)

Appendix C control instrument and the reference vehicle (13)

Introduction

JJG 234-2012 "Automatic Railway Track Scale" is based on the International Organization of Legal Metrology (OIML) issued by OIML R106.1997 "Automatic Railway Track Scale" in English (AutomaticRail-weighbridges), based on JJG 234-1990 "dynamic weighing track scale" amendments, combined with our automated rail scale verification of the actual situation Condition, retained JJG 234-1990 "Dynamic weighing track scale" and JJG 709-1990 "non-traction Dynamic Weighing Track Scale "verification regulation in effective content that will fall into the dumper weighbridge JJG 781" Digital Indicating Railway Track Balance "for examination. Compared with JJG 234-1990, in addition to editorial changes outside the main technical changes are as follows.

- Adds automatic weighbridge common terminology;
- Automatic Railway Track Scale Accuracy grade in the original 0.2, 0.5, based on increased levels 1 and 2;
- Increased train weighing accuracy classes;
- Increased use of subsequent verification and inspection requirements;
- In the first test, and subsequent verification check does not use static weighing;
- Adopt international recommendations OIMLR106 maximum permissible error requirements of dynamic weighing calculated and determined;
- Increased labeling requirements;
- Increase the software requirements;
- Initial verification and subsequent verification of the group and the number of trips have been adjusted;
- Ordained as the use of automatic control instrument track scale requirements.

The previous versions of the release JJG 234-1990 case.

--- JJG 234-1981.

Automatic Railway Track Scale test procedures

1 Scope

The order applies to automatically track scale (hereinafter referred to as "Track Scale") of the initial verification, and subsequent use an examination.

2. References

This procedure references the following documents.

JJG 567 testing wagons JJG 781 Digital Indicating Railway Track Scale GB/T 2887-2000 General specification for computer sites GB/T 8170-2008 revised value represents about rules and limit values and judgment GB/T 11885 Automatic Railway Track Scale OIMLR106.1997 Automatic Railway Track Scale (AutomaticRail-weighbridges) for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 terminology and units of measurement

3.1 Terms

3.1.1 Automatic Railway Track Scale automaticrail-weighbridge According to a predetermined program of traveling in railway wagons were weighed, having weighed data processing, judge, indicating and printing functions such as an automatic weighing instrument.

3.1.2 Control instrument Determining a reference vehicle mass weighing static weighing.

3.1.3 The overall track bed solidconcrete roadbed and the carrier base and anti-climb undercarriage as a single entity, on the basis of stable load-bearing structures at both ends of the carrier constructed.

3.1.4 carrier loadreceptor Weighbridge for load-bearing device.

NOTE: Track Scale carrier can be divided into single-carrier and multi-carrier.

3.1.5 module

Weighbridge completed one or more specific functions identifiable parts, and the relevant national regulations in accordance with the measurement and technical performance requirements of a separate evaluation.

3.1.6 Non-hang together vehicle uncoupled wagon not with a locomotive or other vehicle connected to a single vehicle.

3.1.7 hang together vehicle coupled wagon Locomotive or other vehicle with interconnected vehicles.

3.1.8 Trains train

Several sections with or without joint hanging locomotive including vehicles.

3.1.9 track scale testing wagons testvehicleforrail-weighbridge Quality and value with a known standard, for verification, testing railroad track scale special vehicles, referred to as "testing wagons." 3.1.10 reference vehicle referencewagon Controlled by the weighing instrument, dynamic test, the detection is temporarily used as quality standards for railway vehicles.

3.1.11 mixed vehicle mixedwagon Program testing wagons group of railway wagons.

3.1.12 axle weighing Called axis of the vehicle successively by weighing the same carrier conducted.

3.1.13 bogie weighing He called successive bogie vehicle by weighing the same carrier conducted.

3.1.14 Vehicle Weighing fuldraughtweighing the entire vehicle through the carrier weighing.

3.1.15 dynamic weighing weighing-in-motion Railway vehicle running state weighing.

3.1.16 static weighing Railway vehicle in a stationary state of weighing.

3.1.17 train weighing Hang together determine the cumulative mass of the vehicle weighing.

3.1.18 maximum weighing speed maximumoperatingspeed Dynamic weighing track scale the highest permissible vehicle speed, the weighing results may occur when exceeding this speed is too large Relative error.

3.1.19 Minimum weighing speed minimumoperatingspeed Dynamic track scale when weighing the minimum allowable vehicle speed, the weighing results may occur below this speed is too large Relative error.

3.1.20 Weighing speed range rangeofoperatingspeed Dynamic range between the lowest and highest speeds between weighing when weighing.

3.1.21 maximum speed by maximumtransitspeed Weighbridge allows maximum speed through the exceeding this speed will allow the instrument to cause permanent damage.

3.2 units of measurement Track scale units of measurement used are. kilograms (kg), t (t).

4 Overview

Weighbridge for weighing railway wagons loaded cargo from the base, the load cell, the carrier, weighing instruments, Printers and other devices composed of weighing instruments weighing vehicle load sensor output signals are processed automatically converted to Quality and value to arrive at quality during operation of the vehicle or train.

5 metering performance requirements Minimum capacity weighbridge is 18t, the maximum capacity of 100t.

5.1 accuracy class