

ICS 17.100
CCS N 13



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

GB/T 27739-2011

Automatic catch weighing instruments

自动分检衡器

(English Translation)

Issued on: December 30, 2011

Implemented on: July 1, 2012

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify the international legal system No. 51 international recommendation OIMLR51 "automatic inspection and weighing apparatus" the R51 International Recommendation was drafted in 2005 by the OIMLTC9/SC2 Automatic Weighing Subcommittee. R51 "automatic check and balance the device is divided into two parts. the first part (R51-1) "measurement requirements and technical requirements test"; the second part (R51-2) "type evaluation report".

In order to be structurally consistent with the R51 International Recommendation, Appendix A and Appendix B of the R51 International Recommendation are used as standard normative Appendix A and Appendix B.

Since the current management model of measurement products in China is different from the international one, there are a small number of this standard and R51 international recommendations.

Differences, for the sake of comparison, a checklist of the provisions of this standard and the internationally recommended clauses is listed in the informative Appendix C.

Due to the legal requirements of our country and the special needs of industry, this standard has been revised when adopting international recommendations. These technical differences Vertical single lines are identified in the margins of the terms they refer to. A list of technical differences and their causes is given in Appendix D.

for reference.

This standard removes the preface to the R51 International Recommendation.

This standard was proposed by the Light Industry Federation.

This standard is under the jurisdiction of the National Weighing Apparatus Standardization

Technical Committee (SAC/TC97).

1 Scope

This standard specifies the terms, product models, requirements, inspection methods and rules, marking, packaging, transportation and storage of automatic weighing instruments.

This standard also provides a standardized requirement and test for the measurement characteristics or technical characteristics of the automatic weighing instrument in a traceable manner.

Procedures and forms.

This standard applies to automatic weighing instruments that weigh pre-packaged discrete loads or loose single loads.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this standard.

GB/T 191 packaging storage and transportation pictorial signs (GB/T 191-2008, ISO 780:1997, MOD) GB/T 2887 General Specification for Electronic Computer Sites GB/T 4879 anti-rust packaging GB/T 5048 moisture-proof packaging GB/T 2423.1 Environmental testing of electric and electronic products - Part 2. Experimental methods Test A. Low temperature (GB/T 2423.1-2008, IEC 60068-2-1:2007, IDT) GB/T 2423.2 Environmental testing of electric and electronic products - Part 2. Experimental method Test B. High temperature (GB/T 2423.2-2008, IEC 60068-2-2:2007, IDT) GB/T 2423.3 Environmental testing of electric and electronic products - Part 2. Experimental method test Cab. constant damp heat test (GB/T 2423.3-2006, IEC 60068-2-78:2001, IDT) GB/T 2424.1 Environmental testing for electric and electronic products - Guide to high temperature and low temperature test (GB/T 2424.1-2005, IEC 60068-3-1:1974, IDT) GB/T 2424.2 Guidelines for the evaluation of damp heat in environmental testing of electrical and electronic products (GB/T 2424.2-2005, IEC 60068-3-4.

2001, IDT)

GB/T 7551 load cell (GB/T 7551-2008, OIMLR60..2000, MOD) GB/T 7724 electronic weighing instrument General technical conditions for GB/T 13384 mechanical and electrical product packaging General technical conditions for GB/T 15395 electronic equipment cabinet GB 14249.1 Electronic Weighing Apparatus Safety Requirements GB/T 14250 weighing instrument terminology GB/T 17626.2 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test (GB/T 17626.2-2006, IEC

61000-4-2:2001, IDT) GB/T 17626.3 Electromagnetic compatibility test and measurement technology RF electromagnetic radiation immunity test (GB/T 17626.3-2006, IEC 61000-4-3:2002, IDT) GB/T 17626.4 Electromagnetic compatibility test and measurement technology Electrical fast transient burst immunity test (GB/T 17626.4-2008, IEC 61000-4-4:2004, IDT) GB/T 17626.5 Electromagnetic compatibility test and measurement technology Surge (impact) immunity test (GB/T 17626.5-2008, IEC 61000-4-5:2005, IDT) GB/T 17626.6 Electromagnetic compatibility test and measurement technology Conducted disturbance immunity of RF field induction (GB/T 17626.6-2008, IEC 61000-4-6:2006, IDT) GB/T 17626.11 Electromagnetic compatibility test and measurement techniques Immunity test for voltage dips, short interruptions and voltage changes (GB/T 17626.11-2008, IEC 61000-4-11:2004, IDT) QB1563 weighing instrument product model preparation method QB/T 1588.1 General technical conditions for welding parts of light industrial machinery QB/T 1588.2 General technical requirements for machining parts of light industrial machinery QB/T 1588.3 General technical conditions for assembly of light industrial machinery QB/T 1588.4 General technical conditions for painting of light industrial machinery

3 Terms and definitions

The following terms and definitions defined in GB/T 14250 apply to this document. For ease of use, the following is a list of GB/T 14250 Some terms and definitions in .

3.1 General definition

3.1.1

Weighing instrument

A measuring instrument that determines the mass of an object by gravity acting on the object.

Note: In this standard, "quality" (or "weight value") is more suitable for the expression "agreed quality" or "agreed value of weighing results in air", and "weight" it is a concrete form of quality (equal to physical measuring tools) that is more suitable for its physical and metrological characteristics.

The scale can also be used to determine other magnitudes, values, parameters or characteristics of the mass function.

According to its operation, the scale can be divided into automatic weighing instruments and non-automatic weighing instruments.

3.1.2

Automatic weighing instrument an instrument that automatically weighs in accordance with a predetermined processing procedure without operator intervention during the weighing

process.

3.1.3

Automatic check weighing instrument automatic catch weighing instrument; catch weigher an automatic weighing instrument that weighs pre-packaged discrete loads or loose single loads.

3.1.3.1

Checkweigher Dividing pre-packaged discrete loads (items) of different qualities into two or more types according to the difference between their mass and nominal set points the quantity is automatically scaled. Checkweighing scales are also known as weight inspection scales, sorting scales, weight sorting scales, inspection scales, and inspection scales.

3.1.3.2

Label scale weighlabeler an inspection scale with a dedicated labeling mechanism that identifies the weight value of each prepackaged discrete load.

3.1.3.3

Pricing label scale weigh-pricelabeler Inspection scale with price and special labeling mechanism. Calculate the price according to the indicated quality and unit price, and indicate the pre-package on the label the weight value, unit price and total price of the discrete load.

3.1.3.4

Vehicle-mounted scale vehicle mounted instrument A complete automatic weighing instrument that is designed for a specific application and is securely mounted on the vehicle.

Note: For example, a garbage scale (waste collection vehicle) is used to determine the amount of bulk items that are poured into a vehicle body from a container (supported by a carrier).

3.1.3.5

Vehicle combination scale vehicle incorporated instrument an instrument in which the vehicle and the weighing portion share the same components (lever, connecting piece, force converter, etc.).

Note: For example, a front loader (front loading vehicle) can determine the amount of bulk material in the bucket (carrier) when loading the bulk material.

3.1.4

Bulk material loose material Materials that are not packaged during weighing or weighing. This material can be collected and placed on a carrier (such as a preload) Weighing in a separate container (waste scale).