



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

GB/T 14253-2026

Replacing GB/T 14253-2008

General specification for light industry machinery

轻工机械通用技术条件

(English Translation)

Issued on: August 28, 2026

Implemented on: March 1, 2027

Issued by: State Administration for Market Regulation

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Reference

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.

Aside from integration and editorial changes, the main technical changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2008 edition);
- b) The terms and definitions for "testing," "service life," and "marking" have been changed (see 3.2, 3.4, 3.5; 3.2, 3.4, 3.5 in the 2008 edition);
- c) Added the terms and definitions for "production line", "unit operation device", "production capacity", "rated production capacity", and "production efficiency" (see...) 3.12~3.16);
- d) The "Styling and Layout" requirements have been changed (see 4.2, 2008 version 4.2);
- e) Added "Basic Requirements" (see 5.1);
- f) The "Materials" requirements have been changed (see 5.2, Chapter 5 of the 2008 edition);
- g) The "Machining and Assembly" requirements have been changed (see 5.3, Chapter 5 of the 2008 edition);
- h) The "Completeness" requirement has been changed (see 5.4, 4.4 in the 2008 version);
- i) The requirements for "Hydraulics, Pneumatics, and Lubrication" have been changed (see 5.5, 4.5.2 to 4.5.5 in the 2008 edition);

- j) The requirements for "Electrical and Automation" have been changed (see 5.6, 4.5.1 of the 2008 edition);
- k) The requirement of "intelligentization" has been added (see 5.7);
- l) The "Security" requirements have been changed (see 5.8, 4.6 in the 2008 version);
- m) The "Service Life and Reliability" requirements have been changed (see 5.9, 4.7 of the 2008 version);
- n) Added "energy conservation and environmental protection" requirements (see 5.10);
- o) The "Features and Performance" requirements have been changed (see 5.12, 4.3 of the 2008 version);
- p) The content of "Test Methods" has been changed (see Chapter 6, Chapter 7 in the 2008 edition);
- q) The content of the "Inspection Rules" has been changed (see Chapter 7, Chapter 8 of the 2008 edition);

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Light Industry Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Light Industrial Machinery (SAC/TC101).

1 Scope

This document defines the terminology related to light industrial machinery, provides model numbers for ease of technical specification, and stipulates basic requirements, design and layout, and materials.

Materials, processing and assembly, completeness, hydraulics, pneumatics and lubrication, electrical and automation, intelligence, safety, service life and reliability, energy saving Environmental protection, appearance quality, function and performance, inspection rules, marking, packaging, transportation and storage, and corresponding test methods are described.

This document applies to the design and manufacture of single machines, unit operating devices, and production lines for light industrial machinery (the above three categories are collectively referred to as "equipment").

Manufacturing, installation, inspection, and acceptance can also serve as the basis for trade contracts between suppliers and buyers, and for certification bodies. Similar machinery is applicable.

When doing so, please refer to this document.

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.

GB/T 150 (All Parts) Pressure Vessels GB/T 151 Heat Exchangers GB/T 191 Packaging and Storage Graphic Symbols GB/T 1348 Ductile Iron Castings GB/T 2100 General purpose corrosion-resistant steel castings GB/T 2828.1 Sampling Procedures for Inspection by Attributes - Part 1: Sampling Schemes Retrieved by Acceptable Quality Limit (AQL) for Lot-by-Lot Inspection GB 2894 Safety Colors and Safety Signs GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components GB/T 3767 Engineering method for determining the sound power level and sound energy level of a noise source using acoustic pressure method in an approximately free field above a reflecting surface.

GB/T 3768 Acoustic pressure method for determining the sound power level and sound energy level of a noise source using a simplified measurement method based on the envelope above the reflecting surface.

Easy Method

GB/T 3836.1 Explosive Atmospheres - Part 1: General Requirements for Equipment GB 4053 (all parts) Safety requirements for fixed metal ladders and platforms GB 5083 General Principles for Safety and Health Design of Production Equipment GB/T 5226.1-2019 Electrical Safety of Machinery - Electrical Equipment of Machinery - Part 1: General Technical Conditions GB 5226.3 Safety of Machinery - Electrical Equipment of Machinery - Part 11: Voltages above 1000 Va.c. or 1500 Vd.c. but not exceeding Technical requirements for 36kV high-voltage equipment GB/T 7932 General rules and safety requirements for pneumatic systems and their components GB/T 7935 General Technical Requirements for Hydraulic Components GB 8978 Integrated Wastewater Discharge Standard GB/T 9239.11 Mechanical vibration rotor balancing - Part 11: Balancing methods and tolerances for rigid rotors GB/T 9438 Aluminum Alloy Castings