

ICS 55.200
CCS J83



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

GB 46772-2025

Safety requirements of packaging machinery

包装机械安全要求

Issued on: October 31, 2025

Implemented on: November 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

1	Scope
2	Normative references
2.1	Occupational Exposure Limits for Hazardous Factors in the Workplace - Part
3	Terms and Definitions
4	Fixed vertical ladders
5	General Requirements
5.1	General Requirements
5.2	Control System Safety Requirements
5.3	Safety Requirements for Hydraulic and Pneumatic Systems
5.4	Electrical safety requirements
5.5	Safety Requirements for Emergency Stop Devices
5.6	Safety Requirements for Robot Equipment
5.7	Remote Service Security Requirements
5.8	Protection against crush and collision hazards
5.9	Protection against cutting hazards
5.10	Protection against danger
5.11	Protection against the hazards of slipping, tripping, and falling
5.12	Protection against spray hazards
5.13	Protection against vibration hazards
5.14	Protection against cold and heat hazards
5.15	Protection against the danger of accidental descent
5.16	Protection against the risk of energy and power failure
5.17	Protection against instability issues
5.18	Protective equipment used during disassembly, cleaning, installation, and maintenance.
5.19	Protection against ejected packaging containers or container fragments
5.20	Requirements for materials and structures in contact with food and pharmaceuticals
5.21	Requirements for reducing radiation hazards
5.22	Information Requirements
6.1	Cleaning and sterilization of packaging materials
6.2	Roll/Sheet Feeding Device
6.3	Rotating Mechanism

6.4	Filling/Pouring Mechanism
6.5	Sealing device
6.6	Blow Molding Machine
6.7	Bottle Washing Machine
6.8	Filling Machine
6.9	Labeling Machinery
6.10	Laser marking machine
6.11	Wrapping Machine
6.12	Carton Packing/Sealing Machine
6.13	Palletizer (Unpalletizer)
6.14	Strapping Machine
6.15	Stretch wrapping machine
6.16	Conveyor
7	Responsibility
7.1	Manufacturer
10	Reference
15	Design, Selection and Installation of Electrical Installations

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. 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 and is under the jurisdiction of the Ministry of Industry and Information Technology of the People's Republic of China. Safety requirements for packaging machinery

1 Scope

GB 46772-2025 is the Chinese national standard on safety requirements of packaging machinery, in the field of packaging and distribution of goods. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2026. Classification: ICS 55.200, CCS J83. This page is published from the official record of the standard held by the

Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the safety requirements for packaging machinery and its auxiliary packaging equipment, including general requirements, common requirements, and requirements for special packaging equipment. Supplemental requirements and responsibilities for the equipment. This document applies to the design and manufacture of packaging machinery and its auxiliary packaging equipment (hereinafter referred to as "packaging machines").

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 2894 Safety Colors and Safety Signs

GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components

GB 3836.15 Explosive Atmospheres - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

4 Fixed vertical ladders

GB/T 18209.1 Electrical safety indications, signs and operation of machinery - Part

15 Design, Selection and Installation of Electrical Installations

GB/T 4208 Degrees of protection provided by enclosures (IP code)

GB/T 5226.1 Electrical Safety of Machinery - Electrical Equipment of Machinery - Part