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

GB/T 46156-2025

**Continuous mechanical handling equipments - Safety
specification - General rules**

连续搬运设备 安全规范 通用规则

(English Translation)

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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 is modified to adopt ISO 1819:1977 "Safety specifications for continuous handling equipment - General rules".

This document has undergone significant structural adjustments compared to ISO 1819:1977. A table comparing the structural numbering changes between the two documents is provided.

See Appendix A.

This document differs significantly from ISO 1819:1977 in several technical aspects. The relevant clauses are indicated in vertical single-line margins.

The lines (|) are marked. A summary of these technical differences and their causes can be found in Appendix B.

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 Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee on

Standardization of Continuous Handling Machinery (SAC/TC331).

1 Scope

This document specifies the basic safety requirements for the design, manufacture, installation, commissioning, operation and maintenance of continuous material handling equipment.

This document applies to conveying machinery and feeding machinery.

This document does not apply to continuous transport equipment used in underground coal mines.

This document does not cover specific safety rules for continuous transport equipment or special safety issues for each piece of equipment.

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/T 2893.5 Graphical symbols, safety colors, and safety signs - Part 5: Principles and requirements for the use of safety signs
GB 4053.1 Safety requirements for fixed steel ladders and platforms - Part 1: Straight steel ladders
GB 4053.2 Safety requirements for fixed steel ladders and platforms - Part 2: Steel inclined ladders
GB 4053.3 Safety requirements for fixed steel ladders and platforms - Part 3: Industrial guardrails and steel platforms
GB/T 12976.3 Paper-insulated power cables and their accessories with rated voltage of 35kV ($U_m=40.5kV$) and below - Part 3: Electrical Cable and accessory testing
GB/T 14776 Ergonomic Design Principles and Numerical Values for Job Dimensions
GB 15763.2 Safety Glass for Buildings - Part 2: Tempered Glass
GB/T 16855.1 Safety-related components of mechanical safety control systems - Part 1: General design principles
GB/T 16927 (all parts) High voltage and high current testing techniques
GB/T 17627 High-voltage testing techniques for low-voltage electrical equipment. definitions, test and procedural requirements, and test equipment.

GB/T 37977.51 Electrostatics - Part 5-1.General requirements for electrostatic protection of electronic devices
GB/T 44523 General Rules for Safety Signs and Hazard Illustrations for Continuous Handling Machinery
GB 50054 Code for Design of Low-Voltage Power Distribution
GB 50057 Code for Design of Lightning Protection of Buildings
GB 50060 Design Code for 3~110kV High Voltage Switchgear
GB 50169 Code for Construction and Acceptance of Grounding Devices in Electrical Installations
GB/T 5226.1 Electrical Safety

of Machinery - Electrical Equipment of Machinery - Part 1: General Technical Conditions

3 Terms and Definitions

The following terms and definitions apply to this document.

According to the equipment design requirements, the specified conditions for using continuous material handling equipment shall apply.