

ICS 53.040.01

CCS J 81



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

GB/T 44523-2024

**Continuous mechanical handling equipment - General
principles for safety signs and hazard pictorials**

连续搬运机械 安全标志和危险图示通则

Issued on: September 29, 2024

Implemented on: April 1, 2025

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

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the 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 for Standardization of Continuous Handling Machinery (SAC/TC331). This document was drafted by: Taiyuan University of Science and Technology, Beijing Hoisting and Conveying Machinery Design and Research Institute Co., Ltd., Shanghai University of Science and Technology Heavy Industry Group Co., Ltd. Company, Libo Heavy Industry Technology Co., Ltd., Sichuan Zigong Transport Machinery Group Co., Ltd., Northern Heavy Industries Group Co., Ltd., National Lifting and Transportation Machinery Quality Inspection and Testing Center, Taizhong Group Xiangming Intelligent Equipment Co., Ltd., Jiaozuo Keruisen Heavy Equipment Co., Ltd. Co., Ltd., Huadian Heavy Industry Co., Ltd., Jiaozuo Xinheng Heavy Industry Machinery Co., Ltd., Qinhuangdao Port Co., Ltd., Anhui Magang Conveying Equipment Manufacturing Co., Ltd. Co., Ltd., Rizhao Port Ship Machinery Industry Co., Ltd., Ningxia Tiandi Northwest Coal Mine Machinery Co., Ltd., Hunan Changzhong Machinery Co., Ltd., Baoke Machinery Co., Ltd., Wenzhou Yitong Automation Equipment Co., Ltd., CCCC Mechanical and

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1 Scope

China's national general principles for the safety signs and hazard pictorials used on continuous mechanical handling equipment. Conveyors, elevators and their relatives present hazards that are invisible in the sense that matters: a belt running at two metres a second is quiet, looks harmless, and will pull an arm into a nip point faster than anyone can react. The nip points themselves - where the belt meets a pulley, where a chain meets a sprocket - are the hazard, and there are dozens along a single machine. Signs are the last line of defence after guarding, and their design has to work for the people at risk: often not the operators, but cleaners, maintainers and passers-by, who may not read the language and who see the sign only in passing. That is why the principles are about pictorials, placement and consistency rather than about wording.

This document specifies general principles for the design and application of safety signs and hazard pictorial symbols on continuous handling machinery. This document applies to various types of continuous handling machinery defined in GB/T 14521.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB 2894-2008 Safety signs and their use guidelines

GB/T 14521 Terminology for continuous handling machinery

GB/T 26560-2011 General rules for safety signs and hazard pictorial symbols for powered industrial vehicles

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 safety sign A sign used to express specific safety information, consisting of graphic symbols, safety colors, geometric shapes (frames) or text. [Source: GB 2894-2008, 3.1]

3.2 hazard pictorial Graphics that give a visual description of the hazard and how to avoid it.

Note. Hazard pictograms are an integral part of safety signs.

3.3 information sign A graphic safety sign that provides people with certain information (such as indicating the location of safety facilities or safety measures, etc.). Example. "Rendezvous point".

3.4 attention signcautionsign Graphic safety signs reminding personnel to pay attention to the surrounding environment or continuous handling equipment used to avoid possible danger. Example. "Fall Hazard".

3.5 warning sign Graphic safety signs reminding personnel to pay attention to the surrounding environment or continuous handling equipment used to avoid possible danger. Examples. "Danger", "Electricity".