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

**GB/T 47236-2026**

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**Foundry machinery - Low pressure die casting machines and  
other permanent mould casting equipment - Safety technical  
specification**

铸造机械 低压铸造机及其他金属型铸造设备 安全技术规范

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Standardization Administration of the PRC**

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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. 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 Foundry Machinery (SAC/TC186). This document was drafted by: Zhejiang Wanfeng Technology Development Co., Ltd., Shenzhen Lingwei Technology Co., Ltd., and Guangdong Hongtu Nantong Die Casting Co., Ltd. Limited Liability Company, Xiamen Baishunde Engineering Technology Co., Ltd., Suzhou Sanxin Machinery Manufacturing Co., Ltd., Shanghai Yida Machinery Co., Ltd., Shenzhen Zhongyan Plastics Technology Co., Ltd., Jinhua Baolin Technology Co., Ltd., Zhejiang Wanfeng Auto Wheel Co., Ltd., Dongfeng Motor Group Co., Ltd. Limited Liability Company, Tianshui Huarong Foundry Machinery Co., Ltd., Taizhou Kangqian Machinery Manufacturing Co., Ltd., Wuxi Bangde Machinery Co., Ltd., Guangdong Zhao Qingdongli

Metal Co., Ltd., Jinan Foundry & Forging Institute Inspection and Testing Technology Co., Ltd., Chongqing Meilixin Technology Co., Ltd., China Automotive Industry Association Automotive Industry Engineering Co., Ltd., Jiarui Technology (Huizhou) Co., Ltd., Anhui Anhuang Machinery Co., Ltd., Jinan Shengyuan Machinery Engineering Co., Ltd. The company, Zhejiang Fangyuan Testing Group Co., Ltd., Shandong Taikai Precision Casting Co., Ltd., and China Machinery Research Institute of Standards and Technology (Beijing) have Limited Company. The main drafters of this document are. Zhang Xuxia, Wu Jinhua, Wu Jun, Liu Zhuoming, Pan Lingling, Huang Mingjun, Chen Yongman, Zhi Yong, Hu Zaoren, and Cai Jiajun. Chen Miaoyong, Chen Bingfeng, Wang Peijian, Zhou Min, Tong Shengkun, Wang Zezhong, Zhou Li, Li Jianping, Guo Yufeng, Zhao Yuan, Guo Jinqiang, Li Chen, Jiang Hanjin Liu Xiaolong, Huang Chunsheng, Han Yong, Yu Shoujian, Zhang Zhongjie, Cui Xiandai, Pei Dongliang, Zhang Xiaofei.

According to the classification of GB/T 15706-2012, this document belongs to Class C standards. This document is particularly relevant to the following stakeholders related to the mechanical safety addressed in this document.

---Machine manufacturer;

---Health and Safety Agency. Other stakeholders affected by the level of mechanical safety include.

---Machine users;

---Machine owner;

---Service provider. All of the aforementioned stakeholders may participate in the drafting of this document. The scope of the machines covered in this document, as well as the hazards, hazardous conditions, and hazardous events covered, is given in the scope of this document. When the requirements in this document differ from those in Category A or Category B standards, for machines designed and manufactured in accordance with this document... For this instrument, the requirements in this document take precedence over the requirements in other standards. Casting machinery, low-pressure casting machines and other metal molds Safety Technical Specifications for Foundry Equipment

## 1 Scope

GB/T 47236-2026 is the Chinese national standard covering low pressure and gravity permanent mould casting - a pressurised furnace of molten metal under the die, where a seal failure releases metal upward, and the moving mould halves and extractors above it. It is one of seven foundry machinery safety standards published together on 27 February 2026, which between them cover a whole foundry: melting, moulding and coremaking, pouring, shakeout, blasting, sand plant and die casting. First edition, in force since 1 September 2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, as a first edition. The document is under the responsibility of the China

Machinery Industry Federation. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the safety requirements and/or risk mitigation measures and usage information for low-pressure casting machines and other metal mold casting equipment, describing... The corresponding verification methods were developed. This document outlines the procedures for using low-pressure casting machines and other metal mold casting equipment as intended, and for use in situations reasonably foreseeable by the manufacturer. Examples of major hazards, hazardous conditions, or hazardous events associated with this type of equipment when used under certain conditions (see Appendix A). This document applies to the design, manufacture, and acceptance of low-pressure casting machines and other metal mold casting equipment.

Note. Low-pressure casting machines and other metal mold casting equipment include low-pressure casting machines, differential pressure casting machines, metal mold gravity casting machines, centrifugal casting machines, and metal mold casting... Automated production units and production lines. This document does not apply to die casting machines and die casting units, squeeze casting machines, spinning equipment, or continuous or semi-continuous casting 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/T 150.4 Pressure Vessels - Part

## 3 Stairs, steps and guardrails

GB/T 17888.4 Mechanical safety - Fixed access devices for machinery - Part

## 4 Manufacturing, Inspection and Acceptance

GB 2894-2025 Safety Colors and Safety Signs

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

GB/T 4208-2017 Degrees of protection provided by enclosures (IP code)

GB/T 5226.1-2019 Electrical Safety of Machinery - Electrical Equipment of Machinery - Part