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

GB/T 47238-2026

**Foundry machinery - Moulding sand preparation and sand
reclamation equipment - Safety technical specification**

铸造机械 型砂制备与砂再生设备 安全技术规范

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Foreword

This document conforms to GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting is scheduled. 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/TC 186). This document was drafted by: Nan'an Zhongji Standardization Research Institute Co., Ltd., Jinmoushi (Xiamen) Management Consulting Co., Ltd., and Beijing Ruihong. Xianghongda Technology Development Co., Ltd., China Automotive Engineering Co., Ltd., Fujian Si'an Intelligent Technology Development Co., Ltd., Suzhou Sanxin Machinery Equipment Manufacturing Co., Ltd., Wuyang Baichuan (Qingdao) Intelligent Equipment Co., Ltd., Zhejiang Wanfeng Technology Development Co., Ltd., Yonghong Baoding Foundry Machinery Co., Ltd., Jinan Foundry & Forging Institute Inspection and Testing Technology Co., Ltd., Fujian Minxuan Technology Co., Ltd., China National Machinery Foundry & Forging Machinery Co., Ltd. The company, Baoding Weier Foundry Machinery Co., Ltd., Qingdao Zhongzhida Environmental Protection Smelting Equipment Co., Ltd., and Jinan Ruisheng Foundry Machinery Co., Ltd. Company, Qingdao

Antai Heavy Industry Machinery Co., Ltd., Qingdao Sanrui Machinery Manufacturing Co., Ltd., Jinan No.2 Machine Tool Group Co., Ltd., Shandong Jiechuang Machinery Machinery Co., Ltd., Weihai Gongyou Foundry Machinery Co., Ltd., Qingdao Kaijie Heavy Industry Machinery Co., Ltd., Suzhou Mingzhi Technology Co., Ltd. China Machinery Research Institute of Standards and Technology (Beijing) Co., Ltd. The main drafters of this document are. Qu Zhong, Lai Zhihuang, Yu Yanqi, Liu Xiaolong, Chen Jian, Ke Zhenzhen, Zhi Yong, Wang Derun, Wu Jinhua, and Wu Jun. Liu Haibin, Guan Qinghui, Zhan Changjun, Li Chen, Nie Yuhan, Zhu Bin, Hao Liantao, Cai Shaogang, Hou Ruoxian, Duan Jinting, Xiang Ziqiang, Li Xinkun, Ding Renxiang Wu Guangxin, Yan Dongxing, Zhang Jie, Chi Yingjie, Su Ligu, Lu Gaochun, 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 who have a stake in the mechanical safety covered herein. --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. Foundry Sand Preparation and Recycling Equipment Safety Technical Specifications

1 Scope

GB/T 47238-2026 is the Chinese national standard covering the safety of a sand plant - the mixers, mullers, conveyors and reclamation units, their guarding and interlocks, the dust that is both a health hazard and an explosion risk, and the safe access for the cleaning that such a plant constantly needs. First edition, 19,000 words, in force since 1 September 2026, with the resin and water glass sand reclamation standards GB/T 28690-2026 and GB/T 31551-2026. 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 for molding sand preparation and sand recycling equipment, provides usage information, and describes the safety requirements for molding sand preparation and sand recycling equipment. The corresponding verification method. This document outlines the conditions

under which molding sand preparation and sand recycling equipment should be used for their intended purpose, as well as under conditions of misuse that the manufacturer could reasonably foresee. When using this type of equipment, the major hazards associated with it, and examples of hazardous conditions or incidents (see Appendix A). This document applies to the design, manufacture, and acceptance of equipment for molding sand preparation and sand recycling. Note

1. Molding sand preparation and sand recycling equipment includes molding sand preparation equipment, sand recycling equipment, and related equipment for molding sand preparation and sand recycling. Note

2. This document does not cover specific hazards associated with wet sand regeneration equipment and wastewater treatment systems.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below. 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

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 3836.15 Explosive Atmospheres - Part

15 Design, Selection and Installation Specifications for Electrical Installations

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

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