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

GB/T 47257-2026

**Foundry machinery - Abrasive blasting equipment - Safety
technical specification**

铸造机械 抛喷丸设备 安全技术规范

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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: Nan'an Zhongji Standardization Research Institute Co., Ltd., Yancheng Fengte Foundry Machinery Co., Ltd., and Shanxi Huaxiang Group. Group Co., Ltd., Xiamen Suizhi Technology Co., Ltd., Jiangsu Dongfang Zhonglian Industrial Technology Co., Ltd., Fujian Haixi Water Filter Faucet Research Institute Xin Co., Ltd., Shanxi Zhongshe Huajin Foundry Co., Ltd., Jinan Foundry & Forging Institute Inspection and Testing Technology Co., Ltd., China Automotive Engineering Co., Ltd. The company, Jinhua Haoxiang Auto Parts Co., Ltd., Qingdao Zhongzhida Environmental Protection Smelting Equipment Co., Ltd., and Huace Testing & Certification Group Co., Ltd. Fujian Minxuan Technology Co., Ltd., Yonghong Baoding Foundry Machinery Co., Ltd., Qingdao Antai Heavy Industry Machinery Co., Ltd., Baoding Weier Foundry Shandong Kaitai Shot Blasting Machinery Co., Ltd., Shandong Rongxin Foundry Machinery Co., Ltd., and Shandong Jiechuang Machinery Co., Ltd. Company, Weihai Gongyou Foundry Machinery Co., Ltd., Chongqing Meilixin Technology Co., Ltd., Qingdao Qingzhu Equipment Co., Ltd., Qingdao Qingli Environmental Protection Equipment Co., Ltd., Anhui Anhuang Machinery Co., Ltd., Changzhou Luoju Machinery Equipment Co., Ltd., China Machinery Research Institute of Standards and Technology (Beijing) Co., Ltd. The main drafters of this document are. Ke Zhenzhen, Yu Liluan, Qiao Shengbing, Wang Yuan, Yang Nan, Wang Ridong, Li Chen, Guo Zhonggui, Wang Hua, Liu Xiaolong, and Yang Liangqun. Yang Hao, Zhan Changjun, Duan Jinting, Huang Qing, Chen Huiling, Wu Ruimin, Li Lan, Ji Yan, Hou Ruoxian, Xu Jincheng, Sun Changqing, Zhang Huiying, Chi Yingjie, Jiang Hanjin Xing Haiwei, Sui Chengfu, Chen Fulai, Xu Yaguang, 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 machinery shot peening equipment Safety

Technical Specifications

1 Scope

GB/T 47257-2026 is the Chinese national standard covering shot blasting machines - the interlocked enclosure that must not open while the wheels are still turning, the abrasive and dust handling, and the wear that eventually lets shot escape at lethal speed. 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 reduction measures for shot blasting equipment, as well as usage information, and describes the corresponding verification methods. This document outlines the procedures for using shot blasting equipment for its intended purpose and for use under conditions of misuse that the manufacturer could reasonably foresee. Major hazards associated with this type of equipment, and examples of hazardous conditions or incidents (see Appendix A). This document applies to the design, manufacture, and acceptance of shot blasting equipment.

Note

1. Shot blasting equipment includes shot blasters, shot blasting cleaning machines, shot blasters, shot blasting cleaning machines, and combined shot blasting and shot blasting cleaning machines. Note
2. This document does not cover specific hazards associated with the movement of mobile shot blasting equipment (such as shot blasting machines designed to operate in different locations). This document does not apply to workpiece loading and unloading systems and ventilation and dust removal 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 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 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 of Electrical Installations

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