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**Foundry machinery - Remanufacturing - General technical
specifications**

铸造机械 再制造 通用技术规范

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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 Foundry Machinery Standardization Technical Committee (SAC/TC186): This document was drafted by: Nan'an Zhongji Standardization Research Institute Co., Ltd., Guangdong Hongtu Nantong Die Casting Co., Ltd., Jinan Casting and Forging Institute Yan Testing Technology Co., Ltd., Huace Testing & Certification Group Co., Ltd., Jiayan Tetra Pak (Xiamen) Trading Co., Ltd., Qingdao Henglin Industrial Group Co., Ltd., Wenzhou Ruier Metal Manufacturing Co., Ltd., Zhejiang Wanfeng Technology Development Co., Ltd., Huzhou Nanfeng Machinery Manufacturing Co., Ltd., Zhejiang Bodong Industry and Trade Co., Ltd., Gongqing Vocational College of Science and Technology, Fujian Minxuan Technology Co., Ltd., Qingdao University of Technology, Anqing Normal University, Qingdao Antai Heavy Industry Machinery Co., Ltd., Qingdao Zhongzhida Environmental Protection Melting Equipment Co., Ltd., Sichuan Zhonganke Safety Technology Co., Ltd., Quanzhou Standardization Institute, Quanzhou Standardization Association, China Automotive Industry Engineering Co., Ltd., Shandong Jiechuang Machinery Co., Ltd., Qingdao Sanrui Machinery Manufacturing Co., Ltd., Qingdao Kaijie Heavy Industry Machinery Co., Ltd., Qingdao Qingli Environmental Protection Equipment Co., Ltd., Qingdao Benuo Magnetics Electric Technology Co., Ltd., Weihai Gongyou Casting Machinery Co., Ltd., Dongguan Xinzhidian Technology Service Co., Ltd., Guangzhou Zhongshan Precision Technology Co., Ltd. Co., Ltd., Shandong Kaitai

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Remanufacturing refers to the use of special processes and technical means to recycle products that have use value but have been functionally damaged or technically obsolete:

The obsolete products that are no longer in use are repaired, modified or upgraded to achieve or exceed the quality and performance of the original new products:

Remanufacturing can achieve the reuse of waste products, reduce resource consumption and environmental pollution, save energy, and reduce harmful substances such as greenhouse gases: Remanufacturing helps promote sustainable development and has become an important part of the circular economy and low-carbon economy: China is a major foundry country in the world, and also a major producer and user of foundry machinery: There are many old foundry machines that need to be replaced: If the products are directly eliminated and scrapped, a large amount of waste will be generated, resulting in a waste of resources: Therefore, it is very necessary to develop the remanufacturing of casting machinery: This document aims to develop a scientific, reasonable, operational and economical general guideline for the remanufacturing of foundry machinery for remanufacturing enterprises: The purpose of the technical specification is to:

--- Provide requirements and technical guidance for the remanufacturing of casting machinery;

---Improve the quality requirements of foundry machinery remanufacturing products;

---Promote the healthy development of foundry machinery remanufacturing: General technical specifications for foundry machinery remanufacturing

1 Scope

China's national general technical specification for remanufacturing foundry machinery. Foundry equipment is a good candidate for remanufacturing and a demanding one. The machines are large, expensive, long-lived and built in small numbers, so a replacement is a capital project rather than a purchase; and they wear in ways that are predictable and repairable - moulding machines, shot blast equipment, sand plant and shakeouts are abraded rather than fatigued, so their structures survive while their working surfaces do not. What makes it demanding is that the wear is everywhere at once and the machine is filthy: assessing a core of this kind means cleaning it before anything can be judged, and the assessment must distinguish surfaces that can be built up and remachined from structures

whose accumulated damage means the frame itself is finished. The specification sets out how that judgement is made and documented.

This document specifies the basic requirements for foundry machinery remanufacturing, recycling, disassembly and cleaning/cleaning, parts testing, sorting and remanufacturing Evaluation, remanufacturing design, processing and assembly, factory inspection, labeling, packaging, transportation and storage: This document applies to the remanufacturing of foundry machinery:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this text: 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/T 25711 General technical specification for foundry machinery

GB/T 27611 General requirements and labeling for recycled and remanufactured products

GB/T 28619-2012 Remanufacturing terminology

GB/T 31208 Quality inspection method for remanufactured blanks

GB/T 32811 Technical specification for remanufacturability evaluation of mechanical products

GB/T 35978 Technical Guidelines for Inspection of Remanufactured Mechanical Products

3 Terms and definitions

The terms and definitions defined in GB/T 28619-2012 and the following apply to this document: 3:

1 Used casting machinery or parts that have use value but are no longer used due to functional damage or technical obsolescence: 3:

2 Remanufacturing The process of professionally repairing or upgrading remanufactured blanks to make their quality characteristics no less than the level of the original new product:

Note 1: Quality characteristics include product functions, technical performance, greenness and economy, etc:

Note 2: The remanufacturing process generally includes the recovery, inspection, disassembly, cleaning, classification, evaluation, repair processing, reassembly, testing, labeling and packaging of remanufactured blanks: Equipment etc: [Source: GB/T 28619-2012, 2:2] 3:

3 Casting machinery products (complete machines or parts) that have gone through the remanufacturing process and met the remanufacturing requirements and are put back on the market for sale:

4 Basic Requirements

1 The casting machinery remanufacturing (hereinafter referred to as "remanufacturing") process shall be carried out according to the set process flow (see Appendix A):