

ICS 25.010

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

GB/T 37400.1-2019

**Heavy machinery general technical specification - Part 1:
Product inspection and testing**

重型机械通用技术条件 第1部分：产品检验

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Foreword

GB/T 37400 "General Technical Conditions for Heavy Machinery" is divided into 16 parts.

- Part 1. Product inspection;
- Part 2. Flame cutting parts;
- Part 3. Welded parts;
- Part 4. Cast iron parts;
- Part 5. Non-ferrous metal castings;
- Part 6. Steel castings;
- Part 7. Repair welding of steel castings;
- Part 8. Forgings;
- Part 9. Machining parts;
- Part 10. Assembly;
- Part 11. piping;
- Part 12. Painting;
- Part 13. Packaging;

1 Scope

Part 1 of China's general technical specification for heavy machinery, covering the inspection and testing of products. The series applies to the parts, components and machines of smelting, rolling, heavy forging, continuous casting and mining equipment - the machines that build everything else, made in ones and twos, weighing hundreds of tonnes, and assembled on the customer's site rather than in a factory. That is why the series exists in this form. A mass-produced machine is specified by its product standard, and each unit is a copy of a type that was tested once; a heavy machine is unique, so the general requirements have to be written as a technical specification that a contract can refer to,

covering how the work is done rather than what the product must be. Part 1 sets out the inspection and testing regime that runs through the whole build, since a defect found after assembly on a machine of this size is not repaired but rebuilt.

This part of GB/T 37400 specifies heavy machinery products (mainly including smelting, rolling, heavy forging, continuous casting, mining machinery, etc. Parts and components of the matching machinery and purchased semi-finished products (the original size along the length direction formed by the rolling process) General inspection requirements for materials). This section applies to the inspection of heavy machinery products. This section does not apply to the inspection of pressure vessels.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document. Ultrasonic testing method for

GB/T 2970 thick steel plate

GB/T 4162 forging steel bar ultrasonic testing method

GB/T 37400.2 General technical requirements for heavy machinery - Part 2. Flame cutting parts

GB/T 37400.3 General technical requirements for heavy machinery - Part 3. Welding parts

GB/T 37400.4 General technical requirements for heavy machinery - Part 4.

GB/T 37400.5 General technical requirements for heavy machinery - Part 5. Non-ferrous metal castings

GB/T 37400.6 General technical requirements for heavy machinery - Part 6. Steel castings

GB/T 37400.7 General technical requirements for heavy machinery - Part 7

GB/T 37400.8 General technical requirements for heavy machinery - Part 8. Forgings

GB/T 37400.9-2019 General technical requirements for heavy machinery - Part 9

GB/T 37400.10 General technical requirements for heavy machinery - Part 10. Assembly

GB/T 37400.11 General technical requirements for heavy machinery - Part 11.

GB/T 37400.12-2019 General technical conditions for heavy machinery - Part 12. Painting

3 Inspection basis

The inspection shall be based on the requirements in the following documents.

- a) ordering contract or ordering technical requirements;
- b) Product drawings, design documents, production documents and relevant technical standards in accordance with the ordering contract or technical requirements for ordering.

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