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

GB/T 11263-2024

Replacing GB/T 11263-2017

Hot rolled H and cut T section steel

热轧H型钢和剖分T型钢

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Foreword

This document was drafted in accordance with the rules given in GB/T 1.1-2020, Directives for standardization - Part

1. Rules for the structure and drafting of standardizing documents. This document replaces GB/T 11263-2017 Hot rolled H and cut T section steel. Compared with GB/T 11263-2017, in addition to structural adjustments and editorial changes, the main technical changes are

as follows: -- Change the classification and code (see

4.2 of the 2017 edition); -- Change the allowable deviation classification of height, width, thickness, center deviation and flange bending (see Table 1; Table 3 of the 2017 edition); -- Add the web wave allowable deviation (see Table 1); -- Change the requirements on weight and allowable deviation (see 6.3; Table 5 of the 2017 edition); -- Add the method of customizing H section steel specifications (see 6.5); -- Change the requirements for steel designation, chemical composition and mechanical properties (see

6.3 of the 2017 edition); -- Change the surface quality requirements (see 7.4;

6.4 of the 2017 edition); -- Change the nominal cross-sectional dimensions, cross-sectional area, theoretical weight and cross-sectional properties of H section steel and T section steel (see Appendix A, Appendix B, Appendix C; Appendix A, Appendix B, Appendix C, Appendix D, Appendix G of the 2017 edition); -- Add the calculation formulas for the cross-sectional area, theoretical weight and cross-sectional properties of H section steel (see Appendix D). Please note that some of the contents of this document may involve patents. The issuing organization of this document is not responsible for identifying patents. This document was proposed by China Iron and Steel Industry Association. This document shall be under the jurisdiction of National Technical Committee 183 on Iron and Steel of Standardization Administration of China (SAC/TC 183). Drafting organizations of this document. Maanshan Iron & Steel Company Limited, Shandong Iron and Steel Co., Ltd. Laiwu Branch, China Metallurgical Information and Standardization Institute, Hebei Jinxi Iron and Steel Group Co., Ltd., Rizhao Steel Hot rolled H and cut T section steel

1 Scope

GB/T 11263-2024 is the Chinese national standard on hot rolled h and cut t section steel, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 26 October 2024 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2025. Classification: ICS 77.140.70, CCS H 44. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the order content, classification, code, size, shape, weight and allowable deviation, technical requirements, test methods, inspection rules, packaging, marking and quality certificate of hot rolled H section steel and T section steel cut from hot rolled H section steel. This document applies to hot rolled H section steel (hereinafter referred to as H section steel) and T section steel cut from hot rolled H section steel (hereinafter referred to as T section steel).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the version corresponding to that date is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

GB/T 222, Permissible tolerances for chemical composition of steel products

GB/T 228.1, Metallic materials - Tensile testing - Part

3 Terms and definitions

No terms and definitions need to be defined in this document.

4 Order content

The contract or order for goods ordered under this document shall contain at least the following.

- a) product name and type;
- c) reference to this document;
- d) specifications;
- e) delivery length;
- f) weight and quantity;
- g) other special requirements proposed by the buyer, such as special specification requirements, special surface quality requirements, etc.

5 Classification and code

5.1 H section steel is divided into two categories, and their codes are as follows: -- H section steel ("H" stands for general purpose H section steel); -- HK section steel ("HK" stands for extended H section steel).

5.2 The code for T section steel is "T section steel" ("T" stands for cut T section steel).

6.1 Size and representation

6.1.1 The cross-sectional views of H section steel and T section steel are shown in Figures 1 and 2.

6.1.2 The cross-sectional dimensions of H section steel and T section steel shall comply with the provisions of Appendix A, Appendix B and Appendix C respectively, among which

the fillet radius (r), surface area and moment of inertia (I_x , I_y), radius of inertia (i_x , i_y) and section modulus (W_x , W_y) in Appendix A, Appendix B and Appendix C are reference values. According to the requirements of the buyer, products of other parameter requirements can also be supplied by agreement between the supplier and the buyer. Reference formulas for calculating the cross-sectional area, theoretical weight and cross-sectional properties of H section steel are shown in Appendix D.

6.1.3 The delivery length of H section steel and T section steel shall be specified in the contract. Usually, the specific length is 12 000 mm. Products of other specific lengths can also be supplied according to the requirements of the buyer.

6.2 Size, shape and allowable deviation

6.2.1 The size, shape and allowable deviation of H section steel shall comply with the requirements of Table

1. The allowable deviation of the height of T section steel shall comply with the provisions of Table 2; the allowable deviation of other parts shall be in accordance with the allowable deviation of the corresponding parts of H section steel.

6.2.2 Based on the requirements of the buyer, the size, shape and allowable deviation of H section steel and T section steel may also be subject to the agreement between the supplier and the buyer.

6.2.3 H section steel and T section steel shall be free of obvious torsion.

6.3 Weight and allowable deviation

6.3.1 H section steel and T section steel shall be delivered according to theoretical weight (theoretical weight is calculated based on the density of

6.3.2 The allowable deviation of the weight of each piece (batch) of H section steel shall not exceed $\pm 4\%$, and the allowable deviation of the weight of each piece (batch) of T section steel shall not exceed $\pm 5\%$.

6.3.3 The allowable deviation Δm of the weight of H section steel and T section steel shall be calculated according to Formula (1).

6.4 Specifications

6.4.1 H section steel. H and the value of height H x the value of width B x the value of web thickness t_1 x the value of flange thickness t_2 . For example. H596x199x10x15. HK steel. HK and the value of height H x the value of width B x the value of web thickness t_1 x the value of flange thickness t_2 . For example. HK1008x310x26x40.

6.4.2 T section steel. T and the value of height h x the value of width B x the value of web thickness t_1 x the value of flange thickness t_2 . For example. T207x405x18x28.