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

JB/T 7025-2004

Replacing JB/T 7025-1993

**Technical requirements for rotor and shaft forgings of steam
turbines below 25 MW**

25MW以下汽轮机转子体和主轴锻件 技术条件

(English Translation)

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1 Scope

This standard specifies the technical requirements, test methods, inspection rules, quality certificate and marking of carbon and low-alloy steel rotor and shaft forgings for steam turbine (25MW or lower).

This standard is applicable to the ordering, manufacturing and acceptance of rotor and shaft forgings for steam turbine (25MW and lower).

2 Normative References

The following normative documents contain provisions which, through reference in this text, constitute provisions of this standard. For dated references, subsequent amendments to (excluding amending errors in the text), or revisions of, any of these publications do not apply. However, all parties coming to an agreement according to this standard are encouraged to study whether the latest edition of the normative document is applicable. For undated references, the latest edition of the normative document applies.

GB/T 222 Method of Sampling Steel for Determination of Chemical Composition and Permissible Variations for Product Analysis

GB/T 223.3~78 Methods for Chemical Analysis of Iron, Steel and Alloy

GB/T 228 Metallic Materials - Tensile Testing at Ambient Temperature (GB/T 228-2002, eqv ISO 6892: 1998(E))

GB/T 229 Metallic Materials - Charpy Notch Impact Test (GB/T 229-1994, eqv ISO 148: 1983)

GB/T 231.1 Metallic Materials - Brinell Hardness Test - Part 1: Test Method (GB/T 231.1-2002, eqv ISO 6506-1: 1999(E))

GB/T 2039 Metallic Materials - Creep and Stress-rupture Test in Tension (GB/T 2039-1997, eqv ISO/DIS 204: 1997)

GB/T 6394 Metal-methods for Estimating the Average Grain Size (GB/T 6394-2002, ASTM E112: 1996, MOD)

GB/T 10561 Steel - Determination of Content of Non-metallic Inclusion - Micrographic Method Using Standard Diagrams (GB/T 10561-1999, eqv ISO 4967: 1979)

JB/T 1581 Ultrasonic Flaw Detection of Rotor and Main Shaft of the Turbine and Turbogenerator

JB/T 8468 Magnetic Particle Examination Method for Steel Forgings

JB/T 8888 Test Method for Measuring Residual Stresses by the Ring-core Method in Rotor Forgings for Turbine and Generator

JB/T 9021 Test Method for Test Stability of Steam Turbine Shafts and Rotor Forgings

3.1

The adopted standard, material designation, strength grade, requirements jointly determined by the purchaser and the supplier in provisions of this standard, technical requirements and inspection items beyond requirements of this standard shall be indicated in the order contract or order agreement by the purchaser.