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

JG/T 321-2011

Replacing JG/T 5028-1993

**Hydraulic jack for prestressing
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is the revision of JG/T 5028-1993 "prestressed hydraulic jack", this standard compared with the JG/T 5028-1993 to technical changes are as follows.

- Modify the scope of the description (see Chapter 1);
- Modify and add normative references (see Chapter 2);
- Added Chapter 3 "Terms and definitions";
- Modify the classification (1993 version 3.1; version 4.1);
- Modify the model preparation method (1993 version 3.2.1; version 4.2);
- Increasing the main parameters of the series of specifications (1993 version 3.3; 4.3 version of this edition);
- Modify the requirements of the working medium (1993 version 4.1; version 5.1);
- Modify the starting pressure requirements (1993 version 4.2.2; version 5.2.2);
- Modify the pressure drop value of the internal leakage requirements (1993 version 4.2.3; version 5.2.3);
- Modify the requirements of the cylinder deformation limit of overload performance (1993 version 4.2.4; version 5.2.4);
- Modify the long-term operational performance test requirements (1993 version 4.2.5; version 5.2.5);
- Modify the requirements of the jack load efficiency and long-term operating performance test before and after the load efficiency range requirements (1993 version 4.2.6; this edition 5.2.6);
- Increased cutting requirements (see 5.4.1);
- Increasing the lifting device requirements (see 5.4.10);

- Modify the requirements of test oil and test equipment (1993 version 5.1; version 6.1);
- Increased long-term performance test laboratory test methods and schematics (see 6.7);
- Increased long-term performance of field test methods (see 6.8);
- Modify the list of test items (1993 version 6.1; this version of 7.3 and 7.6);
- Modify the factory inspection in the repair product inspection requirements (1993 version 6.2.2; version 7.4);
- Modify the type test rework product inspection project requirements (1993 version 6.5; version 7.8);
- Removed Appendix A this standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Standard Technical focal points centralized.

This standard was drafted. China Academy of Building Research, Liuzhou Orvim Machinery Co., Ltd., Beijing Institute of Construction Engineering has Limited liability company, Siping City British force Construction Machinery Co., Ltd., Kaifeng City Tianli Bridge Construction Engineering Co., Ltd., Hangzhou, Zhejiang anchor prestressed limited Company, Beijing Sanqiang Steel Prestressed Equipment Co., Ltd., Beijing Municipal Government II Construction Engineering Co., Ltd.

1 Scope

This standard specifies the prestressed hydraulic jack classification and type, requirements, test methods, inspection rules and signs, packaging and storage.

This standard applies to prestressed hydraulic jack used in the project (hereinafter referred to as jack).

2 Normative references

The following documents for the application of this standard is essential. For dated references, only the dated version applies to this standard quasi. For undated references, the latest edition (including all amendments) applies to this standard.

GB/T 1804 General tolerances Tolerances for linear and angular dimensions without tolerances GB/T 1239.2 Cold rolled cylindrical coil springs - Part 2. Compression springs GB/T 1239.4 hot coil cylindrical helical compression spring technical conditions GB/T 14039 hydraulic transmission fluid solid particles pollution level code GB/T 16924 steel quenching and tempering GB/T 17446 hydraulic transmission systems and components terminology JB/T 5000.3 General technical requirements for heavy machinery - Part 3.

Welded parts JB/T 5000.4 General specifications for heavy machinery - Part 4. Cast iron parts JB/T 5000.5 General specifications for heavy machinery - Part 5. Non - ferrous metal castings JB/T 5000.6 General specifications for heavy machinery - Part 6. Steel castings JB/T 5000.8 General specification for heavy machinery Part 8. Forgings JB/T 5000.9 General specifications for heavy machinery Part 9. Cutting parts JB/T 5000.10 General specifications for heavy machinery - Part 10. Assembly JB/T 5000.12 General specifications for heavy machinery - Part 12. Painting JB/T 5000.13 General specifications for heavy machinery - Part 13. Packaging

3 Terms and definitions

GB/T 17446 defined and the following terms and definitions apply to this document.

Load efficiency Jack the actual output power and the ratio of the theoretical output force.

Theoretical output theory of force Pressure multiplied by the effective piston area and the calculated force.

Internal leakage insideleakage Leakage of components inside the cavity.