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

GB/T 17744-2020

Replacing GB/T 17744-2015

**Petroleum and natural gas industries - Drilling and well
servicing equipment**

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1 Scope

GB/T 17744-2020 is the Chinese national standard on petroleum and natural gas industries - drilling and well servicing equipment, in the field of petroleum and related technologies. 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 14 December 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2021. Classification: ICS 75.180.10, CCS E92. 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 standard specifies the design, manufacturing and quality control requirements of drilling and workover equipment and main load-bearing replacement parts: This standard applies to the following equipment:

- b) Turntable to fill the heart;
- d) Manual and power turntable slips;
- e) Manual and power chuck;
- f) High-pressure drilling fluid and cement hose;

- g) Piston drilling pump parts;
- i) Manual pliers;
- j) Safety slips not used as lifting equipment;
- k) Blowout preventer (BOP) transport system;
- l) Pressure relief device for high pressure drilling fluid circulation system;
- m) The pliers tail rope:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document: GB/T 228:

Appendix A

(Normative appendix) Additional requirements 66

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(Informative appendix) Heat treatment/thermal operation equipment qualification guide 68

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(Informative appendix) Load limit design of manual tongs 70

Appendix D

(Informative appendix) Product order information

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This standard is in accordance with GB/T Drafting of the rules given in 1:1-2009: This standard replaces GB/T 17744-2015 "Petroleum and natural gas industry drilling and workover equipment", with GB/T 17744-2015 phase The main technical changes are as follows:

---In the "scope", 7 types of equipment have been deleted and 3 types of equipment have been added (see Chapter 1, Chapter 1 of the:2015 edition);

---Delete the requirements for power tongs and other equipment in the design, and increase the requirements for turntable slips, slip seats, etc: (see 4:1, 4:4, 4:6,:2015 Version 4:1, 4:4, 4:6);

--- Modify the formula (3) in the design verification load test to Table 3 (see 5:4:3, 5:4:3 of the:2015 edition);

---Added the requirements for non-metallic materials (see 6:4);

---Added the requirements of acceptance criteria for non-metallic parts (see 8:4:7:5);

---The process of requiring confirmation has been added (see 8:9);

---Modified some of the requirements in the heart of the turntable (see 9:3, 9:3 in the:2015 edition);

---Deleted the content of standard turntable slips and non-standard turntable slips (see 9:4 and 9:5 in the:2015 edition);

---The contents of slip holder, turntable slip and chuck are added to the equipment (see 9:4~9:6);

---Working pressure is less than or equal to 51:

7 The test pressure of MPa drilling hose and hose is changed from 2 times to 1.5 times (see Table 10, Table 9 of the:2015 edition);