

ICS 75.180.10
CCS E92



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

GB/T 19190-2025

Replacing GB/T 19190-2013

**Petroleum and natural gas industries - Drilling and production
hoisting equipment**

石油天然气工业 钻井和采油提升设备

Issued on: October 31, 2025

Implemented on: May 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms, Definitions, and Abbreviations	2
3.1 Terms and Definitions	2
3.2 Abbreviations	3
5 Technical Requirements	4
5.1 General Rules	4
5.2 Basic Parameters	5
5.3 Structural Dimensions	5
6 Design	14
6.1 General Rule	14
6.2 Design Conditions	14
6.3 Strength Analysis	15
6.4 Specification Grade	17
6.5 Rated load	17
6.6 Design safety factor	17
6.7 Shear strength	18
6.8 Falling objects	18
6.9 Specific Equipment	18
6.10 Design Changes	20
6.11 Design Documents	20
7 Quality Control	20
7.1 General Rules	20
7.2 Personnel Qualifications	21
7.3 Test Equipment	21
7.4 Traceability	21
7.5 Material	21
7.6 Welding	25
7.7 Visual inspection and NDE	27
7.8 Dimensional Inspection	31
7.9 Required Confirmation Process	31
8.Testing and Inspection	31

8.1 Design and verification experiment	31
8.2 Verification Load Test.....	34
8.3 Hydrostatic pressure test	34
8.4 Functional Test.....	35
8.5 Inspection Rule	35
9.Mark	35
9.1 General Equipment Marking	35
9.2 Specific Equipment Marking	36
9.3 Marking Method	36
9.4 Traceability	36
10 Documents	36
10.1 General Rule	36
10.2 Documents kept by the manufacturer	36
10.3 Random files carried by the device	37
11 Packaging, Transportation and Storage.....	37
11.1 Packaging	37
11.2 Transportation	37
41 References	42

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 19190-2013 "Drilling and Lifting Equipment for the Oil and Gas Industry" and is consistent with GB/T 19190-2013. In comparison, aside from structural adjustments and editorial changes, the main technical changes are as follows:

---The scope of application has been changed (see Chapter 1, Chapter 1 of the.2013 edition);

---The term "bearing rated load" has been changed to "bearing rated dynamic load" (see 3.1,.2013 edition), and "same design" has been removed. Seven terms and definitions, including "principle" (see sections 3.1.7, 3.1.8, and 3.1.16-3.1.20 of the.2013 edition);

---Added classification models and representation methods for lifting equipment (see Chapter 4);

---General rules for improving equipment technical requirements have been added (see 5.1);

---Added basic parameter specifications for lifting equipment (see 5.2);

---Added structural dimensional requirements for connectors (see 5.3.4);

---The thread requirements for gooseneck tube connections have been changed [see 5.3.8.2b,

9.9.4 in the 2013 edition];

---Requirements for rolling bearings, pressure vessels, and pipelines have been removed (see

9.15 of the 2013 edition);

---The requirement to increase the safety factor of pulley design has been added (see 6.9.1);

1 Scope

GB/T 19190-2025 is the Chinese national standard on petroleum and natural gas industries - drilling and production hoisting 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 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 May 2026. 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 document specifies the classification, model designation, technical requirements, design, quality control, and testing and inspection of drilling and oil production lifting equipment. Marking, documentation and packaging, transportation and storage. This document applies to the design, manufacture, testing, and inspection of the following drilling and oil production hoisting equipment (hereinafter referred to as "hoisting equipment").

- a) Lifting pulley;
- b) The traveling trolley and its large hook;
- d) Drilling hook;
- e) Tubing hook and sucker rod hook;
- g) Casing hangers, tubing hangers, drill pipe hangers, and drill collar hangers;

- h) Sucker rod hanger;
- i) Rotary faucet;
- j) Power faucet;
- l) A chuck used as a hanging clamp;
- m) Dead rope fastener;
- n) Drill string motion compensator;
- o) A square drill pipe swivel joint used as a lifting device;
- p) Water inlet tool assembly used for lifting equipment;

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 228.1 Metallic materials - Tensile testing - Part