

ICS 75.180.10

CCS E 92



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

GB/T 30216-2025

Replacing GB/T 30216-2013

Mobile drilling rig

车装钻机

Issued on: October 31, 2025

Implemented on: May 1, 2026

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

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Welded components
- 4 Cast Iron Parts
- 5 Basic Parameters
- 6 Cast Steel Parts
- 8 Forgings
- 9 Machined Parts
- 10 Assembly
- 13 Packaging

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 replaces GB/T 30216-2013 "Vehicle-Mounted Drilling Rigs". Compared with GB/T 30216-2013, the main differences are structural adjustments and editorial changes. Aside from the changes, the main technical changes are as follows:

---Technical descriptions for the four drive types have been removed (see section 4.1 of the 2013 edition);

---Two drive types have been removed, and a second feature for model designation has been added (see 4.2, 2013 version 4.2);

---The ZJ50/3150 truck-mounted drilling rig class has been added, and some parameters and footnotes have been changed (see Table 1, Table 1 in the 2013 version);

---The general requirements for steel welded parts, cast iron parts, carbon steel and low alloy steel castings, forgings, and machined parts have been changed, and the overall requirements have been modified. General requirements for assembly, painting, and packaging (see 6.1.3~6.1.9, 9.2.1, 5.1.3~5.1.7, 5.2.29,

5.2.30 of the 2013 edition). 8.2.1);

---Increased requirements for overall vehicle dimensions and weight; modified overall vehicle and major assemblies, safety devices, components and systems, environmental

protection, etc. The requirements have been revised, changing the basic vehicle requirements (see 6.2,

5.2 in the.2013 version);

---The scope of the main lifting equipment in the mobile system has been changed (see 6.3.1.1,

5.3.1 in the.2013 version);

---Added technical requirements for the top drive unit (see 6.3.1.2);

---The position requirements for the derrick telescopic cylinder centralizer have been changed, the coaxiality error of the telescopic cylinder piston rod center has been removed, and a telescopic type has been added. Requirements for anti-slip device configuration of derricks (see 6.3.2,

1 Scope

GB/T 30216-2025 is the Chinese national standard covering the truck-mounted drilling rig - the mast and its raising, the hoisting and rotary systems, the stability on outriggers, the transport configuration and axle loads, and the safety of a rig that is rigged up and down constantly. Issued on 31 October 2025, it has been in force since 1 May 2026, replacing GB/T 30216-2013.

This document specifies the form, model designation method, basic parameters, technical requirements, inspection rules, and standards for mobile drilling rigs used in the oil and gas industry. The document covers the labeling, packaging, factory documentation, transportation, and storage, and describes the corresponding test methods. This document applies to the design, manufacture, and inspection of truck-mounted drilling rigs in the oil and gas industry. This document does not apply to vehicle-mounted drilling rigs used for seismic geophysical exploration.

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 1589 Limits for the overall dimensions, axle load and mass of automobiles, trailers and automobile combinations

GB/T 3766 General rules and safety requirements for hydraulic transmission systems and their components

GB 3847 Emission Limits and Measurement Methods for Pollutants from Diesel Vehicles (Free Acceleration Method and Loaded Deceleration Method)

GB 7258 Technical Conditions for Safe Operation of Motor Vehicles

GB/T 7932 General rules and safety requirements for pneumatic systems and their components

GB/T 7935 General Technical Requirements for Hydraulic Components

GB/T 8423 (all parts) Terminology for the Oil and Gas Industry GB/T 13306 Nameplates

GB 17691 Emission Limits and Measurement Methods for Pollutants from Heavy-Duty Diesel Vehicles (China VI Stage)

GB/T 19190 Drilling and hoisting equipment for the oil and gas industry

GB/T 23505 Drilling rigs and workover rigs for the oil and gas industry

GB/T 25428 Drilling and workover equipment for the oil and gas industry - Drilling derricks and bases

GB/T 31049 Top Drive Drilling Equipment for Oil and Gas Drilling and Production

GB/T 37400.3 General technical conditions for heavy machinery - Part

3 Welded components

GB/T 37400.4 General Technical Conditions for Heavy Machinery Part

4 Cast Iron Parts

GB/T 37400.6 General Technical Conditions for Heavy Machinery - Part

6 Cast Steel Parts

GB/T 37400.8 General technical conditions for heavy machinery - Part

8 Forgings

GB/T 37400.9 General Technical Conditions for Heavy Machinery - Part

9 Machined Parts

GB/T 37400.10 General Technical Conditions for Heavy Machinery - Part

10 Assembly

GB/T 37400.13 General Technical Conditions for Heavy Machinery - Part

13 Packaging

QC/T 739 General Technical Conditions for Oilfield Special Vehicles SY/T 5027 Pneumatic Components for Oil Drilling and Production Equipment SY/T 5170 Steel Wire Rope for Oil and Gas Industry SY/T 5244 Drilling Fluid Circulation Manifold for Oil and Gas Drilling and Production Equipment SY/T 5532 Winches for oil drilling and workover SY/T 5534 General Technical Specification for Oil and Gas Field Special Vehicles for Oil and Gas Drilling and Production Equipment