

JB

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

JB/T 8550-1997

Crawler surface drill rigs

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1 Scope

This Standard specifies the types and basic parameters, technical requirements, inspection methods, inspection rules, marking, packaging, transportation and storage of open-pit crawler rigs (hereinafter referred to as drilling rig or the product).

This Standard is applicable to the design, manufacture, application and inspection of pneumatic open-pit crawler rigs.

2 Normative References

The clauses in the following documents become clauses of this Standard through reference in this Standard. In terms of references with a specified date, all subsequent amendments (excluding corrigenda) or revisions do not apply to this Standard. However, parties to an agreement based on this Standard are encouraged to explore the possibility of adopting the latest versions of these documents. In terms of references without a specified date, the latest version applies to this Standard.

GB/T 2828.1-2003 Sampling Procedures for Inspection by Attributes - Part 1.Sampling Schemes Indexed by Acceptance Quality Limit (AQL) for Lot-by-lot Inspection (ISO 2859-1:1999, IDT)

GB/T 10913-2005 Earth-moving Machinery - Determination of Ground Speed (ISO 6014:1986, MOD)

GB/T 13384-2008 General Specifications for Packing of Mechanical and Electrical Product

GB 17957-2005 Rock Drilling Machines and Pneumatic Tools - Safety Requirements

JB/T 1590 Type Organization Method for Rock Drilling Machines and Pneumatic Tools

JB/T 3576 General Specification for Rust-preventing of Rock Drilling Machines and Pneumatic

Tools

JB/T 4041 General Testing Method of Products Cleanliness for Rock Drilling Machines and Pneumatic Tools

JB/T 4385.1 Open Die Forgings on Hammer

JB/T 5937 Construction Machinery - General Specification for Gray Cast Iron

JB/T 5938 Construction Machinery - General Specification for Spheroidal Graphite Cast Iron

JB/T 5941 Construction Machinery - General Specification for Casting of Non-ferrous Alloy

JB/T 7161 General Specification of Heat-treatment for Rock Drilling Machines and Pneumatic

Tools

JB/T 7162-2004 General Specifications for Construction Steel Lost Casting Parts of Rock Drilling Machines & Pneumatic Tools

JB/T 7163-2004 General Specifications for Steel Die Forging Parts of Rock Drilling Machines

& Pneumatic Tools

JB/T 7164-2004 General Specifications for Machined Parts of Rock Drilling Machines & Pneumatic Tools

JB/T 7165-2004 General Specifications for Assembly of Rock Drilling Machines & Pneumatic

Tools

JB/T 7167-2004 General Specifications for Welding Parts of Rock Drilling Machines & Pneumatic Tools

JB/T 7302-2006 Rock Drilling Machines and Pneumatic Tools - General Specifications for Packing of Products

JB/T 8718 Drifters

JB/T 9857 General Specifications for Painting of Rock Drilling Machines and Pneumatic Tools

QC/T 518-2007 Tightening Torque for automotive Threaded Fasteners

3.1 Model of Drill Rig

The model of the drilling rig should be formulated in accordance with the stipulations of JB/T 1590.

3.2.1

The drilling rig is used in conjunction with a drifter. The main power is compressed air, which is used to drive the drifter for rock drilling. In accordance with the connection mode of the air compressor, it can be divided into the following two types.

a) Basic open-pit crawler rig, which is also known as independent open-pit crawler rig.

The power source of this type of drilling rigs is an external air compressor. Its traveling mechanism and propulsion mechanism are driven by a pneumatic motor.

The hydraulic cylinder of the amplitude modulation displacement mechanism is driven by a hydraulic pump driven by a pneumatic motor.

inspected by the quality inspection department before they can be assembled.

4.3

The quality of structural steel investment castings shall comply with the stipulations of JB/T 7162.

4.4

The quality of gray iron castings shall comply with the stipulations of JB/T 5937.

4.5

The quality of spheroidal graphite iron castings shall comply with the stipulations of JB/T 5938.

4.6

The quality of non-ferrous alloy castings shall comply with the stipulations of JB/T 5941.

4.7

The quality of steel die forgings shall comply with the stipulations of JB/T 7163.

4.8

The quality of open die forgings shall comply with the stipulations of JB/T 4385.1.

4.9

The quality of machined parts shall comply with the stipulations of JB/T 7164.

4.10

The quality of heat-treatment parts shall comply with the stipulations of JB/T 7161.

4.11

The quality of welding parts shall comply with the stipulations of JB/T 7167.

4.12

The assembly of the drilling rig shall comply with the stipulations of JB/T 7165.

4.13

There shall be operation instruction plates next to all operating handles, and the instruction direction shall be consistent with the corresponding operation direction.