

ICS 73.100.30
CCS D91



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

GB/T 12761-2025

Replacing GB/T 12761-2010

Raise-boring machines

天井钻机

Issued on: May 30, 2025

Implemented on: December 1, 2025

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

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Type and basic parameters	2
4.1 Type	2
4.2 Basic parameters	2
5 Working conditions	3
6 Technical Requirements	3
6.1 Basic Requirements	3
6.2 Performance requirements	4
6.3 Safety requirements	5
6.4 Sealing performance	5
6.5 No-load performance	6
7 Test methods	6
7.1 No-load test	6
7.2 Average track ground contact pressure	6
7.3 Climbing ability	6
7.4 Braking performance test of tire self-propelled drilling machine	6
7.5 Lighting test	7
7.6 Cab (cab) inspection	7
7.7 Sealing test	7
7.8 Diesel engine exhaust emissions	7
7.9 Noise	7
8 Inspection Rules	7
8.1 Inspection categories	7
8.2 Factory Inspection	7
8.3 Type inspection	8
9 Marking, packaging, transportation and storage	8

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for

standardization work Part

1. Structure and drafting rules for standardization documents" Drafting. This document replaces GB/T 12761-2010 "Range boring machine". Compared with GB/T 12761-2010, except for structural adjustments and editorial changes, In addition to the above, the main technical changes are as follows:

- a) The scope of application of the product has been changed (see Chapter 1, Chapter 1 of the.2010 edition);
- b) The type and basic parameters have been changed (see Chapter 4, Chapter 4 of the.2010 edition);
- c) The environmental adaptability requirements have been changed (see Chapter 5, 5.1 of the.2010 edition);
- d) Added technical requirements for remote-controlled drilling rigs (see 6.2.4);
- e) Added technical requirements for crawler drilling rigs (see 6.2.5);
- f) Added technical requirements for tire self-propelled drilling rigs (see 6.2.6);
- g) The noise requirements have been changed (see 6.3.7, 5.3.10 of the.2010 edition);
- h) Added requirements for fire extinguishers, warnings, diesel engine exhaust emissions, etc. (see 6.3.12, 6.3.13, 6.3.17);
- i) The test methods for maximum thrust and maximum pull of drilling rigs have been changed (see 7.1.1, 6.1.3 of the.2010 edition);

1 Scope

GB/T 12761-2025 is the Chinese national standard on raise-boring machines, in the field of mining and minerals. 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 30 May 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 December 2025. Classification: ICS 73.100.30, CCS D91. 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 models and basic parameters, working conditions, technical

requirements, test methods, inspection rules, marking, packaging, Transportation and storage. This document is applicable to the construction of ventilation shafts, filling shafts, material shafts, chute shafts, prospecting shafts, blind shafts, etc. in underground mines and other projects. Raise boring rig (hereinafter referred to as "drilling rig").

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 3836.1 Explosive atmospheres Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 A skylight construction drill rig whose expansion direction is consistent with or opposite to the guide hole direction.

4 Equipment protected by intrinsic safety type "i"

GB/T 4208-2017 Enclosure protection degree (IP code)

GB 4351 Portable fire extinguishers

GB/T 7935 General technical requirements for hydraulic components

GB/T 9065.1 Hydraulic hose connectors Part 1: O-ring face seal hose connectors

GB/T 9065.2 Hydraulic hose connectors Part 2.24° cone seal end hose connectors

GB/T 9065.3 Hydraulic transmission hose connectors Part