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

GB/T 25653-2025

Replacing GB/T 25653-2010

Bucket loader

铲斗装岩机

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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 Technical requirements	5
5.1 Design	5
5.2 Structure	5
5.3 Electrical equipment	5
5.4 Pneumatic equipment	6
5.5 Safety and Noise	6
5.6 Power Source	6
5.7 Appearance	6
5.8 Performance	6
5.9 Completeness	6
6 Test methods	6
7 Inspection Rules	7
7.1 Inspection categories	7
7.2 Factory Inspection	7
7.3 Type inspection	7
8 Marking, packaging, transportation and storage	7

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 25653-2010 "Bucket loaders". Compared with GB/T 25653-2010, except for structural adjustments and editorial changes, In addition to the modifications, the main technical changes are as follows:

a) Added terms and definitions (see Chapter 3);

- b) The model indication method has been changed (see 4.1, 3.2 of the.2010 edition);
- c) The basic parameters have been changed (see 4.2, 3.3 of the.2010 edition);
- d) The provisions on the dimensional accuracy of raw materials, purchased parts and components used have been deleted (see 4.1.3 of the.2010 edition);
- e) Added the requirement that rock loaders can be equipped with remote control devices and rail-wheel rock loaders can be equipped with power rotation devices (see 5.2.2);
- f) Added requirements for pneumatic equipment (see 5.4);
- g) Deleted "Optimal operating conditions for rock loaders" (see 4.5.2 of the.2010 edition);
- h) Deleted "the limit range of rock loading by rock loader" (see

1 Scope

GB/T 25653-2025 is the Chinese national standard on bucket loader, 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 73.100.10, CCS D92. 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 types and basic parameters, technical requirements, test methods, inspection rules, marking, packaging, transportation and Storage. This document is applicable to rail-wheel and crawler bucket rock loaders (hereinafter referred to as "rock loaders").

Note. Rock loaders are mainly used for loading ore and rock during excavation and mining of various underground nearly horizontal tunnels, and are also used for loading materials in open-pit mines.

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 191 Pictorial markings for packaging, storage and transportation

GB/T 3768 Acoustics Sound Pressure Method for Determination of Sound Power Level and Sound Energy Level of Noise Source Using a Simple Measurement of the Envelope Measurement Surface Above the Reflecting Surface Easy Method

GB/T 5226.1 Electrical safety of machinery Electrical equipment of machinery Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Equipment that only completes shoveling and unloading operations of loose materials such as minerals or rocks in mines or engineering projects.

3.2 The bucket is inserted into the pile by the machine's walking power. After being filled with ore and rock, the bucket rolls backwards and unloads the ore and rock to the transport equipment behind the rock loader. Walking rock loader.

3.3 Production capacity production capacity The volume of ore and rock (size not exceeding 300mm) continuously loaded by the rock loader within a certain unit time.