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

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Replacing GB/T 7679.2-2005

Mining machinery terminology - Part 2: Loading equipment

矿山机械术语 第2部分：装载设备

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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 is Part 2 of GB/T 7679 "Mining Machinery Terminology". GB/T 7679 has been published in the following parts.

- Part 1: Mining equipment;
- Part 2: Loading equipment;
- Part 3: Lifting equipment;
- Part 4: Mining transport equipment;
- Part 5: Crushing and grinding equipment;
- Part 6: Mining screening equipment;
- Part 7: Washing equipment;
- Part 8: Roasting equipment.

This document replaces GB/T 7679.2-2005 "Mining Machinery Terminology Part 2: Loading Equipment" and is consistent with GB/T 7679.2-2005.

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) Added underground loaders (see 3.5.1.4), remote-controlled underground loaders (see 3.5.1.5), static tipping loads (see 3.5.1.25), and rated loads.

Fixed load mass (see 3.5.1.26), working device action time (see 3.5.1.27), tire static radius (see 3.5.1.28), operating quality quantity (or operation quality) (see 3.5.1.29), transport status (see 3.5.1.30), braking distance (see 3.5.1.31), average deceleration (see 3.5.1.32), running-in (see 3.5.1.33), brake system pressure (see 3.5.1.34), brake working pressure (see 3.5.1.35), controllable Braking (see 3.5.1.36), Braking Response Time (see 3.5.1.37), Cold Braking (see 3.5.1.38), Maximum Vehicle Speed (see 3.5.1.39), reverse throttling (see 3.5.1.40), safe state (see 3.5.1.41), fully developed deceleration (see 3.5.1.42), peak deceleration (see 3.5.1.43), vehicle control system (see 3.5.1.44), brake efficiency (see 3.5.1.45), brake system (see 3.5.2.10), service brake system (see 3.5.2.11), auxiliary brake system (see 3.5.2.12), parking brake system (see 3.5.2.13), hydrostatic brake system (see

3.5.2.14), brake operating mechanism (see 3.5.2.15), brake transmission (see 3.5.2.16), brakes (see 3.5.2.17), common components (see 3.5.2.18), speed limiters (see 3.5.2.19), hydrostatic transmission systems (see 3.5.2.20) terms and definitions;

b) Added the terms of static state (see 3.7.1.16), work preparation state (see 3.7.1.17), working state (see 3.7.1.18) and definition;

c) Added terms and definitions for fixed grab bucket mine car loaders (see 3.8.1.5) and grab bucket material filling rate (see 3.8.1.16).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the China Machinery Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Mining Machinery (SAC/TC88).

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The previous versions of this document and the documents it replaces are as follows.

- First published as GB/T 7679.2-1987 in 1987 and first revised in 2005;
- This is the second revision.

Introduction

Terminology is a collection of names used to represent concepts in a specific discipline. It is one of the basic elements of standards and is an important part of scientific research, teaching, and technology.

GB/T 7679 "Mining Machinery Terminology" is based on the current situation of China's mining machinery industry.

A complete set of mining machinery industry terminology standards compiled based on international standards and foreign advanced standards.

It is one of the important basic industries that provides equipment for the mining and processing of materials, materials and fuels. It covers a wide range of areas and has a wide range of products.

The varieties are divided into the following parts.

- Part 1: Mining equipment. The purpose is to define the terms and definitions of mining machinery and mining equipment.
- Part 2: Loading equipment. The purpose is to define the terms and definitions of mining machinery loading equipment.
- Part 3: Hoisting equipment. The purpose is to define the terms and definitions of mining machinery and mining hoisting equipment.
- Part 4: Mining transport equipment. The purpose is to define the terms and definitions of mining machinery and mining transport equipment.
- Part 5: Crushing and grinding equipment. The purpose is to define the terms and definitions of mining machinery crushing and grinding equipment.
- Part 6: Mining screening equipment. The purpose is to define the terms and definitions of mining machinery and mining screening equipment.
- Part 7: Washing equipment. The purpose is to define the terms and definitions of mining mechanical washing equipment.
- Part 8: Roasting equipment. The purpose is to define the terms and definitions of mining machinery roasting equipment.

1 Scope

This document defines terms and definitions for mechanical loading equipment in mining.

This document is applicable to the fields of scientific research, design, manufacturing, use, teaching, management and publishing of mining machinery loading equipment.

2 Normative references

This document has no normative references.

3.1.1.1.1 Figure 1

Suitable for open-pit mining operations, the bucket standard capacity is not less than 4m³, driven by an electric motor, through mechanical transmission to make the turntable within 360° The shovel can rotate freely inside the machine, and the shovel working device can realize the periodic operation of excavating, lifting, rotating and unloading the minerals.

A self-propelled machine that does not require the machine body to be moved during the operation cycle and relies on a crawler-type walking mechanism to achieve displacement. Example. See Figure 1. Index number description. 1---Travel mechanism; 2---Driver's cab; 3---Boom; 4---Pushing mechanism; 5---arm; 6---Bucket; 7---Turntable.