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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 7679.6-2025

Replacing GB/T 7679.6-2003

Mining machinery terminology - Part 6: Screening equipment in mine

矿山机械术语 第6部分：矿用筛分设备

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Table of Contents

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 6 of GB/T 7679 "Mining Machinery Terminology". GB/T 7679 has published 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 7679.6-2003 "Mining machinery terminology Part 6: Mining screening equipment" and GB/T 7679.6- Compared with 2003, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) The definitions of "spring life" and "maximum dynamic load" have been changed (see 3.8, 3.11, 2.1.8, 2.1.11 of the 2003 edition);

b) Added dynamic eccentric circular vibrating screen (see 4.1.2.5.1.1), multivariate variable

amplitude circular vibrating screen (see 4.1.2.5.1.2), multivariate high amplitude circular vibrating screen Vibrating screen (see 4.1.2.5.1.3), circular vibrating screen for warm materials (see 4.1.2.5.1.4), forced synchronous circular vibrating screen (see 4.1.2.5.1.5), block eccentric inclined screen (see 4.1.2.5.1.6), shaft eccentric circular vibrating screen (see 4.1.2.5.1.7), YKR type circular Vibrating screen (see 4.1.2.5.1.8), single-axis vibrating screen for mining (see 4.1.2.5.1.9), single-axis vibrating screen for coal (see 4.1.2.5.1.10), Eccentric box-type linear vibrating screen (see 4.1.2.5.2.4), self-synchronous box-type vibrator linear vibrating screen (see 4.1.2.5.2.5), warm Linear vibrating screen for materials (see 4.1.2.5.2.6), pedestal double-axis vibrating screen for coal (see 4.1.2.5.2.7), ZKR linear vibrating screen (see 4.1.2.5.2.8), linear equal thickness screen (see 4.1.2.5.2.9), block eccentric self-synchronous horizontal screen (see 4.1.2.5.2.10), banana Linear vibrating screen (see 4.1.2.5.2.11), high frequency linear vibrating screen (see 4.1.2.5.2.12), wide screen surface forced synchronous linear vibrating Screen (see 4.1.2.5.2.13), multi-channel feeding high-frequency linear vibrating screen (see 4.1.2.5.2.14), multi-element single-beam linear vibrating screen (see 4.1.2.5.2.15), decreasing amplitude elliptical vibrating screen (see 4.1.2.5.4.3), high frequency mesh vibrating screen (see 4.1.2.12.1), hydraulic high frequency vibrating screen Equipment terms, definitions and some equipment examples for moving screens (see 4.1.2.12.2) and cantilever screen vibrating screens (see 4.1.2.12.3);

c) The definition of "woven screen" has been changed (see 5.1.9.2, 2003 edition 2.3.1.9.2);

d) Added the term and definition of "cantilever screen surface" (see 5.1.9.6);

e) Added the term and definition of "disc" for cantilever screen (see 5.14), and added the term and definition of "warp" and "weft" for woven screen.

(see 5.15, 5.16) and the term and definition of screen "opening rate" (see 5.17).

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 in 1987 as GB/T 7679.7-1987 "Mining Machinery Terminology - Coal Preparation Equipment";

- First revised in 2003 as GB/T 7679.6-2003 "Mining Machinery Terminology Part 6: Mining Screening Equipment";

- 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. Mining Machinery Terminology Part 6: Screening equipment for mining

1 Scope

This document defines the terms and definitions for screening equipment used in mining.

This document is applicable to the design, scientific research, manufacturing, use, teaching, management, publishing, standard setting, academic exchanges and international Trade and other fields.

2 Normative references

This document has no normative references.

3.1 Screening equipment screeningequipment

Screening machine Equipment that separates materials into different particle sizes through a screen surface.

3.2 Screening

The process of separating solid materials of different particle sizes into different particle grades through the screen surface.

3.3 Screening efficiency screeningefficiency

An indicator for evaluating the screening and separation effect of materials on a screening machine.

3.4 Size

The size of the material particles.

3.5 Gradesize

A range of certain granularity levels.

3.6 Screening machine life life of screen

The working time from the time the screening machine is put into use to the time when the screen frame is severely damaged and beyond repair value.

3.7 Life of screen frame

Working time when major components such as beams and side panels break.