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

GB/T 7679.5-2025

Replacing GB/T 7679.5-2003

**Mining machinery terminology - Part 5: Crushing and grinding
equipment**

矿山机械术语 第5部分：破碎粉磨设备

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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 5 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 7679.5-2003 "Mining machinery terminology Part 5: Crushing and grinding equipment" and GB/T 7679.5- Compared with 2003, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) The architecture and arrangement level of crushing and grinding equipment have been changed;

- b) The types of crushing methods have been changed (see 3.1.3, 2.1.3 of the 2003 edition);
- c) The terms and definitions of particle size distribution have been changed (see 3.1.7, 2.1.7 of the 2003 edition);
- d) Delete the terms and definitions of the specification (see 2.2.3.1, 2.3.2.3, 2.4.3.3, 2.5.2.1, 2.6.3.1, 2.7.3.1, 2.8.3.1, 2.9.2.1, 2.10.2.1, 2.11.2.1, 2.12.3.1, 2.13.3.1, 2.16.2.1, 2.17.2.1);
- e) Added the terms and definitions of jaw crusher technical parameters and structure (see 3.2.3, 3.2.4);
- f) The terms and definitions of the crossbeam have been changed (see 3.3.3.1, 2.3.3.1 of the 2003 edition);
- g) The terminology of the moving cone has been changed (see 3.3.3.4, 2.3.3.4 of the 2003 edition);
- h) The terminology and structural diagram of cone crusher classification have been changed (see 3.4.2, 2.4.2 of the 2003 edition);
- i) The terminology of the upper frame has been changed (see 3.4.4.8, 2.4.4.8 of the 2003 edition);
- j) The definition of processing capacity has been changed (see 3.5.2.5, 3.12.3.1, 2.5.2.6, 2.12.3.2 of the 2003 edition);
- k) The definition and schematic diagram of double-roll crusher have been changed (see 3.6.2.2, 2003 edition 2.6.2.2);
- l) The English terms for cylinders have been changed (see 3.10.3.4, 3.13.4.1, 3.20.4.1, and 2.10.3.4, 2.13.4.1, 2.20.4.1 of the 2003 edition);
- m) The terminology of high pressure roller grinding mill has been changed (see 3.11.1, 2.11.1 of the 2003 edition);
- n) Added the terms and definitions of semi-autogenous mill (see 3.13.2.6);
- o) The English terminology for end covers has been changed (see 3.13.4.2, 2.13.4.2 of the 2003 edition);
- p) The terminology of vertical roller mill has been changed (see 3.14.1, 2.14.1 of the 2003 edition);
- q) The terminology of dynamic powder classifier has been changed (see 3.14.3.5, 2.14.3.5 of the 2003 edition);
- r) The terms and definitions of bowl mill were changed (see 3.15, 2.15 of the 2003 edition);
- s) The terminology of cement vertical mill has been changed (see 3.17.1, 2.17.1 of the 2003 edition);

t) The terminology of coarse powder separator has been changed (see 3.18.3.4, 2.18.3.4 of the 2003 edition);

u) Some inaccurate or incomplete definitions in the original standard have been revised.

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 the documents replaced by this document are as follows.

- First published as GB/T 7679.5-1987 in 1987 and first revised in 2003;
- 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 5: Crushing and grinding equipment

1 Scope

This document defines the terms and definitions for crushing and grinding equipment.

This document is applicable to the design, scientific research, manufacturing, use, teaching, management, publishing, standard setting, academic exchange and other fields of mining machinery crushing and grinding equipment.

areas such as logistics and international trade.

2 Normative references

This document has no normative references.

3.1.1 crushing

Apply external force (human, mechanical, electrical, chemical, atomic or other methods) to the material to be crushed to overcome the material separation.

The process of splitting a large piece of material into several small pieces by increasing the cohesive force between particles.

3.1.2 Crushing machinerycrushingmachinery

A machine that uses mechanical force to crush solid materials into small pieces of fine material (usually the discharge size is greater than 3mm).