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

GB/T 6826-2025

Replacing GB/T 6826-2005

Mining machinery - Mineral processing equipment - Serial type

矿山机械 洗选设备 系列型谱

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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 replaces GB/T 6826-2005 "Series of Washing Equipment". Compared with GB/T 6826-2005, except for structural adjustment and In addition to editorial changes, the main technical changes are as follows.

- a) The product classification has been changed (see 4.1, 3.1 of the 2005 edition);
- b) The series of spiral classifiers and classifying cyclones have been changed (see Table 1, Table 1 of the 2005 edition);
- c) Added the series of mineral vertical airflow classifiers and mining powder separators (see Table 1);
- d) Changed the permanent magnetic drum, dry permanent magnetic drum magnetic separator, wet permanent magnetic drum magnetic separator, strong magnetic field roller magnetic separator, strong magnetic field Series of disc magnetic separators and high gradient magnetic filters (see Table 2, Table 2 of the 2005 edition);
- e) Deleted the wet electromagnetic drum magnetic separator, dry permanent magnetic tape magnetic separator, medium magnetic field drum magnetic separator, wet electromagnetic ring strong magnetic separator Series of machines, high gradient magnetic separators and

magnetic dewatering tanks (see Table 2 of the 2005 edition);

f) Added medium magnetic field permanent magnetic drum, dry vibrating magnetic separator, dry permanent magnetic drum mineral recovery magnetic separator, coal permanent magnetic drum magnetic separator Machine, wet electromagnetic drum high gradient magnetic separator, permanent magnetic drum roller strong magnetic separator, permanent magnetic vertical disk magnetic separator, wet vertical ring electromagnetic induction Strong magnetic separator, wet vertical ring high gradient magnetic separator, wet strong magnetic plate magnetic separator, wet superconducting magnetic separator, permanent magnetic dehydration tank suspension Series of hanging iron removers, flameproof iron removers and wet dynamic capture high gradient magnetic separators (see Table 2);

g) The series of mechanical agitation flotation machines, flotation columns and adsorption tanks have been changed (see Table 3, Table 3 of the 2005 edition);

h) The series of jet cyclone flotation machines and leaching tanks have been deleted (see Table 3 of the 2005 edition);

i) Added the series of aerated agitation flotation machines (see Table 3);

j) The series of centrifugal concentrators, jigs and heavy medium separators have been changed (see Table 4, Table 4 of the 2005 edition);

k) The series of classification cyclones has been deleted (see Table 4 of the 2005 edition);

l) Added the series spectrum of coal slime interference bed separator (see Table 4);

m) The dehydration equipment series spectrum has been changed (see Table 5, Table 5 of the 2005 edition);

n) The series of spiral sand washing machine, mixing tank and demagnetizer have been changed (see Table 6, Table 6 of the 2005 edition);

o) The series of pre-magnetizers, iron removers, slurry pumps and automatic drainage devices have been deleted (see Table 6 of the 2005 edition);

p) Added sand and gravel washing machine, DC lifting electromagnet, lifting permanent magnet, material sorting metal detector, drum ore washing machine, wheel bucket The series of sand washing machines, X-ray fluorescence separators and double cone bottom mixing tanks are shown in Table 6.

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 6826-1986 in 1986 and first revised in 2005;
- This is the second revision.

Mining Machinery Washing Equipment Series

1 Scope

This document specifies the series of mining machinery classification equipment, magnetic separation equipment, flotation equipment, gravity separation equipment, dewatering equipment and other washing equipment Model spectrum.

This document applies to the design of mining machinery classification equipment, magnetic separation equipment, flotation equipment, gravity separation equipment, dewatering equipment and other washing equipment and selection.

2 Normative references

GB/T 25706-2010

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Series Models

4.1 The classification of products shall comply with the provisions of GB/T 25706-2010.

4.2 The series and model spectrum of grading equipment shall comply with the provisions of Table 1.

Table 1 Classification equipment series spectrum No. Product Name Structure Type Main parameters Name Unit Series Values

1 Spiral Classifier

High weir type Submerged Single helix Double Helix Single helix Double Helix Screw
diameter m 0.50;0.75;1.00;1.20;1.50; 2.00;2.40 1.20;1.50;2.00;2.40;3.00
1.00;1.20;1.50;2.00;2.40 1.20;1.50;2.00;2.40;3.00 2 Mineral vertical airflow classifier
Vertical airflow classifier impeller diameter mm 300; 460; 560; 660; 800; 900; 1250

3 Hydraulic diameter of cyclone (mm)

10;25;50;75;100;125;150;200; 250;350;400;500;610;660;710; 840;900;1000;1250