



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

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**Code for acceptance of mineral processing equipment
installation engineering**

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1.0.1 This standard is formulated to ensure the quality of installation of mining machinery and equipment.

1.0.2 This standard applies to the installation and quality acceptance of mechanical

equipment and mining electrical equipment for new, rebuilt, expanded ferrous mines such as mining, long-distance continuous transport, stacking and reclaiming, crushing and sieving, grinding and classifying, separation, dewatering, etc.

1.0.3 The requirements for installation quality in engineering technical documents, contracts, etc. for the installation of mining machinery and equipment shall not be lower than the requirements of this standard.

1.0.4 In addition to complying with the requirements of this standard, the installation

and quality acceptance of mining machinery and equipment projects shall also comply with the requirements of the relevant national standards in force.

2.0.1 Magnetic separation

A separation method that uses the magnetic difference of mineral materials to achieve separation.

2.0.2 Flotation

A separation method, that uses the buoyancy of bubbles to separate materials from slurry, based on the differences in physical and chemical properties of granular mineral materials.

2.0.3 Gravity separation

A separation method, that uses different densities of granular mineral materials to show different movement speeds and trajectories, under the action of air, water, emulsion and other media and mechanical forces.

2.0.4 Tubular belt conveyor

Also known as tube-type belt conveyor and round tube belt conveyor. The receiving and discharging sections are the same as those of the belt conveyor. The cross section of the transport section is a closed hexagonal roller, which forces the belt to form a nearly circular shape, so that the material can be transported in a closed tubular belt without pollution or leakage. At the same time, horizontal and vertical turns can be realized; the upper and lower belts can transport materials in both directions at the same time.

3.1 Installation

3.1.1 The construction site shall have corresponding construction technical standards, a sound quality management system, quality control and inspection system, as well as technical documents such as construction program, construction plan, operation design approved by the technical person in charge.

3.1.2 Design changes shall be accompanied by a design change notice or technical

verification signature certificate.

3.1.3 Construction quality inspection and acceptance shall use measuring instruments

that have been verified and calibrated.

3.1.4 Special operations personnel must pass the examination and obtain a certificate

of qualification; perform construction work within the scope of the qualified examination items and their approval.

3.1.5 Mining equipment installation projects shall comply with the following requirements.

1 Handover inspection shall be carried out between related disciplines and records shall be formed;

2 After each process is completed, it shall be checked and recorded. The next process shall not be carried out without inspection and approval of the previous process.

3.1.6 The construction organization shall notify the relevant organizations of the

acceptance of the secondary grouting of equipment and other concealed works before concealment; form acceptance documents.

3.2 Quality acceptance

3.2.1 Construction quality acceptance shall be carried out according to sub-projects, division projects, unit projects on the premise that the construction organization has

- 1 The quality of all division projects included in the sub-project has been accepted;
- 2 Quality control records shall be complete;
- 3 The equipment unit has passed the no-load test run.

3.2.4 The acceptance of the quality of the unit project shall meet the following requirements.

- 1 The quality of all division projects included in the unit project has been accepted;
- 2 Quality control records shall be complete;
- 3 The equipment has passed the no-load linkage test run;

4 The visual quality has been accepted.

3.2.5 The visual quality inspection items of unit project shall comply with the following provisions.

- 1 Bolts, nuts, and washers shall be fully configured according to the design. After tightening, the bolts shall be exposed from the nuts or flush with the nuts; the exposed threads shall be free of damage; the bolt insertion direction shall be consistent except for structural reasons;
- 2 The seal shall not leak oil, water or air;
- 3 The pipeline laying layout shall be reasonable, neatly arranged, beautiful;
- 4 The layer thickness of the sound insulation and thermal insulation materials shall be uniform; the binding shall be firm; the surface shall be flat;

5 The paint coating shall be uniform, without holiday, peeling, obvious wrinkles and

bubbles; the color shall be basically consistent;

6 Walkways, ladders, railings shall be firmly fixed without obvious appearance

defects;