Process introduction

The coal mill can be divided into low speed coal mill, medium speed coal mill and high speed coal mill. These three kinds of coal mills have their own good points, customers can choose each one suitable for production according to the actual demands.

The energy saving ball mill is a horizontal cylindrical rotating device, which has two cabins.

Coal mill is energy saving grate ball mill and the outside runs along the gear. The materials enter the first cabin of the mill spirally and evenly through the feeding apparatus and hollow shaft. In the first cabin, there is stepped liner or corrugated liner, and steel balls with different specifications. The centrifugal force generating from the rotation of the cylinder brings steel balls to a certain height, and then the balls fall, thumping and grinding the materials.

After coarse grinding in the first cabin, the materials enter the second cabin by single-wall partition. There is flat liner and steel balls in the second cabin, where the materials are grinded further. Finally, the powder is discharged through discharge grate and the grinding operation is finished.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Output(t/h)</th>
<th>Grinding Media Load(t)</th>
<th>Effective Volume(m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>φ2.4*13</td>
<td>21-23</td>
<td>65</td>
<td>51.7</td>
</tr>
<tr>
<td>φ2.6*13</td>
<td>28-32</td>
<td>75</td>
<td>60</td>
</tr>
<tr>
<td>φ3.0*13</td>
<td>33-37</td>
<td>108</td>
<td>80.9</td>
</tr>
<tr>
<td>φ3.2*13</td>
<td>45-50</td>
<td>128</td>
<td>92.4</td>
</tr>
</tbody>
</table>
### Characteristics

1. **High grinding efficiency**

   The grinding lining plate for the coal mill adopts combination design. Aiming at the different stages inside the coal mill, use different lining structure, which improves grinding efficiency greatly.

2. **Custom on demand, flexible configuration**

   According to the different models, the coal mill can use edge transmission or central transmission, flexibly on configuration.

3. **Output is 12~38t/h, finished fineness is up to 80μmR 3%**

   The output of the CHAENG coal mill is 12~38t/h, and the fineness of the finished product is up to 80 mR 3%. It achieves the goal of high yield and high fineness, and provides an efficient and energy-saving grinding equipment for the production of high quality pulverized coal.

### Customer stories

1. Lafarge Group purchased from CHAENG coal mill used in 1000t/d cement production line. The coal mill works very well.
2. Pakistan 1000t/d cement plant purchased coal mill from CHAENG.

3. Φ3.2×13m three-bin high fine ball mill and coal mill are used in 1200t/d cement clinker production line in Xinjiang, China, and play extremely good production performance.

About CHAENG

Founded in 1958 and located in Xinxiang, Henan province, CHAENG with 60-year experience in equipment manufacturing covers an area of 330,000 m2 and its annual production value is 1 billion yuan. The company specializes in manufacturing tube mills, rotary kilns, vertical mills and large steel casting and can undertake the EPC projects of cement production lines, active lime production lines, blast furnace slag/ steel slag/ nickel slag grinding plants, and its products are sold to more than 50 countries and regions in
Southeast Asia, Central Asia, South Asia, North America, South America and Europe.

Our long-term strategic partners: FLSmidth, Arcelor Mittal, Tata Group, Pohang Iron and Steel Company, Germany CCE, Japan Chiba, Shanghai Baosteel, Voestalpine and ASGT.