

anti clogging wet coal crusher with sweeping device

Anti clogging wet coal crusher is mainly used for crushing small size samples in coal mine, coal power, mining and metallurgy industries, which is suitable for wet coal, sticky materials and other difficult samples.

Anti Clogging Wet Coal Crusher

The Anti Clogging Wet Coal Crusher keeps the screen holes from clogging through an automatic cleaning mechanism, ensuring that the particle size of sample making is uniform and meets the standard requirements, thus improving the precision and efficiency of the sample making process.

Main Features

1. Open design, intelligent operation: the equipment adopts open structure, the operation interface is simple and intuitive, realizing intelligent control system, convenient operation and easy maintenance, reducing the complexity of manual operation.
2. Full cross-section crushing chamber design: the crushing chamber wall is smooth and without dead angle, which ensures that the material can be evenly crushed in the circumferential direction, prevents the accumulation of residual material and adhesion, and improves the production efficiency.



3. Automatic cleaning inlet: The inlet is equipped with an automatic cleaning device, which can effectively prevent the accumulation of materials at the inlet, thus avoiding the problem of clogging and ensuring that the materials enter the crushing chamber smoothly.
4. Roller screen design: the equipment uses a roller screen structure with round slots, no dead space between the rollers, to ensure that there is no material residue. The round groove design effectively reduces the possibility of clogging and improves the stability of the equipment.
5. Uniform and reliable discharge size: after crushing, the size of the material is uniform, with a high screening rate, ensuring the consistency of the production process and the representativeness of the samples.
6. Automatic sweeping system: the sweeper installed under the roller shaft automatically sweeps once every turn to ensure that the screen is not clogged, which effectively improves the working efficiency and continuous production capacity of the equipment.
7. Reasonable structural design: The structure of the equipment is compact and reasonable, and the manufacturing is fine, which is convenient for daily maintenance and repair. The overall design takes into account the convenience and high efficiency, suitable for long-term stable operation.

Working Principle

Based on the fact that the material enters the crushing chamber, it is crushed and screened by the joint action of rollers and sweeping device. First of all, the material enters the crushing chamber through the inlet, and after the impact, compression and shear effect of the rollers and hammer head, the material is effectively crushed. In the process of crushing, the circular groove structure of the roller screen helps the material to pass through smoothly, avoiding the phenomenon of clogging. The sweeping device under the rollers automatically sweeps the screen mesh regularly to ensure that the screen holes are smooth and will not be blocked due to the accumulation of materials. The crushed material is screened through the screen mesh, the particle size meets the requirements, and the screening rate is kept at a high level.

Advantages

1. High-efficiency crushing: The crusher has stronger crushing force and higher efficiency, suitable for dealing with wet coal and other high water content materials, ensuring rapid and efficient completion of crushing tasks.
2. Automatic cleaning: The built-in automatic cleaning device ensures that the screen mesh and feed inlet are free from obstruction, reducing downtime and improving production efficiency.
3. No residual material: The inner wall of the crushing chamber is smooth and has no dead angle, all materials can be thoroughly crushed without residual material accumulation, ensuring the accuracy and consistency of the samples.

4. Intelligent operation: The intelligent operation system simplifies the operation process, reduces labor, and improves safety and convenience.
5. Environmentally friendly design: Reasonable design avoids secondary pollution during wet coal crushing and helps keep the working environment clean.
6. Easy maintenance: Compact, reasonable design, simple maintenance, reduced downtime and lower maintenance costs.

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| Model | FD250 | FD300 | FD350 |
|---------------------------|------------------------|----------------------|--------------------|
| Crushing chamber diameter | 250mm | 300mm | 300mm |
| Feed size | less than 50mm | less than 100mm | less than 100mm |
| Output size | less than 3mm | less than 6mm | less than 13mm |
| Production rate | 0.2 to 0.5ton per hour | 1 to 1.8ton per hour | 2 to 3ton per hour |
| Adaptation to moisture | ≤ 30% | ≤ 30% | ≤ 30% |
| Sieve ratio | ≥ 99.5% | ≥ 95% | ≥ 95% |

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| Model | FD250 | FD300 | FD350 |
|--------------------------|--------------------|-----------------|-----------------|
| Main motor power | 4kw | 5.5kw | 5.5kw |
| Sieve roller drive motor | 2x0.75kw | 2x0.75kw | 2x0.75kw |
| Power supply voltage | three phase 380Vac | | |
| Weight | 480kg | 550kg | 550kg |
| Dimensions | 1150x700x1250mm | 1200x750x1300mm | 1200x750x1300mm |