

Operation Instruction

Calibrate the equipment with HGI reference coal sample every year or before initial use.

Before operation

1. Check if the equipment is placed steadily. Adjust the two feet on the lower front if it's not steady.
2. Check if sieving ratio for each standard sieve meets the requirements.
3. Clean each component (steel bar, grinding bowl, cover, coal sample cup) in pulverizing device with brush.

After all preparation work, switch on the equipment and get ready for sample preparation.

Operation

1. Place eight steel balls in grinding bowl and fix them with retaining holder.
2. Weigh 50g of HGI coal sample and load in grinding bowl. Take out retaining support for steel ball.
3. Load cover for grinding bowl and put it into determinator. Switch on the equipment.
4. Stop the equipment when it runs 60 circles. After it comes to a full stop, take out pulverizing device. Clean the samples inside and put them into 0.071 mm standard sieve that is sieved by sieve shaker.
5. Repeating the above operation to check samples. After sieve shaking, enter the current sample mass on

equipment. The HGI (Hardgrove Grindability Indices) will be calculated and printed automatically.

6. Finally, clean grinding bowl, its lid, steel ball and standard sieves. Load them into equipment for next use.

Hazards

1. Do power off the equipment when it's maintained.
2. Do make sure the steel bar holder is removed before loading grinding bowl.
3. Do make sure the grinding cover is connected before power-on.
4. Do not open top lid or put hands into equipment when it's running.

Daily Maintenance

1. Clean remaining residue on the surface or inside of equipment and running circles after each operation.
2. Check the sieve ratio of standard sieve and condition of steel ball regularly. Replace it if wearing is visible.
3. Check if grinding bowl and its lid are wearing. If yes, replace them.
4. Check the strength of vibration spring on pulverizer. There should be no popping, shift or cracks.
5. The pulverizing device should be replaced immediately when it's seriously wearing.
6. Stop the equipment and diagnose the error when abnormal sound is heard.
7. Keep the equipment dry and clean. Switch it off if not used for a long time.