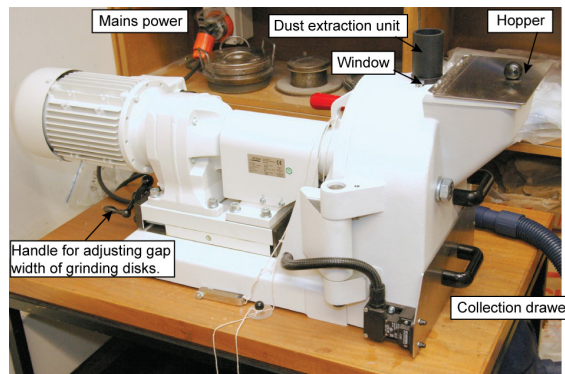


Pulverisette 13 operating instructions



Only material less than hardness 8 on Moh's scale may be crushed.

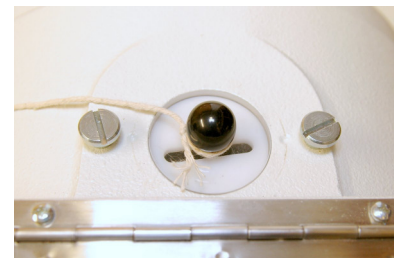
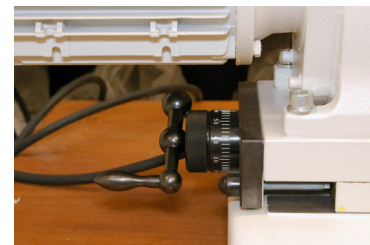
Samples must be dry prior to crushing.

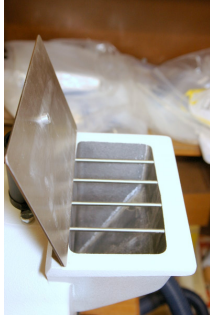
Maximum feed size of rock chucks is 20 mm length (e.g. with a hammer or cut into cubes with the rock saw)

Rocks can be ground to between 5 mm – 0.1 mm size.

Instructions for use

1. Make sure the grinding chamber and sample container are clean prior to use (see cleaning below).
2. Line sample container with paper.
3. Set the gap width between the two grinding disks using handle at back of machine as shown (note - large samples should be crushed twice, first at a coarse setting and subsequently at a finer setting). The grinding wheels **must not** touch each other.
4. The gap between the two grinding plates can be seen through the window at the top of the machine. Gradation marks are at 0.02 mm spacing or there is a feeler gauge tied to the side. Always go from a larger to smaller distance between grinding disks. Place the clear plastic lid over the window to prevent dust from escaping during crushing.
5. Turn power on at the wall and turn on machine. The mill must be on before pouring material into the hopper.





6. Feed rocks in the hopper and close cover immediately. Do not add more rocks than can be accommodated in the hopper with the lid shut.
7. Wait until the grinding noise has decreased considerably or stopped before adding further sample.
8. Turn off the machine.
9. To extract dust generated during the grinding process place vacuum nozzle on the dust extraction unit over the window used to check the gap setting.
10. Empty sample container and repeat steps 3-10 as necessary at finer gap widths.
11. Turn off machine at wall and clean thoroughly between samples. (Yes this may take much longer than the crushing of the sample, but is the most important step to prevent contamination between samples).



Cleaning of machine

1. Open up the grinding chamber using the red lever handle.
2. Using brush and vacuum, clean the grinding wheels and all exposable areas, including the collection draw.



3. Wipe over all areas with acetone to remove fine dust and make sure it is dry before closing grinding chamber.
4. NO NOT USE WATER AT ANY STAGE.