

Disc Grinder Manual

Zero Check

1. Place a specimen mount without specimen into the grinder.
2. Turn the control knob counterclockwise while applying slight pressure on the mount until the mount is felt to be slightly recessed into the grinder base.
3. Place a few droplets of water on the grinder base around the specimen mount and cover with glass slide.
4. Slowly turn the control knob clockwise until mount just strikes glass, causing water meniscus to move under the glass.
5. Rotate the black plastic calibration ring until the zero mark is directly under the pointer on the clear plastic scale attached to the control knob.
6. Remove the glass, dry and clean the base and specimen mount.
7. Mount clean specimen onto a clean specimen mount using mounting wax. Press specimen gently into wax to make interface as thin as possible after removing the mount + specimen from the heater. Allow to cool.

Specimen Grinding

1. Load zeroed specimen mount into base and turn control knob until specimen just protrudes above the grinder base.
2. Polish specimen on moistened lapping films.
3. Remove specimen mount, grind down specimen over and once again press it in good contact with specimen mount.
4. Reload specimen mount, grid down specimen in small increments (i.e. 50 μm Or .002") and polish when desired thickness is reached.
5. Use ejector to remove specimen mount.
6. Clean wax off specimen in a Petri dish of chloroform or acetone.