



Model 160 Specimen Grinder

1. With empty platen in the Model 160, turn black knob counter clockwise to retract the platen into the grinder.
2. Place Model 160 on hard, flat surface such as a glass plate.
3. While applying downward pressure on the Model 160, turn the black knob clockwise to advance the platen.
4. When the knob will no longer turn, or becomes very difficult to turn, the platen surface is flush with the bottom surface of the Model 160.
5. To set this position as zero, rotate the flat plate containing the numbers until the 0 reading on the plate aligns with the marked line on the black knob. Do not turn the black knob at this time, only the numbered plate beneath it.
6. Remove platen from Model 160 and place on hot plate.
7. Using a low melting point wax (such as CrystalBond Type 509 with $T \sim 150$ degrees C), mount your specimen to the platen, pressing down on the specimen to minimize the thickness of the wax layer beneath the sample.
8. Replace the platen with specimen into the Model 160, aligning the notch cut in the platen with the ball joint inside the Model 160. This ensures the platen slides all the way inside the grinder.
9. Rotate the black knob counter clockwise to retract the platen with specimen into the Model 160.
10. Place Model 160 on hard, flat surface such as a glass plate.
11. While applying downward pressure on the Model 160, turn the black knob clockwise to advance the platen.
12. When the knob will no longer turn, or becomes very difficult to turn, the specimen surface is flush with the bottom surface of the Model 160 and the approximate specimen thickness can be measured by the graduated plate beneath the black knob.
13. Turn the black knob clockwise to advance the specimen until the desired amount of material is removed.
14. Place Model 160 on standard grinding wheel to remove material with selected abrasive. No downward force is needed due to the sufficient weight of the Grinder.
15. When desired material is removed with the grinding wheel, remove platen from Model 160 and place on hot plate to remove specimen.