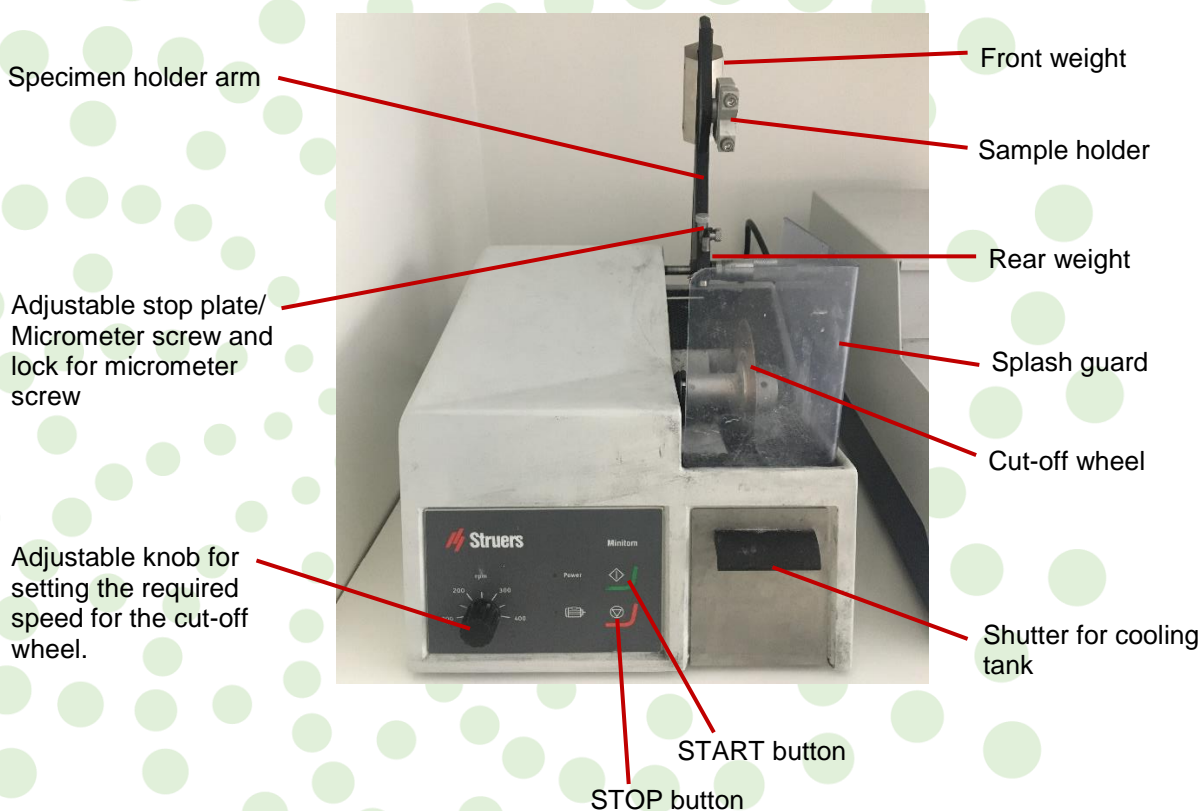


Precision cut-off machine – Struers Minitom

User instructions

Operation of this equipment is restricted to trained personnel familiar with the user instructions, general safety precautions, and laboratory rules. Contact the laboratory manager or your supervisor/group leader to get permission to use this equipment.



Always Use Personal Protective Equipment



Safety glasses must be worn.



Working gloves must be worn.



Rings and jewelry must not be worn.



Before starting, verify that the cut-off wheel is in good condition. If it is indented or shows signs of corrosion DOT NOT use the equipment. Contact the lab manager or deputy to replace it.

Routine for sample cutting

1. Fasten the specimen in the specimen holder by means of the 4 mm Alley key. It must be fastened tightly to avoid vibrations during cutting.
IMPORTANT: Check that the cut-off wheel is able to cut through the specimen without the flanges coming into contact with the specimen holder. The specimen must protrude at least 6 mm from the specimen holder.
2. Adjust the stop plate up or down so that Minitom stops when the specimen has been cut through:
 - a) Turn the lock on the micrometer screw counter clockwise.
 - b) Adjust the position of the cut by turning the micrometer screw.
 - c) Lock the screw by turning the lock clockwise.
3. Adjust the cutting pressure:
 - a) Push the weights of the specimen holder back.
 - b) Adjust the rear weight so that the arm with specimen holder and specimen are in balance.
 - c) Adjust the cutting pressure with the front weight.
 - d) Tilt the arm carefully back to a vertical position.
4. Fill the cooling tank with 250 ml of water.
5. Mount the splash guard.
6. Set the adjustable knob Cutting Speed to the lowest speed.
7. Connect the power cord to the electricity plug and turn on the equipment. (The main switch is located on the back of the machine).
8. Press the button START.
9. Move the specimen holder arm slowly down towards the cut-off wheel.
10. Adjust the speed of the cut-off wheel on the adjustable knob Cutting Speed (do not exceed the 300 rpm).
IMPORTANT: Reduce the wheel speed if the workpiece moves up and down or the cut-off wheel vibrates when cutting.
11. When the specimen is cut, stop the machine by pressing the STOP button.
12. Turn off the equipment (main switch in the back) and disconnect the power cord from the electricity.
13. Remove your specimen from the specimen holder by means of the 4 mm Alley key.
14. Empty the cooling tank.
15. Clean the equipment and bench.