

Metallography Polishing Machine (Variable Speed – Double Disc)

This machine is used in metallurgical lab for the purpose of the polishing to get mirror finished surface. This process helps to get the clear view of the specimen micro structure.



Components

1. Coolant Jet
2. Control Valve
3. Feather Touch Control Panel
4. FRP Cover
5. Polishing Disc
6. Water Splash Guard

Operations

1. Switch the On/Off Switch at the back side of the machine.
2. Press the power On/Off button of FTB.
3. Make the increment/decrement adjustment to control the RPM of the disc.
4. Disc will be rotating in anti-clockwise and clockwise direction also.
5. Press stop button to end the process.

Grinding

1. Grinding should be done using different Grit emery papers in order. (Grit Size: 220, 320, 400, 600, 800, 1000, 1200...1/0, 2/0, etc.)
2. First fix the 220-grit grinding emery paper on the left side Aluminum disc and grind.
3. Then remove the 220-grit and fix the next size emery sheet and grind in order.
4. While grinding the other disc, grinding machine should be closed using its lid.

Polishing

1. Before polishing, clean the specimen with water.
2. Fix the polishing cloth using holding spring on the right side disc. Fix Spring on the groove in the circumference of the disc after covering the disc with polishing cloth.
3. Polishing can be done using the sylvette cloth or billiards cloth, and diamond paste, alumina suspension etc
4. The speed of the cloth polishing should be below 600 rpm.