

Project Name – “Bore”- A mini drill press used in PCB fabrication.

Problem Statement- To make a drill press capable of drilling small holes in PCBs.

Project Budget- INR 1000

Description-

Recently getting into fabricating custom PCBs and etching using ferric chloride I needed a device which could drill holes into the PCB after etching. For this I tried to use a Dremel, but the bits were too small.

So, I mounted a high torque 60 rpm motor connected to a potentiometer for speed adjustment and made a complete frame out of plywood and drawer channels for sliding.

Materials Consumed-

1. Plywood
2. Nails
3. Rubber bands
4. Motors
5. Potentiometer
6. Wires
7. Custom chuck for bits
8. Micro drill bits
9. 10Amps 12 V SMPS