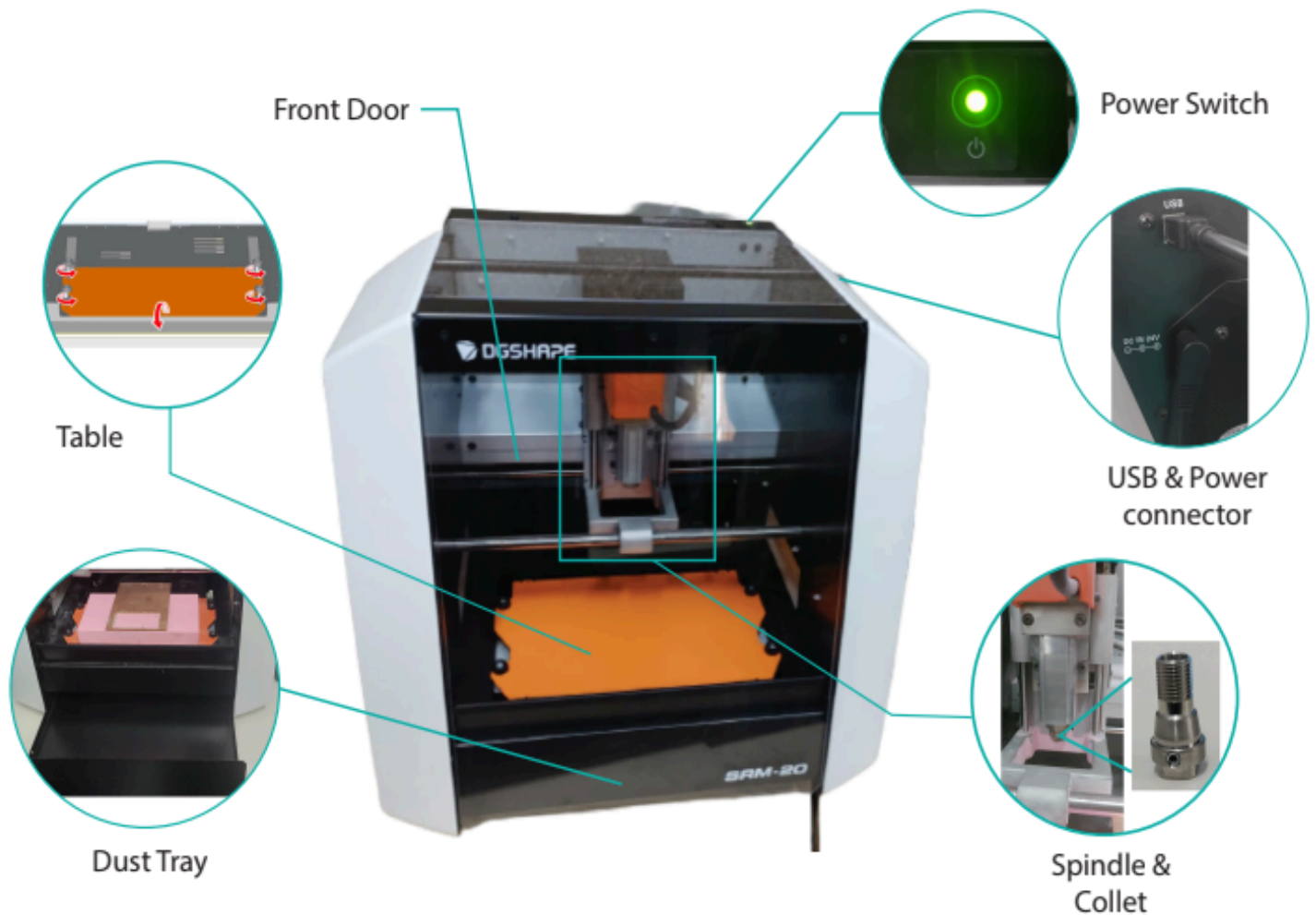


## Pcb Milling Machine - Srm-20

**Step 1:** Book the Srm-20 through the RIIDL Fab Lab machine booking portal at [https://riidl.org/fablab/machine\\_book](https://riidl.org/fablab/machine_book).



For any queries contact:

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+91 7718961063 | [pranav.rg@somaiya.edu](mailto:pranav.rg@somaiya.edu)

## Pcb Milling Machine - Srm-20

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**Step 2:** If you are an expert user, ensure your Gerber file is ready.

**Step 3:** If you are not proficient in creating Gerber files, create your PCB design in EasyEDA or Autodesk Eagle, and contact Akhilesh Zambre at +91 8484015851 or Pranav Gawde at +91 7718961063 for assistance.

**Step 4:** Bring your file either on your own laptop equipped with a USB port to connect to the Pcb milling Machine.

**Step 5:** Bring your own Copper clad for the milling process.

**Step 6:** operations while using Srm-20

- **Step 6a:** Switch on the machine.
- **Step 6b:** Open V panel for SRM-20 for User Coordinate System for bit's positioning.
- **Step 6c:** Insert a cutting tool in a collet Tighten the set screw with hexagonal wrench.
- **Step 6d:** Mark the location and stick double sided tape.
- **Step 6e:** Click the [X/Yarrows] to set the origin of the bit. Carefully click the [Z arrow] and lower the bit until it is slightly touching to the surface of a board.
- **Step 6f:** Import your file to SRM-20 by clicking the [Cut] button.
- **Step 6g:** Click [Add] and select the [.rml] for the circuit's traces. When the [Output] button is pressed, the machine will begin to mill.
- **Step 6h:** When the milling is done, open the front door and remove the workpiece using spatula.
- **Step 6i:** Switch off the machine after the cutting operation and perform the cleaning of the machine.

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## **Pcb Milling Machine - Srm-20**

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**Step 7:** Milling will commence once the file is successfully loaded. Monitor the Milling process until completion.

**Note:**

- **Follow all safety protocols and guidelines provided by RIIDL Fab Lab staff.**
- **Ensure the 3D printer is operated in accordance with manufacturer instructions.**
- **Clean up your workspace after use and adhere to any additional guidelines provided by RIIDL Fab Lab staff.**

**Additional Notes:**

1. If any file exceeds 8 hours of Milling time, it must be discussed with Pranav Gawde or Sachin Khot beforehand.
2. Ensure that all three axes (X, Y, and Z) are homed properly before initiating the print job.

These additional notes are crucial for maintaining Milling quality, safety, and efficient usage of the Srm-20 at RIIDL.

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