

## **Vinyl Cutter - GRAPHTEC Cutting Plotter CE7000**

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**Step 1:** Book the 3D printer through the RIIDL Fab Lab machine booking portal at [https://riidl.org/fablab/machine\\_book](https://riidl.org/fablab/machine_book).



### **Step 2: File format**

- Step 2a: If you are experienced, prepare your file in .dxf/.svg format and save it to a pendrive or your laptop.
- Step 2b: Access the ThinkPad provided by Sachin for interfacing with the machine. Open your file using Graphtec Pro Studio software.
- Step 2c: If you encounter issues with .dxf files or need assistance, provide a 3D CAD or 2D vector file format and contact Pranav Gawde for help.

### **Step 3: Graphtec Pro Studio Software**

- Step 3a: Connect the laptop to the vinyl cutter using the USB port. Utilize the Graphtec Pro Studio software to send files to the vinyl cutter.
- Step 3b: Install the Graphtec Pro Studio software from <https://www.graphteccorp.com/cutting/g2/>.
- Step 3c: Refer to the instructions provided at the same URL for guidance on using the software.



### **Step 4: Import the File:**

- Navigate to File > Open > Select File.
- Verify dimensions and make adjustments if necessary. Add text or simple drawings directly in the software if required.

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### **Step 5: Cut/Plot Dialog Box:**

- Click on the Cut/Plot option.
- Set and verify basic specifications such as material input (roll), end-to-end dimensions, position, and number of copies needed.
- Preview the design in the right-side window for estimation.

### **Step 6: Set the Knife:**

- Properly set the knife of the vinyl cutter to ensure a clean cut through the top layer of the vinyl material.
- Adjust the knife tool screw as needed for proper setting.

### **Step 7: Bring Your Own Material:**

- Contact Sachin for assistance with selecting appropriate materials.
- Manually insert the vinyl sheet into the machine.

### **Step 8: Align the Stoppers:**

Flatten the material and align the stoppers with the blue part above.

### **Step 9: Lock the Handle:**

Ensure the handle is locked after aligning the material to prevent movement during cutting.

### **Step 12: Start Cutting:**

Initiate the cutting process. Initially, the paper roll will pass through without cutting to estimate the total size. Then, it will pull back and commence actual cutting.

### **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.**