

Carvey CNC Router Equipment Use Policy

About the Carvey

The Carvey CNC Router is a desktop 3D carving machine that features a fully-enclosed work area, capable of working with a wide variety of materials from wood to soft metals and molding wax, to create projects using the free online Easel design software.

There are few libraries in the United States that offer free access to the Carvey CNC Router--your library is one! We need your help to keep this machine accessible to everyone in the community. The Carvey CNC Router retails for \$2,500. Repairs are costly, and we cannot replace this machine if it is permanently damaged.

We require patrons who improperly use the machine, fail to follow policies and procedures, or make mistakes that cause unnecessary wear and damage to the machine to re-certify. If issues persist after re-certification, we may ban patrons from use of the machine.

Age Restrictions

- Age 18+

Consumables needed (and restrictions)

You must supply your own consumables for the Carvey CNC Router, and STEAM Central staff will need to inspect your material to ensure it can be cut safely in the machine.

Certification Requirements

- The Bernina requires a certification class and appointment before use.
- Carvey CNC Router Certification Class is required for usage of the machine
 - Pre-requisite: Niche Academy on-line certification
 - Hands-on, in-person certification
- Class participants are required to complete the Niche Academy tutorials before the hands-on certification appointment.
- If more than 6 months have passed since a patron's last use of this machine, they will be required to re-certify to refresh their skills and knowledge.

Allowable Materials

Cutting

Materials officially approved for use in Carvey should not exceed dimensions of:

Width (X-axis): 12 inches (30cm)

Depth (Y-axis): 8 inches (20cm)

Height (Z-axis): 2.75 inches (7cm)

- ABS
- Acrylic
- HDPE

- Hard and soft woods of any natural wood species
- Expanded PVC
- Machinable foam
- Machinable wax
- Aluminum
- Corian
- FR1 machinable circuit board blanks
- Delrin

Before Use

- A certification class is required to use this machine before an appointment may be made.
- Schedule an appointment with STEAM Central Staff.
- Show STEAM Central Staff the material you intend to cut. (If a material cannot be correctly identified you will not be able to use material in Carvey.)
- Make sure a STEAM Central laptop is plugged into the Carvey via USB cable (required to run the machine).
- Inspect power cord and machine before use. Do not use if cord is damaged or the machine is not working properly, and notify STEAM Central Staff of any issues immediately.

During Use

- You must always watch your work, no matter how long the carving job takes. If you must leave, pause job and notify staff member.
- Notify a staff if material is not cutting properly or you see that the bit has broken.

After Use

- Remove material from Carvey.
- Power off the machine, and disconnect the USB cable from the laptop.
- Remove all saw dust left in the machine by your carving job.
- Clean the Carvey and the work area around it with the shop vacuum.

Resources

