


# ShopBot Desktop CNC Router

ShopBot Router

<b>Tool Type:</b> CNC
<b>Location:</b> Innovation Workshop
<b>Description:</b> Benchtop CNC router
<b>Manufacturer:</b> ShopBot

---

## About

The ShopBot Desktop CNC Router is a small computer controlled vertically mounted router that is set up similar to a CNC milling machine. Sized between the Carbide 3D and the Haas CNC mill located in the microfluidics lab, the shop bot lacks the rigidity of its bigger brother but is still well suited for cutting wood, plastic, and even softer metals with a shallow depth of cut and conservative feed rates.

---

## Safety Concerns

- Safety Glasses must be worn when machine is running
- The acrylic enclosure doors must be closed before starting a job or homing/touching off the machine
- The spindle must be completely stopped before adjusting or removing work piece or changing the tool
- After milling is completed, the work piece will have developed sharp burrs which must be removed with a hand file or sandpaper

---

## Training Documentation

[Shopbot Desktop Training SOP](#)

## Detailed Specifications

Bed size: 36 x 24 inches

X, Y, Z movement: 25.2 x 20 x 5.5 inch

Spindle speed: 6,000 - 18000 rpm

Tool holder type: ER20

X, Y, Z accuracy: +- .005 inch

Max cutting speed: 4 ips

---

## Reference Documentation

[shop\\_bot\\_command\\_reference.pdf](#)

[shop\\_bot\\_quickstartguide.pdf](#)

[shopbot\\_user\\_guide.pdf](#)

[ShopBot training videos](#)

---

From:

<https://microfluidics.cnsi.ucsb.edu/wiki/> - **Innovation Workshop Wiki**

Permanent link:

[https://microfluidics.cnsi.ucsb.edu/wiki/doku.php?id=shopbot\\_desktop&rev=1689179756](https://microfluidics.cnsi.ucsb.edu/wiki/doku.php?id=shopbot_desktop&rev=1689179756)

Last update: **2023/07/12 16:35**

