

# ShopBot Desktop CNC Router



ShopBot Desktop CNC Router	
Tool Type: "CNC Router"	
Location: "Innovations Workshop"	
Supervisor	Tool Lead
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Description: "Benchtop CNC Router"	
Manufacturer: "Shop Bot Tools"	

## 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 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.

## 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

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## 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
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## Reference Documentation

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

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

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

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