

The ShopBot Desktop

Built to perform like a big tool, built to be flexible, and built to last.

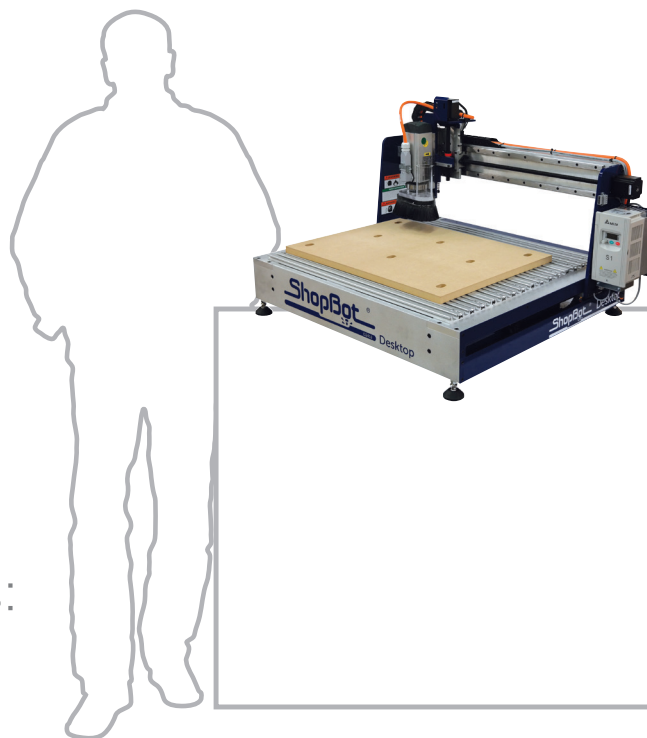
Our affordable, smaller-sized ShopBot Desktop is a digital fabrication powerhouse. In addition to impressive woodworking capabilities, the Desktop delivers engraving level precision, and the power and rigidity to machine parts from wood, plastic, aluminum, and other materials. The Desktop can perform a wide range of workbench, prototyping and production projects. And it is a flexible platform to support your growing digital fabrication interests and needs.

SPECIFICATIONS

Choose from two base platforms:

Desktop Package with Router [Porter Cable 2 1/4hp Router] or the **Desktop Package with Industrial Spindle** [HSD 1hp spindle]

- XYZ Movement: 25.2" x 20" x 5.5" (640mm x 508mm x 139.7mm)
- Cutting Volume: 24" x 18" x 3.5" (609.6mm x 457.2mm x 88.9mm) [e.g. with 2" long cutter]
- Footprint with Router: 36" x 32" x 30"(h)
- Footprint with Spindle: 39" x 32" x 30"(h) [Spindle VFD fits to right side of gantry]
- Weights:
 - 103 lbs [no deck, no cutter]
 - 140 lbs [total weight with aluminum deck and router]
 - 148 lbs [total weight with aluminum deck and spindle]
- Crate dimensions: 44.5" x 37.6875" x 37.6875", weight: 178 lbs, loading dock, forklift or lift gate service is recommended
- Frame: Machined aluminum members that are bolted together
- Deck: Aluminum "T" slot extrusion, with MDF spoil board [optional, removable]
- Linear Bearings: Fully supported precision linear guides and blocks on each axis [THK]
- Drive System: 4 Motors with integral, teflon-coated precision lead screw with anti-backlash technology on each axis (1X, 2Y, 1Z)
- Integral guard and dust skirt
- Cut Speed: 4 inches per second (100mm/sec)
- Jogging Speed: 6 inches per second (150mm/sec)
- Resolution: 0.00025" (.00635mm)
- Electrical System Requirements: 120V @ 15Amps
- ShopBot Control System software to run your CNC
- Each new ShopBot comes bundled with two powerful software programs to create CNC projects.
- Includes simple, quick-start set-up guide
- Desktop can be ordered with a CE Package



Model	Nominal Cutting Area*	Total Tool Movement Area*	Footprint**
Desktop 24-18	24" x 18" x 3.5" .61m x .46m x .089m	25.2" x 20" x 5.5" .64m x .51m x .14m	Router 36" x 32" x 30" .91m x .81m x .76m Spindle 39" x 32" x 30" .99m x .81m x .76m

*Nominal Cutting area and Total Movement Area refer to the areas that can be covered using a single Z-axis.

**Spindle VFD fits to the right side of the gantry

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the tools
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future.

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SOFTWARE

No computer degree is needed to run a ShopBot! **Each new ShopBot includes** design software packages selected and bundled for project designing and tool-pathing. If you are primarily working in sheet goods, want to do v-carvings, and/or new to CNC? You may want to start with **VCarvePro ShopBot Edition**. If you are primarily working in solids or blocks, already experienced with CAD, and/or have an engineering background? You may want to start with **Fusion 360**. These two powerful software packages include CAD/CAM to take your ideas to project designs to tool-pathing. The ShopBot Control System software that runs your CNC is also included.

We also offer software packages for use in signmaking, cabinet making and more. **Aspire by Vectric** is one of our most popular—great for designing and machining carved decorative panels and doors, custom millwork, moldings, signage, dimensional logos, jewelry, custom gifts and much more.

ShopBot Design Software Suite is compatible with many software programs, including: • AutoCAD • Rhino 3D • SketchUp • ArtCAM • Vector Art 3D • Cabinet Vision • EnRoute • KCDw • MasterCAM • MillWizard • OneCNC • Shape 3D • Vector CAD CAM • Visualmill • CabinetParts Pro • DeskProto • eCabinet System

YOUR BUSINESS NETWORK

Digital fabrication and online communication — together they are playing an important role in reshaping manufacturing in the U.S. and around the world. The *distributed manufacturing* model, which brings on-demand production and the end user closer together, is also growing fast. ShopBot Tools is a leader in supporting these developments. Our free online community, 100kGarages.com, can connect you with business opportunities around the country and the globe.

100kGarages.com

connect. collaborate. create.

FREE TECHNICAL SUPPORT

Whether you're new to digital fabrication or a veteran user of CNC technology, ShopBot is here to support your efforts. We provide **free technical support 7 days a week** from our headquarters in Durham, North Carolina. We also have a vibrant online community at talkshopbot.com, sharing tips and advice with other users of digital fabrication technology.

To contact tech support:
support@shopbottools.com

DESKTOP ENCLOSURES

The **Desktop Mini Enclosure** allows you to keep hands safely out of your Desktop cutting area, and help keep chips and dust off your floor. Easily attaches to ShopBot Desktop t-slot deck with included hardware. The front panel is easily removed for easy access to the tool bed. Enclosure is made from Duraplex- Impact resistant acrylic. *Color shown in product rendering is for display purposes only, actual product is clear.*

The **Desktop Full Enclosure** is made of steel and acrylic, reduces noise and dust for Desktops in high traffic, community work spaces. It keeps hands safely away from the cutting area. For additional safety, the spindle automatically turns off when the enclosure door is opened. *Assembly required.*



ADDITIONAL ACCESSORIES

- The **Plotter Pen Bit** allows you to draw like a plotter. Draw signatures, logos or other images. Print large parts to scale before cutting expensive material.
- The **Drag Knife Bit** enables you to cut adhesive-backed sign vinyl, paper, cardboard and thin plastics (up to 1/32"). Create vehicle graphics, professional-quality signs, banners, magnets or parts from thin plastics.
- The **Diamond Drag Engraving Bit** allows you to engrave plastic, metal, glass and stone. Engrave signatures, logos or artwork. Create custom brass name tags for trophies/plaques or permanently engrave serial numbers and ID.
- You can also add **ShopBot's 3D Digitizing Probe** to make a copy of an object in 3D. Duplicate an existing 3D shape or a piece of decorative trim or molding. Very useful for luthiers, furniture makers and restoration work.
- The **Desktop Rotary Indexing Head** is similar to a lathe in that it allows you to horizontally rotate a part being cut or machined, except that it allows fully indexed control of the rotation. This way, you can carve anything you want in the round (resolution = 0.03 degrees)
- The **Vacuum Pump .3hp Kit** is a high pressure, low volume system that is ideal for repetitive projects made of non-porous materials. A closed gasketed setup without leaks is essential for best hold-down performance.