

## SOFTWARE

No computer degree is needed to run a ShopBot! **Each ShopBot includes:** PartWorks and PartWorks3D software. PartWorks allows you to design and create 2D and 2.5D parts, while PartWorks3D creates toolpaths from the 3D design software of your choice. Both programs simulate the cutting of parts so you can verify they will be created just as you intend. Also included: ShopBot control software that will have your tool cutting designed parts in no time.

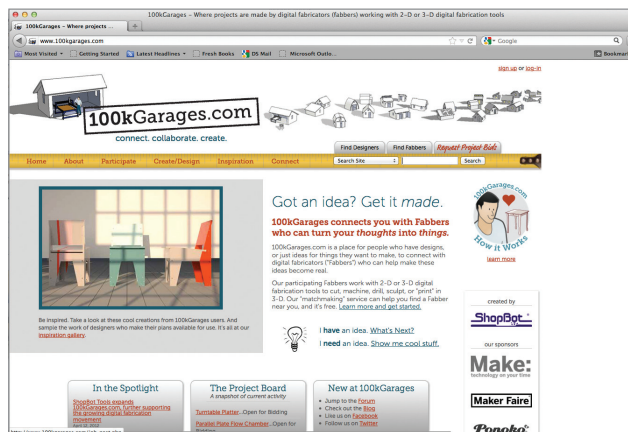
We also offer software packages for use in signmaking, cabinet making and more. **Aspire by Vectric** is one of our most popular—great for designing and machining carved decorative panels and doors, custom millwork, moldings, signage, dimensional logos, jewelry, custom gifts and much more.

**ShopBot PartWorks is compatible with many software programs, including:**

- AutoCAD • Autodesk 123D • Rhino 3D • Google Sketchup • ArtCAM • Vector Art 3D • Cabinet Vision • EnRoute • KCDw • MasterCAM • MillWizard • OneCNC • Shape 3D • Vector CAD CAM
- Visualmill • CabinetParts Pro • DeskProto • eCabinet System (not applicable to ShopBot Desktop)

\*Note regarding the 5-Axis tool: Because of the many ways this tool can be used, and varied design environments of production operations, we do not include 5-axis design or CAM software with the tool. However, the tool is easily integrated with your current engineering and CAM software (most major CAM systems post to ShopBots; those that don't can be straightforwardly configured). If you are just getting started with 5-axis, for general production and machining we recommend and sell Rhino and RhinoCAM (with 3+2, 5-axis toolpathing) as an entry-level CAD/CAM approach for working with 5-axis capabilities.

## 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.

We also support tech communities such as the grassroots Camp ShopBots and Maker Faires that meet around the country, and supply tools and support to educational FabLabs and Techshops.

## 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 telephone 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.

3333 Industrial Dr., Durham, NC USA 27704

We make  
the tools  
for making the  
future.

**ShopBot**<sup>®</sup>  
ShopBotTools.com  
888-680-4466

# The ShopBot **PRStandard** and **PRAlpha** series tools

## Your guide to choosing the right tool

From a Desktop model great for rapid prototyping and production of small parts, to 10ft x 30ft tools that fabricate components for trucks, houses and airplanes, there's a ShopBot for your needs. **The PRAlpha series** tools have enough production capability for a three-shift factory: they are the system of choice for high performance, speed and durability. **The PRStandard** series tools allow you to perform digital fabrication at an even lower cost; they are perfect for lower-volume production, hobbyists, schools, artists and DIYers. Many tool sizes are available as both PRAlpha's and PRStandard's. See inside this brochure for detailed comparison of our tools. **Then give us a call. We'll help you choose the right tool and configuration for your needs.**



For more details, visit our web site. Then give us a call to discuss your production needs. 888-680-4466

**ShopBot**<sup>®</sup>  
ShopBotTools.com

## The ShopBot PRSstandard series

ShopBot's PRSstandard series provides an affordable entry cost for those who are ready to get started with CNC productivity— working in wood, plastics, aluminum and more. The tools are ideal for low-to-moderate production shops, educational settings, hobbyist garages, signmakers, woodworkers, artists, and DIYers (to name but a few). PRSstandard tools have the same rigid frames and durable mechanical components as our top-of-the-line PRSalpha series.

- Low-backlash gearhead stepper motors on all axes.
- RBK Series stepper drivers on all axes.
- Tough precision bearings and hardened steel rails on each axis.
- Reliable rack-and-pinion power transmission on each axis.
- Z-zero Plate & XY Proximity Switches.
- Dust skirt ready to connect to your dust collector.
- Sealed Industrial Control Box.
- Emergency Stop disconnect switch integrated in Control Box.
- Advanced ShopBot Control System software runs your CNC.
- Step resolution .0006".
- Positional accuracy of +/- .002".
- User-friendly ShopBot PartWorks Software Suite for easy part design and tool-pathing.
- Upgradable to our more advanced PRSalpha (except the ShopBot Desktop)
- Free Telephone Tech Support 7 days/week from our Durham headquarters.
- Free online User Forum.
- Two-year warranty.

## The ShopBot PRSalpha series

With enough production capability for a three-shift factory, the PRSalpha is the system of choice for shops requiring high performance, high volume, speed and reliable power for all cutting tasks. ShopBot PRSalpha CNCs are our toughest, most sophisticated, gantry-based CNC routers.

Using advanced technology for CNC cutting, drilling, carving and machining, the PRSalpha series tools deliver rapid transit speeds of 1800 inches per minute and cutting speeds of up to 600 inches per minute. Easy to configure and re-configure, learn and use, the PRSalpha CNC delivers affordable, full-production performance in digital fabrication of wood, plastic, aluminum, and other materials.

- Fast, closed-loop Vexta alphaStep motors fitted with low-backlash, tapered-hob gear heads on all three axes (two on the X axis) -- alphaStep system monitors motor shaft positions to maintain synchronicity between signal and motion.
- Tough precision bearings and hardened steel rails on each axis.
- Reliable rack-and-pinion power transmission on each axis.
- Impressive cutting speeds of up to 600 inches per minute (depending on cutting bit and material) and rapid transit speeds of 1,800 inches per minute.
- Step resolution of .0004".
- Positional accuracy of +/- .002".
- Sealed Industrial Control Box.
- Emergency Stop disconnect switch in the Control Box with integrated and cabled remote Emergency Stop Buttons.
- Z-zero Touch-Off Plate and XY Proximity Switches.
- Dust Skirt ready to connect to your dust collector.
- Advanced ShopBot Control System software runs your CNC.
- User-friendly ShopBot PartWorks Software Suite for easy part design and tool-pathing.
- Shipped as four ready-to-assemble modules.
- Free Tech Support and User Forum.
- Two-year warranty.

### PRSstandard series

### PRSalpha series



#### ShopBot Desktop

The affordable, smaller-sized digital fabrication powerhouse with a compact footprint (18" x 24" x 4" work area). You can prototype and make whatever you want in just about any material you want — wood, plastics, foam, aluminum. This tool is a platform designed for evolving interests and needs: Beyond the base router or industrial spindle, you can choose add-ons such as a drag knife, diamond engraving bit or rotary indexing head. Coming soon: 3D printing and laser cutting capability.



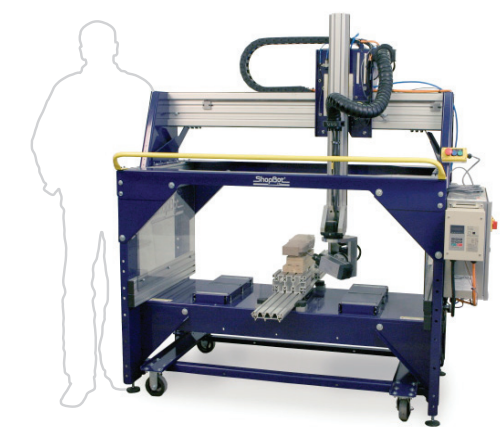
#### ShopBot Buddy

The award-winning ShopBot Buddy with moving deck provides industrial power, precision and reliability in a workspace as small as 16 square feet. The Buddy is designed for industrial, commercial or residential applications in wood, acrylic and aluminum. The tool incorporates many of the features of ShopBot's full-size systems, yet it weighs less than 600lbs. Optional casters allow you to easily move and reconfigure the Buddy to suit changing production needs.



#### Full-Size Tools

ShopBot offers a standard shop-sized 96 x 48 tool or larger. Used in professional woodworking and other manufacturing operations, STEM classrooms, museums, universities and many other settings, these ShopBots provide advanced technology in a tough, full-production CNC tool for wood, plastics, aluminum, and more. The PRSAlpha series full-size tools feature rapid transit speeds of 1800 inches/minute (600 inches/minute for cutting), high precision and impressive power.



#### 5-Axis Tools

The wrist-like spindle head of this tool is another demonstration of our technology leadership, as the ShopBot 5-Axis CNC delivers multi-axis capability at an affordable price (less than \$40,000). The ShopBot 5-Axis has a work area of up to 6' x 3' x 2'. It is designed for production cutting, drilling, trimming, as well as prototype-and fixture-machining in a large work envelope, accessible from all angles.