Now 5-axis capability is affordable.

The ShopBot 5-Axis CNC router is another demonstration of our technology leadership—robotic capability at an affordable price. The ShopBot 5-Axis is ready for production cutting, drilling, trimming, fixture-machining, and prototyping in a large work envelope, accessible from all angles.

Our 5-Axis CNC is built on rigid ShopBot modules with extended height that allows good 5-axis reach. The X-axis is a moving table based on ShopBot’s innovative PowerStick system. The Y-axis makes use of ShopBot’s precision extruded beam. The practical work envelope of the tool is 34” x 34” x 24” (860mm x 860mm x 610mm)—from lowest horizontal machining position to highest vertical position assuming a 1.5” (38mm) cutter—with the X-axis work area optimally extendable to 82” (2083mm).

All 5 axes are powered by advanced technology, closed-loop, alphaStep motors (from OM) providing production speed and precision. The tool includes a 2.2hp HSD spindle fit to ShopBot’s 5-axis head. The 5-axis head, or wrist, utilizes 2 alphaStep DG motors. These are “hollow rotary actuators” providing a wide rigid base and stable motion for the two additional axes of rotation.

While it does not have sufficient rigidity or aggressiveness for production machining of hardwood or aluminum, the tool is perfect for 5-axis machining of prototyping materials, including urethane foams and soft woods. It is also excellent for trimming, drilling, and slotting operations in a variety of materials.

Call 888-680-4466 to order your 5-Axis Shopbot today!
SOFTWARE AND CONTROLS

We provide an introductory license to Autodesk’s Fusion 360. If you are just getting started with 5-axis for general production and machining, we recommend Fusion as an entry-level CAD/CAM approach for working with 5-axis capabilities. But because of the many ways that the 5-Axis tool can be used, and varied design environments of production operations, the tool can be easily integrated with your current engineering and CAM software (most major CAM systems post to ShopBots; those that don’t can be straightforwardly configured).

**ShopBot’s Software Controls** provide full, simultaneous, 5-axis machining and run from the popular and straightforward ShopBot interface. It is a highly programmable interface. ShopBots run from industry-standard G-code or from ShopBot PartFile code, which is one of the easiest to read CNC languages for operators on the shop floor (ShopBot PartFile code is output by all major CAM programs; e.g. MasterCAM, VisualMill, Delcam, Inventor/HSMWorks, Fusion 360, etc). The controls make ShopBot very configurable in productions settings and make it possible to set up simple, push-button interactions for operators.

**Specifications**

- Standard work area 34” x 34” x 24” (860mm x 860mm x 610mm).
- X-axis work area extendable to 82” (2083mm) with optional PowerStick.
- Fast, closed-loop alphaStep motors (from OM) fitted with low-backlash, tapered hob gear heads on all axes (two on the X-axis) – alphaStep system monitors motor shaft positions with feedback maintaining tight synchronicity between signal and motion.
- Tough precision linear bearings on the moving gantry and hardened steel rails for the X-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 1800 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 XYZAB proximity switches for automatic zeroing.
- Advanced ShopBot developed—and ShopBot supported—Control System software runs your CNC.
- Unparalleled support for our user community with forums, production support services, training classes, and FREE technical support.
- Two-year warranty.
- **Ships fully assembled** (including spindle & VFD). It arrives ready to roll out of its crate on its own casters and start work (220VAC single phase or 3 phase power).

Call us today to discuss your production requirements. We'll help you choose the right ShopBot for your needs.