

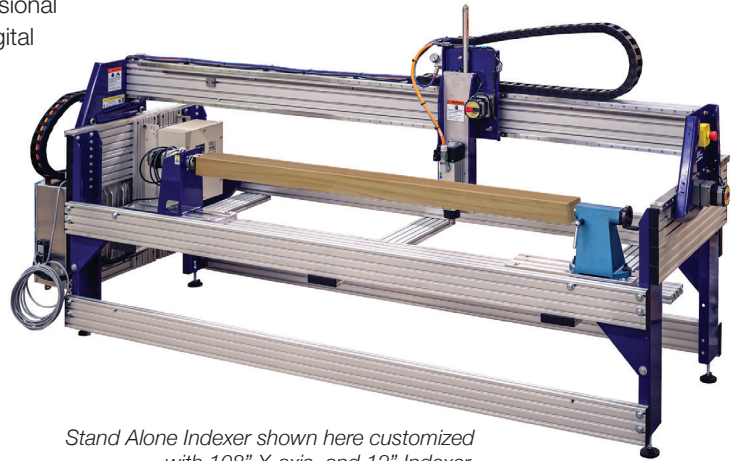
# ShopBot Stand Alone Indexer

If you're looking for a CNC solution that allows you to cut full 3-dimensional objects, and delivers affordable, full-production performance in the digital fabrication of wood, plastic, aluminum, and other materials, then ShopBot's Stand Alone Indexer is the right option for your needs.

Using advanced technology for CNC cutting, drilling, carving, and machining, ShopBot's Stand Alone Indexer is like a lathe, providing a rotary axis for turning a part, but in addition, providing precise "indexed" control over rotation.

ShopBot Stand Alone Indexer standard configurations are available with either a 6" Indexer (with a 9.8" maximum turn diameter) or a 12" Indexer (with a 19.6" maximum turn diameter), 48", 60", or 72" X-axis and have 14" of Z travel.

**Want something bigger?** Larger indexers, for an increased turn diameter, and custom sizes are available, as well as dual Z options.



Stand Alone Indexer shown here customized with 108" X-axis, and 12" Indexer.

## Stand Alone Indexer tools Include:

- Hardened steel rails on the moving gantry and tough precision linear bearings for the X and Y axes.
- Reliable rack-and-pinion power transmission on each axis.
- Sealed industrial control box.
- Z-zero touch-off plate and XYZ proximity switches.
- Dust skirt ready to connect to your dust collector.
- ShopBot Control System software to run your CNC.
- Bundled with powerful design software to create CNC projects.
- Ships fully assembled.
- Training and production process consulting are available.
- Unparalleled support for our user community with forums, production support services, training classes, and FREE technical support.
- Two-year warranty.

## PRSalpha Specifications

With enough production capability for a three-shift factory, **ShopBot PRSalpha tools** are our toughest, most sophisticated, gantry-based CNC routers. They reach rapid transit speeds of 1800 inches per minute and cutting speeds of up to 720 inches per minute. The PRSalpha series of full-sized gantry tools deliver high performance, high efficiency production, as well as fast position and cutting.

- Fast, closed-loop alphaStep motors fitted with low-backlash, tapered-hob gear heads on all three axes — alphaStep system monitors motor shaft positions with feedback maintaining tight synchronicity between signal and motion.
- Step resolution of .0004".
- Emergency stop disconnect switch in the control box with integrated and cabled remote emergency stop buttons.

### PRSalpha Stand Alone 6" & 12" Indexer Dimensions (Length x Width x Plunge)

XX" x 21" x 9.8" Diameter, cutting area with 8" of travel to the the center of rotation.

XX" x 21" x 19.6" Diameter, cutting area with 14" of travel to the the center of rotation.

| 6" Indexer | Cut/<br>Movement Area**                   | Footprint                                     |
|------------|---|---|
| 48-21-9.8  | 49" x 21" x 9.8"<br>(1.24m x .53m x .25m) | L72" x W36" x H67"<br>(1.83m x .91m x 1.70m)  |
| 60-21-9.8  | 61" x 21" x 9.8"<br>(1.54m x .53m x .25m) | L96" x W36" x H67"<br>(2.44m x .91m x 1.70m)  |
| 72-21-9.8  | 73" x 21" x 9.8"<br>(1.85m x .53m x .25m) | L108" x W36" x H67"<br>(2.74m x .91m x 1.70m) |

| 12" Indexer | Cut/<br>Movement Area**                     | Footprint                                     |
|-------------|---|---|
| 48-21-19.6  | 49" x 21" x 19.6"<br>(1.24m x .53m x .497m) | L72" x W36" x H67"<br>(1.83m x .91m x 1.70m)  |
| 60-21-19.6  | 61" x 21" x 19.6"<br>(1.54m x .53m x .497m) | L96" x W36" x H67"<br>(2.44m x .91m x 1.70m)  |
| 72-21-19.6  | 73" x 21" x 19.6"<br>(1.85m x .53m x .497m) | L108" x W36" x H67"<br>(2.74m x .91m x 1.70m) |

\*\*Actual cutting width is decreased by 10" when using a second Z-axis.



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We make the tools for making the future.

Give us a call at **888-680-4466** to discuss your production needs. We'll help you choose the right tool to turn your ideas into reality.

# ShopBot Rotary Indexer



## So much more than a lathe.

The ShopBot Rotary Indexer allows you to cut full 3-dimensional objects on your ShopBot. Like a lathe, it provides a 4th rotary axis for turning a part, but in addition, provides precise “indexed” control over rotation.

The ShopBot Rotary indexer comes in three different sizes, and can be purchased with new tools or retro-fitted to older tools.

With an indexer, you can create: Lathe work • Spindles, newel posts, table legs • 3D sculptures

### 3” Rotary Indexer Available for Desktop, Desktop MAX, and both Standard and Alpha model ShopBot Buddy and Gantry Tools.

|   | Desktop | Desktop MAX (short axis) | Desktop MAX (long axis*) | ShopBot Buddy and Gantry |
|---|---------|--------------------------|--------------------------|--------------------------|
| Max Turning Diameter (inches)   | 3.6     | 3.6                      | 3.6                      | 3.6                      |
| Max Turning Length (inches)   | 19.5    | 19.5                     | 36                       | Same as X-axis of tool** |
| <small>* Mounting the indexer in this way requires purchasing an adapting base<br/> ** For very long objects, torque may become a limiting factor</small> |         |                          |                          |                          |

### 6” Rotary Indexer Available for Desktop MAX, and both Standard and Alpha model ShopBot Buddy (with 12” Z-axis) and Gantry Tools.

|                               | Desktop MAX (2017 and newer) |                   |
|-------------------------------|------------------------------|-------------------|
|                               | Frame Mount                  | Deck Mount        |
| Max Turning Diameter (inches) | 8 (with 1.5” bit)            | 4.5 (with 2” bit) |
| Max Turning Length (inches)   | 36                           | 36                |

|   | Buddy with 12” Z-axis         | Gantry Tools with 8” Z-axis       |                                   |   | Gantry Tools with 14” Z-axis      |                                   |  |
|---|-------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|-----------------------------------|--|
|   |                               | Hanging Mount                     | Rail Mount                        | Table Mount   | Hanging Mount                     | Rail Mount                        | Table Mount  |
| Max Turning Diameter (inches)   | 9.8                           | 9.8                               | 5.5*                              | 4   | 9.8                               | 5.5**                             | 9.8  |
| Max Turning Length (inches)   | Nominal† length of Powerstick | Nominal† width of table minus 14” | Nominal† length of table minus 6” | Nominal† length of table minus 20”, or width of table minus 18” | Nominal† width of table minus 14” | Nominal† length of table minus 6” | Nominal† length of table minus 20” or width of table minus 18” |
| <small>*Up to 7.5” if only cutting along the centerline (i.e. lathe work or wrapped toolpaths)<br/> **Up to 9” if only cutting along the centerline (i.e. lathe work or wrapped toolpaths)<br/> †Nominal values refer to the advertised cutting area of a tool. For example, a 96x48 gantry tool has a nominal length of 96” and a nominal width of 48”</small> |                               |                                   |                                   |   |                                   |                                   |  |

### 12” Rotary Indexer Available for Alpha model Gantry Tools only.

|                               | Gantry Tools (8” or 14” Z-axis) Hanging Mount Only | Gantry Tools (14” Z-axis only) Rail Mount |
|-------------------------------|--|---|
| Max Turning Diameter (inches) | Up to 19.6   | Up to 14                                  |
| Max Turning Length (inches)   | Nominal width of tools minus 17”                   | Nominal length of tool minus 8”           |

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