

# Price List — February 2018

## How to choose and price your tool:

### STEP

**1** Select Tool and Software

### STEP

**2** Choose Router or Spindle

### STEP

**3** Select Accessories, Additional Software, Vacuum Systems, and Dust Collectors

### STEP

**4** Shipping & Crating Charges

## STEP 1 ShopBot PRSalpha & PRSstandard CNC Systems

ShopBot Personal Robotic Systems include VCarve Pro ShopBot Edition design software, ShopBot Control Software, Dust Skirt, X and Y Axis Proximity Switches and Z-zero Plate.

### Popular System Sizes

(Custom systems available — Call for details)

#### ShopBot's Professional Alpha CNC Tools

##### PRSalpha Full Size

PRSalpha 48-48 w/8" Z axis	\$17,630.00
PRSalpha 96-48 w/8" Z axis	\$19,945.00
PRSalpha 96-60 w/8" Z axis	\$20,995.00
PRSalpha 120-60 w/8" Z axis	\$24,229.00
PRSalpha 144-60 w/8" Z axis	\$27,767.00
PRSalpha 96-48 w/14" Z axis	\$22,681.00
PRSalpha 96-60 w/14" Z axis	\$23,905.00
PRSalpha 120-60 w/14" Z axis	\$27,028.00

##### ShopBot Buddy Alpha

PRSalpha BT32-6	\$12,840.00
PRSalpha BT48-6	\$14,411.00
PRSalpha BT48-12	\$16,181.00

##### 5 Axis

PRSalpha 5 axis	\$42,380.00
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#### ShopBot's Affordable Standard CNC Tools

##### PRSstandard Full Size

PRSstandard 48-48 w/8" Z axis	\$12,200.00
PRSstandard 96-48 w/8" Z axis	\$14,515.00
PRSstandard 96-60 w/8" Z axis	\$15,565.00

##### ShopBot Buddy Standard

PRSstandard BT32-6	\$8,172.00
PRSstandard BT48-6	\$10,151.00

##### ShopBot Desktop (24-18)

Desktop	\$5,295.00
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##### ShopBot Desktop MAX (36-24)

Desktop w/Aluminum "T" slot extrusion deck	\$9,340.00
Desktop w/Universal Vacuum Hold Down Deck Kit	\$9,855.00

For the Desktop MAX, 1.1HP Spindle included. Skip step 2.

#### PRSALPHA & PRSSTANDARD DIMENSIONS (LENGTH X WIDTH X PLUNGE)

	48-48	96-48	96-60	120-60	144-60	BT32 Buddy*	BT48 Buddy*	Desktop****	Desktop MAX
<b>Nominal Cutting Area**</b>	48" x 48" x 6" (1.22m x 1.22m x 0.15)	96" x 48" x 6" (2.44m x 1.22m x 0.15m)	96" x 60" x 6" (2.44m x 1.52m x .15m)	120" x 60" x 6" (3.05m x 1.52m x .15m)	144" x 60" x 6" (3.66m x 1.52m x .15m)	24" x 32" x 5" (.61m x .81m x .13m)	24" x 48" x 5" (.61m x 1.22m x .13m)	24" x 18" x 3.5" (.61m x .46m x .089m)	36" x 24" x 3.5" (.91m x .61m x .089m)
<b>Total Movement Area***</b>	50" x 50" x 8" (1.27m x 1.27m x .2m)	102" x 50" x 8" (2.49m x 1.27m x .2m)	102" x 62" x 8" (2.49m x 1.57m x .2m)	122" x 62" x 8" (3.10m x 1.57m x .2m)	146" x 62" x 8" (3.71m x 1.57m x .2m)	25" x 33" x 7" (.64m x .84m x .18m)	25" x 50" x 7" (.64m x 1.27m x .18")	24" x 18" x 5.5" (.61m x .46m x .14m)	38" x 25" x 5.5" (.97m x .64m x .14m)
<b>Footprint</b>	L72" x W79" x H67" (1.83m x 2.01m x 1.70m)	L120" x W79" x H67" (3.05m x 2.01m x 1.70m)	L120" x W91" x H67" (3.05m x 2.31m x 1.70m)	L144" x W91" x H67" (3.66m x 2.31m x 1.70m)	L168" x W91" x H67" (4.27m x 2.31m x 1.70m)	L36" x W56" x H67" (.91m x 1.42m x 1.70m)	L36" x W76" x H67" (.91m x 1.93m x 1.70m)	Router: L35" x W30" x H30" (.88 x .76 x .76) Spindle: L39" x W30" x H30" (.99 x .76 x .76)	Spindle: L48" x W39" x H30" (1.22 x .99 x .76)

\*For the BT32 & BT48, the cutting table under your work moves to provide motion on the X axis.

\*\* Plunge distance is approximate distance from collet to table (assuming 2" of table material).

Note that a long cutting bit will reduce the height of material that can be cleared by the cutter.

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

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

# STEP 2

## Spindle Packages & Routers

Spindle packages include collets, collet nuts, wrenches, pre-programmed/pre-wired frequency drive & RPM controller 220 V 1ph, 230V 3ph, 380/460V 3ph

### Automatic Tool Changers, Spindle Packages and Accessories

12XXX	Automatic Tool Changer including HSD 5 HP choose 1ph or 3ph	\$15,220.00
12605	HSD 1HP 110V 1ph for the Desktop	\$1,620.00
125XX	HSD 2.2 HP 230V 3ph or 220V 1ph	\$2,660.00
125XX	HSD 4 HP 230V 3ph	\$3,085.00
125XX	HSD 4 HP 220V 1ph	\$3,510.00
125XX	Colombo 5HP 220V 1ph	\$4,360.00
126XX	Colombo 5HP 230V 3ph	\$3,850.00
126XX	Colombo 5HP 380/460V 3ph	\$4,920.00
12XXX	Colombo 3HP 220V 1ph or 230V 3ph	\$3,445.00

### Porter Cable Routers

12021	Kit Porter Cable for ShopBot Desktop CNC	\$360.00
12016	Model 75182: 3.25 HP, 60Hz, 110V, variable speed	\$385.00

# STEP 3

## Accessories, Additional Software, Vacuum Systems & Dust Collectors

### Production Aids & Accessories

10451	4' PowerStick (6' long) for the BT32 and BT48 Buddy	\$925.00
10452	8' PowerStick (10' long) for the BT32 and BT48 Buddy	\$1,570.00
10456	PowerStick Outfeed System (Required for 8' PowerSticks)	\$410.00
15251	Caster Kit for BT32 & BT48 Buddy	\$295.00
	Collets for Router and Spindles	Starting at: \$25.00
13698	Desktop Starter Bit Kit-ball nose, 1/4 downcut, straight bits, upcut & downcut spiral bits – 7 Onsrud Cutters	\$195.00
13699	ShopBot Starter Bit Kit – 1 1/4" planing bit, V-bit, straight bits, upcut and downcut spiral bits, roundnose bit – 8 Onsrud Cutters	\$245.00
14510	Additional Dual Z – PRSalpha	\$1,995.00
14501	PRS Retro Z Axis – For replacing a PR or PRT Z axis with a PRS Z axis	\$1,495.00
14525	Air Drill Head – For automated drilling (alpha models only)	\$1,750.00
15105	Indexing Head – 6" PRSstandard	\$2,075.00
004737	Indexing Head – 6" for PRSalpha	\$3,075.00
15104	Indexing Head – 12" for PRSalpha	\$5,995.00
15145	Indexing Head – 3" Gecko G250X for Desktop	\$950.00
15160	3D Digitizing Probe	\$395.00
12705	E-Chain X48 Kit – Cable carrier system for 48"-axis PRS tools	\$320.00
13103	Diamond Drag Engraving Bit by WidgetWorks - Fits 1/2" collet	\$179.99
13102	Drag knife Bit - For 1/4" collet	\$149.99
13105	Plotter Pen Bit - For 1/2" collet	\$39.95
13108	Drag knife by Donek for thick material 1/2" collet	\$239.00

### Vacuum Systems

147XX	10.0hp Regenerative Blower – 13"Hg@140CFM w/pump, motor starter, PVC kit, filter, relief valve, vacuum gauge, 230-460v 3 phase, 82dBa or 220V 1 phase	\$6,485.00
14738	10.0hp Rotary Vane 25"Hg@175CFM w/pump, motor starter, PVC kit, filter, relief valve, vacuum gauge, 230-460v 3 phase, 81dBa	\$7,650.00

# STEP 3

continued

## Additional Design & Machining Software

11008	VCarve Pro Shopbot Edition (included with all new ShopBots)	\$650.00 <i>(when sold separately)</i>
11010	VCarve Pro Shopbot Edition – For PartWizard owners:	\$600.00
11145	CabinetPartsPro – Automates and simplifies the creation of toolpath files for standard cabinet components	\$250.00
11151	PhotoVCarve	\$149.00
	Vector Art Mega Collection 1, 2 or 3 – Thousands of clip art files	Each: \$149.00
11163	Aspire 3D CAD/CAM	For PartWorks/VCarve Pro owners: \$1,400.00
11164	Aspire 3D CAD/CAM	\$1,995.00

## Training, Assembly & Support Services

### ShopBot Basic Training

–Two days (once a month) at ShopBot Headquarters in Durham, NC. \$300.00

### Assembly and on-site training

– Four-day min @ \$750.00 per day. (Travel expenses additional). Call for quote

### Custom tool assembly.

Call for quote

### Customized ShopBot software training in your shop

– Up to five people per day (travel expenses additional). Per Day: \$750.00

### One-on-one software training at ShopBot Headquarters in Durham, NC.

Per Hour: \$100.00

### Contract design work – Call for availability

Per Hour: \$100.00

### Technical support – Mon-Fri 9 a.m. – 5 p.m. by phone

(Nights and Weekends by email and voice mail) FREE

## Dust Collector

14745	1.5hp, 60Hz, 110v, 1,280CFM, FLA 16A, 2-4" Ports, 6" Inlet with 4" dia, 18' clear flex hose <i>Note: This only works on 60hz power</i>	\$679.95
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# STEP 4 Shipping & Crating

ShopBot will ship with the commercial carrier of our choice. Call or email for shipping of custom tools (including table for modified Z) or for shipping outside the contiguous USA. Orders shipped outside of the USA will be charged a crating fee of \$450.00. All international orders are shipped CIF, taxes and duties are not included.

## Shipping & Crating Charges

DESTINATION	48, 60, 96	BT32 Buddy	BT48 Buddy	Desktop 2418	MAX D3624	120, 144
Eastern US (East of Mississippi River)	\$675.00	\$725.00	\$800.00	\$350.00	\$400.00	\$825.00
Central US (Mississippi River to Rockies)	\$775.00	\$850.00	\$900.00	\$350.00	\$500.00	\$875.00
Western US (West of the Rockies)	\$875.00	\$950.00	\$1,000.00	\$350.00	\$600.00	\$925.00
Crating Fee	\$275.00	\$275.00	\$275.00			\$275.00

All prices and costs published by ShopBot (both digitally and in print) are based on orders within the contiguous USA. All other orders may incur additional costs/fees.

# Specifications

Controlled via USB port. Requires Windows XP Pro/Vista/7. Min. 800 MHz, 512M RAM. 1024x768 graphics display recommended for the shop monitor. 1280x1024 graphics display recommended for the design monitor (if separate from the shop monitor). If the shop computer will not be networked, an additional USB port for file transfer is useful. ShopBot Control Software produces simultaneous movement in three - five axes (4th and 5th axes used with optional equipment such as 2nd Z axis, indexer or five-axis head).

## ShopBot PRSalpha Specifications

XY Move Speed (with full cutting force)	Variable, max. 10"/sec (250mm/sec) 600"/min. (15.2m/min.)
Z Move Speed (with full cutting force)	Variable, max. 6"/sec (150mm/sec) 360"/min. (9.1m/min.)
XY Positioning Speed	Variable, max. 30"/sec (760mm/sec) 1800"/min. (45.7m/min.)
Z Positioning Speed	Variable, max. 15"/sec (380mm/sec) 900"/min. (22.8m/min.)
Step Resolution	.0004" (0.010mm)
Positional Repeatability	+/- 0.002" (0.051mm)
Linear Cutting Force	≈150# at 1" (25mm) per second
X and Y Axis Drive System	Rack and Pinion
Z Axis Drive System	Rack and Pinion
Input Voltage*	Connecting the PRSalpha requires the services of a licensed electrician. Please check the website <a href="http://www.shopbottools.com">www.shopbottools.com</a> or contact ShopBot for the wiring information for the set-up you are considering.
Eight Input Channels (switch closure or 5-volt logic input), Eight Output Channels (5-volt logic level current)	

## ShopBot PRSstandard Specifications

XY Move Speed (with full cutting force)	Variable, max. 6"/sec (150mm/sec) 360"/min. (9.1m/min.)
Z Move Speed (with full cutting force)	Variable, max. 2"/sec (50mm/sec) 120"/min. (3m/min.)
XY Positioning Speed	Variable, max. 10"/sec (250mm/sec) 600"/min. (15.24m/min.)
Z Positioning Speed	Variable, max. 8"/sec (200mm/sec) 480"/min. (12.19m/min.)
Step Resolution	0.0006" (0.015mm)
Positional Repeatability	+/- 0.002" (0.051mm)
Linear Cutting Force	≈50# at 1" (25mm) per second
X and Y Axis Drive System	Rack and Pinion
Z Axis Drive System	Rack and Pinion
Input Voltage	110v. or 220v. (15 amp, single phase, 50-60Hz) 220v available on request
Eight Input Channels (switch closure or 5-volt logic input), Eight Output Channels (5-volt logic level current)	

## ShopBot Desktop D2418 Specifications

XYZ Move Speed	Variable, max. 4"/sec (100mm/sec) 240"/min. (6.1m/min.)
XYZ Positioning Speed	Variable, max. 6"/sec (150mm/sec) 360"/min. (9.1m/min.)
Step Resolution	0.00025" (.006mm)
Positional Repeatability	+ 0.001" (0.025mm)

## ShopBot Warranty

ShopBot warrants that the system will perform in substantial compliance with the instructions and documentation supplied. ShopBot further warrants that all components of the tool, except for those parts subject to normal wear (e.g. pinion gears, gear rack, springs), will be free from defects in material or workmanship for two years from the date of purchase. SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or mis-repaired by persons other than Seller. ShopBot reserves the right to use new or ShopBot remanufactured components for warranty replacement. Components repaired under warranty repairs will be returned to customer at ShopBot's expense via surface mail. Overnight or express shipping will be at the customer's expense. There are no warranties extending beyond the above warranties. All resold products constituting accessories and secondary components (such as, but not limited to, routers, spindles, vacuum pumps, etc) are subject to their own manufacturer's warranties.

**PAYMENT OPTIONS** – ShopBot requires payment in full with the order. We accept checks, bank wire transfer, Discover, MasterCard, Visa and American Express. All international orders must be paid by bank wire transfer. *All customs charges and import taxes are the responsibility of the purchaser.*

**All written quotes are good for 30 days. All prices are subject to change without notice.**

# ShopBot Standard vs. Alpha Tool Specification

	Standard	Alpha
<b>Drive Motor</b>	Open loop steppers with 3.6:1 gearboxes. Without positional feedback, if attempting to cut too fast or an obstruction hit, steps could be lost and not noticed until the part file has completed or the operator stops.	Closed loop steppers with 7.2:1 gearboxes. With constant positional feedback to the drivers, if an obstruction is hit or cutting too fast the drivers will attempt to correct the position of the motors before activating an alarm, stopping the machine and displaying an alarm on the monitor. Once reset and homed, cutting should be able to be resumed.
<b>Cutting Speed:</b> Porter Cable Router (7518) 4HP Spindle	Up to 600" per minute Up to 600" per minute	Up to 600" per minute Up to 720" per minute
<b>Jog Speed</b> (Bit out of material)	12" (300mm) per second	30" (760mm) per second
<b>Step Resolution</b> (Distance per step)	.0006" (0.015mm)	.0004" (0.01mm)
<b>Postional Repeatability</b>	±0.002" (0.05mm)	±0.002" (0.05mm)
<b>Linear Cutting Force</b>	≈50# at 1" (25mm) per second	≈150# at 1" (25mm) per second
<b>Electrical Power Requirements</b>	110V 15A for Controls 110V 20A for Router (Spindle amperage requirements vary on horsepower and voltage)	220V 20A for Controls & Router (Spindle amperage requirements vary on horsepower and voltage)

\*Mechanical parts such as table, gantry, Z axis... are the same for both types of machines.

## There's a ShopBot for every size shop and project.



Desktop



Desktop MAX



Buddy



PRSalpha



5-Axis