


INVENTABLES
X-Carve
Controller
Spindle
Kit



INVENTABLES X-Carve Controller Spindle Kit User Guide

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INVENTABLES X-Carve Controller Spindle Kit



Specifications:

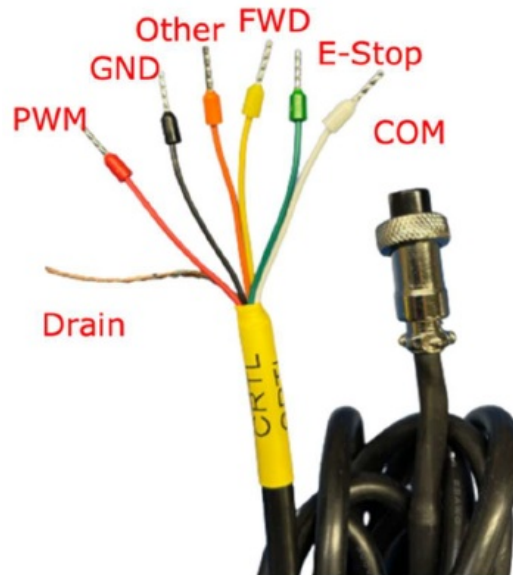
- Spindle motor RPM range: 8000 – 24000
- Control cable inputs: Drain, PWM, GND
- Power cable options: 110v or 220v

Product Usage Instructions:

Your new Spindle Kit is fully programmed for automatic control but also has a “Manual Override” switch which lets you run your spindle in manual mode via the VFD’s keypad controls. If you’d like to run your spindle in manual mode, flip the “Manual Override” switch up or “1” to enable VFD Keypad controls. Then use the Run/Stop and Potentiometer dial on the front of your VFD to run your motor.

If you’d like to automatically control your spindle via g-code and your machines’ controller, perform the following:

First up... We’ve preprogrammed your VFD to accept a 0 to 10 volt PWM signal which is what your X-Carve controller. Please refer to your CAD software’s instructions for configuring it to use a spindle motor. Your new woodworking spindle motor can run between 8000 and 24000 RPMs. The control cable included with your spindle kit has a variety of inputs which are more than your X-Carve controller can utilize. Thus we’ll need to tape off a few as they will not be used. Using painters or electrical tape, individually tape over all wires except for the Drain, PWM, and GND. Refer to the included manual for how to wire the remaining wires up to your controller.



Manual Mode:

1. Flip the Manual Override switch up to enable VFD Keypad controls.
2. Use the Run/Stop and Potentiometer dial on the VFD to run your motor in manual mode.

Automatic Control Mode:

1. Ensure the VFD is preprogrammed to accept a 0 to 10 volt PWM signal.
2. Configure your CAD software to use a spindle motor.
3. Refer to the included manual for wiring instructions to connect the control cable to your CNC controller.

Installation Guide:

1. Identify and understand the parts of the kit.
2. Connect the spindle cable linking the motor to the VFD and the control cable linking the VFD to your CNC controller.
3. Mount the collet sizes onto the motor shaft using the included wrenches.
4. Connect the appropriate power cable (110v or 220v) based on your order.

We've poured all our knowledge and experience into this high-quality product capable of being used with many different brands and models of CNC machines. Installation is very easy but it does help to identify each of the parts of our kit so you can understand the terminology in documentation.



Our enclosed vfd (left) is the heart of our spindle kit and allows you to control the motor (right).

** Your motor may be different than pictured here, however all enclosed VFD's will look like this. (Water Cooled Shown)*





The Spindle cable (left) links the above motor (upper-right) to the VFD (upper-left).



The Control cable (right) links the VFD (upper-left) to your CNC's controller.

** The spindle cable may have different end than pictured to match your configuration (H20 shown)*



We include the most common collet sizes and a collet nut (left). These snap together and mount onto the end of shaft of the motor (upper-right) using the included wrenches (right).



** Collets, Nuts and Wrenches - sizes may vary.*



Lastly you'll find a power cable (left) which is either 110v or 220v depending on your order.

**220v shown*

Immediate Testing:

1. Connect Power and Spindle cables to the VFD and motor for testing.
2. Do not install collet or nut for testing.
3. Switch on the VFD, set Manual Override to Manual, press Run button, adjust RPMs with dial, and stop test with Stop/Reset button.

If you have any questions, reach out to us at support@pwnccnc.com



Frequently Asked Questions (FAQ):


Q: What should I do if I have unused wires in the control cable?

A: Tape off all wires except for Drain, PWM, and GND using painters or electrical tape as these are the only ones needed for connection.

Q: How can I reach out for support or further questions?

A: For any queries, contact us at support@pwnncnc.com

Documents / Resources

	<p>INVENTABLES X-Carve Controller Spindle Kit [pdf] User Guide X-Carve Controller Spindle Kit, X-Carve, Controller Spindle Kit, Spindle Kit</p>
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References

- [User Manual](#)

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