VeneerSupplies.com
Project:CRS™
VACUUM PRESSING SYSTEM

Thank you for purchasing the Project CRS™ Vacuum Pressing System. When combined with a vacuum pump, you'll find it a versatile and practical addition to your arsenal of tools. The system is designed for woodworkers looking for a simple and affordable method of veneering wood panels and clamping wood projects for routing, sanding and carving. With an integrated bleeder valve, the system is fully adjustable from 840 to 1,750 lbs of pressure per square foot.

We hope you will find the assembly process very easy. This guide will help get your vacuum press put together as quick as possible. As always, please feel free to contact us through our website at VeneerSupplies.com if you have any questions.

Kit Contents


Thread-Sealing Tape


Heavy-Duty Vacuum Tube


Lock-On Vacuum Connector


Long Brass Pipe (2")


Vacuum Valve


Heavy Duty Vacuum Gauge


Vacuum Bleeder Fitting


Short Brass Pipe (1")


1/4" NPT Brass Barb Fitting


Brass Cross Fitting


High-Flow Vacuum Filter


1/8" NPT Brass Barb Fitting

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Assembly

1. Apply thread sealing tape to each brass fitting including the vacuum bleeder and vacuum gauge.

   Two or three layers of tape should be applied to the fitting in the direction of the threads. Hold the fitting in your right hand. Apply the starting end of the tape to the top threaded portion of the fitting and rotate the fitting away from you. The fitting should be rotating in the same direction as if it were being inserted into another fitting.

   Thread sealing tape is not shown in the assembly pictures below for the sake of clarity.

2. Loosely attach the long brass pipe to the intake of the vacuum pump.

3. Attach the brass cross and tighten it firmly. This will also tighten the long pipe from the step above. After the brass cross begins to become snug, continue turning until the fitting is oriented horizontally as shown.

4. Loosely attach the side of the short brass pipe with thread sealing tape to the brass cross. It is attached to the opposite port of the long pipe.

5. Attach the vacuum filter to the side of the short brass pipe this is without thread sealing tape. Note the arrow on the top of the filter. This arrow should be pointing toward the pump. Do not over-tighten the filter. Even when the filter is less than hand tight, it will still provide a reasonably air-tight seal. The final position of the filter should be the 6 o'clock or vertical position.

6. Attach the vacuum gauge to the top port on the brass cross. Do not apply force to the gauge housing. Use a 9/16" wrench on the base of the gauge to prevent damage.

7. Attach the vacuum valve to the bottom port of the brass cross using a 5/8" wrench. After the valve is snug, continue turning the fitting until the handle is facing upward.

8. Attach the bleeder fitting to the vacuum valve with a 9/16" wrench.

9. You can now turn the entire brass assembly so the gauge is angled up by 40˚. This will make it easier to see the gauge when the system is in use.

10. Using 9/16" wrench, attach the ¼" NPT brass barbed fitting to the filter's intake. Do not over-tighten this fitting. Gently "snug" is acceptable.

11. Slide the vacuum tube onto the barbed fitting on the vacuum filter.

12. Attach the 1/8" NPT brass barb fitting to the lock-on connector using a 5/8" and 9/16" wrench. This fitting should have thread sealing tape applied to it.

13. Slide the lock-on connector assembly shown above onto the remaining open end of the braided vacuum tube.

Completed Assembly

Your system may appear different from the image shown depending on the vacuum pump you use with the CRS kit.

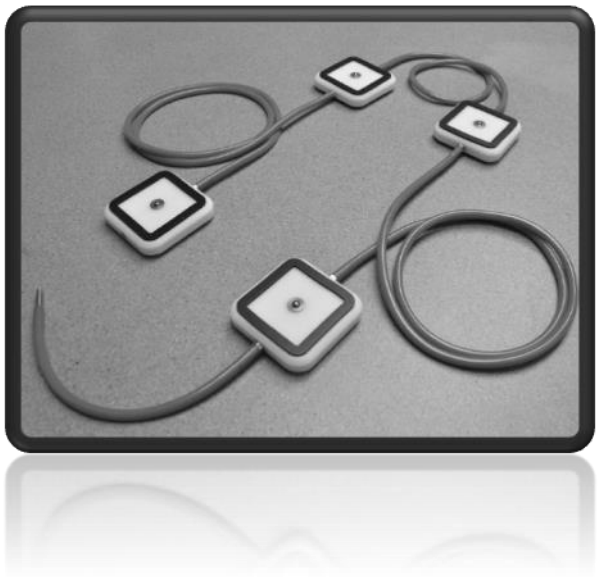
Warnings

1. Do not allow the vacuum press system to run unattended.
2. The vacuum gauge is a sensitive instrument and will be rendered inaccurate if dropped or struck with a hard object.
3. The vacuum pump may be hot during and after use. Exercise care when handling the vacuum press system.
4. Not suitable for use near flammable or combustible materials! The individual components of this kit and the completed assembly of these components should not be considered suitable for use in areas where flammable or combustible gases or dusts are present.
5. Brass products may contain chemicals known to the state of California to cause cancer or reproductive toxicity. Visit www.p65warnings.ca.gov for details.

Optional CRS Kit with Podz™ Vacuum Clamping Jigs

Set Up

If you ordered the CRS kit with the optional Podz™ clamping kit, assemble the jigs using the instructions included with that kit.



Begin preparing the vacuum press system and the Podz jigs for use by attaching the tube adapter from the lead Podz clamping jig to the lock-on connector from the CRS kit vacuum system.

Attach the power cord from the vacuum pump to the end of the power cord on the electric foot pedal included with the Podz clamping kit.

Plug the foot pedal power cord into a standard 120v AC wall socket.

Using the CRS Kit with Podz™ Vacuum Clamping Jigs

Set the vacuum valve about half way between the fully open and fully closed position. Then turn the system on by depressing the front edge of the foot pedal (the area closest to the power cord). Now place your work piece onto the Podz jigs. You should feel the vacuum pull it down.

You may wish to adjust the vacuum valve if the clamping piece is very porous and causes inadequate clamping pressure. Adjust the vacuum valve handle as needed to create an ideal balance of vacuum clamping force and release time.

Slight adjustments toward closing the vacuum valve increase the clamping pressure and decrease the speed at which the project releases from the clamping jigs. Slight adjustments toward opening the vacuum valve decrease the clamping pressure but increase the rate of release when the system is turned off.

Press the back edge of the foot pedal to turn off the vacuum pump and release your project. You may hear the flow of air from the bleeder fitting as the vacuum from the jigs is unloaded.