

MONUMENT

T O O L W O R K S

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ABOUT THE CLAMP

ROLLER NUT ASSEMBLY

SPINNING THESE ROLLERS WITH THE PALM OF YOUR HAND OPENS OR CLOSES THE SEAM.

CONNECTING ROD

THIS ROD CONNECTS THE ROLLER NUT ASSEMBLY WITH THE OTHER HALF OF THE CLAMP.

JUMPER HOSE

THIS HOSE EQUALIZES THE VACUUM LEVELS BETWEEN THE CLAMP PODS.

LINEAR BEARING SHAFTS

THESE PRECISION GROUND SHAFTS GUIDE THE TWO PODS TOGETHER WITH PERFECT ALIGNMENT.

CONTROL VALVE

WITH THE LEVER UP, A VACUUM IS CREATED TO HOLD THE PODS FIRMLY TO THE STONE SURFACE, ENABLING CLAMPING.

WITH THE LEVER DOWN, THE VACUUM IS RELEASED FROM THE CLAMP, AND THE CLAMP CAN BE MOVED.

AT LEAST ONE LEVER MUST BE UP BEFORE STARTING THE VACUUM PUMP. THE LEVER MUST BE EITHER ALL THE WAY OPEN, OR ALL THE WAY CLOSED FOR OPERATION. ANY WHERE IN BETWEEN WILL EXHAUST THE VACUUM FROM THE SYSTEM.

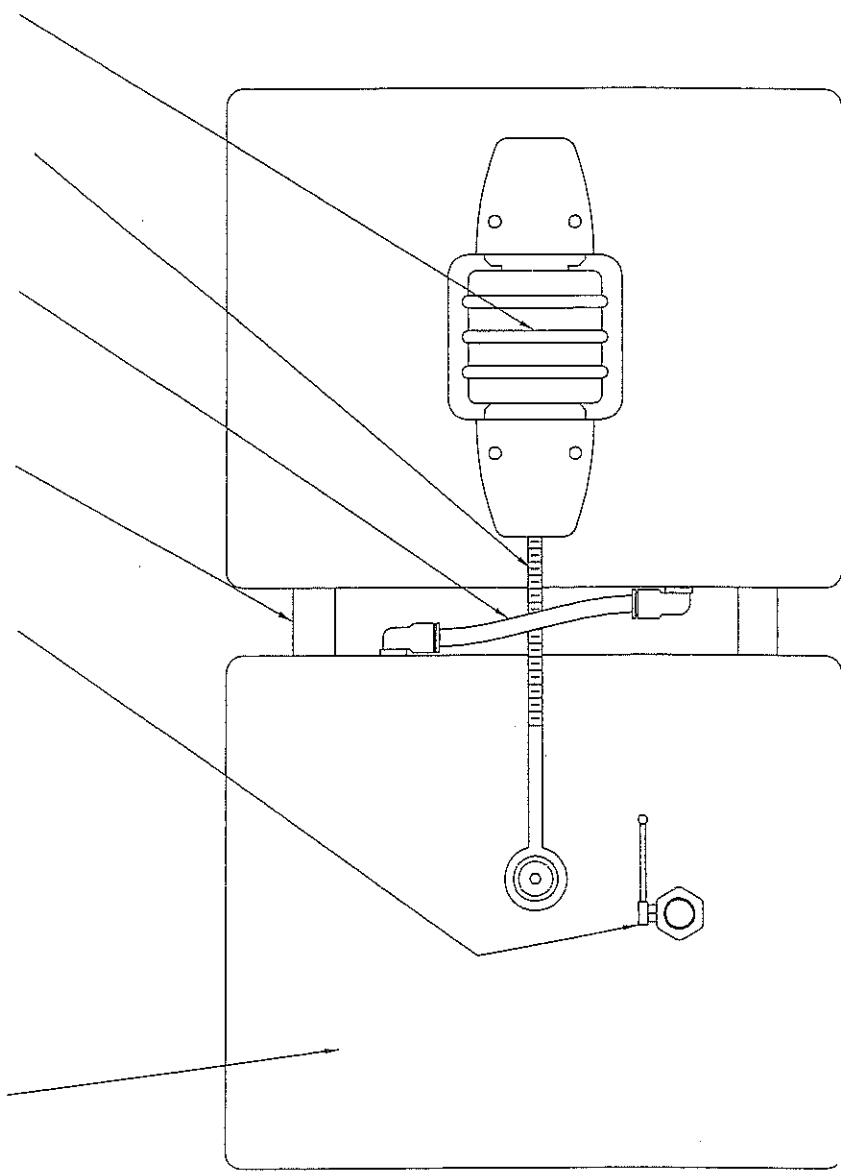
PODS

THESE PODS ARE MADE FROM HDPE, AND ARE LARGE ENOUGH TO PROVIDE 1,200 POUNDS OF HOLDING PRESSURE PER CLAMP. THAT'S 2,400 POUNDS PER CLAMP SET!

GLUE WILL NOT STICK TO THIS PLASTIC.

SPECIFICATIONS

Voltage.....110-120 VAC
 Clamp stroke.....5/8 inch
 Holding power.....1,200 pounds/each
 Clamp body.....high density polyethylene
 Guide rods.....case hardened steel



HOW TO USE THE GORILLA GRIP SEAM CLAMP

Thank you for purchasing our PARALIGN GORILLA GRIP seam clamp. This clamp will be a tremendous time saver for your installation teams. Proper care of this tool will give you many years of service. Please read the following information to get the maximum use from this precision tool. **PLEASE NOTE!** It is not intended to be used in a shop environment with large amounts of airborne dust.

1. The slabs should be set, shimmed close to level, and prepared according to the adhesive manufactures instructions. Tape can be applied if you like, and it will not affect the holding power of the clamp, even if it runs under the pods.
2. Shim the slabs close to flush. Wipe off the seam area and the clamp bottoms with your hand.
3. Align the front edges and dry clamp the seam closed. You will need to work both rollers together to do this smoothly. Use care not to pull the seam to tight. Make sure the clamps are square to the seam. If they are applied at an angle, they will pull the seam at an angle, mis-aligning the front edge.
4. Check the seam for perfect alignment. The example at right shows small pieces of paper being used to correct for a warped slab. The left slab cups down, the right slab cups up. These paper "shims" are inserted under the pods to apply extra pressure to bend the slab slightly. The GORILLA GRIPS are able to bend 3cm stone a slight amount, giving a perfect seam every time.
5. Use the clamps together to open the seam enough to insert the adhesive. Remove one clamp only, being careful not to disturb the location of the paper shim, and apply the adhesive to half of the seam, replace this clamp. Repeat this with the other clamp for the other half of the seam.
6. Close the seam, working both clamps, and let the adhesive squeeze out. If you want to scrape off the wet adhesive, you can do so by removing one clamp at a time, similar to step 5 above. Finish shimming the slabs from below.

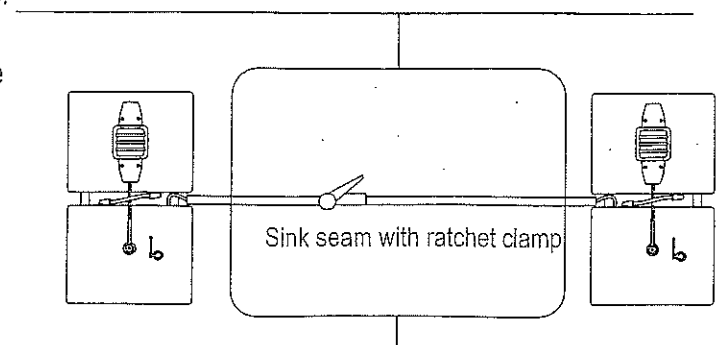
Helpful tips

Use one clamp, applied at a slight angle, to gently push and pull the slabs together at an angle. This is safe way to bring the tops into alignment, and avoid bumping the tops, possibly chipping the surface.

If you put the seam at the sink.

Put one clamp on each side of the sink, turned sideways. Pull the seam using a small ratchet type tie down strap, available at most large hardware stores. Be sure to get the type with vinyl covered hooks, as you will be attaching the hooks to the polished linear bearing shaft.

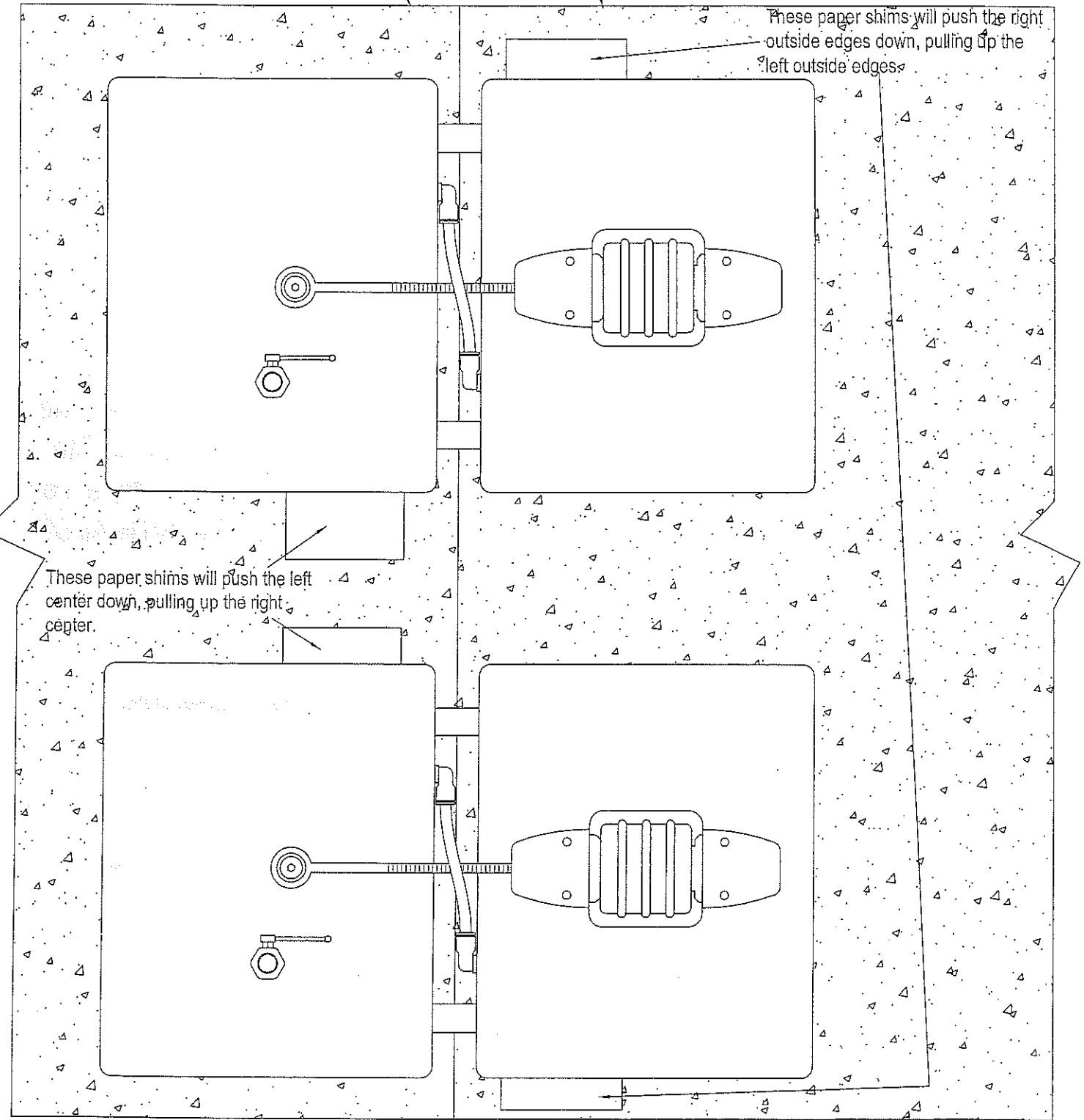
Post-it brand sticky note slips from 3M make great paper shims. They can be stuck to the countertop or to the clamp bottom. They will not affect the holding power, even if applied under the gaskets.



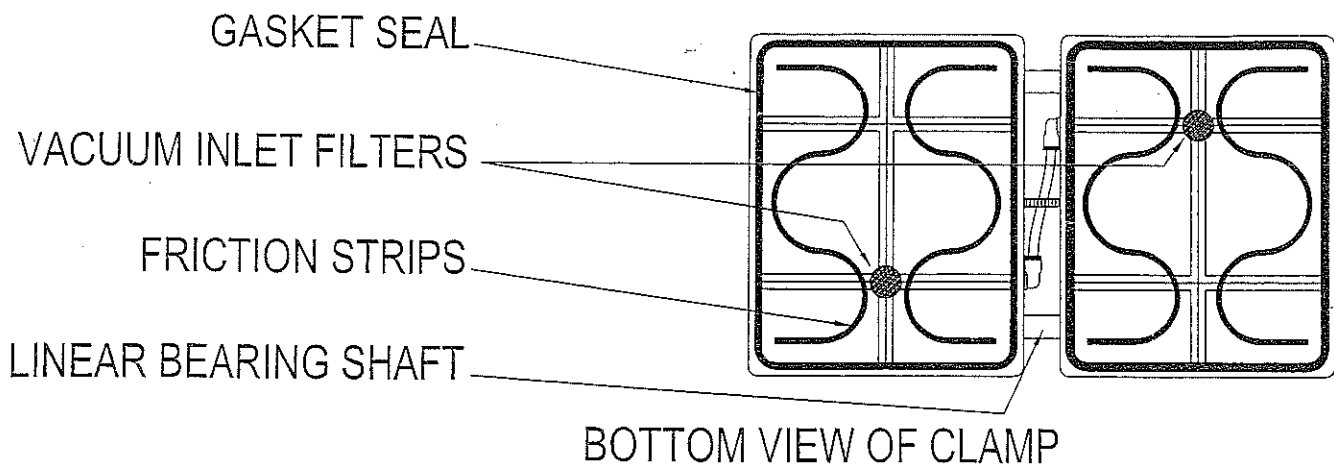
Align front edges of counter

These paper shims will push the right outside edges down, pulling up the left outside edges.

These paper shims will push the left center down, pulling up the right center.



This example shows how small pieces of paper can be slipped under the clamp pods to force cupped or crowned surfaces together. Dry clamp the seam first, and see where you need to apply these paper "shims". Some tops will require more, some tops require none at all.



CARE AND REQUIRED MAINTENANCE

1. GASKET

Clean the dust from the gasket before every use. The **best** method is a quick brush off with your hand. Do not apply anything to the gasket, or blow off the clamp with compressed air. The air blast can easily dislodge the gaskets, as well as the filter. If you get seam adhesive on the gasket you can wipe it off with alcohol, or flake it off after it sets. **DO NOT MAKE A HABIT OF CLEANING THE GASKET WITH ALCOHOL!** If the gasket becomes damaged you can turn it over and use another edge.

2. VACUUM INLET FILTERS

The filters should not require any maintenance under most field conditions. If they must be cleaned, just pull them out with a pin or another sharp object and blow them off.

DO NOT OPERATE THE CLAMP WITH THESE FILTERS MISSING.

3. LINEAR GUIDE RODS

In some climates the guide rods may be subject to excessive humidity and may require some attention. A very small drop of oil applied at the bushings is all that is required.

4. ELECTRIC VACUUM PUMP ****VERY IMPORTANT****

The vacuum pump can not start with all of the valves closed. If power is interrupted during the clamping process you will have to start over and close all valves except for the first one. Also note that the valve handle must be in the full upright position when clamping. **Be sure to keep the box lid open when the pump is running.** This will prevent the pump from overheating. Also be sure to keep the open box away from routing and sanding operations to prolong the life of the pump.