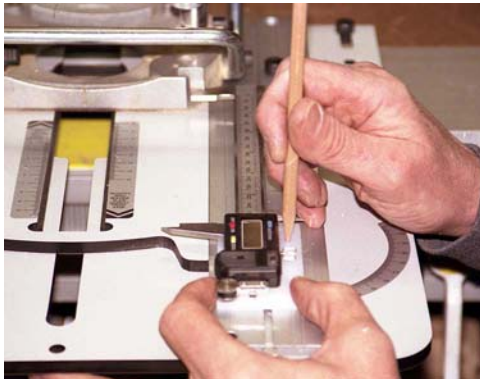


Mounting digital caliper kit to WoodRat® alum rails



Optional: Cut off depth gauge of the digital caliper.



Push router plate against backstop.

Insert tip of caliper in edge guide hole and open caliper to maximum length. Hold caliper centered on the included glue block and mark alum rails for taps.



Drill 1/8" holes then tap the holes using included 4mm tap.



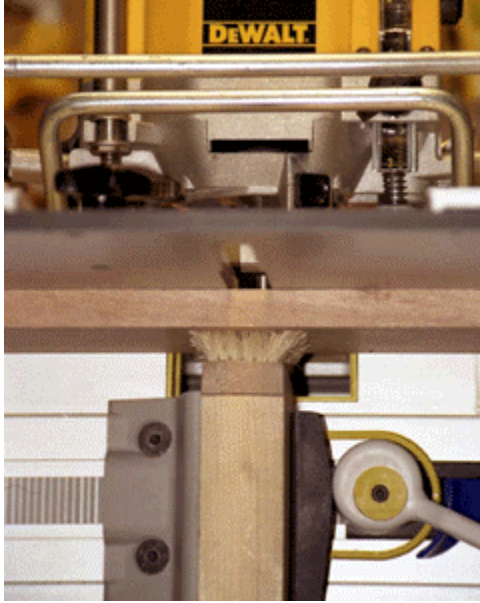
Mount glue block to alum rails using included 4mm hex head screws.

Place hot melt glue on back of digital caliper body then insert caliper tip in edge guide hole and place caliper back on the glue block.



While the hot glue sets, hold the caliper body on glue block and slide router back and forward eliminating any "slop" in the caliper measurements.

Cutting a sliding dovetail using digital caliper kit



A sliding dovetail is an excellent joint, but it is one of the most difficult joints to fit. With the digital caliper kit you can easily cut this joint to an accurate fit.

Make the dovetail slot first. Hold the wood beneath the base plate with a stiff brush acting as a feather board. In addition, clamp the wood to the base plate with a Quick Clamp.



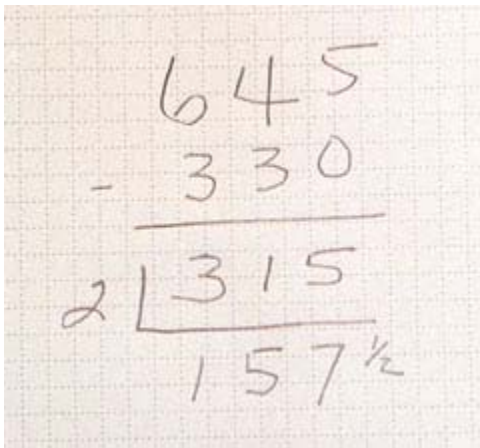
Cut the dovetail slot with a wide-angle dovetail bit. Zero the bit on face (top) of the wood then set the router plunge depth for depth of cut. Push the router behind the wood then plunge the bit and make the cut by pulling the router across the face of the wood. For a stopped sliding dovetail, stop the cut before exiting the wood.



With the digital caliper, measure the narrow width (exit width) of the dovetail slot (measurement #1).



Also measure the full width of the board to be used for the sliding dovetail tenon (measurement #2).



Calculate the side cut for the sliding dovetail tenon by subtracting measurement #1 from measurement #2 then dividing the result by 2 (since we will cut an equal amount from both sides).



Mount the digital caliper to the WoodRat alum rails (see Instructions for mounting digital caliper kit to WoodRat® alum rails).

Note that the caliper can be removed and remounted as often as needed using the 4mm hex screws.



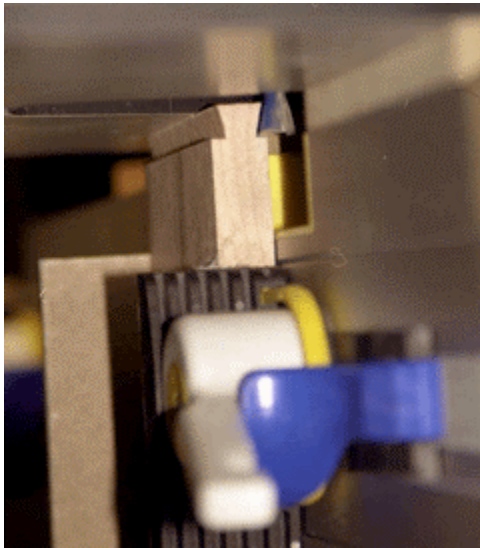
Clamp the tenon board in the cam clamp. Turn the dovetail bit with wide edge of tip toward the wood. Plunge the bit to same depth setting used for dovetail slot, pull the router forward to zero the bit against face of tenon board then set the caliper to zero.



Power feed the wood pass the bit.

With the star knob loose, pull the router forward until the caliper reading is the calculated side cut measurement for the sliding dovetail tenon. To move the router forward or backward in 1/1000-inch increments, tap the router base with a small hammer. Tighten the star knob when caliper is at the calculated measurement.

This measurement should result in a slightly over sized tenon. The digital caliper will allow you to sneak up on an exact fit by making a second or third cut.



With the tenon board clamped to the sliding bar, power feed the wood through the dovetail cutter. Flip the board over then power feed the other side through the dovetail cutter. This will result in a centered tenon that should be a close fit.



Perform a trial fit of the tenon. If the fit is too tight then tap the router forward an additional 1/1000 or 2/1000-inch then cut the tenon a second time. Continue this adjustment until the tenon is a perfect fit.