



The Ultra Tec Rotator (Item no. 1407.7)...This accessory is for automatic generation of a round shape—pre-forming a girdle or a pavilion. It is very precise, since, unlike hand-driven rotation, there is no variation in pressure during the process, and no pauses along the way.

- 1.0 BEFORE PROCEEDING TO MOUNTING THE ROTATOR-- Check the items that you have received—see the photo. They include: the Bracket and Motor Assembly (also shown above), two hex wrenches, two mounting screws, a Driven Pulley, and a Drive Belt.

Also, (not shown in photo), you have received an AC-DC Adapter (the motor is nominally 12 VDC) and a Weight (it is used optionally in the process).

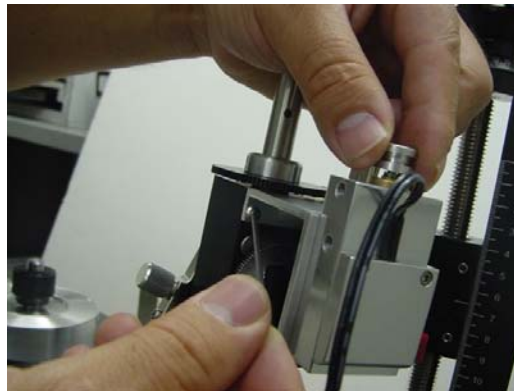


- 2.0 MOUNTING THE ROTATOR. Each step has an accompanying picture. Basically, there are 3 steps (2.1, 2.2, 2.3). The pictures themselves are “worth a thousand words” – refer to them.

- 2.1a Examine the Bracket and its mounting holes. You will see that there are two corresponding threaded holes in the Mast’s Bearing Block (no threaded holes? See Note 1, below). Thread a screw into the upper mounting hole. Tighten it.



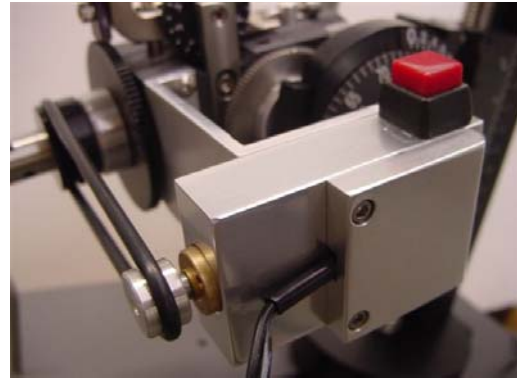
- 2.1b Rotate the Bearing Block so the Quill points up—and back a bit. Thread in the second screw, and tighten it. You are done mounting that assembly.



- 2.2 Mount the driven Pulley onto the Quill. To do that, remove the Dop Retention Knob, so that the Pulley slides past that point, push the Pulley flush to the Index gear Hub, and tighten the set screw that holds the Pulley in position. Re-insert the Dop Retention Knob.

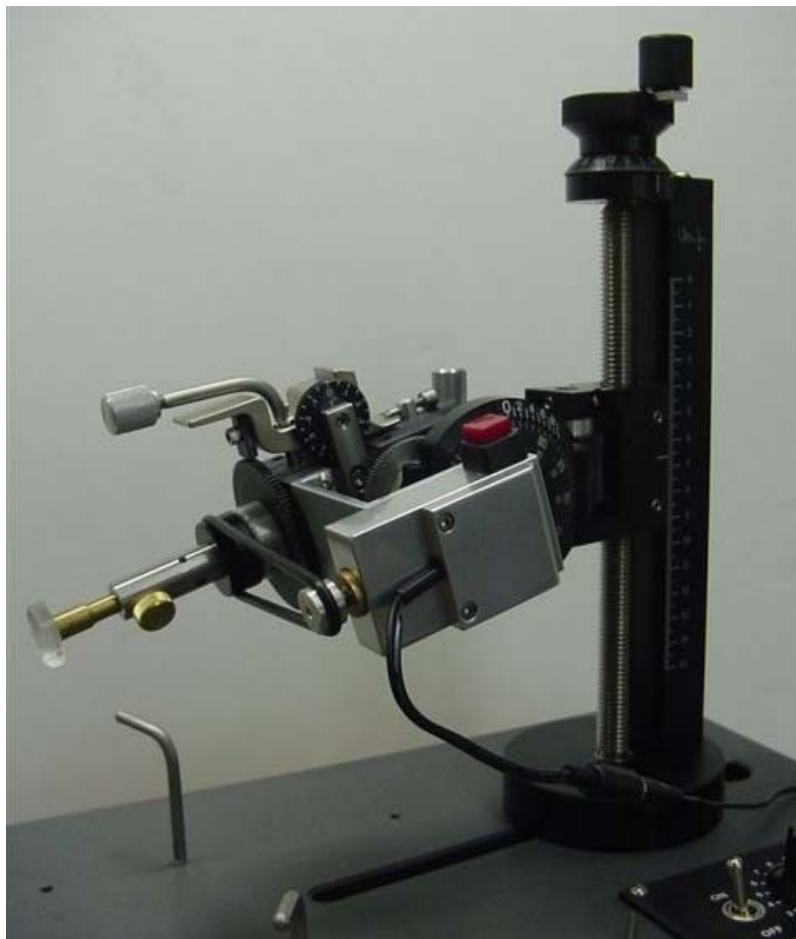


2.3 Assemble the Drive Belt—it will stretch on. You are ready to go.



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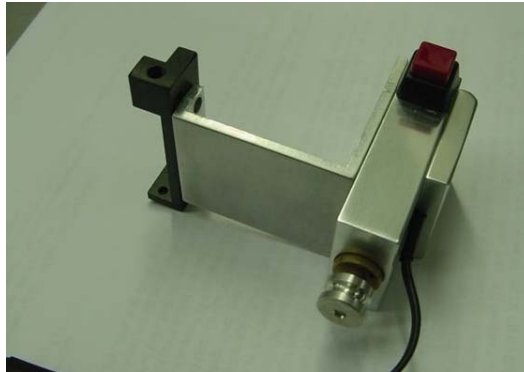
3.0 Here's how it all looks, assembled. Subsequent disassembly is a matter of going through the above 3 steps, backwards.





NOTE 1

No threaded holes in the Main Bearing Block? Older Ultra Tec Masts may not have these threaded mounting holes—in which case there is a Bracket “Adder” that can be used. That may have been discussed at the time of your order, and it has already been included—it’s a sort of self-explanatory device. If you need it, and didn’t get it, contact us and we’ll send it.



The Bracket “Adder” is added to the Bracket—then it clamps slips onto the Main Bearing Block where it is gripped by tightening the set screws in the bottom arm—a “C-clamp” type of gripping.

4.0 USING IT.

Set the Quill into “free-wheeling”.

Connect to the AC/DC Adapter. The red button is an on/off toggle switch.

In regard to the rotational speed, setting the input voltage at 6 VDC provides a good “middle” speed. You can try other inputs, from 3 VDC to 12 VDC—see what “feels best”.

In general, run the direction of the lap into the direction of rotation of the stone.

You can add additional pressure, speeding the removal operation, by attaching the supplied brass weight—it slips onto the Handle, held by a set screw.

It is slow as compared to your performing the operation, but it is very accurate, and you don’t have to be there.

If you have an Automatic Oscillator, use it as the Rotator is in operation. If not, play around with positioning the electrical wire – it doesn’t apply much lateral force, but enough to hold the stone in place against the Lap and keep it from skidding off.

If there is a need to reposition the drive pulley, find the set screw that holds the motor, loosen it, grip the pulley and move it to the desired position, and retighten the set screw (don’t over tighten the set screw—you just need enough force to keep the motor from sliding).

ULTRA TEC

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