# Fabrication of a titanium ring

We will be using a lathe to make a titanium ring. I start it up. To achieve the desired effect, I machine the seat with a carbide cutter. After that, you need to align the ends of the pipe. Do not forget to remove excessive chips now.

Next is to chamfer it. A file will help with this. Now it's time to change the cutter to a chisel. Now it's time to mark out our titanium billet. So, we've got the width of the ring. Now let's start cutting the washer. Remember to check the width of the washer. I'm already checking it. Now, let's cut the washer.

Next, we need to change the tooling on the machine. To do this we use a homemade bronze collet. To make it easier for you to chamfer the titanium billet, I recommend removing it from both sides. This forms the profile of the ring. Now remove the ring from the machine and move it to the jewellery workbench.

To prepare the workbench, I attach the workpiece to the scrap bar. To make it easy for you to mark, use a marker in this process. Take a compass marker with two sharp needles and mark the distance between the two stones. To make your marking clear, let's go over it with a scribe. This makes the next steps in our work easier.

Now we start drilling holes for the stones. Be careful not to go beyond the marked marks. It's good to wax the drill bit so it doesn't overheat. Now change the cutter to a ball cutter. Now it's time to drill the stone seats with the correct diameter. The diameter is determined beforehand.

Now we need a helical cutter with a spiral notch. This will help us shape the prong. The spacing between the prongs should be cut with a slimmer mill. Let's check the quality of the seat. It's OK.

Next, a pneumatic scraper will help us. We use it to cut lines along the ring. This is how we shaped the mirror and the prong for the side stones. Now let's carefully clean all the corners.

It's time to choose the right size and color stone. Carefully check the dimensions. Take the time to choose a harmonious color for the stone. Carefully place the stone in the seat and press it in place using a root ball and a pneumatic scraper. You may now consider that the ring is fully set. Be sure to check the quality of the stone setting.

Let's start polishing our ring. A soft brush and a special polishing paste are good for this. Polish the piece with careful movements. After polishing, we send our ring into an ultrasonic bath. Here are ring awaits a solution with the addition of ammonia.

Next, we begin the process of anodizing the ring. To do this, take the power supply and adjust the required voltage. Now dip the anode into the acid solution and turn on the power supply. Dip the ring into the solution and switch on the DC. As a result, we get a new layer of blue color on the titanium surface. Our ring is now ready.

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