Home steam powered electric generator

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First Thank you for reading my instructable. This is a work in progress, I will be adding more and more to this instructable on how to build a steam driven turbine and power plant for your home. As always if you find any typo"s or any mistakes please let me know there is a lot of information I am going to throw your way. So lets get started.

just below the alternator portion on the right you can see the pressure sensor and oil filter setup, I use a standard automotive sending unit to give me my oil pressure more on that later. In the following steps I will show you more detail for the components of the system.

This is my design I was inspired by an a similar invention by Tesla. His however had issues. I made some changes and improvements and what you see here is the first layout of my design.

In this picture you can see the major parts of the alternator and housing on the workbench the large steel drum is the housing for the alternator. Behind this with the blue tape is the alternator assembly, shaft, and cartridge with seals . this simply slides into the housing and is fit with friction the bearings are in the front of this housing you can see the dome on top of the drum this is where the hydrostatic bearing is inserted from the inside. there are drilled holes in the housing that allow for oil to enter the bearing system.

Here in this picture you can see a closeup of my high preasure line. This is stainless steel construction, braided with a quick disconnect at the turbine input. this line is about 10 feet long and is run from my steam generator. The burst rating of this line is over 10,000 Psi. high temp over 700 degrees. Very strong and durable stuff. I don"t want to have deadly steam excape and cut me in half while admiring my work. So I overbuilt this system.

In this photo you can see my oil cooling radiator. this was used to cool oil. It came from an old trucks automatic transmission the fan is located at the rear. I will add a picture of that once I retake them.

Here is this picture you can see the Main pump motor and oil tank for the turbine. Oil is used to lubricate the front hydrostatic bearing and also to keep the alternator cool. There is a mass of hoses and supply and return lines that go into and out of this tank. The second picture shows some of the lines running back and forth from tank to the turbine and the radiator or heat exchanger which you can just make out in this picture.

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