**Modeling vertical steam engine**

Vertical steam engine is a steam engine used in marine ships. Because it is simpler, more efficient and more easily maintained designs. The result was the growing dominance of the so-called "vertical" engine more correctly known as the vertical inverted direct acting engine.

In this type of engine, the cylinders are located directly above the crankshaft, with the connecting rod assemblies forming a more or less straight line between the two. The configuration is similar to that of a modern internal combustion engine.

When steam enters, piston reciprocates up and down, Due to pressure of steam. While by movement of piston, connecting rods which can revolve the fly wheel at speed. Which convert kinetic energy of steam pressure into mechanical energy.

In this project we design the model of vertical steam engine its parts and assemble the parts of vertical axis steam engine