**Modeling of a turbo charger**

**Abstract:**

Turbochargers were originally known as turbo superchargers when all [forced induction](http://en.wikipedia.org/wiki/Forced_induction) devices were classified as superchargers. The turbocharger is used to increase engine power. In order to obtain more power from the engine, a new and larger turbocharger is being used. The new turbocharger is coupled to an air-water inter cooling system to decrease the inlet air temperatures. Turbochargers are commonly used on truck, car, train, aircraft, and construction equipment engines. They are most often used with [Otto cycle](http://en.wikipedia.org/wiki/Otto_cycle) and [Diesel cycle](http://en.wikipedia.org/wiki/Diesel_cycle) [internal combustion engines](http://en.wikipedia.org/wiki/Internal_combustion_engines).

In this project we design the generate the model of turbo charger by using solid works premium soft ware.