



LESSON-2

ON

**DIFFERENCE BETWEEN
GOVERNOR & FLYWHEEL**

FROM

THEORY OF MACHINE

DIFFERENCE BETWEEN GOVERNOR & FLYWHEEL

GOVERNOR

- Governor controls the variation of speed caused by load variation.
- It work only when the load changes.
- Its run when the engine is not running at the mean speed.
- Governor is required in all the engines.
- It is speed control device that control speed variation caused due to varying load.

FLYWHEEL

- Flywheel regulates the variation of speed at crankshaft
- It work continuously from cycle to cycle.
- Its run with the engine continually.
- It is a heavy rotating wheel that reduce the jerk due to unavoidable fluctuation of speed

DIFFERENCE BETWEEN GOVERNOR & FLYWHEEL

GOVERNOR

- It is a non-rotating component.
- . Governor is a lighter in weight than flywheel.
- It controls the fuel supply.
- In case of governor the inertia is very small.
- Speed control over a period of time.

FLYWHEEL

- It is a rotating component.
- In a machine flywheel is a heavy part.
- It doesn't control the fuel supply.
- In case of flywheel the moment of inertia is very high.
- Speed control in a single cycle.

DIFFERENCE BETWEEN GOVERNOR & FLYWHEEL

GOVERNOR

- The application of governor is engine and turbines.
- The governor has no influence on the cyclic speed fluctuation.
- The governor control the variation of load upon the engine and maintain the uniform speed.

FLYWHEEL

- The application of the flywheel is rolling mills, punching and shearing machine etc.
- The flywheel has no influence on the mean speed of the engine.
- The flywheel store the energy and release the energy to the engine when it is required.

DIFFERENCE BETWEEN GOVERNOR & FLYWHEEL

GOVERNOR

- The governor different parts are made of different materials like
 - 1.Spindle -stainless steel
 - 2.Sleeve and Head- Bronze
 - 3.Base- Iron
 - 4.Pin & Bushes- composition of PTFE-Based Metal-Polymer Materials &Thermoplastic-Based Metal-Polymer Materials.

FLYWHEEL

- flywheel made up of cast iron has more mass for same values of energy storage compared with all other materials. it is because of high density and less strength of cast iron. it is followed by, steel and e-glass fibre composite.

DIFFERENCE BETWEEN GOVERNOR & FLYWHEEL

GOVERNOR

- It is linked with carburettor's throttle shaft.
- Governor controls air , liquid flow to motor to retard revs of motor and top end speed .

FLYWHEEL

- It is linked with crank shaft.
- Fly wheel gives balance and inertia to the motor.

THANKS FOR WATCHING VIDEO