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*“If there is no
struggle, there is no
progress.”—
Frederick Douglass*

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Index :-

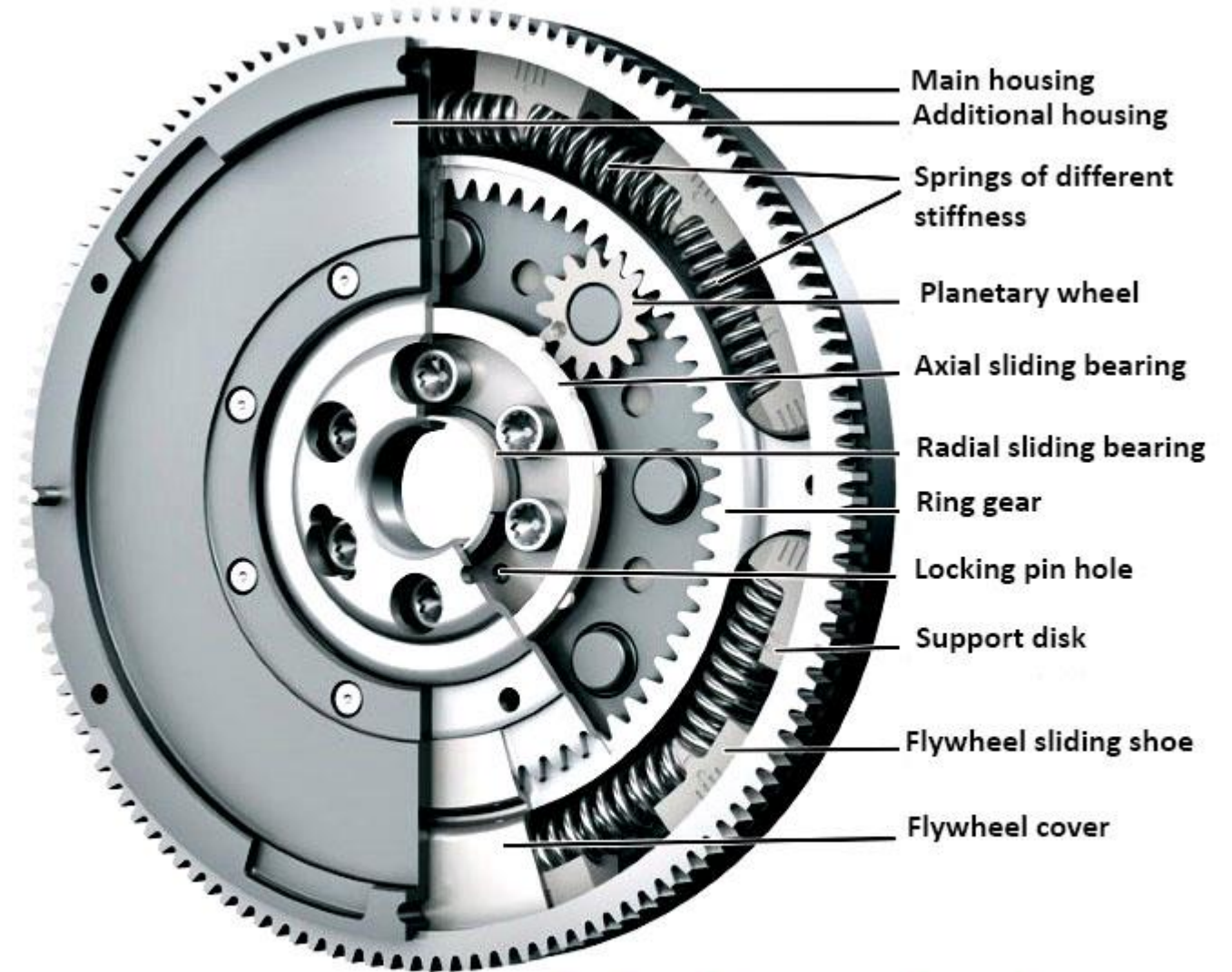
TOM – Theory of Machine

- 1) Flywheel
- 2) IC Engine
- 3) Need of Flywheel in ICE
- 4) Torque
- 5) Turning Moment Diagram

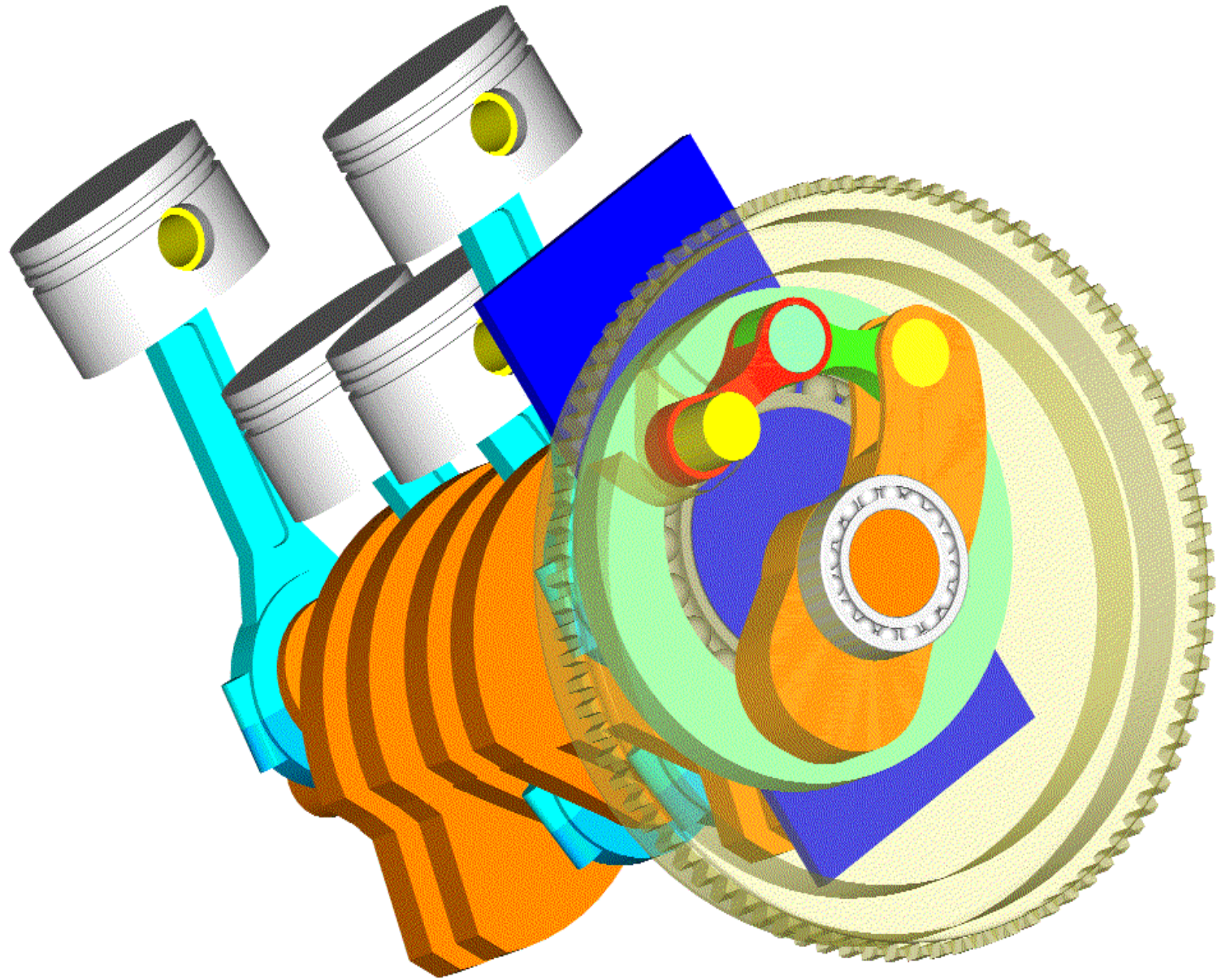
1-2 marks from these Topic

Flywheel:-

A flywheel is a mechanical device which uses the conservation of angular momentum to store rotational energy; a form of kinetic energy proportional to the product of its moment of inertia and the square of its rotational speed

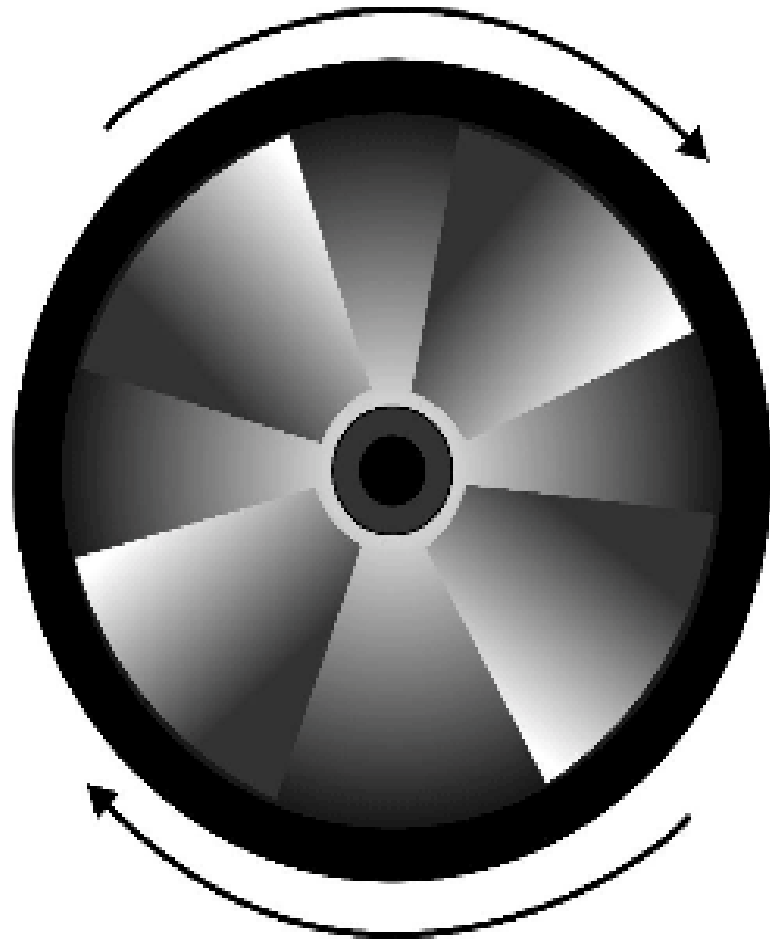


FLYWHEEL CONSTRUCTION

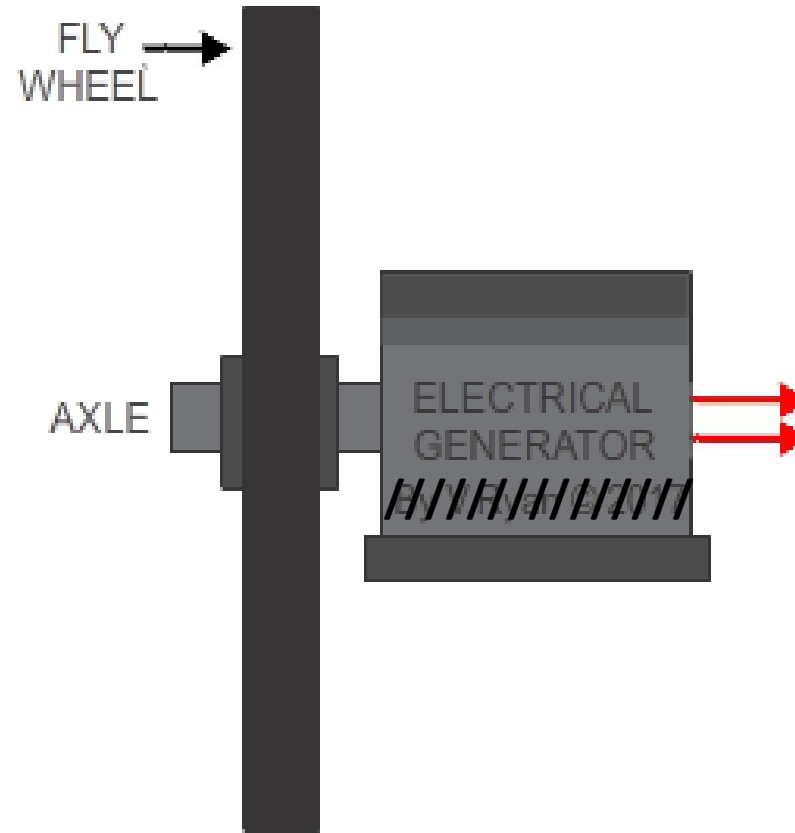


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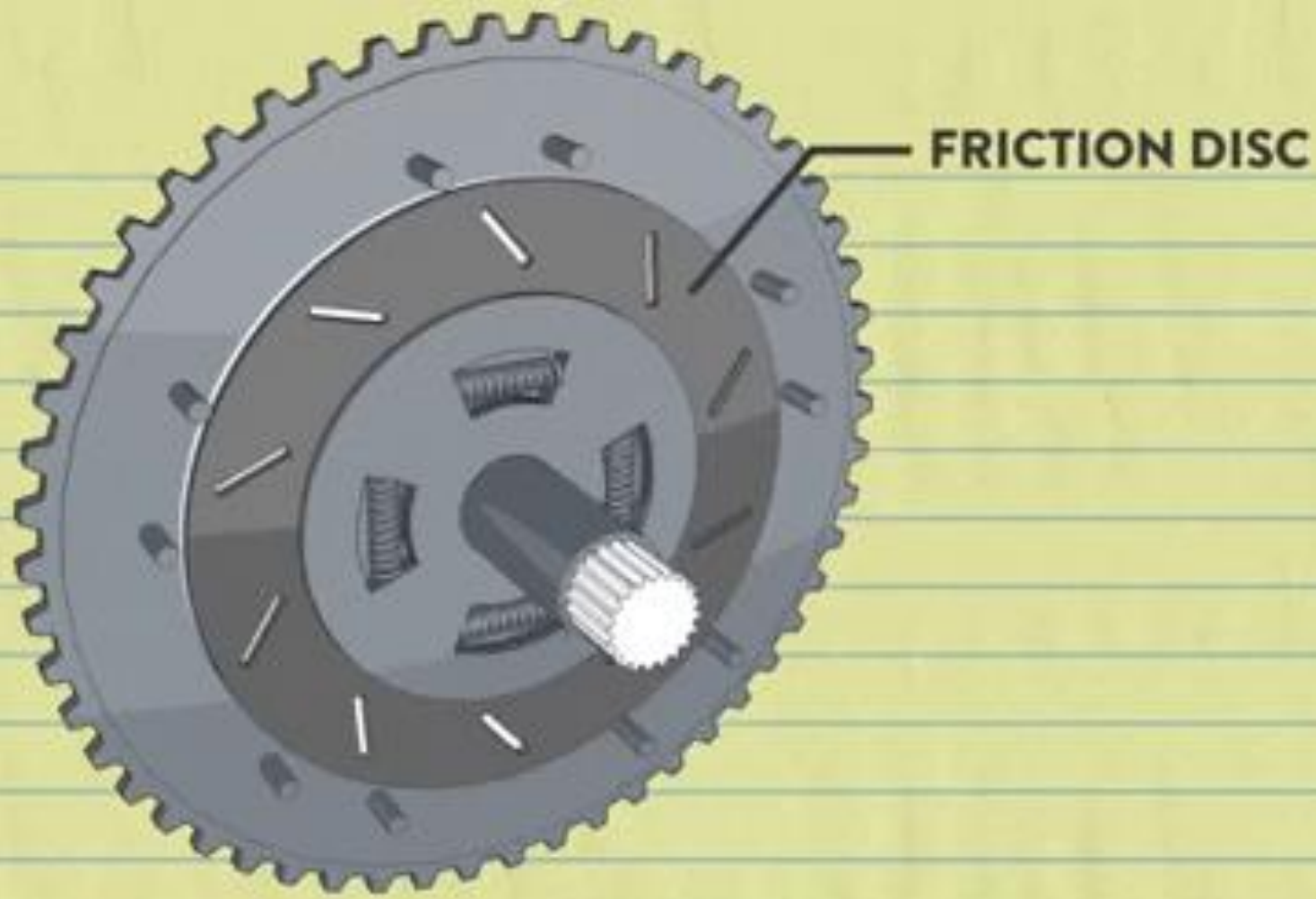
FRONT VIEW



SIDE VIEW



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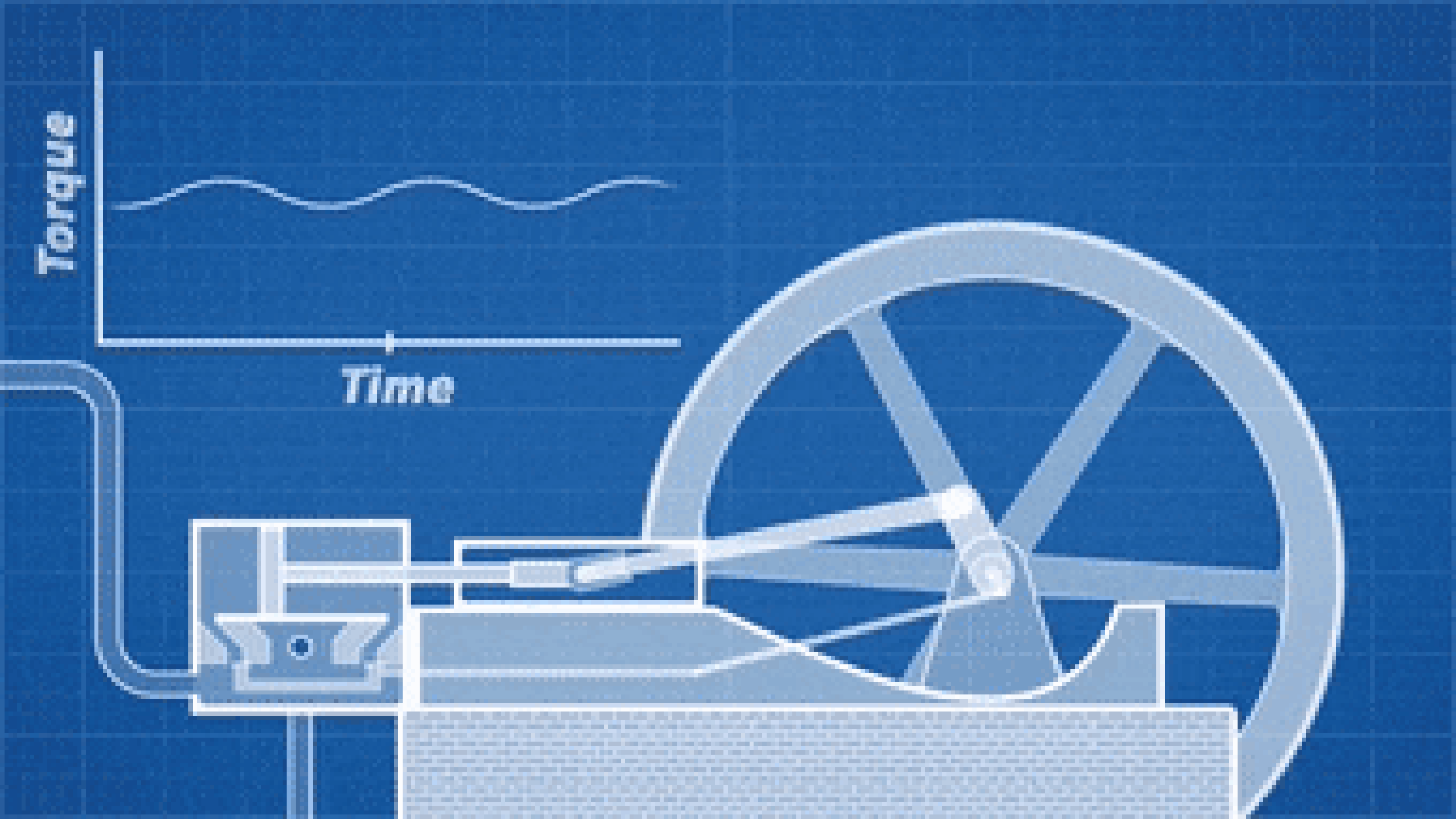


Functions

- To store and release energy when needed during the work cycle
- To reduce the power capacity of electric motor
- To reduce the amplitude of speed fluctuations.

Flywheel

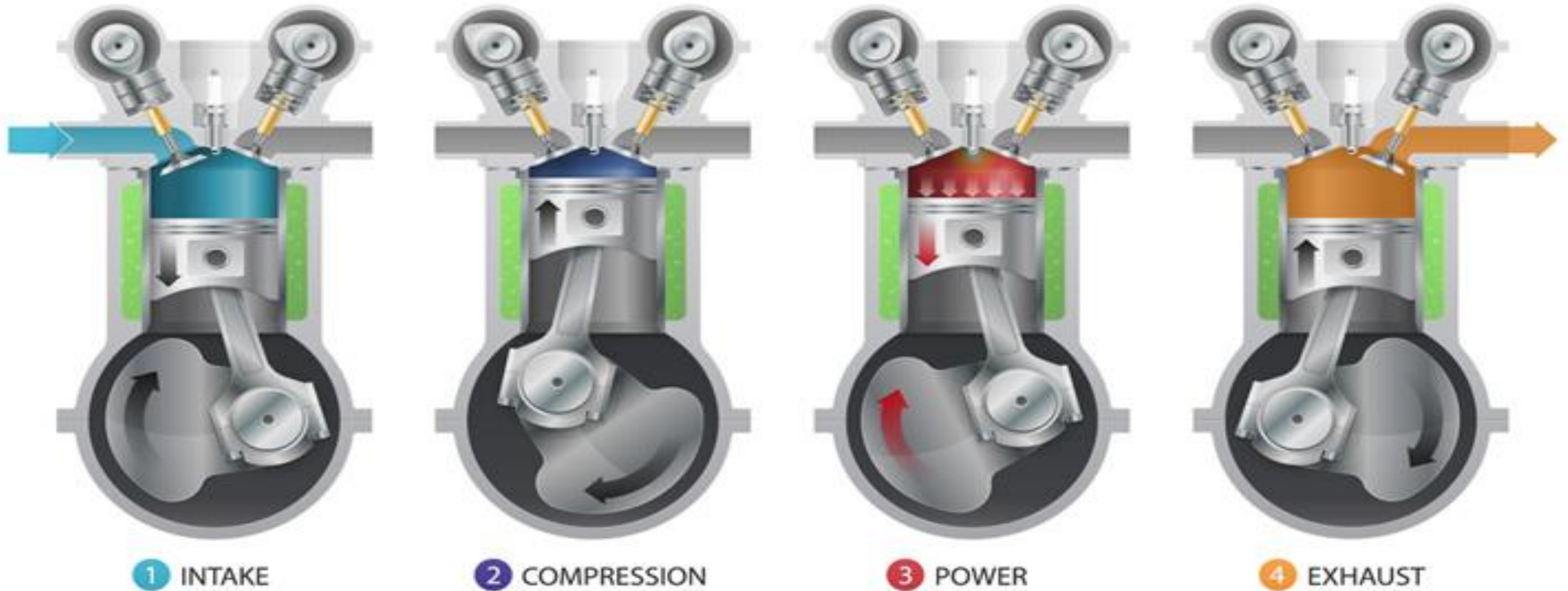
- A rotating mechanical device that is used to store rotational energy,
- A flywheel is used in machines , serves as a reservoir which stores energy during the period where the supply of energy is more than the requirement.
- Conversely, a flywheel releases stored energy by applying torque to a mechanical load, thereby decreasing the flywheel's rotational speed.



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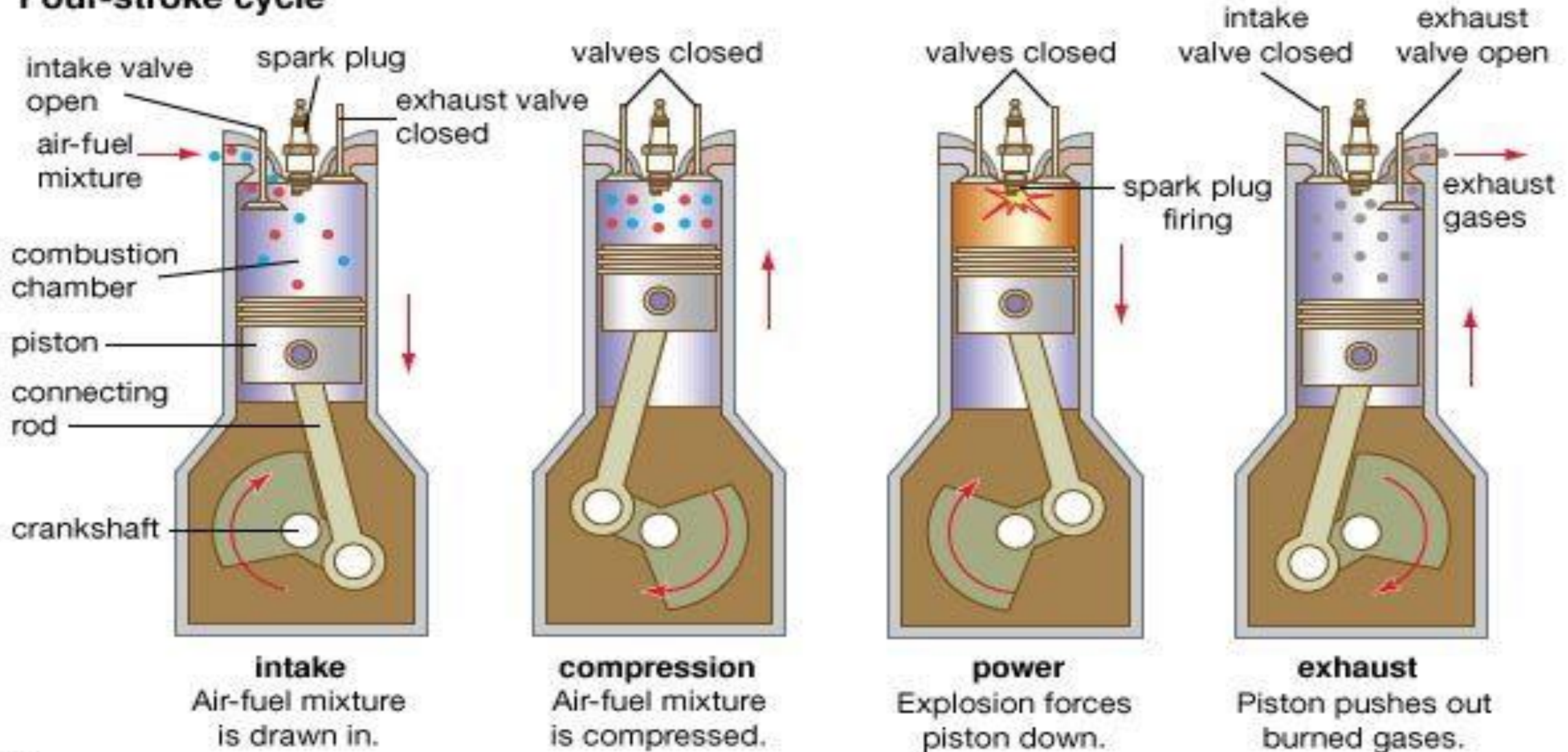
4-STROKE CYCLE ENGINE

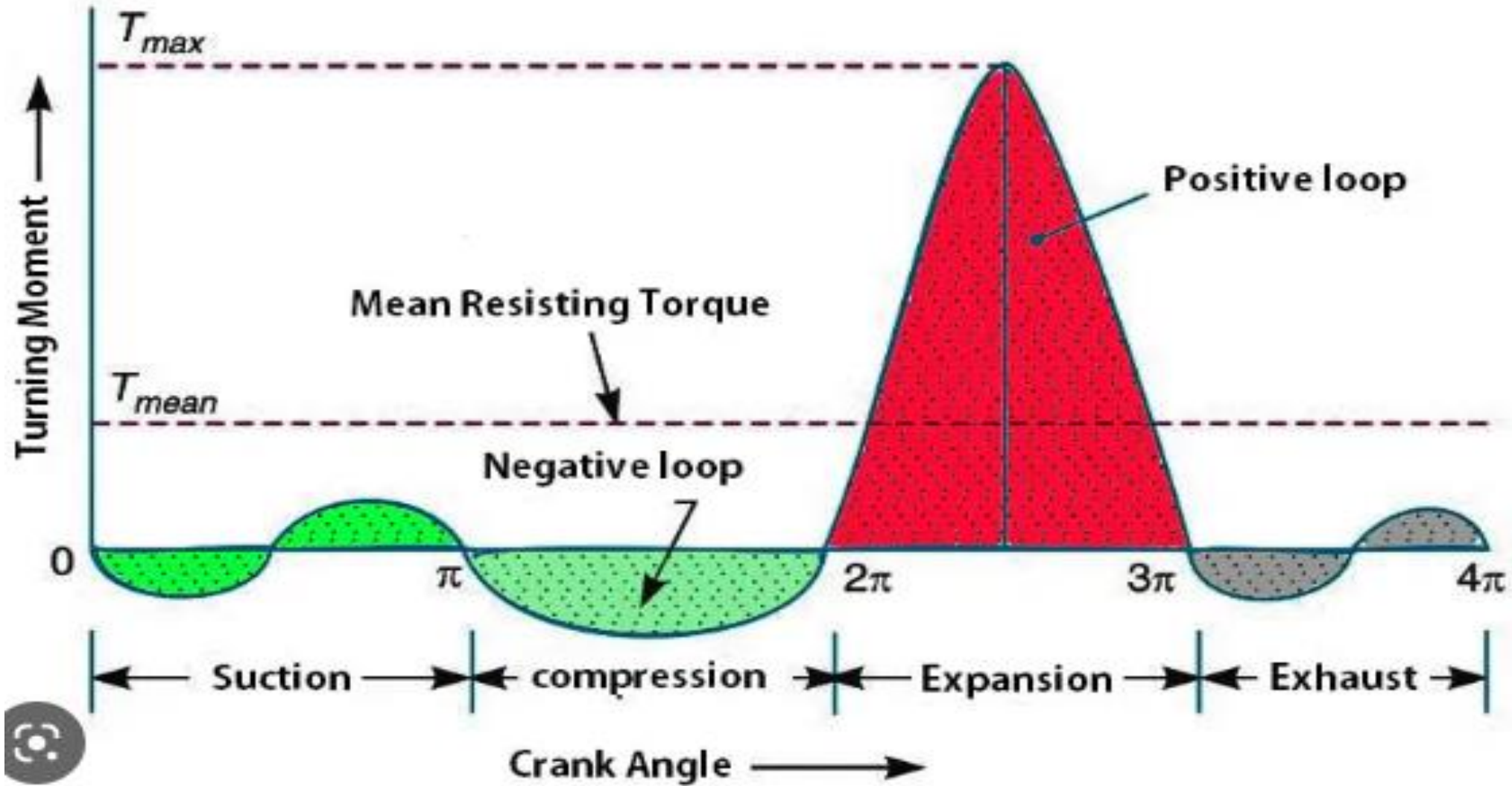


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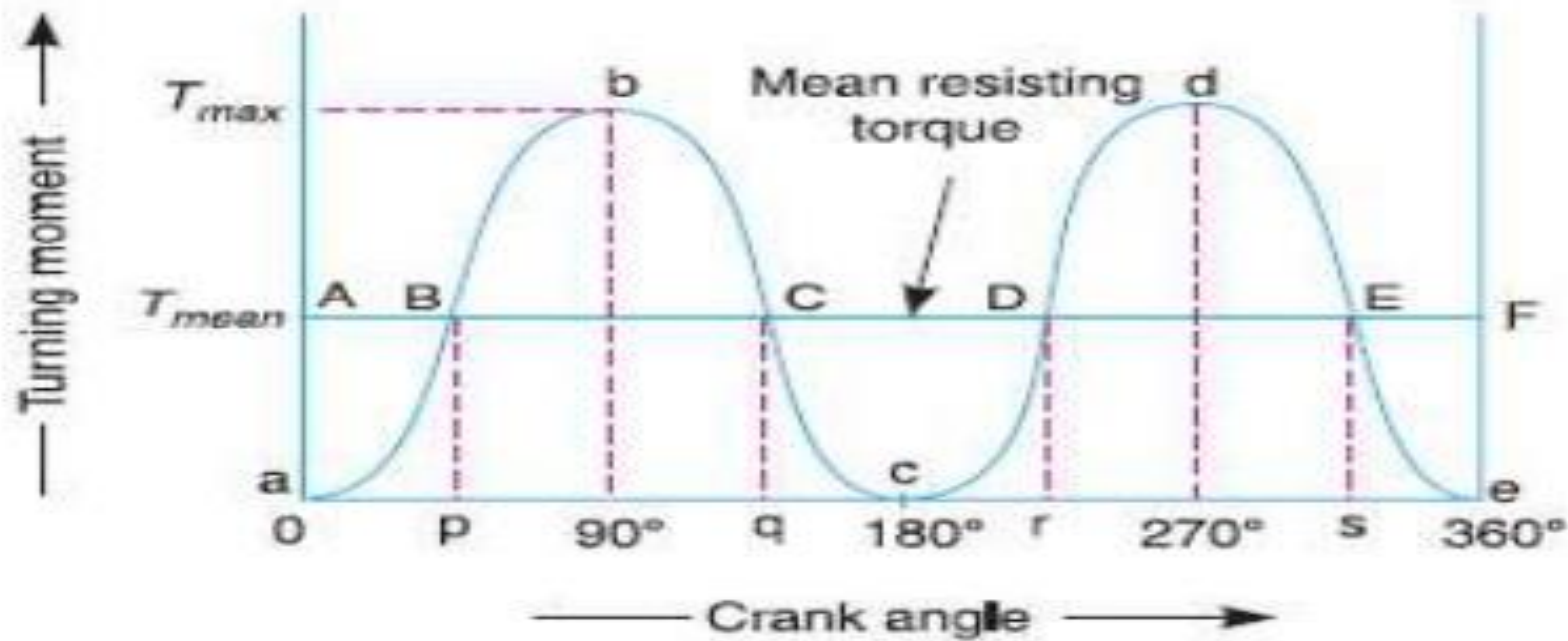


Four-stroke cycle





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Turning moment diagram for a single cylinder, double acting steam engine.

F_p = Piston effort,

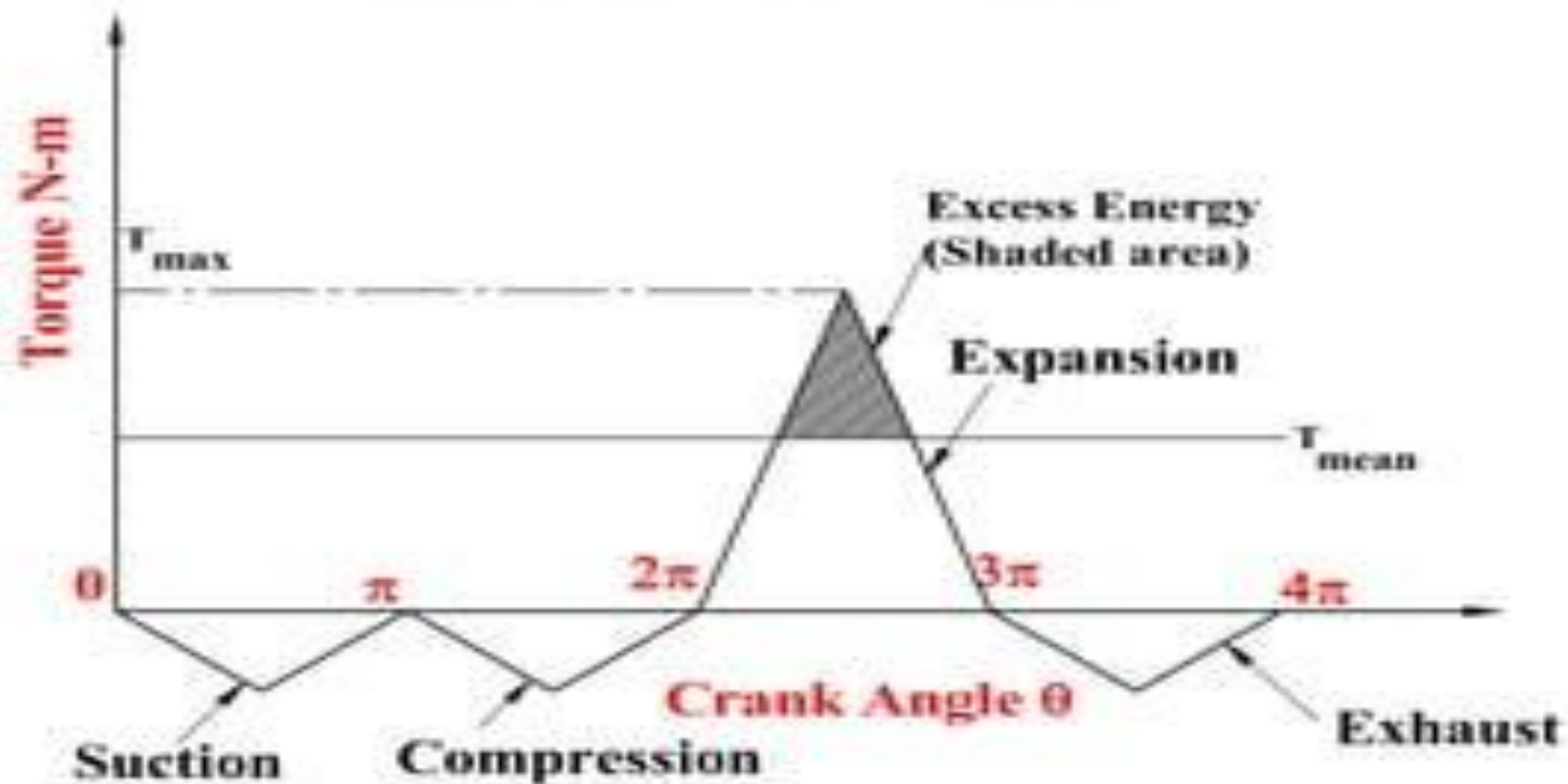
r = Radius of crank,

n = Ratio of the connecting rod length and radius of crank, and

θ = Angle turned by the crank from inner dead centre.

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Turning Moment (Crank Effort) Diagram for a 4-stroke I C engine



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