Catalog

RAMA UNIVERSITY

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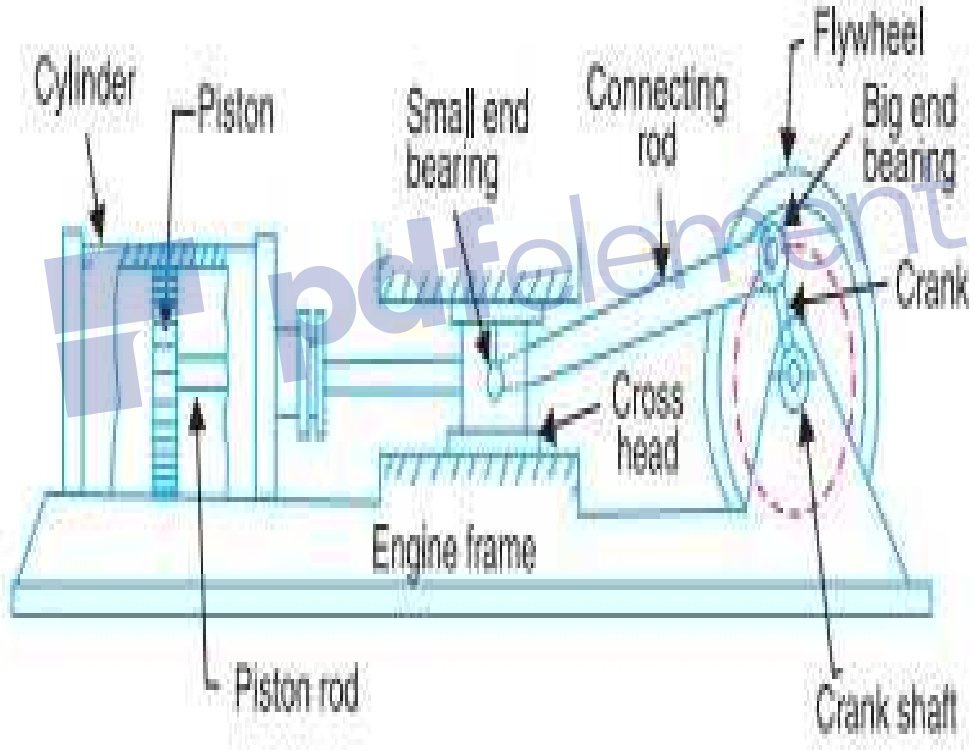
FACULTY OF ENGINEERING & TECHNOLOGY

Kinematic Link or Element

Each part of a machine, which moves relative to some other part, is known as a kinematic link (or simply link) or element.

A link may consist of several parts, which are rigidly fastened together, so that they do not move relative to one another



Types of Links :

1. **Rigid link.** A rigid link is one which does not undergo any deformation while transmitting motion. Strictly speaking, rigid links do not exist. However, as the deformation of a connecting rod, crank etc. of a reciprocating steam engine is not appreciable, they can be considered as rigid links.

2. Flexible link.

A flexible link is one which is partly deformed in a manner not to affect the transmission of motion.

For example, belts, ropes, chains and wires are flexible links and transmit tensile forces only.

3. Fluid link.

A fluid link is one which is formed by having a fluid in a receptacle and the motion is transmitted through the fluid by pressure or compression only, as in the case of hydraulic presses, jacks and brakes.