

INTERNAL COMBUSTION ENGINE (ICE)

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Lecturer,

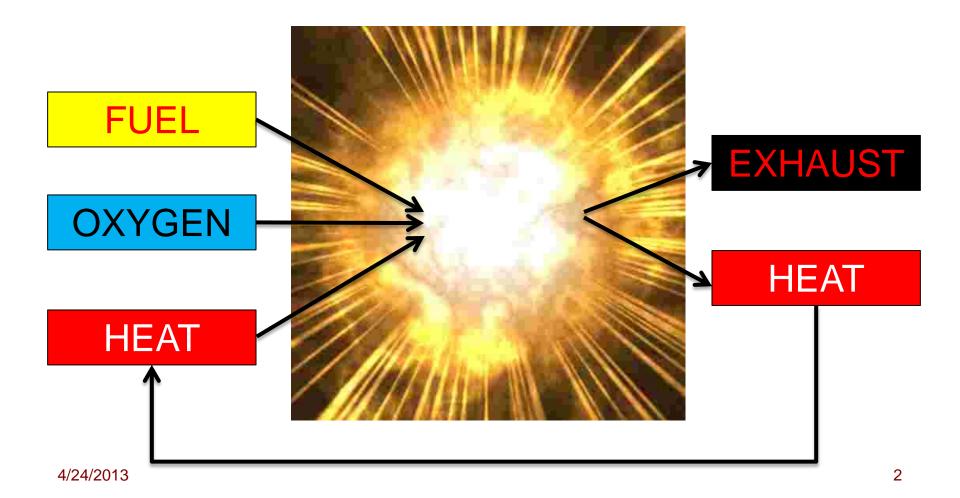
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Internal Combustion Engine

What does *Combustion* signifies?





Internal Combustion Engine

Internal Combustion Engine





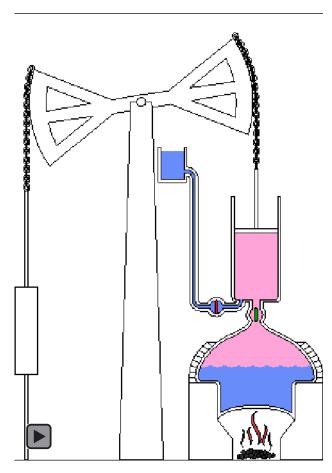






Internal Combustion Engine

External Combustion Engine





Applications of ICE

- Automobiles
- Trucks
- Locomotive
- Aircraft
- Marine
- Power Generation









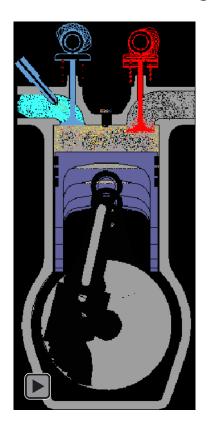




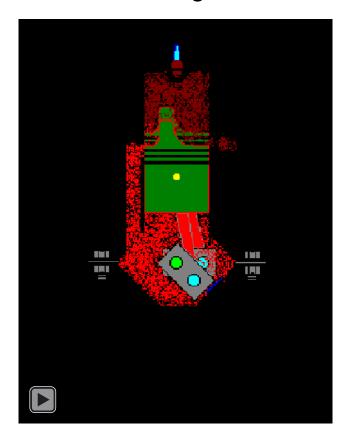


Classifications

Four Stroke Engine



Two Stroke Engine





Classifications (contd.)

Spark Ignition Engine

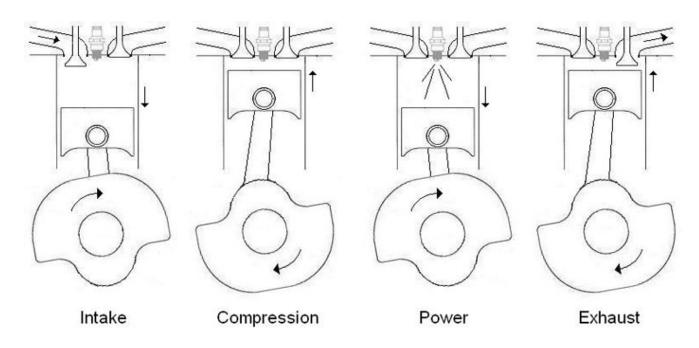


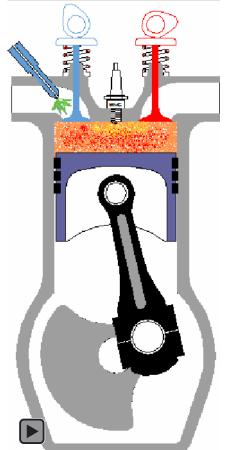
Compression Ignition Engine





Four Stroke SI Engine

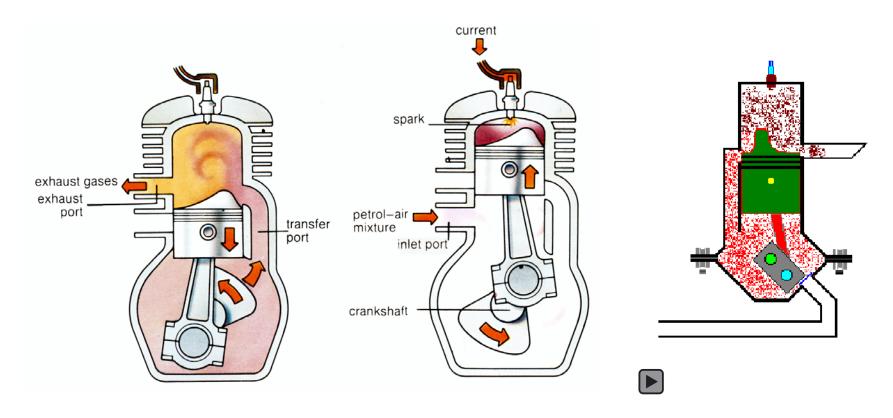




- 1. Intake Stroke
- 2. Compression Stroke
- 3. Power Stroke
- 4. Exhaust Stroke



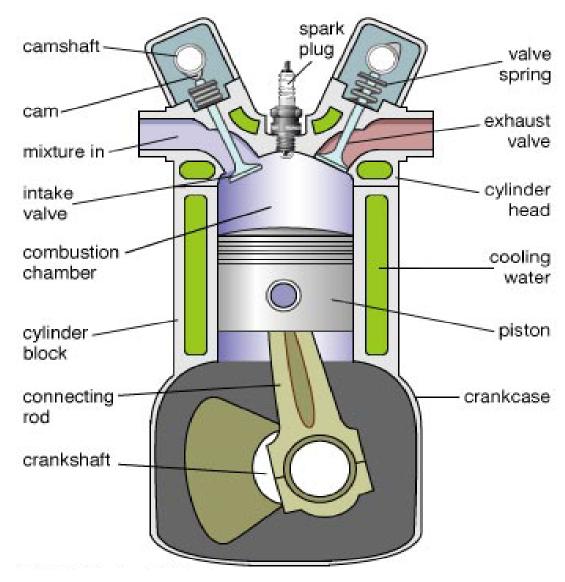
Two Stroke SI Engine



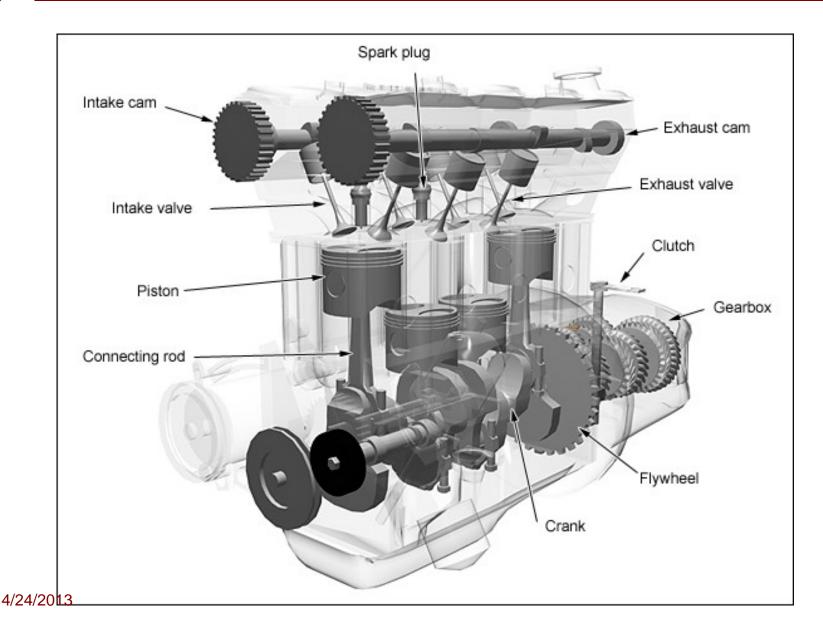
- 1. Compression Stroke
- 2. Power Stroke



Basic Engine Component



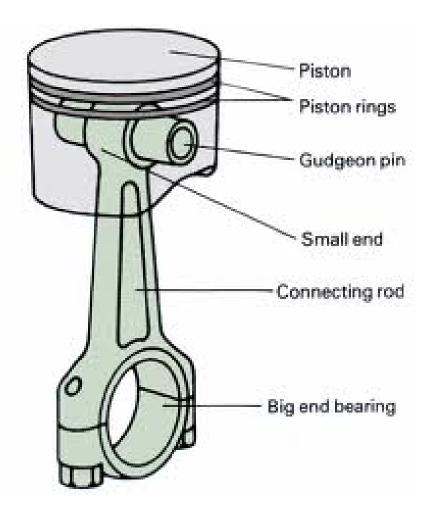




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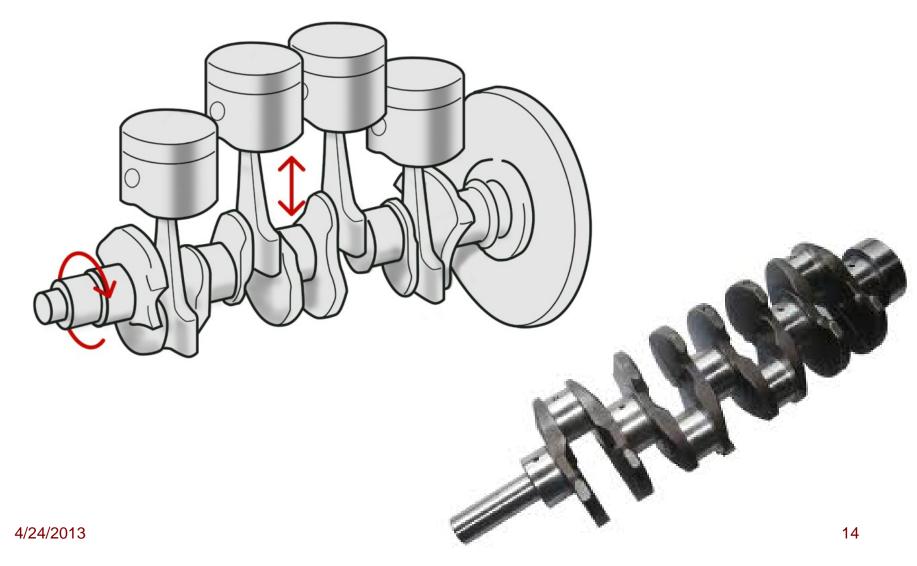


Piston and Connecting Rod



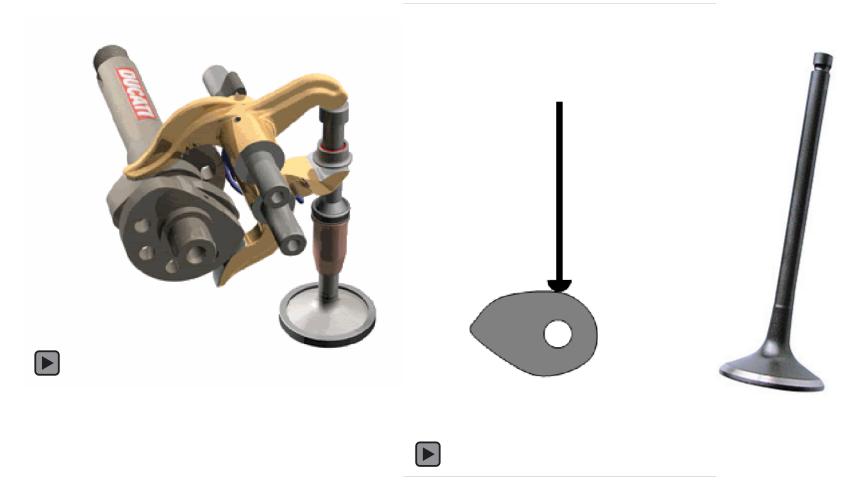


Crankshaft





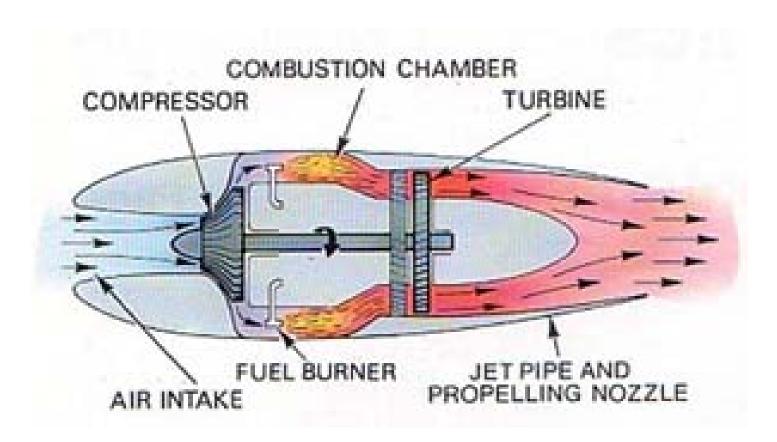
Cam, Rocker Arm & Valve





Other Type of ICEs

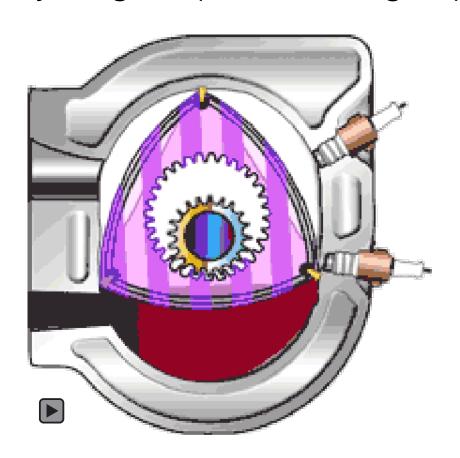
Gas Turbine





Other Type of ICEs

Rotary Engine (Wankel Engine)

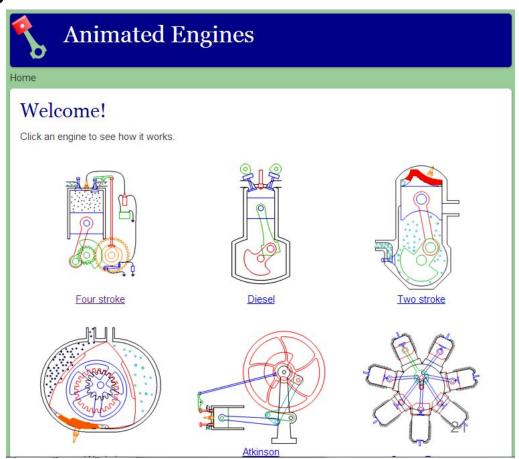




Resources

Websites:

http://www.animatedengines.com/





THANK YOU