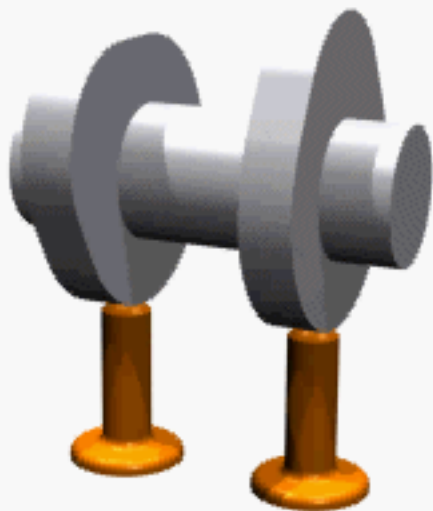






How to open the valves at the right time





carmscraft

Cam shafts

Crank shaft

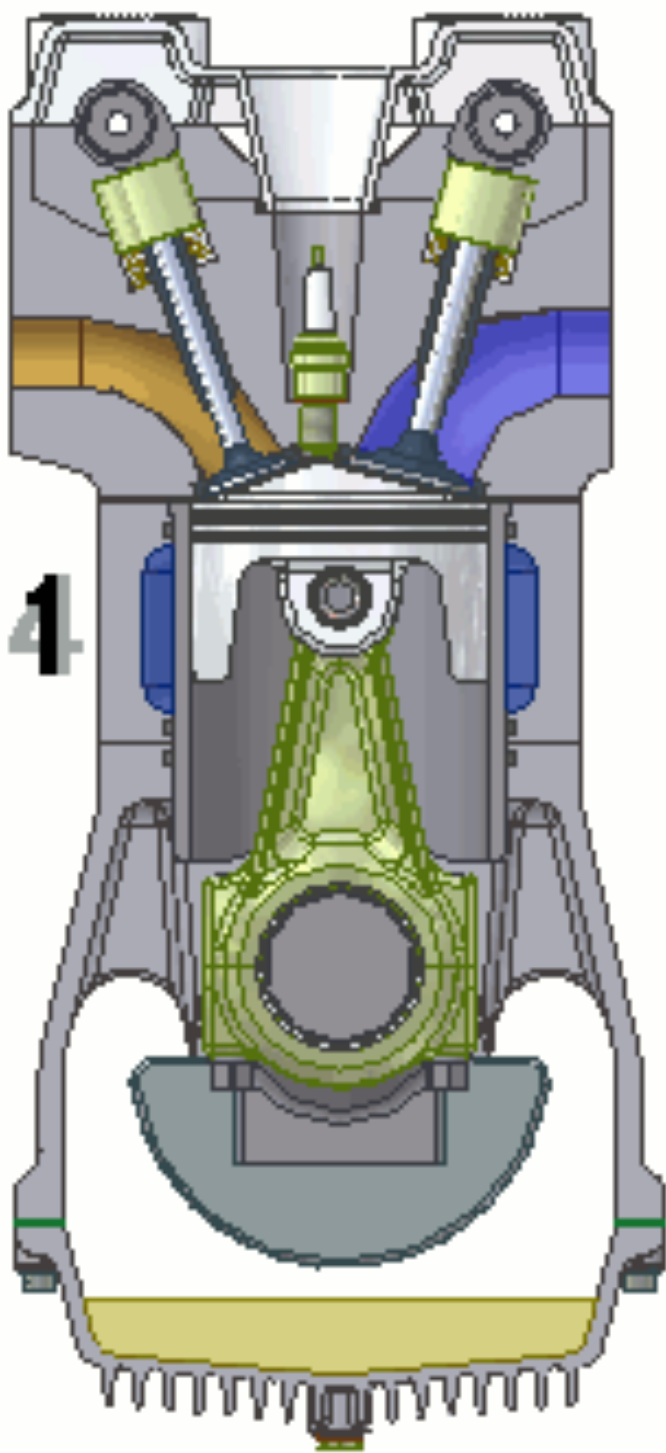


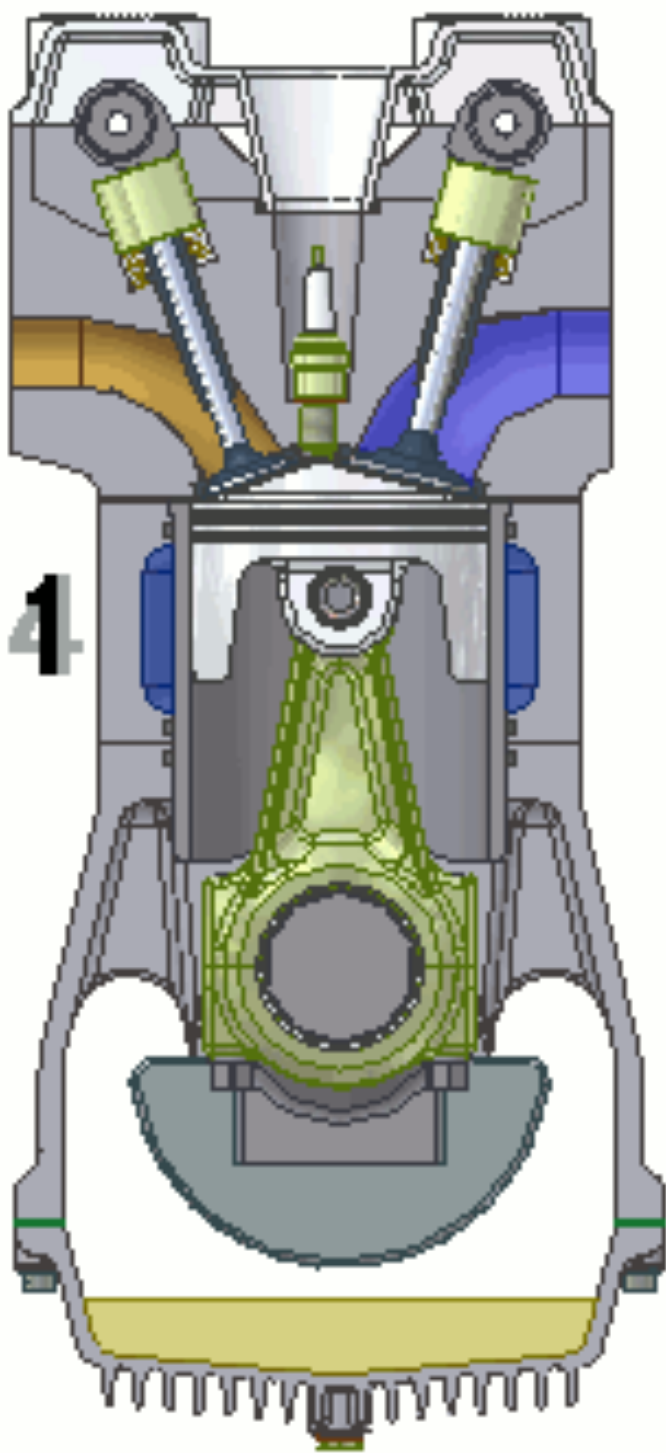
Timing belt

cam shaft

Crank

the belt keeps the chain and the crank in synch





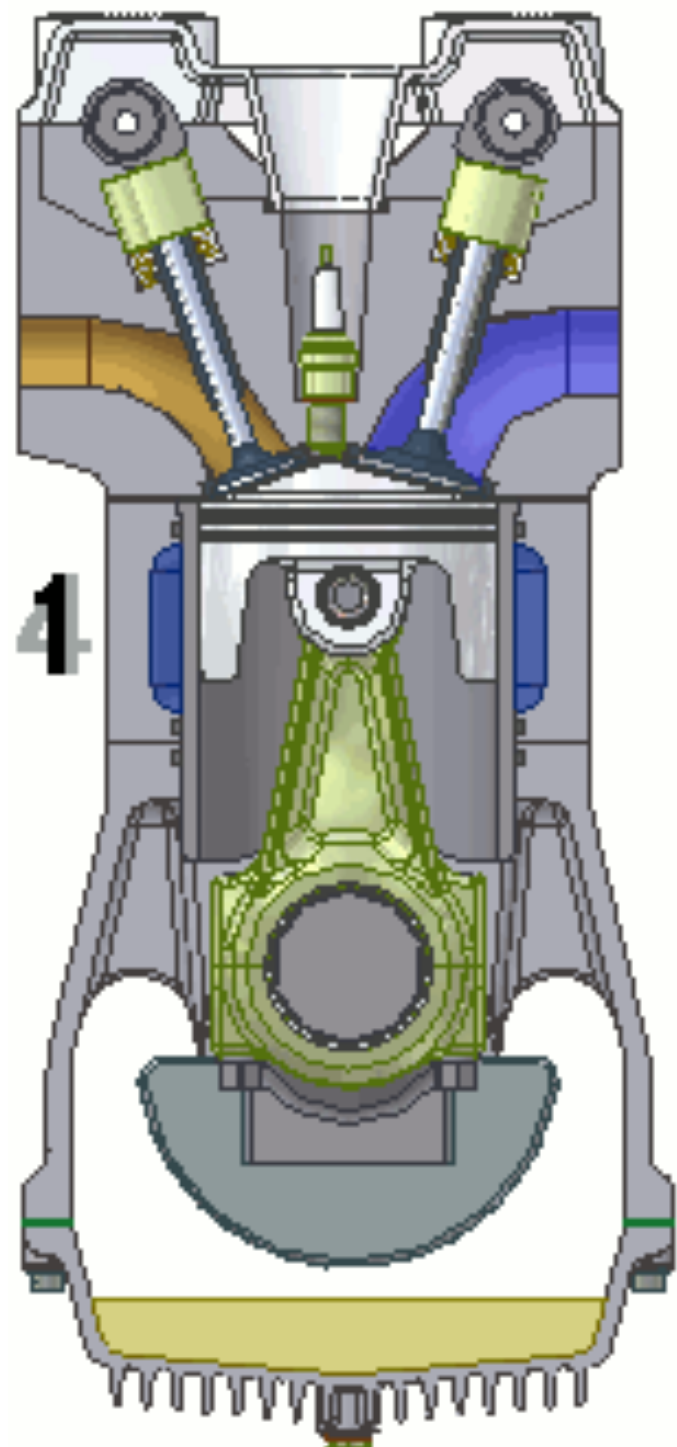
# How to open up the valves at the right time

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Cam shaft



Cam shafts



Crank shaft

cam shaft

Crank

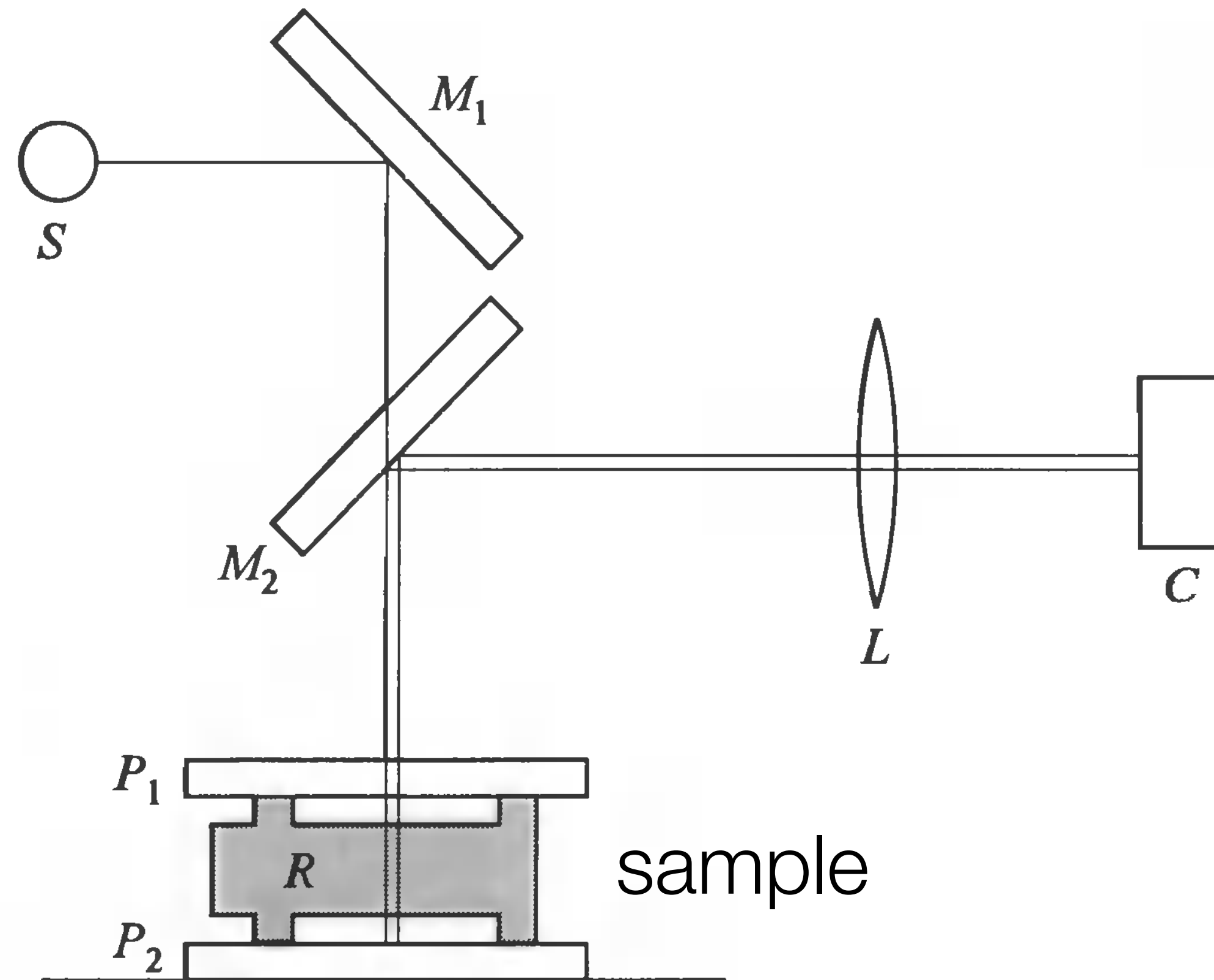
Timing belt



the belt keeps the cam and the crank in synch

# Measuring the change in volume with temperature, $\beta_p$ , in solids

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$$\beta_p = \frac{1}{V} \left( \frac{\partial V}{\partial T} \right)_p$$

As the system expands can measure how the interference pattern changes