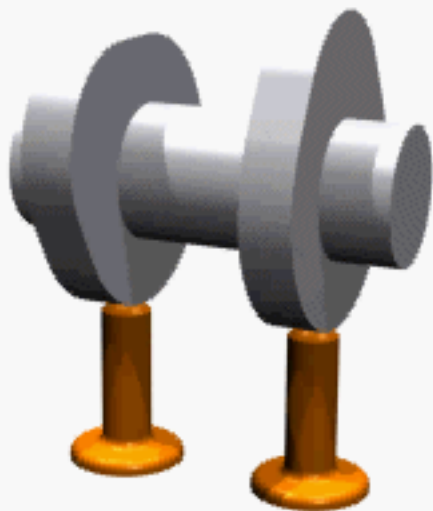


How to open the valves at the right time





carmscraft

Cam shafts

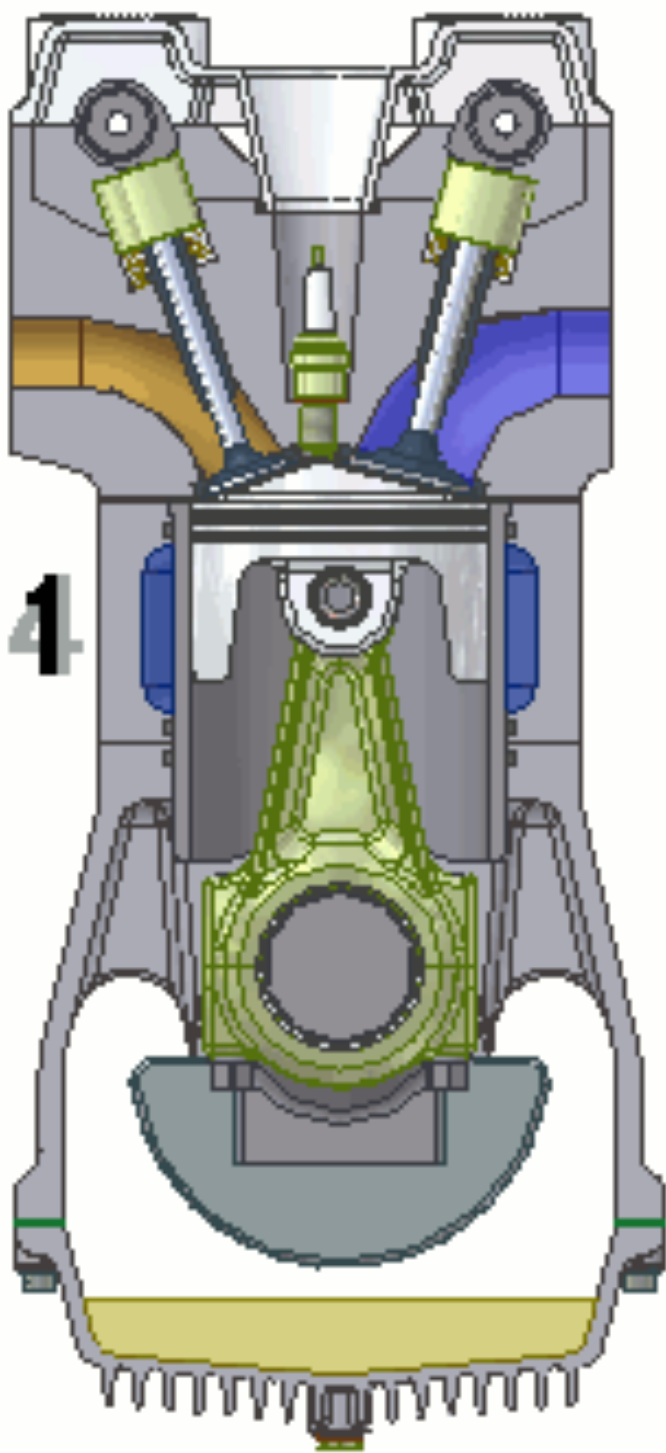
Crank shaft

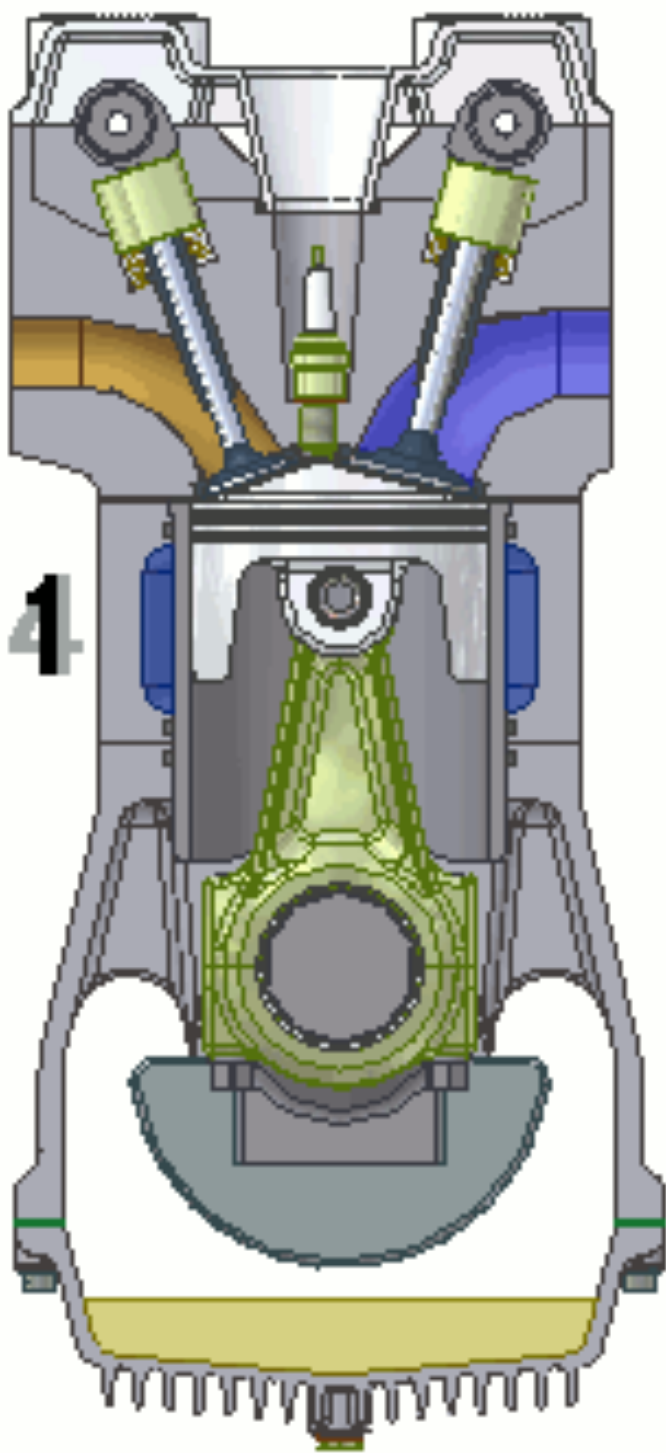
Timing belt

cam shaft

Crank

the belt keeps the chain and the crank in synch



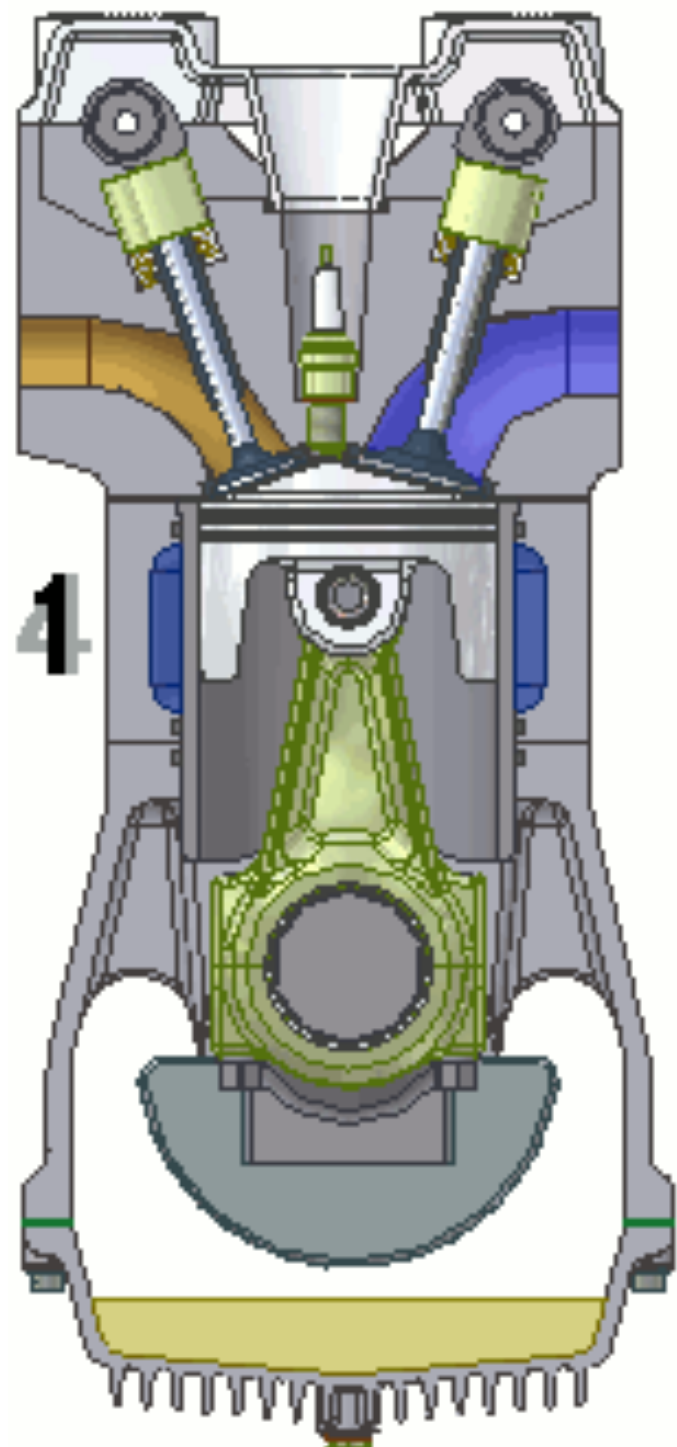


How to open up the valves at the right time

Cam shaft



Cam shafts



Crank shaft

cam shaft

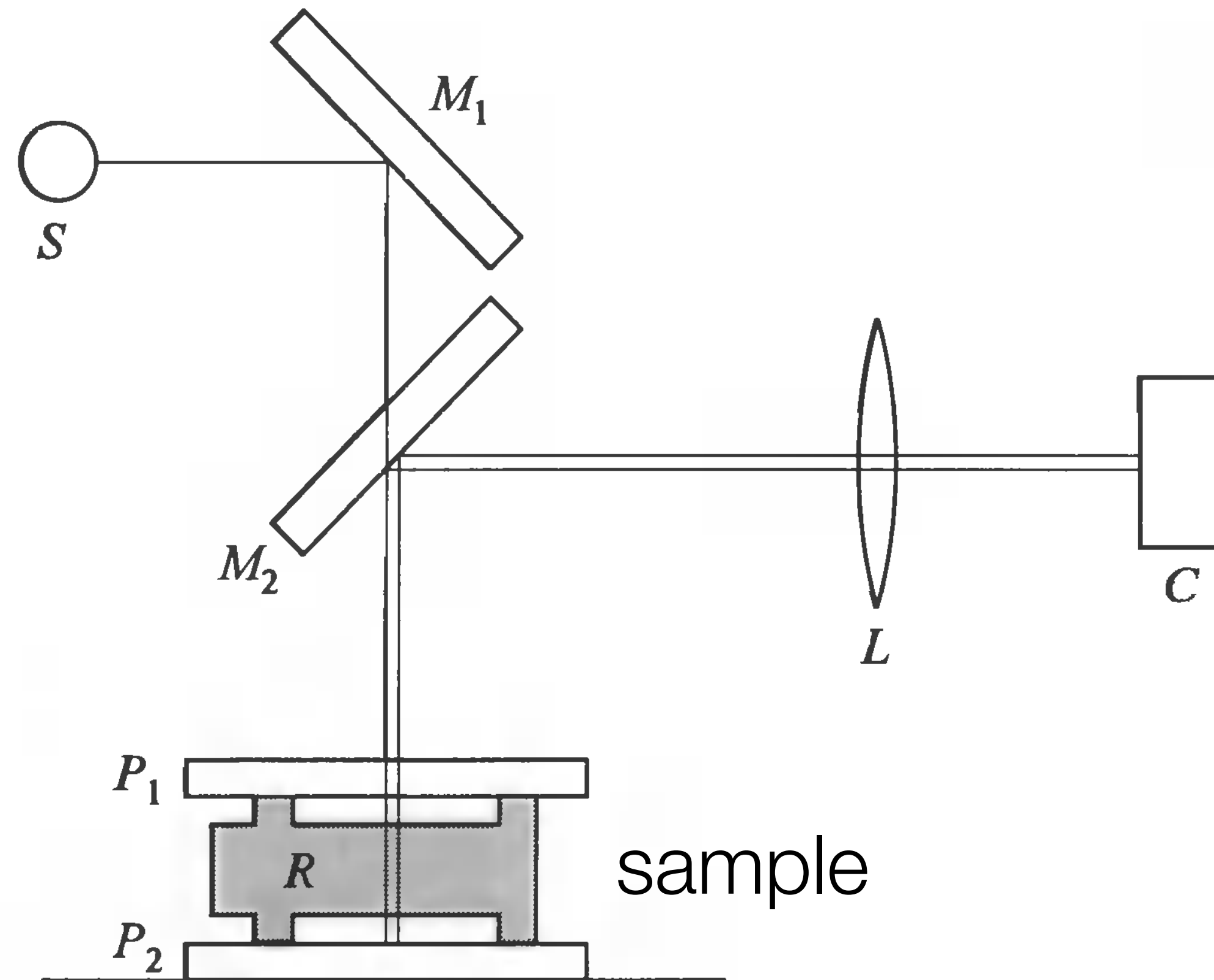
Crank

Timing belt



the belt keeps the cam and the crank in synch

Measuring the change in volume with temperature, β_p , in solids



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

As the system expands can measure how the interference pattern changes