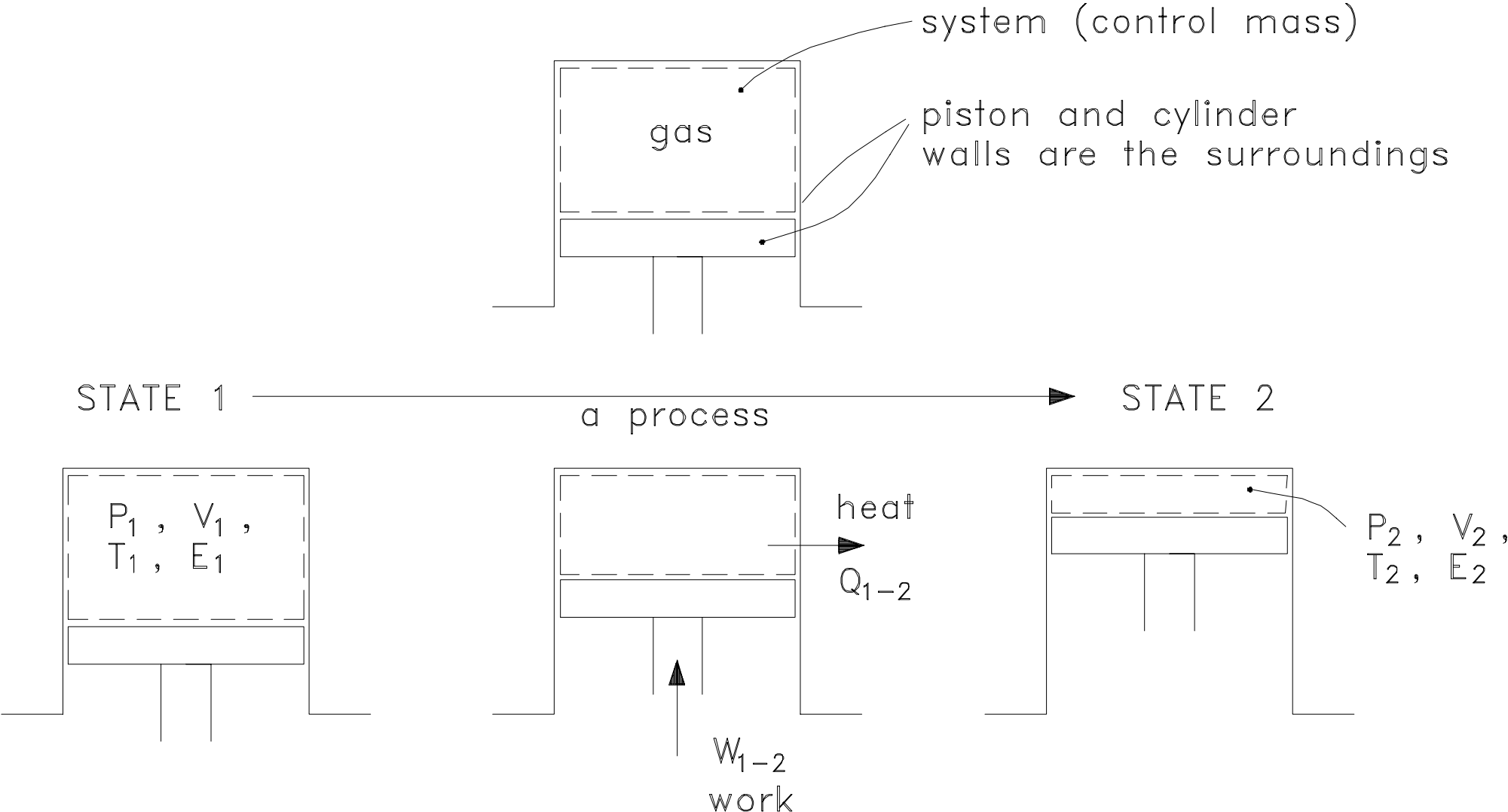
system (control mass)
gas
piston and cylinder
walls are the surroundings
STATE 1
a process
STATE 2
P1 , V1 ,
T1 , E1
heat
Q1−2
W1−2
work
P2 , V2 ,
T2 , E2