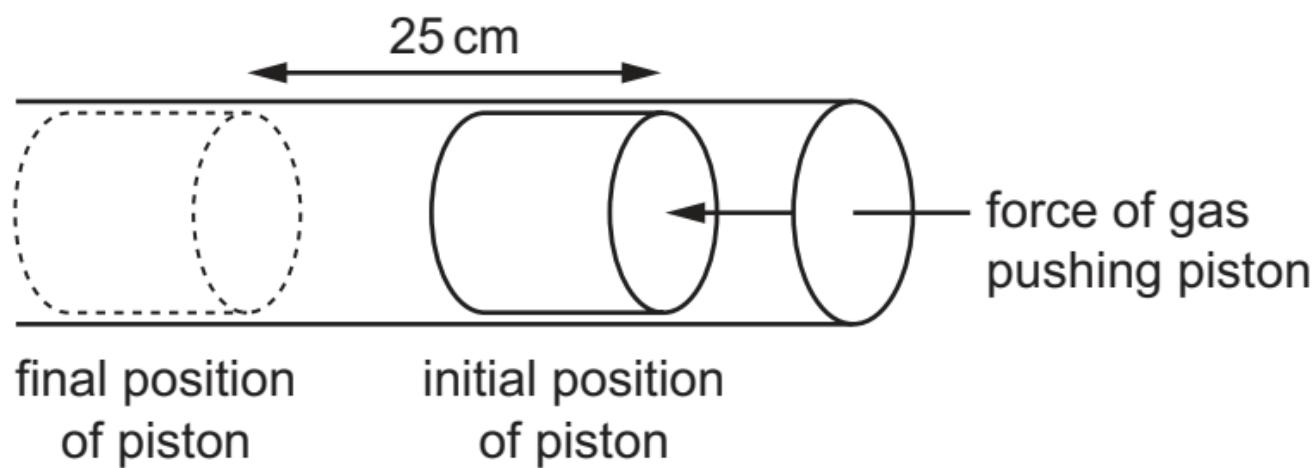


- 14 The gas in an engine does work on a piston of cross-sectional area 80 cm^2 . The pressure on the piston has a constant value of $4.6 \times 10^5\text{ Pa}$.



How much work is done by the gas on the piston when it moves through a distance of 25 cm?

A $9.2 \times 10^2\text{ J}$

B $9.2 \times 10^4\text{ J}$

C $9.2 \times 10^6\text{ J}$

D $9.2 \times 10^8\text{ J}$

- 15 A power station using coal as fuel has an average power output of 3000 MW. Coal is supplied by