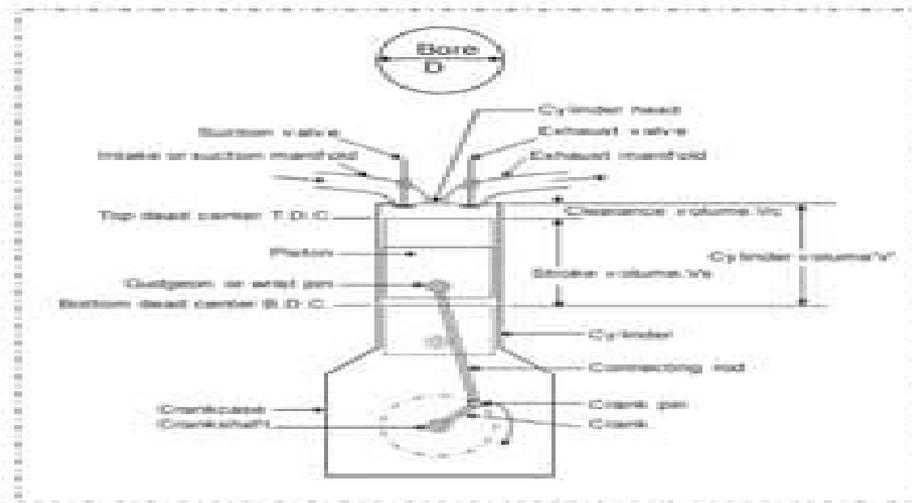




## TERMINOLOGY



Important positions and volumes in reciprocating engine

**Engine Cylinder diameter (bore) ( $D$ ):** The nominal inner diameter of the working cylinder.

**Piston area ( $A$ ):** The area of a circle of diameter equal to engine cylinder diameter (bore).

$$A = \pi / 4 \times D^2$$

**Engine Stroke length ( $L$ ):** The nominal distance through which a working piston moves between two successive reversals of its direction of motion.

**Dead center:** The position of the working piston and the moving parts, which are mechanically connected to it at the moment when the direction of the piston motion is reversed (at either end point of the stroke).

**Bottom dead center (BDC):** Dead center when the piston is nearest to the crankshaft. Sometimes it is also called outer dead center (ODC).

**Top dead center (TDC):** Dead center when the position is farthest from the crankshaft. Sometimes it is also called inner dead center (IDC).

**Swept volume ( $V_s$ ):** The nominal volume generated by the working piston when travelling from one dead center to next one, calculated as the product of piston area and stroke. The capacity described by engine manufacturers is the swept volume of the engine,  $V_s = A \times L = \pi / 4 \times D^2 L$ .

**Clearance volume ( $V_c$ ):** The nominal volume of the space on the combustion side of the piston at top dead center.

# Engine Performance Engine Theory

**Léo Pomar**



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