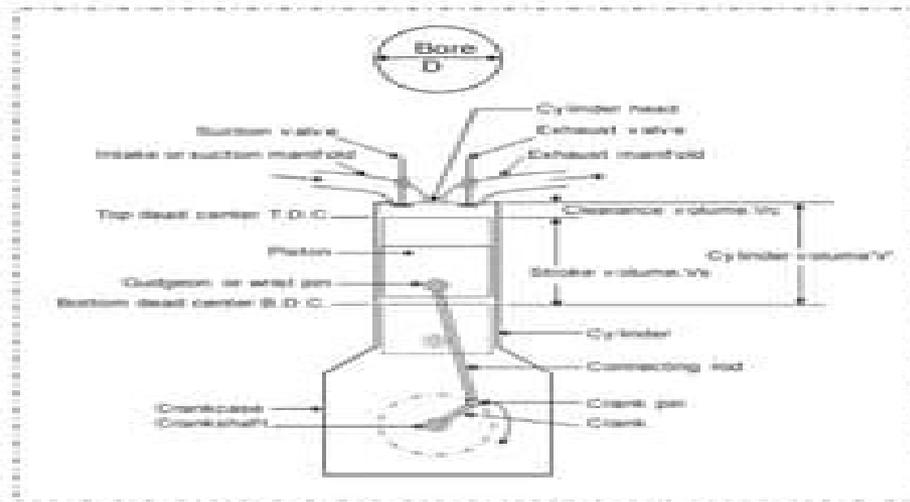




TERMINOLOGY



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 Theory

Jianjun Gao



Engine Performance Theory:

Unveiling the Magic of Words: A Report on "**Engine Performance Theory**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Engine Performance Theory**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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