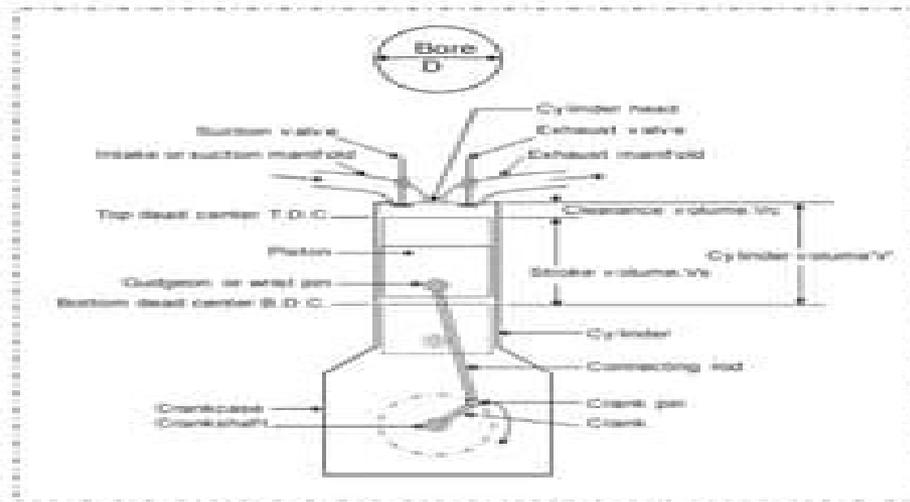




TERMINOLOGY



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.

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J Spring



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Stock Car Racing Engine Technology HP1506 Editor of Stock Car Racing Magazine, 2007-06-05 Build smarter race faster win more Covers topics such as airflow basics cylinder head and fuel systems tech blueprinting tips and techniques camshaft theory and selection

Practical Engine Airflow John Baechtel, 2015-12-15 The efficient flow of air through an engine is instrumental for producing maximum power To maximize performance engine builders seek to understand how air flows through components and ultimately through the entire engine Engine builders use this knowledge and apply specific practices and principles to unlock horsepower within an engine this applies to all engine types including V 8s V 6s and imported 4 cylinder engines Former Hot Rod magazine editor and founder of Westech Performance Group John Baechtel explains airflow dynamics through an engine in layman s terms so you can easily absorb it and apply it The principles of airflow are explained specifically the physics of air and how it flows through major engine components including the intake heads cylinders and exhaust system The most efficient and least restricted path through an engine is the key to high performance To get to this higher level the author explains atmospheric pressure air density and brake specific fuel consumption so you understand the properties of fuel for tuning Baechtel covers the primary factors for optimizing the airflow path This includes the fundamentals of air motion air velocity and boundary layers obstructions and pressure changes Flowing air through the heads and the combustion chamber is key and is comprehensively explained Also comprehensively explored is the exhaust system s airflow in particular primary tube size and length collector function and scavenging Chapters also include flowbench testing evaluating flow numbers and using airflow software In the simplest terms an engine is an air pump Whether you re a professional engine builder or a serious amateur engine builder you must understand engine airflow dynamics and must apply these principles if you want to optimize performance If you want to achieve ultimate engine performance you need this book

Internal-combustion Engines, Theory and Design Robert Leroy Streeter, Lester Clyde Lichty, 1929

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Internal Combustion Engine in Theory and Practice, second edition, revised, Volume 2 Charles Fayette Taylor, 1985-03-19 This revised edition of Taylor s classic work on the internal combustion engine incorporates changes and additions in engine design and control that have been brought on by the world petroleum crisis the subsequent emphasis on fuel economy and the legal restraints on air pollution The fundamentals and the topical organization however remain the same The analytic rather than merely descriptive treatment of actual engine cycles the exhaustive studies of air capacity heat flow friction and the effects of cylinder size and the emphasis on application have been preserved These are the basic qualities that have made Taylor s work indispensable to more than one generation of engineers and

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combustion engine incorporates changes and additions in engine design and control that have been brought on by the world petroleum crisis the subsequent emphasis on fuel economy and the legal restraints on air pollution The fundamentals and the topical organization however remain the same The analytic rather than merely descriptive treatment of actual engine cycles the exhaustive studies of air capacity heat flow friction and the effects of cylinder size and the emphasis on application have been preserved These are the basic qualities that have made Taylor s work indispensable to more than one generation of engineers and designers of internal combustion engines as well as to teachers and graduate students in the fields of power internal combustion engineering and general machine design

Structure and theory Robert Henry Thurston,1891

Gas Engine Theory and Design August Christian Mehrrens,1909

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Engine Testing A. J. Martyr,M.A. PLINT,2011-04-08

This book brings together the large and scattered body of information on the theory and practice of engine testing to which any engineer responsible for work of this kind must have access Engine testing is a fundamental part of development of new engine and powertrain systems as well as of the modification of existing systems It forms a significant part of the practical work of many automotive and mechanical engineers in the auto manufacturing companies their suppliers suppliers specialist engineering services organisations the motor sport sector hybrid vehicles and tuning sector The eclectic nature of engine powertrain chassis and whole vehicle testing makes this comprehensive book a true must have reference for those in the automotive industry as well as more advanced students of automotive engineering The only book dedicated to engine testing over 4000 copies sold of the second edition Covers all key aspects of this large topic including test cell set up data management dynamometer selection and use air thermal combustion mechanical and emissions assessment Most automotive engineers are involved with many aspects covered by this book making it a must have reference

Fundamental laws of thermodynamics, theory of gases Gustav Zeuner,1906

Steam Turbines, Practice and Theory Lester Gray French,1907

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