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OTTO CYCLE In 1862 a German engineer Nikolaus Augustus Otto began experimenting with different kinds of engines. His first experiment was conducted on a 4-stroke engine. 10 years later he introduced to the world the Otto engine. The 4-stroke engine consists of a 4- stroke cycle better known as the Otto cycle. 5.

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TWO STROKE AND FOUR STROKE ENGINE PPT - SlideShare
Advantages of 2S-petrol engine. The power developed will be

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nearly twice that of four-stroke engine of same dimension and operating at the same speed. The work required to overcome the friction of the exhaust and suction strokes is saved. Low weight. Construction is simple. 12 Disadvantages of 2S-petrol engine. As working on Otto-cycle, a part ...

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Four stroke spark ignition engine is also known as the petrol engine and is widely used in bikes and cars as the power unit. It converts the chemical energy of fuel into mechanical energy by the piston. By knowing the working of this engine we can able to find out why our vehicle is not working properly.

How does a Four Stroke Petrol Engine Works? - Mechanical ...

Comparison of Two-stroke and Four-stroke Cycle Engine (contd..)

4. The initial cost of a two-stroke cycle engine is considerably less than a four-stroke cycle engine. 5. The mechanism of a two-stroke cycle engine is much simpler than a four-stroke cycle engine. 6. The two-stroke cycle engines are much easier to start. Disadvantages 1.

Engine PPT | Internal Combustion Engine | Diesel Engine

Four-stroke cycle used in gasoline/petrol engines: intake (1), compression (2), power (3), and exhaust (4). The right blue side is the intake port and the left brown side is the exhaust port. The cylinder wall is a thin sleeve surrounding the piston head which creates a space for the combustion of fuel and the genesis of mechanical energy.

Four-stroke engine - Wikipedia

Internal Combustion Engine 724896 PPT. Presentation Summary :

Exhaust of the burnt gases. Petrol Engine Petrol Engine Four □

Stroke Two - Stroke Petrol Engine (Four Stroke) Petrol Engine

(Two Stroke) In two □ stroke. Source : http://www.omprakashsingh.com/uploads/3/3/3/8/3338591/4_engine_thermodynamic_cycles.ppt

Ppt Two-stroke-and-four-stroke-petrol-engine | Powerpoint ...

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This videos illustrates the working of 4 stroke engine, with all the four strokes explained and also at the end, a real-time animation at 5000RPM. !!!

4 Stroke Engine Working Animation - YouTube

□ Explain simple engine operation. □ Explain why gasoline is atomized in the small engine. □ Describe four-stroke engine operation and explain the purpose of each stroke. □ Explain the concept of valve timing. □ Compare the lubrication system in a four-cycle engine to the system in a two-stroke engine. Learning Objectives

CHAPTER 5

4 stroke engine parts. source:- xorl.wordpress.com. The four strokes of a 4 stroke engine go by the name □ 1. Suction/Intake Stroke :-In this stroke, the piston moves from TDC to BDC [(T op D ead C entre □ the farthest position of piston to the crankshaft) to (B ottom D ead C entre □ the nearest position of piston to the crankshaft)].The piston moves downward sucking the air-fuel mixture ...

How does a 4 stroke engine work ? □ MechStuff

4 Stroke Petrol Engine Ppt OTTO CYCLE In 1862 a German engineer Nikolaus Augustus Otto began experimenting with different kinds of engines. His first experiment was conducted on a 4-stroke engine. 10 years later he introduced to the world the Otto engine. The 4-stroke engine consists of a 4- stroke cycle better known as the Otto cycle. 5.

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In a 6-cylinder engine with a firing order of 1-5-3-6-2-4 for instance, the companion cylinders will be cylinders 1 and 6, 5 and 2 and then 3 and 4. Figure 2 shows the 4-stroke engine cycle in a sequential pattern; intake, compression, power, exhaust. This will be used together with figures 3a through 3e to explain the firing process.

Firing Orders Of 4 Stroke Internal Combustion Engines ...

A four stroke engine delivers one power stroke for every two cycles of the piston (or four piston strokes). There is an animation to the right (Figure 1) of a four-stroke engine and further explanation of the process below. Intake stroke: The piston moves downward to the bottom, this increases the volume to allow a fuel-air mixture to enter the chamber. Compression stroke: The intake valve is closed, and the piston moves up the chamber to the top. This compresses the fuel-air mixture.

Four stroke engine - Energy Education

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Principle of a Four Stroke Petrol Engine The principle used in a four stroke petrol engine is commonly known as Otto Cycle. It states that there would be one power stroke for every four strokes. Such engines use a spark plug which is used for the ignition of the combustible fuel used in the engine.

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