

# Diesel Engine

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## Diesel Engine

The diesel engine, named after Rudolf Diesel, is an internal combustion engine in which ignition of the fuel is caused by the elevated temperature of the air in the cylinder due to the mechanical compression (adiabatic compression); thus, the diesel engine is a so-called compression-ignition engine (CI engine). This contrasts with engines using spark plug-ignition of the air-fuel mixture, such ...

## Diesel engine - Wikipedia

The diesel engine is an intermittent-combustion piston-cylinder device. It operates on either a two-stroke or four-stroke cycle (see figure); however, unlike the spark-ignition gasoline engine, the diesel engine induces only air into the combustion chamber on its intake stroke.

## diesel engine | Definition, Development, Types, & Facts ...

The basic difference between a diesel engine and a gasoline engine is that in a diesel engine, the fuel is sprayed into the

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combustion chambers through fuel injector nozzles just when the air in each chamber has been placed under such great pressure that it's hot enough to ignite the fuel spontaneously.

### **How Do Diesel Engines Work? - dummies**

Diesel's story actually begins with the invention of the gasoline engine. Nikolaus August Otto had invented and patented the gasoline engine by 1876. This invention used the four-stroke combustion principle, also known as the "Otto Cycle," and it's the basic premise for most car engines today.

### **How Diesel Engines Work | HowStuffWorks**

A diesel engine is a type of internal-combustion engine developed by German engineer Rudolf Diesel (1858 – 1913) in the late nineteenth century. His original design called for the use of coal dust as fuel, but most modern diesel engines burn low-cost fuel oil.

### **Diesel Engine | Encyclopedia.com**

In diesel engines the fuel is ignited not by a spark, as in gasoline engines, but by the heat of air compressed in the cylinder, with the fuel injected in a spray into the hot compressed air. Diesel fuel releases more energy on combustion than equal volumes of gasoline, so diesel engines generally produce better fuel economy than gasoline engines.

### **diesel fuel | Definition, Efficiency, & Pollution | Britannica**

The diesel engine uses a four-stroke combustion cycle just like a gasoline engine. The four strokes are: Intake stroke — The intake valve opens up, letting in air and moving the piston down. Compression stroke — The piston moves back up and compresses the air.

### **Diesel Engines vs. Gasoline Engines | HowStuffWorks**

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### **Diesel and Natural Gas Engines | Cummins Inc.**

Diesels are usually the best choice for consumers who will be putting mostly highway miles on their car or truck. On the highway, diesel engines are more efficient than gasoline fueled cars. This is because diesel fuel packs more energy than gasoline; a gallon of diesel fuel has up to 30 percent more energy than a gallon of gas.

### **Diesel vs. Gasoline: Which Engine is a Better Fit for You?**

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Definition of diesel engine : an internal combustion engine in which air is compressed to a temperature sufficiently high to ignite fuel injected into the cylinder where the combustion and expansion actuate a piston Examples of diesel engine in a Sentence

### **Diesel Engine | Definition of Diesel Engine by Merriam-Webster**

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### **diesel engine, diesel engine Suppliers and Manufacturers ...**

The diesel engine is one type of internal combustion engine; more specifically, it is a compression ignition engine, in which the fuel is ignited by being suddenly exposed to the high temperature and pressure of a compressed gas, rather than by a separate source of ignition, such as a spark plug, as is the case in of the gasoline engine.

### **Diesel engine | Engineering | Fandom**

An engine or motor is a machine designed to convert one form of energy into mechanical energy. Heat engines convert heat into work via various thermodynamic processes. The internal combustion engine is perhaps the most common example of a heat engine, in which heat from the combustion of a fuel causes rapid pressurisation of the gaseous combustion products in the combustion chamber, causing ...

### **Engine - Wikipedia**

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### **Kohler Power | Kohler Engines**

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### **The Best Search Engines of 2020 - Lifewire**

A diesel engine is similar to the gasoline engine used in most cars. Both engines are internal combustion engines, meaning they burn the fuel-air mixture within the cylinders. Both are reciprocating engines, being driven by pistons moving laterally in two directions. The majority of their parts are similar.

### **Diesel Engine Construction and Operation | Engineers Edge**

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