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## **First Internal Combustion Engine**

In 1798, John Stevens designed the first American internal combustion engine. In 1807, French engineers Nicéphore (who went on to invent photography) and Claude Niépce ran a prototype internal combustion engine, using controlled dust explosions, the *Pyréolophore*. This

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engine powered a boat on the Saône river, France.

## **History of the internal combustion engine - Wikipedia**

An internal combustion engine (ICE) is a heat engine in which the combustion of a fuel occurs with an oxidizer (usually air) in a combustion chamber that is an integral part of the working fluid flow circuit. In an

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internal combustion engine, the expansion of the high-temperature and high-pressure gases produced by combustion applies direct force to some component of the engine.

## **Internal combustion engine - Wikipedia**

Otto spent his early years as a traveling salesman, but later became a successful

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engineer. This German inventor was the first to display an efficient working internal combustion engine (others claim to predate this, but the age of internal combustion truly starts with the Otto Cycle Engine). This engine was invented in 1862.

**Who invented the first internal combustion engine - Who**

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Daimler is considered the first inventor to have invented a practical internal-combustion engine. In 1889, Daimler invented a V-slanted two cylinder, four-stroke engine with mushroom-shaped valves. Just like Otto's 1876 engine, Daimler's new engine set the basis for all car engines going forward.

**Invention of the Car:  
A History of the**



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The first internal-combustion engine, according to our modern ideas, was that of Robert Street, patented in England in 1794. In this the bottom of a cylinder was heated by fire and a small quantity of tar or turpentine was projected into the hot part of the cylinder, forming a vapor.

**A Brief History of**  
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**the Internal  
Combustion Engine**

...

The first internal combustion engines did not have compression, but ran on what air/fuel mixture could be sucked or blown in during the first part of the intake stroke. The most significant distinction between modern internal combustion engines and the early designs

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is the use of  
compression and in  
particular of in-cylinder  
compression.

## **Internal combustion engine - New World Encyclopedia**

Henry Ford's First  
Internal Combustion  
Engine In 1893, a  
30-year-old machinist  
from Detroit, Mich.,  
was learning about a  
new technology, the  
internal combustion  
engine. In a backroom

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## **Henry Ford's First Engine - About the engine**

Whereas a number of scientists and engineers paved the way to the invention of the internal combustion engine, the first internal combustion engine to be produced commercially was invented by Jean...

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## Combustion **Internal Combustion Engine: Inventor & History | Study.com**

In 1876 Otto built an internal-combustion engine utilizing the four-stroke cycle (four strokes of the piston for each ignition). The four-stroke cycle was patented in 1862 by the French engineer Alphonse Beau de Rochas , but since Otto was the first to build an engine based upon this principle, it is

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commonly known as  
the Otto cycle.

## **Nikolaus Otto | German engineer | Britannica**

Benz's three-wheeled vehicle, which he first drove in 1885, was the first to combine an internal combustion engine with an integrated chassis, while Daimler's motorized carriage (invented with his...

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**Who built the first automobile? -**

## **HISTORY**

Karl Benz was a German inventor and engineer. He overcame financial setbacks and unsupportive associates to design and build a car with a fully integrated internal combustion engine, which is seen...

**Karl Benz -  
Inventions, Wife &  
Facts - Biography**

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The first person to experiment with an internal-combustion engine was the Dutch physicist Christian Huygens, about 1680. But no effective gasoline-powered engine was developed until 1859, when the French engineer J. J. Étienne Lenoir built a double-acting, spark-ignition engine that could be operated continuously.



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## Combustion Engine: Evolution of the Internal ...

The invention and development of the internal combustion engine in the nineteenth century has had a profound impact on human life. The internal combustion engine offers a relatively small, lightweight source for the amount of power it produces.

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### **Encyclopedia.com**

Karl Benz, in full Karl Friedrich Benz, Karl also spelled Carl, (born November 25, 1844, Karlsruhe, Baden [Germany]—died April 4, 1929, Ladenburg, near Mannheim, Germany), German mechanical engineer who designed and in 1885 built the world's first practical automobile to be

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powered by an internal-combustion engine.

## **Karl Benz | German engineer | Britannica**

Early internal combustion locomotives and railcars used kerosene and gasoline as their fuel. Rudolf Diesel patented his first compression-ignition engine in 1898, and steady improvements to the design of diesel engines reduced their

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physical size and improved their power-to-weight ratios to a point where one could be mounted in a locomotive. Internal combustion engines only operate efficiently ...

## **Diesel locomotive - Wikipedia**

In 1886, Carl Benz began the first commercial production of motor vehicles with internal combustion

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engines. By the 1890s, motor cars reached their modern stage of development. In fact, the models of that decade were so successful that there has been no fundamental change in the principles of the ordinary automobile engine since that time.

**Automobile and the Environment in American History: Energy ...**

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Before Otto, in 1794 Robert Street created the first internal combustion engine, which used liquid fuel and later in 1807 the Swiss inventor Francois de Rivaz designed an engine lit by an electric spark.

## **Great inventions - The first internal combustion engine**

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The first stationary  
gasoline engine

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developed by Carl Benz was a one-cylinder two-stroke unit which ran for the first time on New Year's Eve 1879.

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