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The Internal Combustion Engine In

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

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that is an integral part of the working fluid flow circuit. In an 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

Internal-combustion

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engine, any of a group of devices in which combustion's reactants (oxidizer and fuel) and products serve as the engine's working fluids. Work results from the hot gaseous combustion products acting on the engine's moving surfaces, such as the face of a piston, a turbine blade, or a nozzle.

internal-combustion engine | Definition &

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Facts | Britannica

Combustion, also known as burning, is the basic chemical process of releasing energy from a fuel and air mixture. In an internal combustion engine (ICE), the ignition and combustion of the fuel occurs within the engine itself. The engine then partially converts the energy from the combustion to work. The engine

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consists of a fixed cylinder and a moving piston.

Internal Combustion Engine Basics | Department of Energy

Internal combustion engine. The internal combustion engine is an engine in which the burning of a fuel occurs in a confined space called a combustion chamber. This exothermic reaction of

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a fuel with an oxidizer
creates gases of high

temperature and
pressure, which are
permitted to expand.

The defining feature of
an internal combustion
engine is that useful
work is performed by
the expanding hot
gases acting directly to
cause movement, for
example by acting on
pistons, rotors, or even
by ...

Internal combustion

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Combustion **engine - New World Encyclopedia**

In other words, the internal combustion engines are those engines in which the combustion of fuel takes place inside the engine cylinder by a spark. These are petrol, diesel and gas engines. An engine is a device, which by using the chemical energy of the fuel, transforms it into thermal energy by combustion, to produce

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mechanical work.

Types of Internal Combustion Engines | Working & Application

The internal combustion (IC) engine is a class of heat engine wherein the chemical energy of fuel is transformed into shaft work. It is so named because combustion occurs inside a combustion chamber that is an

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integral part of the
working fluid flow
circuit.

Internal Combustion Engine - an overview | ScienceDirect ...

An internal combustion engine uses a fuel that combusts in the presence of oxygen and a spark. The explosive combustion pushes a piston in a cylinder. The piston's movement drives a crankshaft that...

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Internal Combustion Engine: Inventor & History | Study.com

In 1794 Thomas Mead patented a gas engine. Also in 1794 Robert Street patented an internal-combustion engine, which was also the first to use the liquid fuel (petroleum) and built an engine around that time. In 1798, John Stevens designed the first American internal

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combustion engine.

History of the internal combustion engine - Wikipedia

Nikolaus Otto, in full Nikolaus August Otto, (born June 10, 1832, Holzhausen, Nassau, Germany—died January 26, 1891, Cologne), German engineer who developed the four-stroke internal-combustion engine, which offered the first practical alternative to

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the steam engine as a power source. Otto built his first gasoline-powered engine in 1861.

Nikolaus Otto | German engineer | Britannica

An internal combustion engine is an engine that uses the explosive combustion of fuel to push a piston within a cylinder — the piston's movement turns a crankshaft that then

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turns the car wheels
via a chain or a drive
shaft. The different
types of fuel commonly
used for car
combustion engines
are gasoline (or petrol),
diesel, and kerosene.

Invention of the Car: A History of the Automobile

A gas turbine is a
internal combustion
engine that can
convert natural gas or
other liquid fuels to

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mechanical energy.
This energy then drives
a generator that
produces electrical
energy. It is electrical
energy that moves
along power lines to
homes and businesses.

Applications of Internal and External Combustion (IC & EC ...

The engine in which
the combustion of fuel
takes place inside the
engine cylinder. It is

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more compact to
occupy less space,
more efficient, and
portable. Two principal

types of reciprocating
internal combustion
engines are in general
use: the Otto Cycle
engine & the Diesel
engine.

What is an Internal Combustion Engine [Notes with PDF ...

The purpose of a
gasoline car engine is
to convert gasoline into

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motion so that your car can move. Currently the easiest way to create motion from gasoline is to burn the gasoline inside an engine. Therefore, a car engine is an internal combustion engine — combustion takes place internally. Two things to note:

**How Car Engines
Work |
HowStuffWorks**

What is Internal

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Combustion Engine In
an internal combustion
engine, the working
fluid consists of a
combustible fluid
placed inside a
cylinder. Four-stroke
Diesel and petrol
(gasoline) engines are
internal combustion
engines. In these
engines, the fluid
undergoes combustion
inside the cylinder and
expands.

Difference Between
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Combustion **Internal and**

External Combustion Engine

The good old internal combustion engine (ICE) has been powering the world for over a century now, and despite the much-needed technological advancements in electric vehicles, gasoline power is not...

**Technologies that
can still save the
internal combustion**

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Four strokes of genius.
Directed by Claude
Cloutier - 2000

Science Please! : The Internal Combustion Engine - YouTube

Researchers have studied on alternative fuels that can be used with gasoline and diesel fuels. Alternative fuels such as hydrogen, acetylene, natural gas, ethanol

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and biofuels also uses
in internal combustion
engines. Hydrogen in
the gas phase is about
14 times lighter than
the air. Moreover, it is
the cleanest fuel in the
world. On the other
hand because of its
high ignition limit
(4-75% ...

Alternative Fuels for Internal Combustion Engines | IntechOpen

Fuel cells are far more

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efficient than internal combustion engines, and a hydrogen fuel cell has cleaner emissions than an internal-combustion hydrogen engine. To learn more, check out Fenske's ...

Why Don't We Just Run Internal Combustion Engines on Hydrogen?

Knocking (also knock, detonation, spark knock, pinging or

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pinking) in spark
ignition internal
combustion engines
occurs when

combustion of some of
the air/fuel mixture in
the cylinder does not
result from
propagation of the
flame front ignited by
the spark plug, but one
or more pockets of
air/fuel mixture
explode outside the
envelope of the normal
combustion front.

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