

## *Camless Engines*

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**Camless Engines**

(April 2017) A camless or free-valve piston engine is an engine that has poppet valves operated by means of electromagnetic, hydraulic, or pneumatic actuators instead of conventional cams. Actuators can be used to both open and close valves, or to open valves closed by springs or other means.

**Camless piston engine - Wikipedia**

Here's How the Camless Engine of the Future Works. Engineering Explained tells you everything you need to know about Koenigsegg's Freevalve engine.

**Here's How the Camless Engine of the Future Works**

There are a few reasons. The advantages of camless engines to camshaft engines are analogous to the advantages of electronic fuel injection (EFI) vs carburetors. At the core, a fuel injector is a solenoid controlled valve. The fuel pump provides constant pressure.

**Where are all the Camless Engines? | Hackaday**

The Camless Engine of the Future Is Almost Ready for the Real World. Expect this to appear in a Koenigsegg near you soon. Freevalve's engine debuted in the Qoros 3 hatchback at the Guangzhou Motor Show, and Qoros will carry on by running a fleet of test vehicles for evaluation purposes. If that goes well, the camless engine is here to stay, thanks to China.

**The Camless Engine of the Future Is Almost Ready for the ...**

(Full Disclosure: As part of our visit to Koenigsegg, we got one of the first rides in the camless engine that's being developed by Freevalve, a subsidiary within Koenigsegg. It's amazing.

**What It's Like To Ride In A Car With The Camless Engine Of ...**

Camless Engine seminar report in PDF explains how it works for greater optimization of overall engine performance during different phases of running. Camless engine does not have camshaft to lift the both intake and exhaust valve. Also, download the PPT for Mechanical seminar presentation.

**Camless Engines Seminar Report and PPT**

Benefits of Camless Engines. The opening period (as measured in crankshaft degrees) remains constant for any engine load or rpm. However, the cycle of opening and closing of valves driven by the electromechanical valve actuators operates much faster. Designed to match valve-opening rates at the maximum engine rpm,...

**AutoSpeed - Camless Engines**

More Galleries. Instead of a camshaft, the camless engine, which Qoros has labeled Qamfree, relies on pneumatic valve actuators to open an engine's valves, which are then closed by air pressure or springs. This results in much more precise and completely customizable control over valve duration and lift, on both the intake and exhaust sides.

**1.6-liter 'camless' engine delivers 230 hp in Qoros 3**

Camless diesel engines are expected to provide great yields in torque and drivability, along with increased reliability and decreased emissions. Torque at clutch-engagement speeds is expected to increase 40%. Greater control over deceleration and reduced brake wear will result from the integration of compression braking technology. Hydraulic actuation causes gentle compression of the valves ...

**Camless Diesel Engines - brighthubengineering.com**

Is the Era of the Camless Valvetrain Finally Upon us? - Technologue. Perhaps more important, the engine's power improved by 45 percent, torque by 47 percent, and fuel consumption by about 14 percent (at steady highway speeds). Official fuel consumption is expected to mirror that of a similar diesel but at lower incremental cost.

### **Is the Era of the Camless Valvetrain Finally Upon us ...**

The idea of a camless engine has been around for years with some success on a demonstration level, and numerous companies are currently pursuing production versions. While the Freevalve approach involves pneumatics, others are working with electrohydraulic and electromagnetic devices that control the valve timing.

### **Video: See How The Koenigsegg Camless Engine Works**

Camless. Engines Introduction The new emerging technology for automotive technology are the Camless engine which the engine does not have camshaft to lift the both intake and exhaust valve. CAMS • Control the breathing channels (valves) of an IC engine • Connected to camshaft which is operated by crankshaft • Cams push open valves at proper time & guide their closure

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