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We have developed an engine control concept, called the Throttleless Premixed Charge Engine (TPCE), which provides the necessary range of power and torque adjustment without throttling by using a combination of lean mixture and intake air preheat to adjust torque. Higher intake temperatures reduce the air density and thus power and torque.

Throttleless Premixed-Charge Engines

throttleless operation, using valve-head load control can be achieved by either early or late intake valve closing. This section describes and compares both these methods for improving part load fuel economy.

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Intake valve closing concepts. Part 3: other part load strategies. There are of course many other ways of improving engine fuel economy.

Throttle-less Operation | MECHADYNE

Estimated Fuel Consumption Penalty for Natural Gas Engine versus Diesel Engine (adapted from Ref. 1) This efficiency penalty is greatest under part load conditions, primarily due to throttling losses.

Throttling is required at light loads with engines that use a homogeneous fuel-air mixture. To reduce load, the fuel flow rate must be decreased.

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Throttleless engines - BMW Valvetronic BMW's Valvetronic engine is the world's first engine getting rid of throttle butterfly. What's the advantage ? BMW claimed it saves around 10% fuel compare with conventional engines.

AutoZine Technical School

The throttleless Otto-cycle natural gas engine (TONE) control concept can potentially improve the part-load fuel economy of gas-fueled homogeneous-charge internal combustion engines by reducing the impact of throttle losses. The experimental apparatus and test procedure are described; original data and preliminary test results are included.

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acquire something basic in the beginning? That's something that will lead you to ...

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In the throttleless engine neither the fuel nor the valve lift is dominant over the other and the fuel and valve lift can adjust to each other. The fuel system and variable lift are controlled using parallel signals. This will allow much finer control of the engine and its characteristics
19.

Design Of A Throttleless Engine For A F 1502

true diesel don't need a throttle body at all. Which is why they get great

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MPG. Diesels are also able to operate at a huge range of A/F ratios unlike the gasoline engine. In some cases the diesel engine is sucking in 10X more air than needed. Throttle bodies are a control/restriction point.

"Throttle-less" engines? | 8th Generation Honda Civic Forum
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Throttleless Otto-cycle natural gas engines. Final report ...

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Throttleless Engine - shop.kawaiilabotokyo.com

Throttleless induction system eliminates frictional pumping losses incurred in traditional (throttle body) spark engines. Disadvantages of HCCI High cylinder pressures require stronger (and more expensive)

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engine construction.

How Homogeneous Charge Compression Ignition Works
Development of a Throttleless Natural Gas Engine 2001-01-2522
Development of a natural gas-fueled engine capable of throttleless operation is discussed in this paper. This development was conducted under a program funded by the National Renewable Energy Laboratory to investigate methods to increase the efficiency of natural gas engines.

Development of a Throttleless Natural Gas Engine
A variable expansion ratio internal combustion engine equipped with

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throttleless induction control and intake valve mechanism operable to induct an ambient pressure charge varying with load demand....

US4174683A - High efficiency variable expansion ratio ...

The throttleless engine and the Miller cycle engine are proven concepts for efficiency improvements of such engines. This paper reports on an engine with variable valve timing (VVT) and variable compression ratio (VCR) in order to fulfill such an enhancement of efficiency.

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