

Reducing Aerodynamic Drag And Fuel Consumption

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Reducing Aerodynamic Drag And Fuel

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Reducing Aerodynamic Drag and Fuel Consumption

Race car engineers realized that air flowing around the vehicle could be used to increase downforce and reduce aerodynamic drag on the car. As fuel economy became a strong factor in road vehicle design, engineers soon realized that the methods of reducing aerodynamic drag on race cars could be transferred to road vehicles in order to improve fuel economy.

Drag Reduction: The Pursuit of Better Fuel Economy - USC ...

"The main driver for lower aerodynamic drag is fuel economy," says Max Schenkel, General Motors technical fellow, aerodynamics. "As long as federal standards for fuel economy increase and fuel...

Improving Aerodynamics to Boost Fuel Economy | Edmunds

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Reducing Aerodynamic Drag And Fuel Consumption

When an 18-wheeler travels on the highway, more than 50% of its fuel use goes toward reducing aerodynamic “drag.” Cutting the drag on trucks will also cut down fuel consumption. Lawrence Livermore National Laboratory in California is studying ways to improve the fuel economy of tractor-trailers.

How Better Aerodynamics Lead to Fuel Savings

With assistance from DOE's Inventions and Innovation Program, SOLUS Solutions and Technologies LLC has developed several low-cost aerodynamic devices that reduce drag and improve fuel economy for tractor-trailer trucks. In 2007 Silver Eagle Manufacturing Company began to produce and sell the SOLUS drag reduction devices.

Advanced Aerodynamic Technologies for Improving Fuel ...

A reduction of 26% in vehicle aerodynamic drag factor can be obtained by installing a full-size rear fairing. A rear fairing having half the length of its vehicle model can reduce the drag factor by up to 22.6% and quarter the length will provide a 16.1% reduction. of air.

Methods for Reducing Aerodynamic Drag in Vehicles and thus ...

Designed to fill the area between the tractor and the front of a dry trailer, helping to shield from crosswinds and reduce drag on the front of the trailer. Wheel covers and mudflaps. Help reduce turbulence and drag around the wheels, which helps improve fuel efficiency. Often, different types of aerodynamic devices will complement each other.

Improve efficiency with trailer aerodynamics | Vehicle ...

Put simply, aerodynamic drag is a force on your truck that requires your truck to use energy to overcome it. That energy means unnecessary fuel use for your tractor trailer. Aerodynamic devices that promote tractor trailer aerodynamic drag reduction, then, can provide greater fuel efficiency for your trucks. What Is Aerodynamic Drag?

Understanding Aerodynamic Drag & How It Impacts Your Truck

Additional cab streamlining in the line-haul segment is estimated to reduce drag by 6 to 8 percent and to reduce fuel consumption by 3 to 4 percent. In combination, these approaches would reduce drag by 12 to 18 percent and could offer a 6 to 9 percent reduction in fuel consumption (if average speeds are >60 mph).

5 Vehicle Technologies for Reducing Load-Specific Fuel ...

This project aims to modify the outer surface and structure of the bus aerodynamically in order to reduce the effect of drag force of the vehicle which in turn results in reduction of fuel consumption of the vehicle. The Two prototype bus body has been modeled by using CFD to reduce the drag force. These are namely model 1 and model 2.

CFD ANALYSIS OF AERODYNAMIC DRAG REDUCTION AND IMPROVE ...

Half-length truncated rear fairing also has high aerodynamic efficiency and allows to reduce aerodynamic drag factor by 22.6%. At aft rear fairing length being 25% of its full length vehicle model drag factor is reduced by 16.1%. Fig.11.

Methods of Reducing Vehicle Aerodynamic Drag

Aerodynamics is, as we all know, the study of airflow around your car. The smoother the airflow, the lower the drag and the less fuel you burn at a specific speed. Aerodynamic drag comes from a variety of sources, and that line about waxing your car isn't just a joke.

How Does Aerodynamics Affect Fuel Economy? | Haynes Manuals

Recently, Wabash National Corp. unveiled three new solutions designed to significantly improve trailer aerodynamics and fuel economy: the Ventix DRS (drag reduction system) utilizes a patent-pending segmented design to manage air flow across the entire length of the trailer and eliminate drag points; an aerodynamic tail device, named the AeroFin, manages airflow across the rear of the trailer to reduce aerodynamic drag; and the lightweight AeroSkirt CX, a trailer side skirt that provides up ...

Investing in aerodynamics to improve your fuel efficiency

A pair of Texas-based sister companies are offering a combination of solutions to reduce the fuel consumption of airliners. ... namely weight reduction and improved aerodynamics (the third being ...

Military Materials, Mods Could Cut Airliner Fuel Burn ...

Airliners could reap fuel savings of up to 10 per cent — along with a corresponding decrease in emissions — by flying in formation like birds, Airbus has revealed. The concept, which the ...

Travel: Passenger jets could soon be flying in formation ...

"If the present design parameters are adopted, the drag reduction rate will increase significantly," Sung said. By reducing drag, ships could reduce fuel consumption and speed up shipping times.

Slippery when wet: Fish, seaweed to help cargo ships ...

Reducing drag. The reduction of drag in road vehicles has led to increases in the top speed of the vehicle and the vehicle's fuel efficiency, as well as many other performance characteristics, such as handling and acceleration. The two main factors that impact drag are the frontal area of the vehicle and the drag coefficient. The drag coefficient is a unit-less value that denotes how much an ...

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