

## **Volkswagen Touran Hymotion: Fuel Cell Hybrid Vehicle Plus Top Rate VW Replacement Parts**

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([PRWEB](#)) June 10, 2005 -- Automakers know that rising oil prices and tougher environmental rules will increase the public's interest in vehicles that use less fuel with reduced tail pipe emissions.

Hybrids increase fuel efficiency by capturing the energy normally lost to friction braking and storing it in a battery for later use when driving power is again required. Unlike internal combustion engine hybrids, Volkswagen's hydrogen fuel cell hybrid emits only water.

The VW Touran Hymotion has high-torque electric motor that draws its power from a fuel cell and is absolutely emission free. The standard version, driven by petrol and diesel engines, which are as agile as they are economical, is by far the most successful van available in Germany. In the Touran HyMotion, an 80 kW electric motor provides vehement propulsion.

The core element of this fuel cell is an extremely thin plastic film (membrane). This spatially separates the reagents, hydrogen and oxygen. The hydrogen is broken down into positively and negatively charged particles (protons and electrons). The protons are able to pass directly through the membrane, whilst the electrons take a more indirect route via an external current circuit, driving the electric motor. On the other side of the membrane, the protons, electrons and oxygen combine to form water.

The hydrogen is transported in gaseous form at 350 bar in a special tank fitted in the Touran. A capacity of 1.9 kg hydrogen when converted corresponds to the energy contained in 7.5 litres of petrol. In combination with the electric motor's high efficiency, this quantity of hydrogen provides the vehicle with a range of approximately 160 kilometres.

Partstrain is the right place for new or quality used Volkswagens parts. Just click on <http://www.partstrain.com/ShopByVehicle/VOLKSWAGEN> and in stock, and ready for immediate delivery is a huge inventory of VW Replacement car parts & Volkswagen car accessories at discount prices. Its inventory includes a large stock of suspension, shocks, struts, ac parts, VW radiators, belts, hoses, VW tune-up parts, brakes, air filters, fuel filters, Volkswagen engine parts, spark plugs, steering, exhaust, Bentley service repair manuals, tail lights, fog lights, headlights, clutch, fuel pumps, VW fuel injectors, electrical & electronic parts, Volkswagen performance parts and much more.

Parts Train's customer support staff is expert in the field VW's parts and can assist you by providing product installation tips and procedures, as well as suggesting additional parts that you may need for your Volkswagen.

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