

Project Information



Subject: Pedal-electric – Cargo-vehicle with an integrated PEM fuel cell

Applicant: Masterflex AG
Konrad-Adenauer-Str. 9-13
45699 Herten

Duration: 12/2004 – 12/2006

Project partners: Hawk Bikes GmbH

Contact: Stefan Schulte
Tel.: 02366 / 305-191
info@masterflex-bz.de



Project description:

The aim of the project is the development of a pedelec (pedal-electric) in combination with a new and innovative propulsion unit. The power of the engine is automatically linked with the power of the cyclist by a movement sensor. Eventually, the electric engine is only active when the cyclist is pedalling and provides additional driving power.

Traditional pedelecs are made of usual bicycles that are equipped with an additional electric engine, a rechargeable battery and control electronics. The Cargobike will be equipped with a PEM fuel cell system enabling a much higher range of application.

The new vehicle will close the existing gap between traditional bicycles and vehicles with combustion engine. It will be designed for the use in local logistic applications.

The picture shows the Cargobike in operation by German T-Com during the football championship 2006.



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