

(MICRO:CAB)[®] VIANOVA

Introducing the newest addition to the Microcab fleet, the Vianova showcases our latest vehicle design on the versatile H2EV platform. Available in both Right and Left Hand Drive, the Vianova features a fully redesigned interior, with elements demonstrating the latest thinking in circular economy design. The design and engineering work is supported by commercial and grant funded development projects which Microcab has engaged in. Our commercial work with German OEM Mahle has supported the design of a new contemporary interior with digital driver displays, whilst close collaboration with the Coventry University team has resulted in a fully upgraded powertrain, and the integration of a new motor, controller and gearbox system.



Microcab works collaboratively with key companies and organisations, and has been a successful partner in a significant number of grant funded projects. This ongoing R&D development work has led the company to move towards commercialisation.

MAHLE:

Commercial collaboration with a German tier 1 company to provide Left Hand Drive H2EV demonstration vehicles exhibited at the IAA motor show in Frankfurt Sept 2017.

COVENTRY UNIVERSITY

Collaboration on SWARM, providing full technical support on powertrain development and integration.

DISCUS:

APC/NVN funded project: (Drivetrain Integration, Supply Chain Upscaling and Streamlining) - integration of a new motor, controller and gearbox.

ECOBULK:

Horizon 2020 pan European project, collaborating with 29 partners to develop circular economy applications for automotive, furniture and building sectors.

SWARM:

FCH-JU: funded project (Demonstration of Small 4 Wheel fuel cell passenger vehicle Applications in Regional and Municipal transport) – demonstration of hydrogen fuel cell vehicle fleet, with testing & data collection across 3 European sites.



Microcab VIANOVA Vehicle Specification

Technical Specification

Length	3.5 meters
Height	1.7 meters
Width	1.6 meters
Gross Vehicle Weight	Approx. 750kg
Chassis	Lotus bonded aluminium
Crash Protection	Front offset impact; side impact; roof crush
Emissions	Zero at point of use

FCEV Powertrain

Drive	Single AC motor, 40kw peak
Main Drive Voltage	72V
Transmission	Single Speed gearbox, front wheel drive
Lithium Battery Pack	Up to 4kWh capacity
Max Speed	55mph / 88kph
Range on full tank	180miles
Fuel Cell	Low temperature (PEM)
Fuel Cell Power	3.0kW - 10.0kW
Hydrogen Tank Capacity	1.8kg
Hydrogen Tank Pressure	350bar & 700bar

Microcab has formed dynamic, working alliances across the UK, Europe, USA, South Africa, China and more recently India. This network enables development of the latest technology, which in turn results in continual improvements on vehicle design. With an emphasis on high quality design and cost effective engineering, Microcab designs and manufactures a range of zero emission, low carbon fuel cell electric vehicles, which are lightweight and highly efficient, making them ideal in urban and peri-urban locations for passenger and light freight use.

MAHLE:

Our work has been supported by a recent commercial order to supply vehicles to Mahle Powertrain. Two vehicles have been delivered to date, the first vehicle supplied as a concept car to demonstrate Mahle's new MEET technology, and their new 48V EV powertrain. Taking centre stage on the Mahle stand at the 2017 IAA Frankfurt Motor show, the vehicle has subsequently been shown around the world, including China and is attracting significant interest. The second vehicle has now been completed and is a fully road going vehicle, featuring the new Microcab interior designs.

Commercial Inquiries:

Microcab are currently taking minimum orders of 5 vehicles for both right hand and left hand drive vehicles, suitable for UK and EU markets. For all inquiries regarding sales or leasing arrangements contact:

info@microcab.co.uk



(MICRO:CAB)[®]

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