



# FRIWO

## SUCCESS STORY

# Brekr Combines Smart Design with Radical E-Mobility Innovation

**E-mobility start-up relies on a powerful drive and control system from FRIWO for its electric moped.**

Brekr started developing Model B with the aim of launching an electric moped that surpasses all other models in terms of design and technology. The two start-up founders Jasper Hagedoorn and Niels Willems were looking for an experienced partner for the technical implementation. After testing numerous battery systems, controllers and motors, FRIWO emerged as Brekr's system partner of choice.

## Hard Shell, Soft Interior: Brekr Model B Offers Maximum E-Mobility Driving Comfort

If you want to develop a groundbreaking technical product, you need competent partners. When the two e-mobility enthusiasts Jasper and Niels wanted to turn an ingenious idea into a highly innovative product in 2017, it soon became clear that having reliable partners is essential for technical feasibility. But one thing at a time.

Jasper and Niels felt that aesthetic electric mopeds or scooters had not been produced for a long time. Most products looked more or less the same. In addition, many models had a fuel tank – not a fully developed e-mobility concept.

That's why Jasper and Niels founded Brekr. With the Brekr Model B, the start-up developed an electric moped that did not exist in such a form. The form should follow the function, with Brekr focusing on minimalist design and the art of omission – less is more!

**"First impression:  
Who stole the moped  
from the Blade Runner  
movie set?"**

**DER SPIEGEL**

Brekr started developing Model B with the aim of launching an electric moped that did not yet exist in such a form. Brekr combines the past with the future in a unique and functional design. Rough shell meets driving comfort and state-of-the-art technology. An electric moped that puts a smile on the faces of e-mobility fans.

More information:: [brekr.com](https://brekr.com)



No fuel tank, but rather a low-positioned battery box. This means that the Brekr Model B has a low center of gravity, resulting in improved handling qualities. At the same time, proven design principles from the world of mopeds and scooters have been adopted to ensure a recognition effect. The mission of Brekr is to intelligently combine proven with radical innovation.

## Powerful Motor, Maximum Battery Capacity and a Smart Controller: Brekr Relies on FRIWO

Brekr started searching for the most important technical components during the design process. The team relied on the long-standing experience gained by its members in technical development, e.g. in the homologation of S-pedelecs. Although there are some similarities between a 45 km/h bike and an electric moped, the heart of the drive and control system beats differently. Brekr needed a more powerful motor, increased battery capacity and a controller that could seamlessly control them.

The search for technical components took Brekr right across the world – from Europe to North America and Asia. The systems and components that initially appeared to be suitable on paper were built into prototypes to test their functionality, reliability and performance in practice.

### Technische Spezifikationen

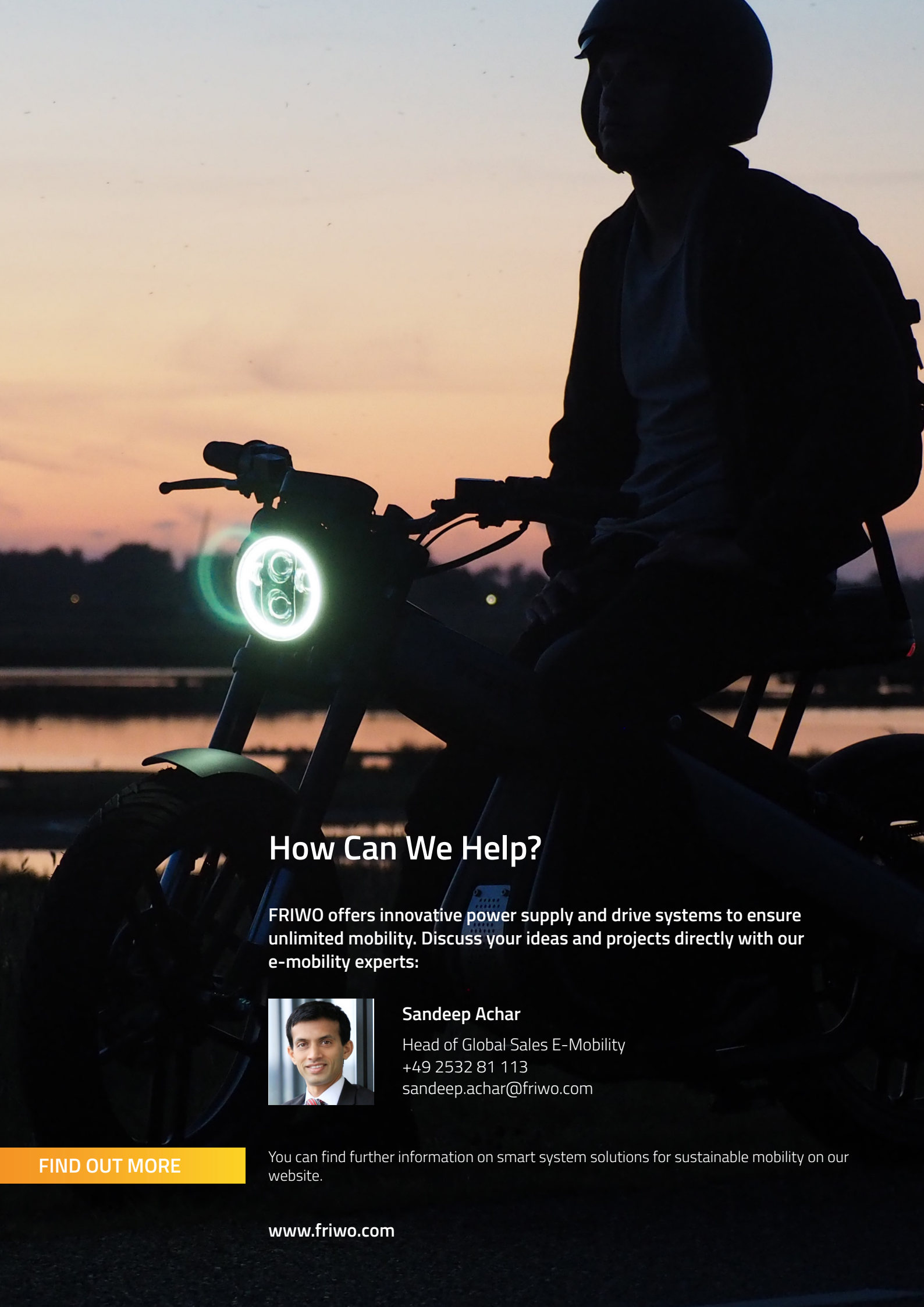
Motor	2,500 – 4,000 watt hub motor
Battery	2.0 kWh Li-Ion
Frame	Aluminium
Operating range with 1 battery	50 – 80 km
Operating range with 2 batteries	100 – 160 km
Speed	25/45 km/h
Weight	78 kg (incl. 1 battery)

After testing numerous battery systems, controllers and motors, FRIWO emerged as Brekr's system partner of choice. As one of the few potential partners, FRIWO stood out from the crowd as a supplier of complete system solutions. This distinguishes them in this relatively young market and makes FRIWO a reliable partner for Brekr. They have been able to provide all the necessary information at all times. After just a few discussions, FRIWO was able to provide Brekr with excellent support in further developing the system in order to achieve optimal functionality.

The Brekr team confirms: "We directly felt FRIWO's desire to develop a first-class product with us. The enthusiasm for the Brekr Model B was sincere. Together we turned the design into a reality. We have been working together for some time now and have found the cooperation to be seamless, which will only serve to boost our confidence in them in the future."

Like FRIWO itself, Brekr also relies on long-term cooperation with partners who work together to further improve what has been achieved and create new innovations. Brekr and FRIWO are an excellent match.





## How Can We Help?

FRIWO offers innovative power supply and drive systems to ensure unlimited mobility. Discuss your ideas and projects directly with our e-mobility experts:



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You can find further information on smart system solutions for sustainable mobility on our website.

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