

PRESS RELEASE

2024, March 10

A green drive technology developed in Baden-Württemberg / Germany is setting new revolutionary standards and paving the way for a more sustainable and efficient use of wind energy.

Given the current challenges in the wind energy industry, the future looks promising with SENTI, a pioneering technology that is revolutionizing the way we use wind energy.

Today's reality of wind turbines shows technical vulnerabilities, lack of yield in low and high winds and expensive, cumbersome gearboxes in the wind turbine.

But SENTI is fundamentally changing this picture.

"Wind turbines with SENTI are not only low maintenance, but also achieve impressive yields even in light winds. Even with strong wind speeds of up to 150 km/h, the energy harvest is maintained - the wind turbine does not have to be switched off. There is only one SENTI pump in the nacelle at the top of the wind turbine, the generator remains on the ground and there is no gearbox or control cabinet for the electronics. This is not only cost-effective, but also low-maintenance and truly sustainable," says Steffen Breuninger, Managing Director of SENTImotion GmbH.

In addition, two key components are among the most pressing problems in the wind energy sector:

1. Neodymium in wind turbine magnets: The production of neodymium, an important component of wind turbine magnets, results in harmful by-products such as thorium and uranium.
2. Sulphur hexafluoride (SF6) in electronic control systems: SF6 is often used in electronic control systems and contributes to a significant carbon footprint. One kilogram of SF6 has roughly the same climate-damaging effect as 23,000 kilograms of CO2.

These problems are also completely solved with SENTI. A magnet-free solution eliminates dependence on neodymium. In addition, with SENTI there is a 100% SF6-free wind energy solution that significantly reduces environmental pollution and carbon dioxide emissions.

SENTI acts as a key technology for the economic design of wind energy. The technology underpins its advantages with impressive figures:

- Up to 65% lower production costs
- Up to 80% lower maintenance costs

- Up to 75% longer switch-on and running times
- Up to 75% higher power harvest
- Up to 60% lower CO2 footprint
- Magnet-free solution, without SF6

Founded in July 2021, the company has developed the state-of-the-art SENTI universal drive. SENTI technology addresses applications in a wide range of industries worldwide, including water and wind power, automotive, marine, construction machinery, mechanical engineering, aerospace, refrigerators, heat pumps, robotics and more.

"In every industry in which drives are used, SENTI delivers decisive competitive advantages," confirms Steffen Breuninger, adding: "SENTI's innovative technology enables the intelligent miniaturization and integration of drive components in a single housing, resulting in considerable savings in installation space and weight.

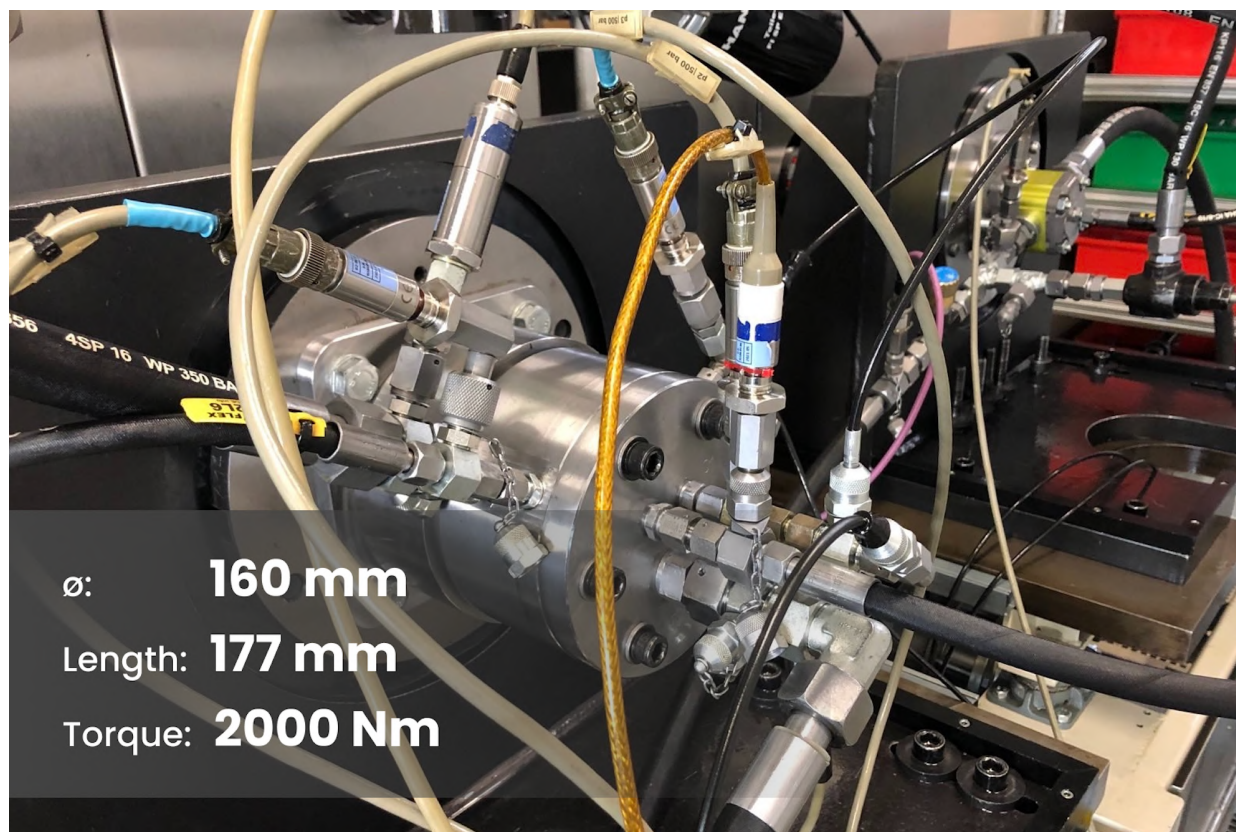
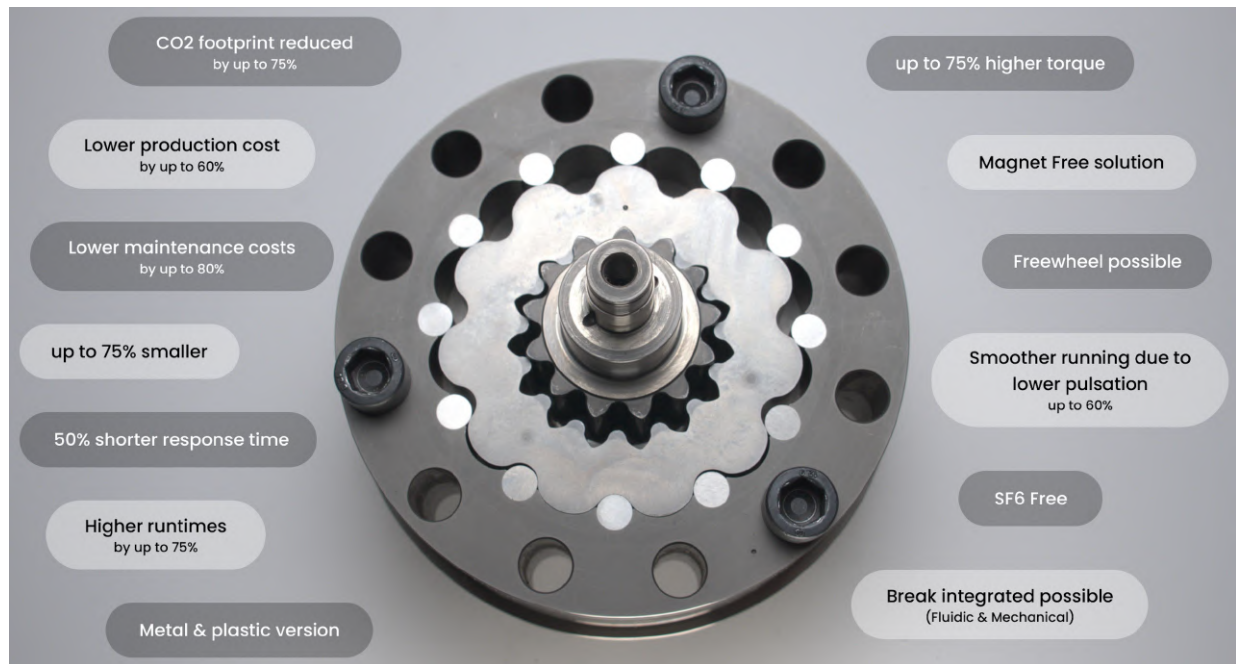
At the same time, the power density and efficiency are significantly increased."

SENTI is extremely versatile and can function as a motor, pump, gearbox and compressor, which underlines its suitability for use in various applications.

"Just like in the 1880s, when Gottlieb Daimler developed the first single-cylinder engine in his small workshop in Bad Cannstatt together with Wilhelm Maybach, our mostly Swabian inventors and the entire SENTImotion development team are also working in a workshop in Bad Cannstatt to shape the green future of drive technology," says Susanne Hahn, Managing Partner of SKV Invest GmbH and co-founder of SENTImotion.

SENTI's pioneering technology has its roots in the early 1960s, when Siegfried Eisenmann developed engines in Neckarsulm, including the Audi NSU TT engine. His desk neighbor was Felix Wankel, the pioneer of the rotary piston engine. Eisenmann succeeded in transferring the technology to transfer the drive shaft of the Wankel engine to the hydrostatic orbital engine, giving birth to a pioneering innovation in the field of hydrostatic orbital engines. It was not until decades later, in 2012, that this technology was further developed by Reginald Baum, an experienced engineer and mathematician.

Today, SENTI is not only paving the way for a more sustainable and efficient use of wind energy but can also have a lasting impact in a wide range of industries and create decisive competitive advantages.



Press contact:

Susanne Hahn

Telefon: +49 (0) 160 860 9593

E-Mail: susanne.hahn@skvinvest.de

Steffen Breuninger

Telefon: +49 (0) 176 5309 3601

E-Mail: steffen.breuninger@sentimotion.de

More about SENTImotion GmbH: www.sentimotion.de

SENTImotion stands for a new era of highly efficient and universal drive technology with maximum power density. It combines all the functions of state-of-the-art drive technology in one system. Thanks to the innovative Hydro drive technology, the functions of the world's best individual components (motor, pump, gearbox, brake) are intelligently miniaturized in one housing, while at the same time increasing the power density. All this leads to savings in installation space and weight, increases the service life of the components, reduces maintenance costs and is scalable with maximum torque.

More about SKV Invest GmbH: www.skvinvest.de

SKV Invest is an award-winning impact investor and venture builder with an experienced team of well-connected entrepreneurs who have joined forces to make a difference for society. SKV Invest accompanies the founders of sustainable and innovative business models on their entrepreneurial journey as a "managing partner" and equips them with everything they need to successfully grow their business. The SKV Invest Impact Portfolio consists of a number of companies in the digital marketplace AI platform sector (Zefyron GmbH), deep-tech hydraulics technology (SENTImotion Holding GmbH) or in the infrastructure and mobility services sector (HyperPark Ltd.) and 1886Ventures, which was restructured following the spin-off of the Lab1886 activities from the heart of Mercedes-Benz - and which is now focusing on the further commercialization of three companies in the areas of fuel cell energy (Globe Fuel Cell Systems), vehicle subscription (CARVE8) and circular economy (CIDA). Two venture activities have already been successfully sold.