

# Press Release



## FEV launches fully integrated turnkey solution to test latest generation high-voltage batteries

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Aachen, September 2020 – FEV's software and testing solutions division, FEV STS, and Heinzinger electronic announced a cooperation in the field of turnkey testing solutions for high voltage batteries up to 1.2 megawatts, 1,200 volts and 2,400 amps. This fully integrated solution with unprecedented characteristics will facilitate the development and validation of latest generation batteries for high performance electric vehicles. It will be available for customers around the world and is already operational at FEV's new battery development and testing center near Leipzig/Germany (eDLP).

FEV STS is fully integrating “ERS-BIC” DC devices from Heinzinger electronic, a renowned expert for state-of-the-art high-voltage electrical power supplies. "Partnering with Heinzinger adds significant value for our stakeholders. We identified their technology as a perfect fit to be integrated in our solutions for testing future battery pack generations in new test centers", said Martin Rebbert, Group Vice President, FEV STS.

Besides unmatched performance in terms of power, reaching up to 1.2 MW, 1,200 V, and 2,400 A, the device allows for a battery to be either simulated or tested. It benefits from smart energy management where excess energy can be returned to the network, or even to other installations, resulting in substantial energy savings. “This feature is extremely valuable for a test center, managing several test benches,” said Rebbert. “With

these new capabilities, FEV STS becomes a key player in battery test bench solutions".

"FEV is a leading company in battery development and testing. It operates according facilities in Germany, France and China, thus gathering a unique understanding of current and future requirements," said Alfred Werndl, Managing Director of Heinzinger electronic GmbH. "FEV offers the best technical solution to customers, with our products being part of the integral offering. In addition, FEV STS has subsidiaries and qualified commissioning teams in Europe, the USA, China, Japan and many other countries. This gives Heinzinger unique access to the market."

Besides Heinzinger's power supplies, a climate chamber and automation system capable of testing up to four batteries on the test bench at the same time are included in this brand new solution. The integration of Heinzinger technology in FEV STS test cells is already proven. It is in use at various customers as well as FEV facilities, in particular at the recently inaugurated eDLP, the company's high-voltage battery development and testing center near Leipzig, Germany. It is the largest of its kind in the world.



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Source: FEV Group / Heinzinger electronic



FEV's turnkey solution will be available for customers around the world and is already operational at the company's new development and testing center for high-voltage batteries (eDLP).

Source: FEV Group



FEV's software and testing solutions division, FEV STS, is fully integrating "ERS-BIC" DC devices from Heinzinger electronic, a renowned expert for state-of-the-art high-voltage electrical power supplies.

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## **About FEV**

FEV is a leading independent international service provider of vehicle and powertrain development for hardware and software. The range of competencies includes the development and testing of innovative solutions up to series production and all related consulting services. The range of services for vehicle development includes the design of body and chassis, including the fine tuning of overall vehicle attributes such as driving behaviour and NVH. FEV also develops innovative lighting systems and solutions for autonomous driving and connectivity. The electrification activities of powertrains cover powerful battery systems, e-machines and inverters. Additionally FEV develops highly efficient gasoline and diesel engines, transmissions, EDUs as well as fuel cell systems and facilitates their integration into vehicles suitable for homologation. Alternative fuels are a further area of development.

The service portfolio is completed by tailor-made test benches and measurement technology, as well as software solutions that allow efficient transfer of the essential development steps of the above-mentioned developments, from the road to the test bench or simulation.

The FEV Group is growing continuously and currently employs 6700 highly qualified specialists in customer-oriented development centers at more than 40 locations on five continents.

## **About FEV STS**

Within FEV Group, FEV STS is in charge of the realization of software and testing solutions. It offers state-of-the-art test benches and measurement technology as well as software solutions that allow efficient transfer of essential product development steps from the road to the test bench or a simulation. FEV STS offers its services worldwide with teams supporting clients locally.

## **About Heinzinger**

Heinzinger electronic GmbH has been developing, manufacturing and selling high-voltage and high-current power supplies for various industries for over 60 years. For more than a decade, Heinzinger has been dealing with the power supply for automotive test benches, especially for electro mobility. Due to the high dynamic properties and the application knowledge of Heinzinger, the battery testers and simulators are particularly suitable for development and quality assurance, but are also used in the entire value chain up to end-of-line testing.