

# NEWSLETTER

BENTELER – Your System Supplier in E-Mobility

October 30th, 2020

**BENTELER**   
makes it happen



## ACTUAL TEST DRIVES WITH THE BENTELER ELECTRIC DRIVE SYSTEM (BEDS) CONFIRM ITS PERFORMANCE

Together with our partners, we have built a rolling chassis technology demonstrator. Its name: BENTELER Electric Drive System 2.1. It's an impressive demonstration of how quickly and efficiently a mule can be set up on the BEDS platform. BEDS 2.1 is a turnkey ready-to-use rolling chassis, covering almost all the functions of a full vehicle. To simulate the real weight of the vehicle, additional masses were brought in, so that the tests are representative of full vehicle behavior. With all-wheel drive, 300KW of power and a driving range of more than 400km it's great fun to drive.

All components and systems are developed with a focus on a clear performance target book and industrialization feasibility. BENTELER, Bosch and Vibracoustic used BEDS 2.1 to optimize the interfaces while jointly work on the system integration of the platform. All functional systems were tested, e.g. brakes, steering, battery pack and especially the vehicle dynamics from the Integrated E-Chassis Modules (IEM). The robustness of the platform was also analyzed by installing strain gauges and measuring the dynamic loads of the chassis. The results confirm the engineering data from the virtual development, an important step in the maturity level of the BEDS Rolling Chassis and the platform.

This pre-validation is one of the benefits of the BEDS platform. Every customer can carry over this results for their own vehicle development when using the platform. This saves costs and shorten the development time.



Dear All,

*System integration is more than the sum of the parts. The challenge is dealing with different systems from different suppliers rather than your own familiar components and systems. System integration means changes in components or software that would not have happened with in-house development. This makes cooperation very valuable. And while that means dealing with different company cultures, processes and people.*

*Together with Bosch and Vibracoustic we bring a strong shared engineering culture, it's like working with friends. You can see and feel it in BEDS 2.1.*

Regards  
Marco Kollmeier

For further background about our e-mobility solutions please visit our website: [www.benteler-automotive.com/e-mobility](http://www.benteler-automotive.com/e-mobility)

### Questions? Please contact:



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