



Emissions sensor innovation

▶▶ To help its customers worldwide with compliance to future emission standards during the development of combustion engines, Critt M2A continues to enlarge its exhaust gas analysis offering. The French company is now equipped with an all-new AVL MSSplus (Micro Soot Sensor). This equipment enables the continuous measurement of exhaust particle flow down to very low levels of matter.

With the new service available, complete instrumentation can be proposed for the post-treatment system with temperature probes, sampling points, oxygen probes and pressure sensors.

Other improvements have also been made in Critt M2A's engine department. A study has been carried out to quantify and improve acoustic performance of an internal combustion engine, including the vibration behavior,

acoustic radiation and subjective qualification. Critt M2A's NVH and engine teams came together with their partners to implement test means, sensor instrumentations, as well as other specific analytical methods and tools needed to run this study. This testing campaign enabled the identification of multiple optimization areas for improved acoustic performance.

To provide the most cutting-edge technology and apply an environmental policy based on energy solutions, the company has also invested in new skills in electrification. Started two years ago, Critt M2A's Electrical Test Center is now fully operational. Composed of a series of power equipment in climate controlled environment (from -40°C up to +90°C (-40° to +194°F)), the test center features 96 single cell test channels (from 2-4kW) and five 50kW battery modules. This enables testing and behavior characterization of energy storage systems (including specific chemistry) to improve the autonomy of batteries. The highly dynamic means available can be combined with spectroscopy impedance measurements as well as Ripple simulation, to ensure in-depth analysis of energy storage system behavior.



FREE READER INQUIRY SERVICE
 To learn more about Critt M2A visit:
www.ukimediaevents.com/info/etm
INQUIRY NO. 511

Airflow solutions

▶▶ Eaton TVS technology opens up a new world of possibilities for products that require precision airflow solutions. No longer applied only as a supercharging device used to increase horsepower and torque, TVS technology has reached a transition point, evolving as a tool with a range of applications across various industries.

There is no set formula or segment in which a supercharger is used. Eaton superchargers can also be found on jet skis that require a small engine with high power density, or in a V8 engine for a performance vehicle. Superchargers also can work in concert with turbochargers in extreme engine downsizing applications.

Hydrogen fuel cells, once considered a future technology, are here today and Eaton's TVS technology can be used to compress air and pump it into the fuel cell stack, enabling a chemical reaction that generates electricity. TVS is also a key enabler for industrial safety applications when pressurization is used to keep particles out of an engine bay.

The company's TVS technology plays an integral role in enabling new advanced combustion solutions by providing a rapid transient response with precise, metered airflow that is not reliant on the many exhaust energy solutions found in today's mainstream market. Other future applications for TVS superchargers include generating hydropower by capturing the kinetic energy of various waterways.



FREE READER INQUIRY SERVICE
 To learn more about Eaton visit:
www.ukimediaevents.com/info/etm
INQUIRY NO. 512



- ENERGY STORAGE
- TURBOCHARGER
- ENGINE
- NVH



INDEPENDENT TESTING CENTRE

CONFIDENTIALITY

DEVELOPMENT

EXPERTISE

TESTING

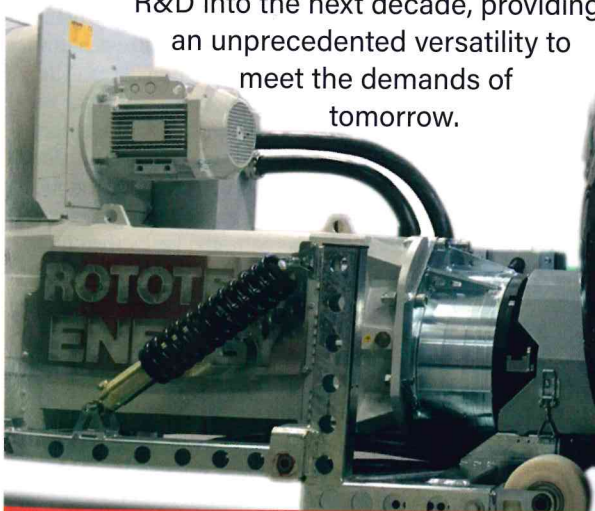
R&D

WWW.CRITTM2A.COM

Rethinking Powertrain Testing



Rototest has established a new benchmark for Powertrain Dynamometers. Time optimizing and cost reducing solutions that will advance your R&D into the next decade, providing an unprecedented versatility to meet the demands of tomorrow.



Experience it live at Automotive Testing Expo Stuttgart Stand #1234
 Learn more about our testings solutions at www.rototest.com