

PRESS RELEASE

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Testing solutions from MBtech for the Chinese automotive market

At the Automotive Testing Expo China from September 15 to 17, 2009, development engineers can obtain information about tools and services which make trials and testing more efficient for automotive development. MBtech presents its solutions at the leading exhibition in Shanghai's Everbright Convention & Exhibition Center. One of the focal topics: MBtech's own PROVEtech products, which enable the cost efficient automation of testing procedures - including those using image-processing systems. In addition, MBtech's powertrain solutions segment also displays new opportunities for sensor tests as well as for control unit development for small engines and microengines.

"Since 2006 MB SIM Tech has offered the MBtech Group's services specifically for the Chinese market", stated Dr. Werner Kropsbauer, President and Spokesman MBtech Group. "Our presence at the Automotive Testing Expo is an important opportunity to present our competencies and our service portfolio - with a view towards both new and existing customers."

PROVEtech toolsuite from MBtech for automated testing

The PROVEtech toolsuite from MBtech's electronics solutions segment simplifies testing networked electronics components and control units. **PROVEtech:TA**, for example, is practical operating software developed by MBtech for controlling and automating test systems. The possible applications range from testing a broad variety of control unit models (MiL = Model-in-the-Loop) onward to HiL testing for individual or multiple control units in a network. At its exhibition stand in Shanghai, MBtech utilizes the integration of entertainment electronics into an automobile to demonstrate just how much PROVEtech:TA simplifies the testing procedures.

MBtech's electronics solutions segment has developed the PROVEtech:VL testing instrument for the software in active, a camera-based driver assistance system: An innovative Hardware-in-the-Loop (HiL) system which enables image processing control units, such as lane departure warning systems, to be tested in the laboratory under photorealistic conditions. A demonstrator vehicle shows the exhibition's visitors how **PROVEtech:VL** reduces development and testing costs by means of automated, reproducible and easily variable software tests.

Sensor testing and control units for small engines

A large number of systems in the vehicle requires the communication between the sensors and the control units to function correctly. The control software must even include control options capable of handling sensor failure. The **SVEa07 adjustment unit** from MBtech's powertrain solutions segment tests this especially well: It enables electrical faults to be simulated on the sensor being tested. The simple activation process serves to reduce the time required for testing the individual sensor functions in the control unit by two thirds. In view of the fact that modern automobiles contain thousands of sensors this represents an enormous savings potential during the development phase.

Whereas "downsizing" has long been a focal point in the search for savings potentials for combustion engines, small engines and microengines have received little attention, above all in emerging nations. Yet these engines can be made considerably more efficient and quiet simply by means of additional control electronics and sensors. At the Automotive Testing Expo China, MBtech proves this with a **miniaturized A sample system**. The control unit, whose core consists of a powerful processor running MBtech software, handles the signal processing and the complex control algorithm of the combustion and injection processes in the small engine. MBtech thus transfers its development competence in developing passenger vehicle engines to two-stroke and four-stroke engines for non-automotive applications such as emergency power generators or motor scooters.

About the MBtech Group

The MBtech Group is an internationally leading automotive engineering and consulting company for the automotive industry. The company has 2700 employees at locations in Europe, North America and Asia. In 2008 the MBtech Group generated a turnover of 360 million euros.

MBtech is distinguished by the tightly meshed development and consulting services covering the entire automotive value chain. The MBtech brand combines all of its products and services into four segments: MBtech vehicle engineering, MBtech powertrain solutions, MBtech electronics solutions and MBtech consulting.

Regardless of whether components, systems or modules, new development, integration or testing are required: MBtech supports automobile manufacturers and suppliers beginning with the detailed specifications, covering the design, calculation and testing onward to series maturity. MBtech combines these engineering competencies with tailored consulting services which enable customers to best utilize their technologies and innovations – and thus achieve clear competitive advantages.

Your contact for further questions:

MBtech Group
Ulrike Bless
Head of Communications
Kolumbusstraße 19+21
D-71063 Sindelfingen
Fon: +49 7031 686-4586
media@mbtech-group.com
www.mbtech-group.com