AVL EMCON 6™

Experience the performance

‹ Operation with AVL EMCON 6™ integrated into AVL PUMA Open 2™

THE ADDED VALUE

With its software solution AVL EMCON 6™ AVL provides sustainable quality for your test field. The product benefits from experience gathered across thousands of testbeds.

- Bundling of know-how from engineering and testing.
- Continuous merging of market trends to standard solutions.
- World wide racing experience.
- Future-proof through application specific standard solutions.
- Reliable and approved safety concept.

Usability

THE CHALLENGE

Flexibility for multiple tasks

The cost of ownership of testing equipment needs to be minimized. It is therefore essential to use the same equipment for different testing tasks.

Efficient use of testing resources

OEMs are facing the challenge maintaining high quality while controlling product timing and costs. An efficient use of the accurate testing resources in a test field is the key to success.

REGISTER NOW!

AND GET YOUR PERFORMANCE BOOSTER.

www.avl.com/performance

THE AVL SOLUTION

One fits all

One control system fits the various testing tasks with multiple units under test. Engine, e-motor, powertrain and chassis dynos are the testing domains of AVL EMCON 6™.

Future-proofing by providing custom fitted standard solutions

Stable standards and formats help our customers to run reproducible tests with comparable outputs. Different customizations help to model the system to the specific needs of different testing tasks. This transfer of customizations to the product standard is what guarantees AVL EMCON 6™ as a fully future-proofed solution.

Performance

THE CHALLENGE

Better comparison of vehicle components

In series production the quality level of the produced parts need to stay on the highest level to fulfill the end-customer's expectations. A change that results in a decrease in production can cause serious damage to a company's image and leads to expensive recall campaigns.

Safety for expensive prototypes

Prototypes of newly developed vehicle parts are rare and expensive. When testing the prototype's limits - for example in terms of performance or long-term durability - a reliable safety net is important.

THE AVL SOLUTION

Better reproduction of driving conditions

It provides an accurate reproduction of the driving conditions on the road by the right mixture of controller basic functions and simple definable degrees of freedom.

Five times faster control of the test system

In sport, accuracy is the basis to compare athletes down to the millisecond. In testing the fast and accurate control of AVL EMCON 6™ supports a clear comparison of vehicle parts and the results of the vehicle parts.

EtherCat® based I/O for high performance applications - ETC-FEM-FIO

POWERTRAIN DEVELOPMENT IS A TEAM SPORT

Today´s requirements in powertrain development move forward every second. Complex systems, shorter times to market and a global world of opportunities challenge you to be better, more flexible and faster than your competitors.

Development tasks aren't stand-alone. And it's not (just) about how good single individuals or tools are…

… it's about how well they work together.

AVL Team SUITE™

SUCCESS BASED ON INTERPLAY

www.avl.com/meet-the-team

COMBINE YOUR STRONG TEAM FLEXIBLY OUT OF COMPATIBLE, COMPLEMENTARY PLAYERS TO MEET YOUR NEEDS.

- AVL PUMA Open 2™
- AVL EMCON 6™
- AVL LYNX 2™
- AVL SANTORIN MX 2™
- AVL TESTLIFE 1™
- AVL CAMEO 3™
- AVL CRETA 4™
- AVL CONCERTO 4™
- AVL-DRIVE 4™
- AVL VSM 4™
- AVL ARTE.Lab 4™
- AVL InMotion 4™
- AVL IndiCom 2™
- AVL iGEM 2™
- AVL TESTGATE 1™
- AVL ISAC 6™

… and more joining soon

SUCCESS BASED ON INTERPLAY

Easily extendable to new customer needs

AVL EMCON 6™
EXPERIENCE THE PERFORMANCE

PRODUCT FUNCTIONS

OPEN PLATFORM

AVL EMCON 6™ fully supports the AVL Integrated Open Development Platform strategy.

Modular platform for all testbed configurations

Using the modular standard platform provides a stable and well defined interface for the customer specific model to fit the need of the current and upcoming testing task.

Open system for special control tasks and simulation

Bring your own model from the office to the testbed and integrate it into AVL EMCON 6™. On one hand it gives the needed flexibility combined with all the benefits of a standard system embedded into AVL PUMA Open 2™.

Simulink customer models integration via AVL ARTE.Lab 4™

The AVL ARTE.Lab 4™ creates the real-time environment for controller - and simulation models as well as enhanced calculations needed at the testbed. During operation the testbed personnel do not need to worry about the structure or insights of the models; they just use it.

HIGHLIGHTS

PROVEN CONSISTENCY - ALONG THE DEVELOPMENT PROCESS

With AVL EMCON 6™ an increased efficiency for your test operation is granted. The highlights of the generation AVL EMCON 6™ in combination with AVL PUMA Open 2™ automation system underlines your future – experience of performance.

- No more text file editing via deeper integration into automation.
- Time saving by offline parameter checks in target configuration.
- More accuracy by using 5kHz controller and I/O frequency.
- Simplified test field roll out by modular handling of testbed configurations.
- EtherCAT® support in addition to the standard IEEE1394 interface.

Proven consistency

AVL ISAC 6™

The quick entry to simulation

AVL

Simplicity

THE CHALLENGE

The need for a standardized look and feel

A significant issue is that different systems and software products currently require a significant learning period before reaching smooth operation mode.

Quick entry to simulation

Robust and stable simulation for day to day tasks.

THE AVL SOLUTION

With AVL ISAC 6™ realtime simulation is just one-click away. It allows simulation of vehicle, transmission, driver and road load.

Unified user experience

With the unified user experience of automation, control and simulation operation of the software becomes easier. Training effort decreases.

Embedded simulation

The AVL ISAC 6™ simulation is a well-integrated part of the automation system. Starting and operating the simulation needs no additional action nor effort.

FOR FURTHER INFORMATION PLEASE CONTACT:

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