**AVL FIRE™ M**

Novel capabilities in CFD pre-processing, main program and post-processing integrated in the AVL Simulation Desktop.

**THE CHALLENGE**
- Shorter development cycles and increasing cost saving pressure
- Stringent requirements for product functionality, quality, safety and environment friendliness
- Growing number of interacting, even contradicting design targets
- Increasing complexity of simulation models representing systems rather than components
- Need to exchange and share large amounts of information

**THE SOLUTION**
- Simulation driven development and frontloading fully integrated in the product development process
- Predictive simulation models
- Multi-disciplinary simulation solutions
- Seamless data exchange across component boundaries
- Automated result analysis and reporting
AVL FIRE™ M – TURNING VISIONS INTO SOLUTIONS

AVL FIRE™ M offers faster model setup, execution and post-processing resulting in its ability to investigate large numbers of design variants more efficiently and with superior outcome.

THE BASIS FOR MORE
• Simple to learn and to use, fast and robust
• Multi-domain modelling capabilities
• Simultaneous execution of fluid flow, heat transfer and thermal load analysis
• Readily available for large volume simulations
• Parameterized input, case explorer, data pooling, job submission and monitoring, material property database for common fluids and solids
• One tool for computing, visualization and communication
• Cost effective solution for standard CFD Simulations

EXCELLENCE IN DOING
Typical applications include the analysis, development and optimization of fluid flows in:
• intake and exhaust ports
• manifolds and lines
• ventilation and air conditioning equipment
• internal and external aerodynamics
• cooling systems and
• heat transfer and thermal load of structural parts.

FOR FURTHER INFORMATION PLEASE CONTACT:
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