

**Press Release:**

**Flowmaster Group releases Flowmaster V7 Gas Turbine – The first commercial product to address the needs of Secondary Air and Fluid Mixing applications for CFD system simulation**

Flowmaster Ltd, a leading global provider of CFD system simulation software, is pleased to announce the release of Flowmaster V7 Gas Turbine. The first dedicated thermo/fluid system simulation software tool developed specifically to meet the challenges of the Gas Turbine industry. Flowmaster V7 Gas Turbine will significantly benefit the way organisations implement the design and simulation of fluid and thermal systems throughout their development process.

By working closely with leading global gas turbine organisations and gaining an understanding for their simulation needs, Flowmaster has created a solution that enables organisations to integrate system simulation software with their existing CAE and CFD tools, providing an integrated approach and a robust core for fluid system design processes.

Flowmaster V7 Gas Turbine brings the first commercial product to address the needs of Secondary Air and Fluid Mixing applications to the CFD system simulation market. With an integrated swirl solver engineers are able to calculate the swirl generated by rotating components in a gas turbine engine and geometrically induced swirl such as is generated by preswirl nozzles. Through the use of complex cavity components and cavity wizard, Flowmaster utilizes the swirl solver to simulate the secondary air systems of gas turbine engines. This capability is also flexible enough that it allows individual companies to customize the software to use their proprietary correlations for the flows through these rotating passageways. In addition, Flowmaster V7 Gas Turbine enables engineers to model the mixing of multiple liquids or gases, calculating the fluid properties of the mixture during the analysis. This is particularly useful when modeling steam injection in combustors and fuel systems of power generation turbines utilizing syngases.

The product also incorporates a catalogue of industry-tailored components, including labyrinth seals, rotating cavities, annular passages and specialized orifices, all of which are customisable. Users can build and customise their own component catalogues - reducing project time and improving the quality and repeatability of initial designs.

By utilising a central database structure and adding powerful security and accessibility controls, Flowmaster V7 Gas Turbine ensures that simulation data and component models can be safely shared and tracked across your organisation and supply chain.

According to Mike Croegaert, Flowmaster's dedicated Gas Turbine Product Manager, "This new version of Flowmaster will give gas turbine users unprecedented capabilities in secondary air modelling as well as the robust modelling of all gas turbine fluid systems that Flowmaster has historically been used for. This is the first time gas turbine companies will have a fluid system analysis tool specifically tailored to their needs, as well as having the ability to customise and integrate the software with other tools to create a "Best in Class" solution that fits their design processes."

To find out how you can benefit from Flowmaster V7 Gas Turbine visit [www.flowmaster.com](http://www.flowmaster.com).

**About Flowmaster Group**

Flowmaster Group has been supplying system simulation solutions to engineers in the gas turbine industry for over 18 years. These proven solutions have often become entrenched in the processes that are leading towards the continued refinement of the virtual simulation prototype to reduce testing costs and highlight problems far earlier in the design process.

Headquartered in Northamptonshire UK, Flowmaster offers a wide range of fluid and thermal flow products, technical training and regional support to ensure the fastest return on investment possible for our customers.

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