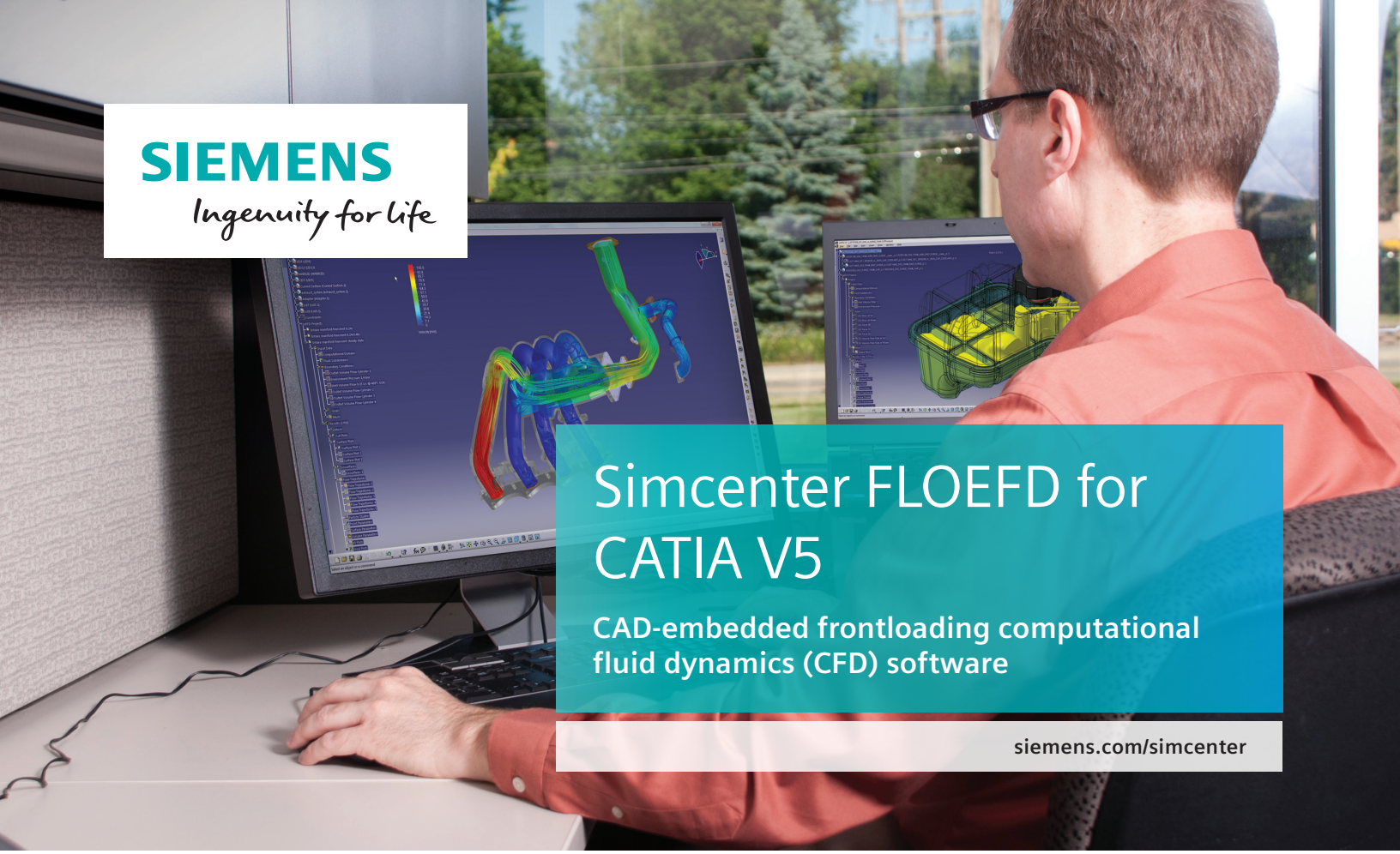

SIEMENS
Ingenuity for life

Simcenter FLOEFD for CATIA V5

CAD-embedded frontloading computational fluid dynamics (CFD) software

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Simcenter™ FLOEFD™ for CATIA V5 is a powerful CFD analysis tool that is fully embedded in CATIA V5. It enables engineers to frontload simulation by moving CFD simulation early into the design process; thus, enabling design engineers to examine and evaluate design options earlier to obtain optimized product performance and reliability.

Simcenter FLOEFD features intelligent automation at its core to make frontloading of CFD a reality:

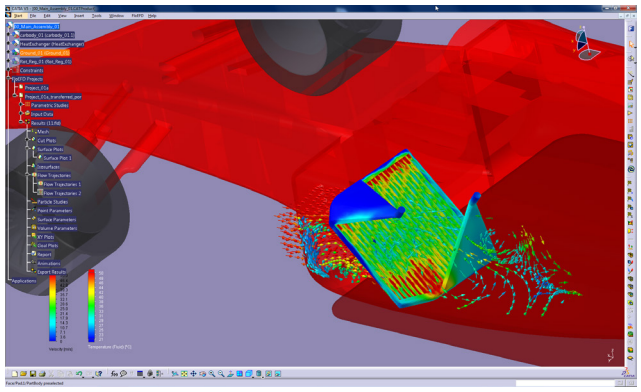
- An intuitive user experience – short learning curve
- Use of native CATIA CAD data – no translation or fluid body creation
- Automatic recognition of geometry changes – geometry and simulation data are synchronized
- Fast automated mesher – fast and easy SmartCell™ meshing
- Unique solver – getting accurate results fast for highly complex geometry
- Powerful parametric study and design comparison functionality for easier what-if analysis

Easy-to-use, fast and accurate, Simcenter FLOEFD can be easily inserted into your current design flow without any disruption to your existing process and reduce your overall simulation time by as much as 75 percent.

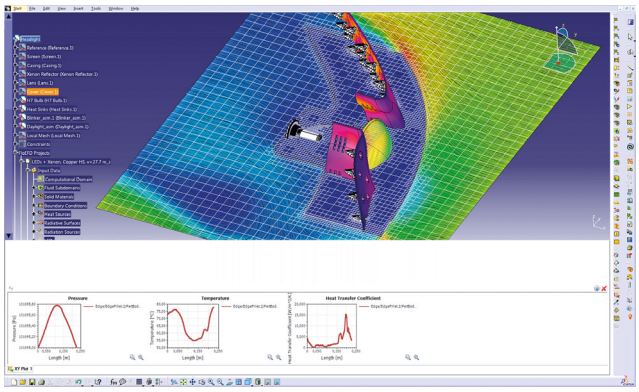
"Simcenter FLOEFD from Mentor helps us to understand and optimize headlamps. Even very complex geometries and test conditions can be investigated with a minimum of effort. New features such as Monte-Carlo radiation and the LED module are especially helpful in speeding the development of very complex products."

Automotive lighting

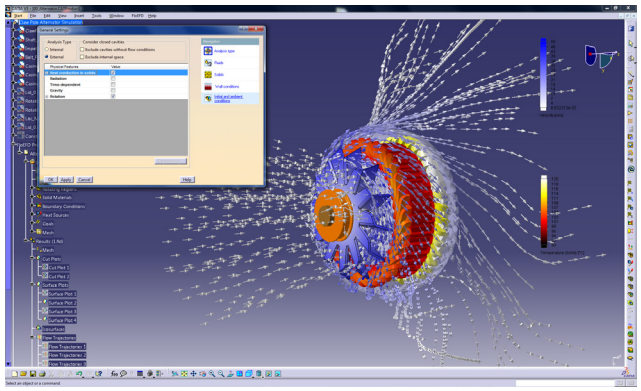
Tight CAD-integrated CFD simulation



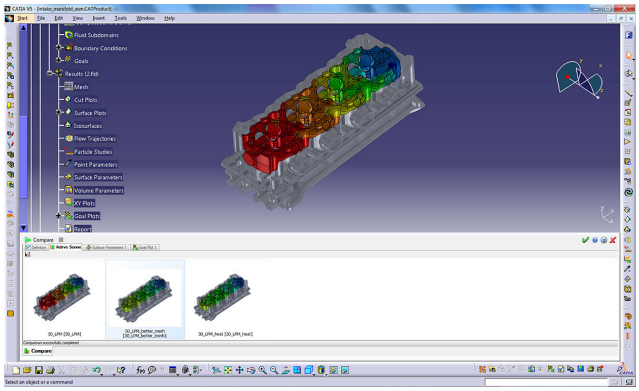
Fast and robust automated meshing technology



Intuitive user experience



Parametric studies and design comparison



If you use CATIA V5 take a closer look at Simcenter FLOEFD – the only fluid-flow and heat transfer simulation tool that fits into your design process without requiring you to change the way you design products.

Siemens Digital Industries Software
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