Simcenter FLOEFD for Solid Edge
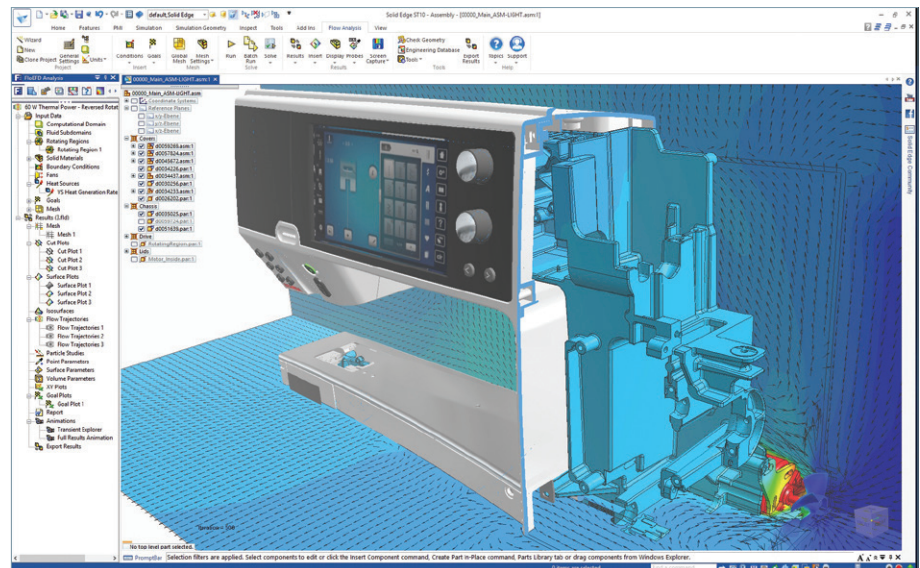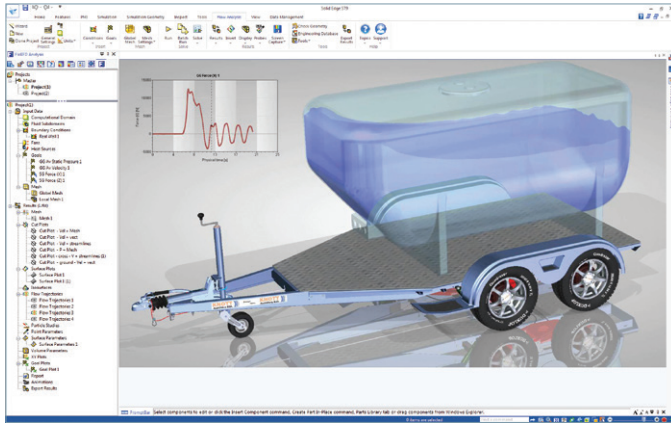
Fluid flow and heat transfer inside Solid Edge

Simcenter FLOEFD for Solid Edge is the only Computational Fluid Dynamics (CFD) analysis tool that is fully embedded in Solid Edge. 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.

Due to ease-of-use, fast meshing and unique solver technology powered by incorporated analytical-empirical models, Simcenter FLOEFD allows for intensive use of simulation and design exploration to gain valuable insight into product behavior.
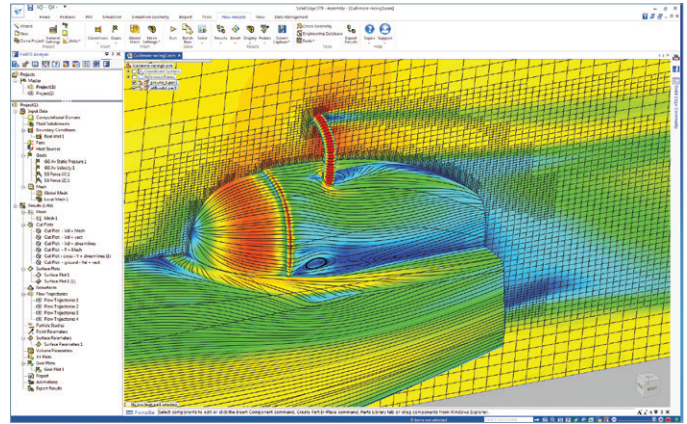
Simcenter FLOEFD features:

- An intuitive user experience – short learning curve
- Use of native Solid Edge CAD data – no translation or fluid body creation
- Automatic recognition of model change – 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
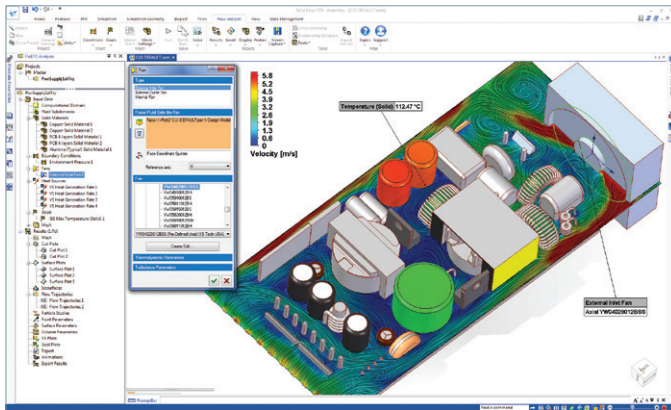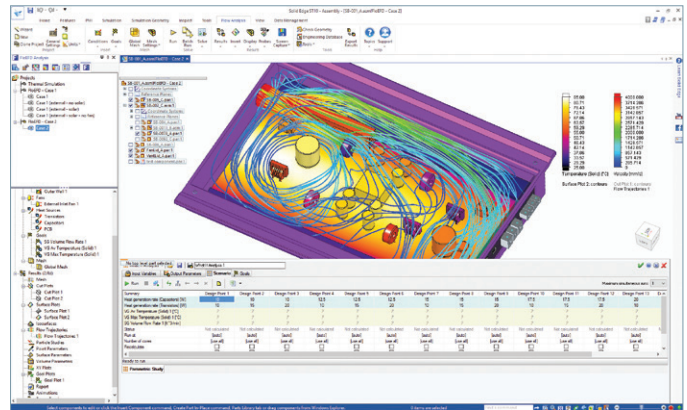
Tight CAD-integrated CFD simulation

Fast and robust automated meshing technology

Intuitive user experience

Parametric studies and design comparison

"We design and build custom automated heat seal equipment, that uses a resistant wire element in the sealing process. These elements are beyond a simple wire; therefore, we need to make sure they perform as designed. We use Simcenter FLOEFD analysis to optimize these elements, as well as the other components in the sealing head assemblies. It has become very instrumental in our business."

Trlby Innovative LLC