

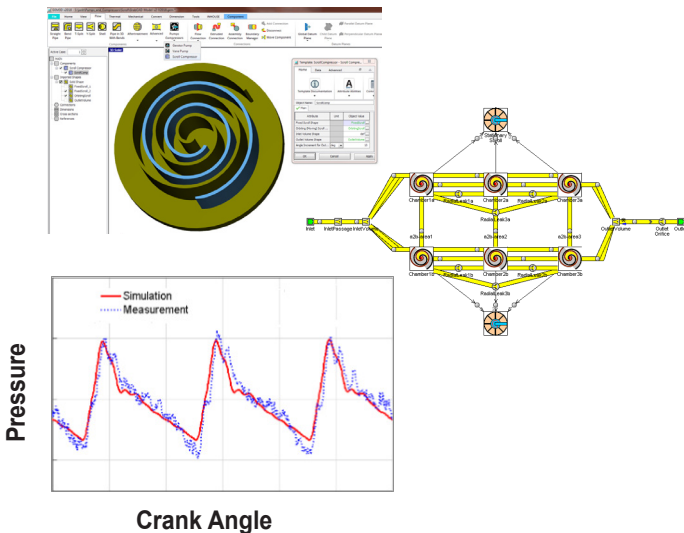
Pump and Compressor Modeling in GT-SUITE

Multi-Physics Model-Based System Simulation

GT-SUITE is an ideal tool for modeling pumps and compressors whether it be for use in system level analysis or predicting detailed component behavior across a wide range of applications including HVAC, refrigeration, hydraulic, fuel, lubrication, cooling, transmission, and aftertreatment systems. This machinery can be studied to predict performance, flow and pressure pulsations, NVH issues, friction, and support bearing performance.

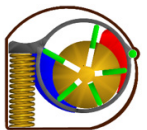
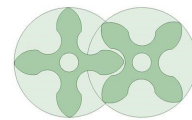
From CAD to 1D with Proven Results

Automatically build 1D scroll, vane, and gerotor style models directly from CAD!



Many Styles Modeled

- Reciprocating
- Scroll
- Screw
- Rotary Vane
- Many More!



Robust Flow Solver

GT-SUITE solves the Navier-Stokes equations in 1D for single phase, two-phase and challenging refrigerant fluids and mixtures.

Optimization and DOE

Explore the design space to quickly achieve optimal designs.