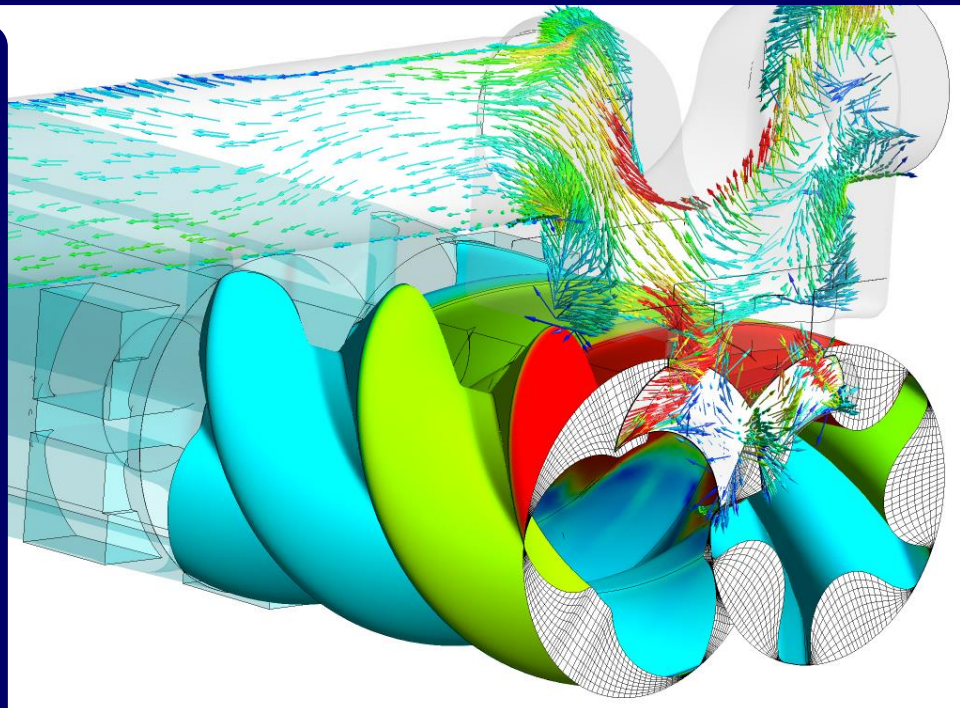
SCORG™

pdm analysis
SCORG@pdmanalysis.co.uk
www.pdmanalysis.co.uk
+44 (0) 20 7040 8780

Design, Grid Generation, Thermodynamics and CFD Analysis of Positive Displacement Screw Machines

- Twin screw compressors
- Twin screw expanders
- Twin screw pumps
  vacuum, multiphase, liquid
- Twin screw motors
- Three and four rotor screw machines
- Roots blowers
- Gear pumps, fuel pumps
- Progressive cavity pumps
- Rotary screw extruders
- Vane compressors, expanders and pumps



Easy design of oil free screw compressors using SCORG™ in conjugation with Simerics-MP+, Ansys CFX®, Ansys Fluent, STAR-CCM+®, OpenFOAM® or GT-Suite

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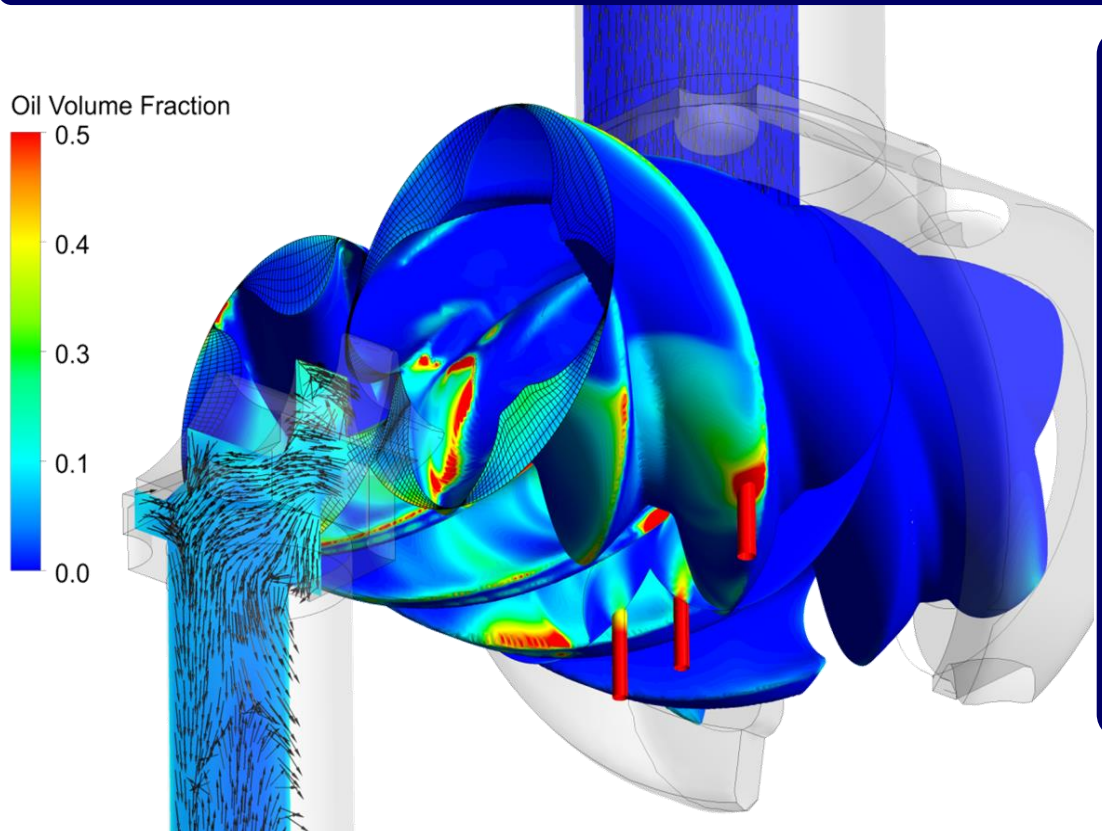
CFD Analysis of multiphase flows in Positive Displacement Screw Machines

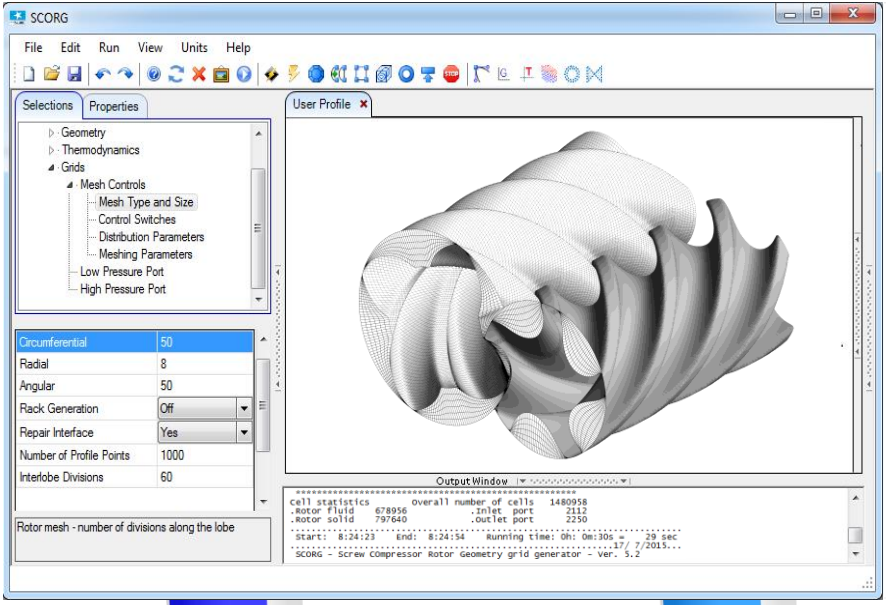


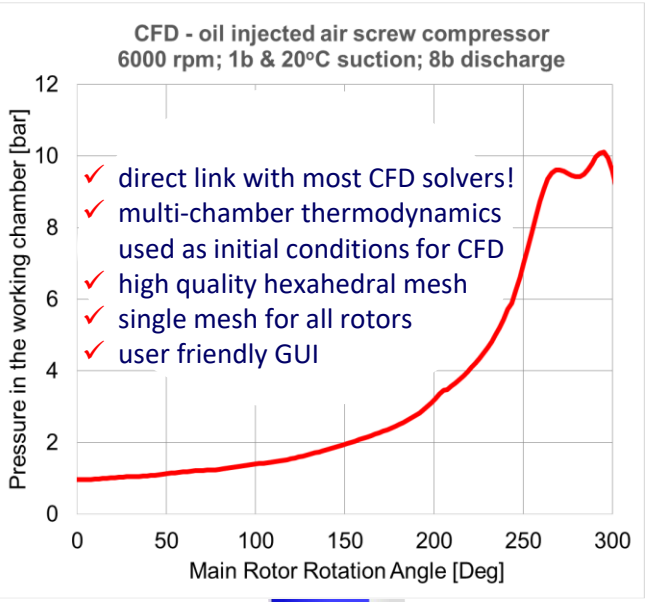
accurate and reliable multiphase calculation of

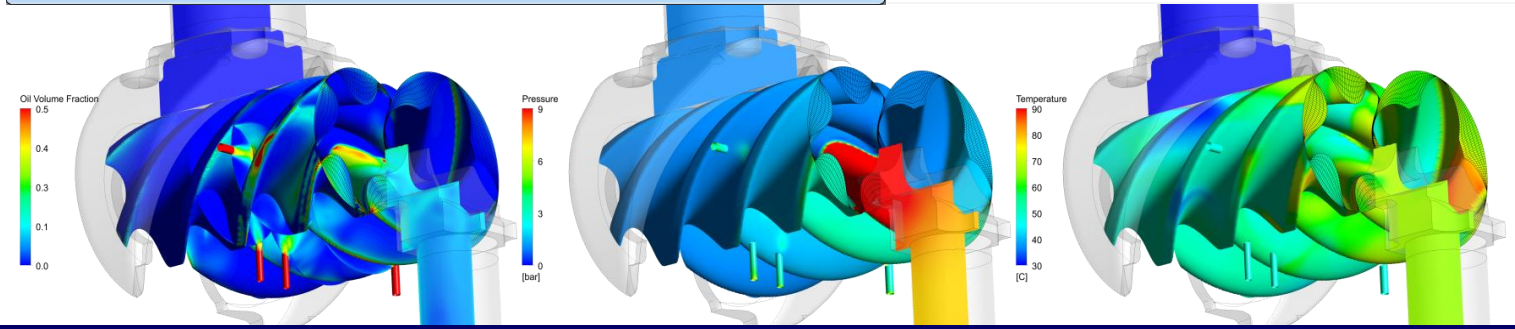
Oil Injected Screw Compressors

- single domain rotor mesh
- pressure based solver
- Euler-Euler approach
- oil injection induced by pressure difference
- initial conditions from multi-chamber model
- designed for use of CFD by R&D engineers

SCORG™ will minimise efforts for performance analysis and optimisation of oil injected screw compressors and expanders







Use SCORG™ directly with : Simerics-MP+, Ansys CFX®, Ansys Fluent, STAR-CCM+®, OpenFOAM®

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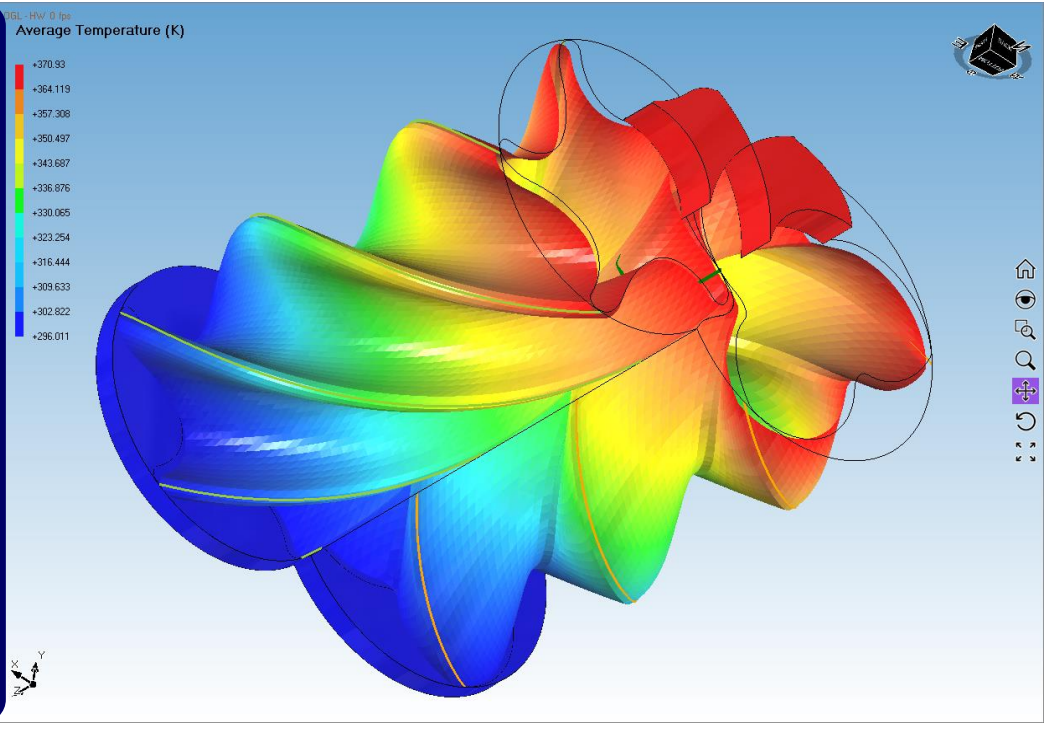
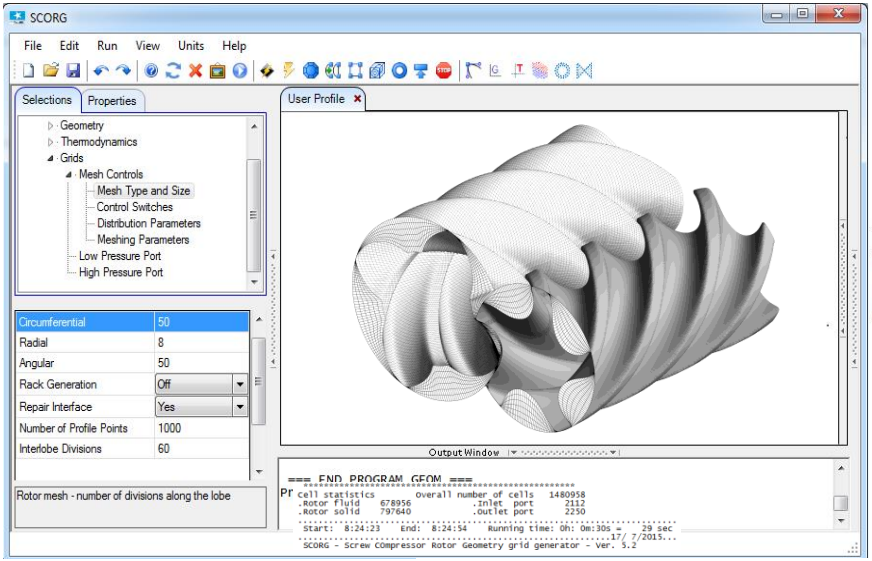
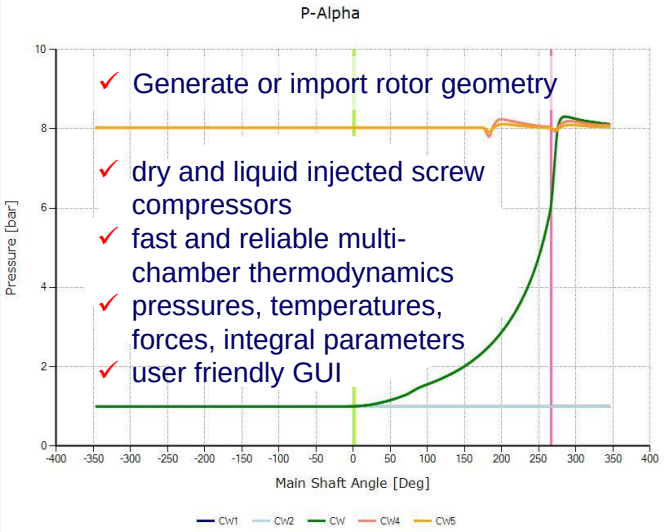
Chamber Thermodynamics for Analysis of Positive Displacement Screw Machines using SCORG™

- Twin screw compressors
- Twin screw vacuum pumps
- Three and four rotor screw machines
- Roots blowers
  - Rotor profile
  - Machine setup
  - Performance calculation
  - Optimisation
  - Bearing force calculation
  - Boundary distribution as input for FEA analysis

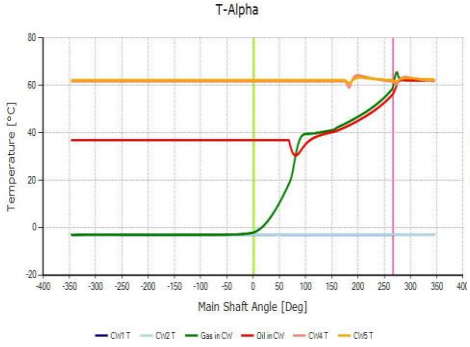


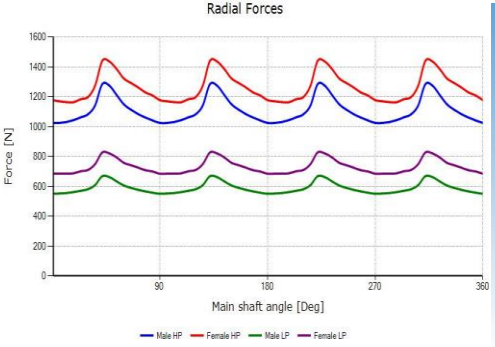
SCORG™ will minimise efforts for performance analysis and optimisation of screw compressors

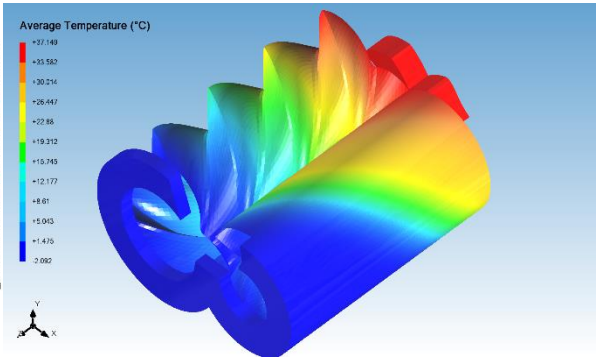




- ✓ Generate or import rotor geometry
- ✓ dry and liquid injected screw compressors
- ✓ fast and reliable multi-chamber thermodynamics
- ✓ pressures, temperatures, forces, integral parameters
- ✓ user friendly GUI







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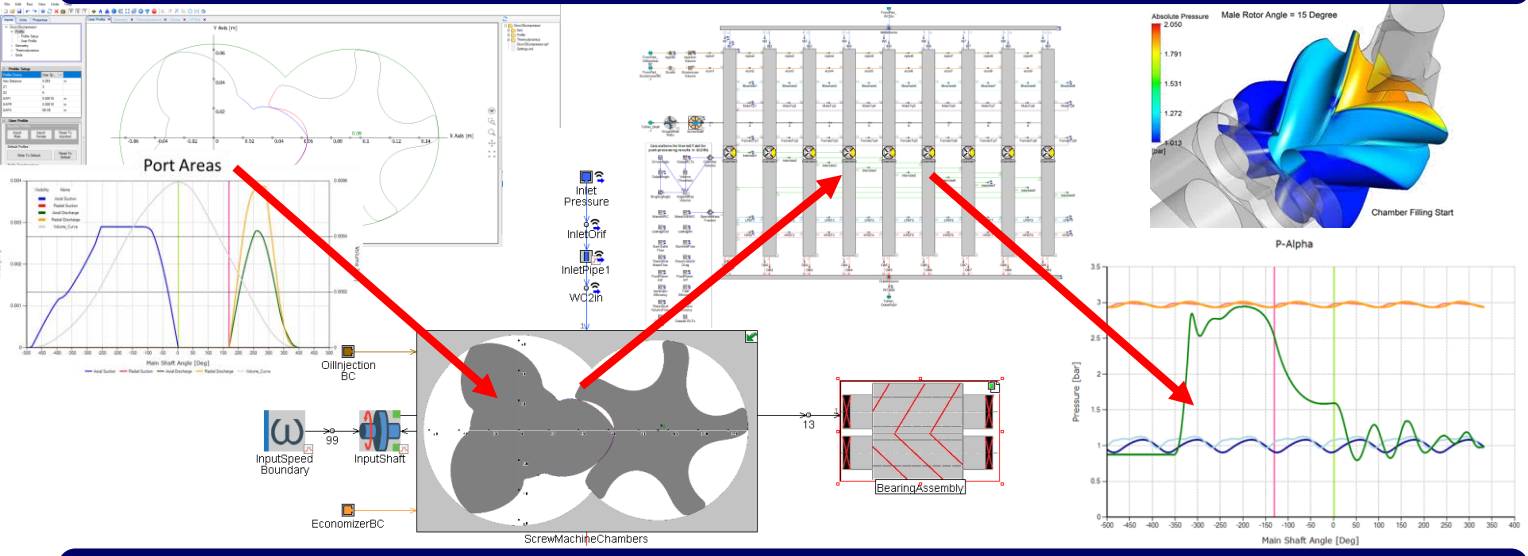
Integration of SCORG and GT-Suite for analysis of screw machines in refrigeration and power utilisation systems



SCORG™ and GT-Suite integration allows high-fidelity multi-chamber modelling, optimisation and system level integration of screw compressors, expanders and pumps. Enhanced with GT-SUITE's multi-physics modelling, thermal management, friction, lubrication, structural and thermal FE and acoustics.

User friendly SCORG™ GUI enables seamless data exchange between SCORG™ and GT-SUITE

GT Gamma Technologies

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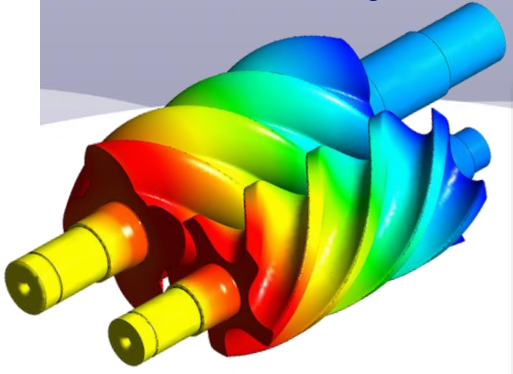
Design screw machines with ubiquitous cloud solution system

- Fast setup
- On-demand licensing
- Security assured
- Centrally managed licenses
- Reduced IT constraints
- Secure backup
- Latest version of SCORG
- Unlimited capacity
- Access from any device



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SCORG alto is a cloud platform hosted in Microsoft Azure enabling you to design and analyse screw machines using the software you recognise, SCORG™

With **SCORG alto** you can access greater capacity to produce high-fidelity simulations, with full security and support from our experts.

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