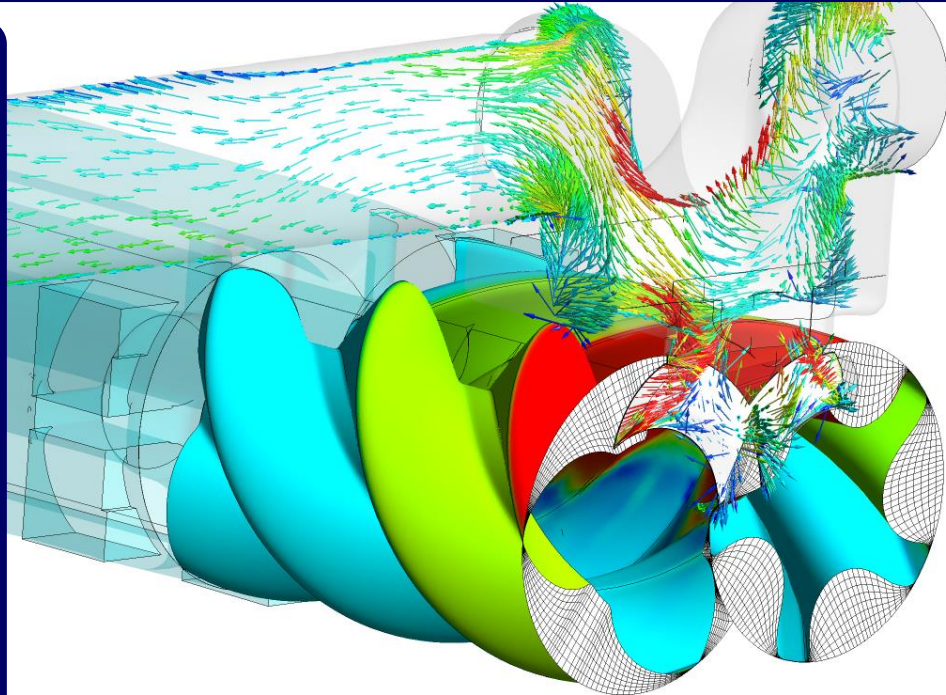


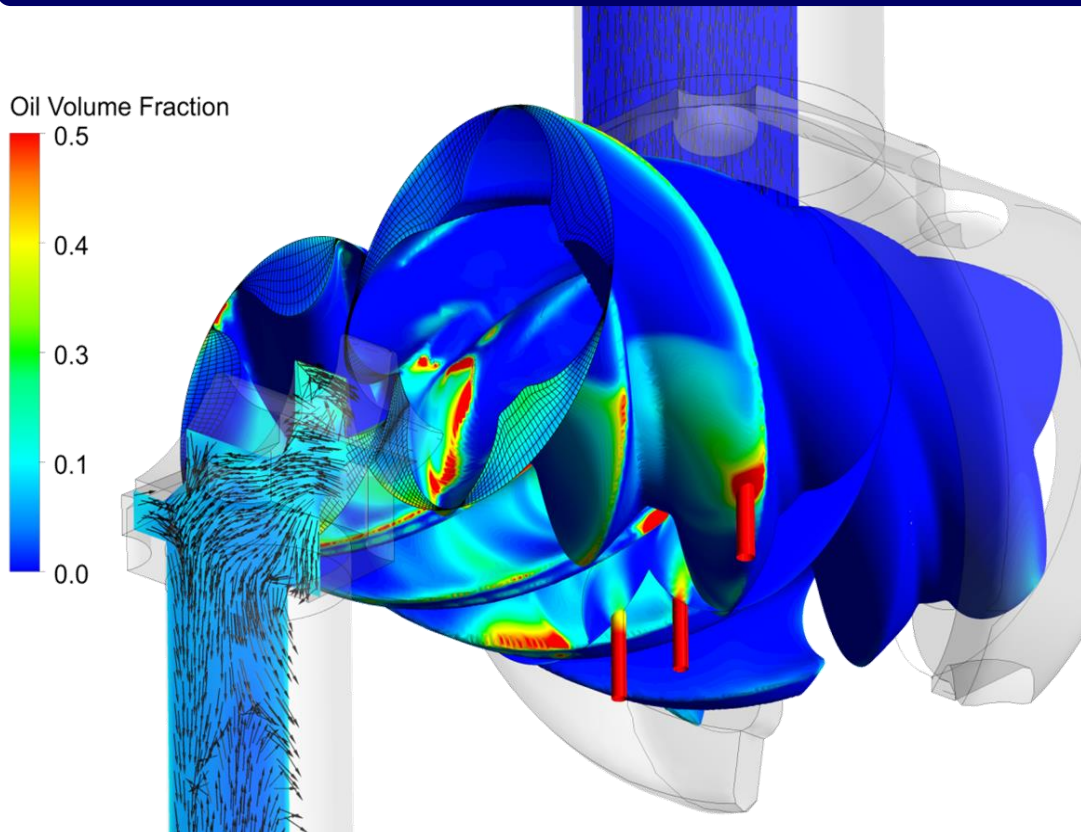
Design, Grid Generation, Thermodynamics and CFD Analysis of Positive Displacement Screw Machines

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 screw compressors using SCORG™ in conjugation with Simerics-MP+, Ansys CFX®, Ansys Fluent, Ansys Forte, STAR-CCM+®, OpenFOAM® or GT-Suite

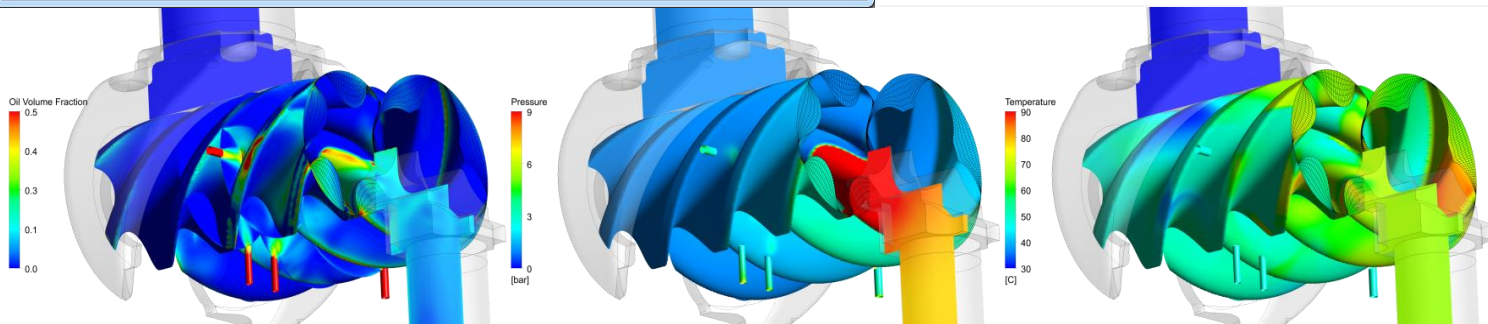
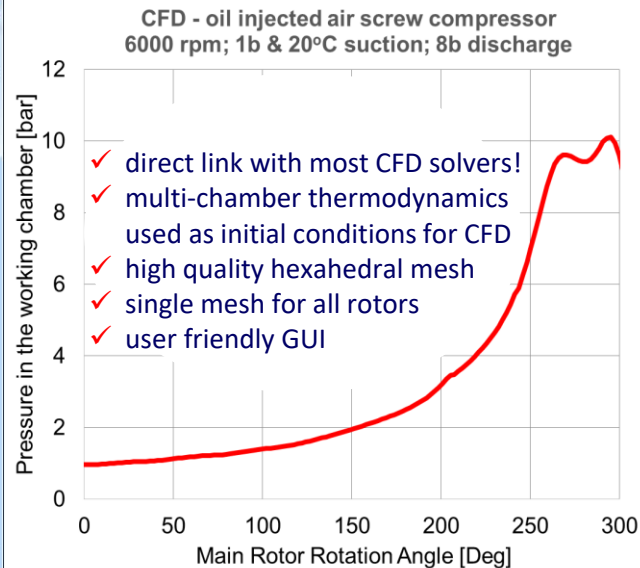
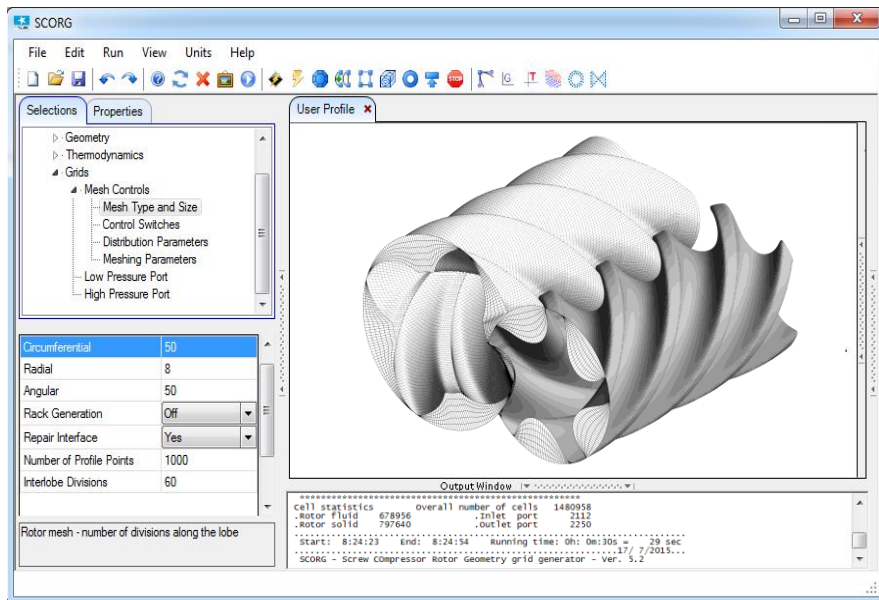
CFD Analysis of multiphase flows in Positive Displacement Screw Machines



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

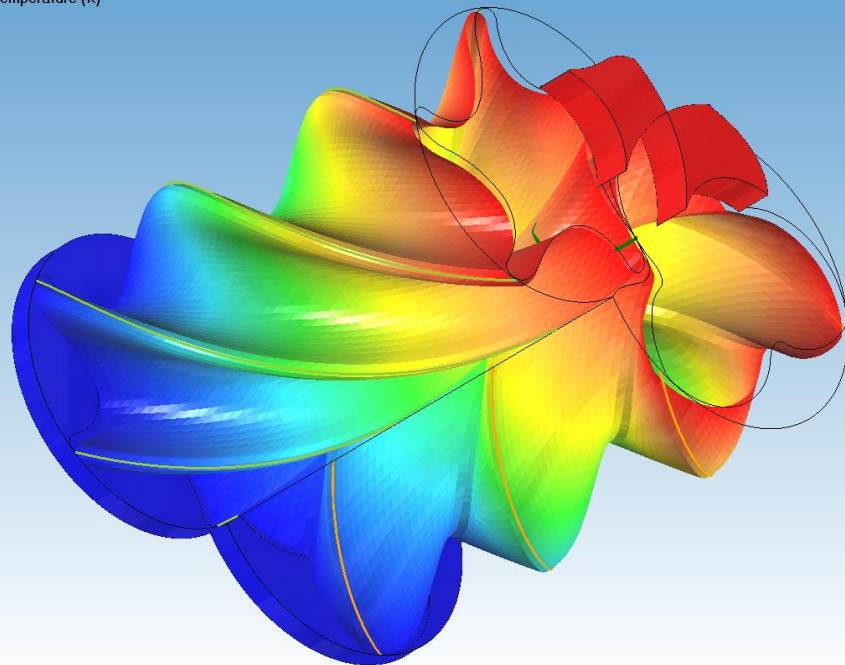
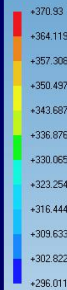


Chamber Thermodynamics for Analysis of Positive Displacement Screw Machines using SCORG™

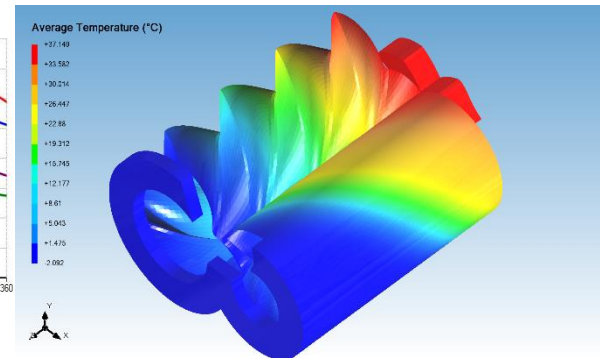
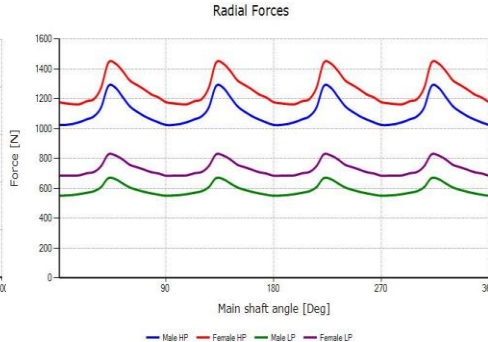
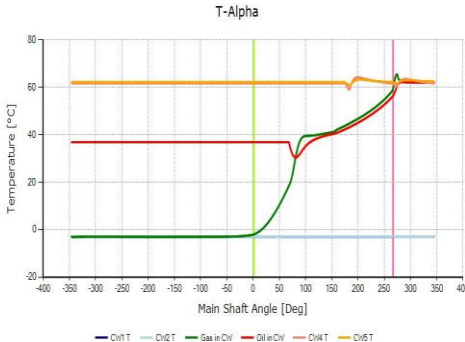
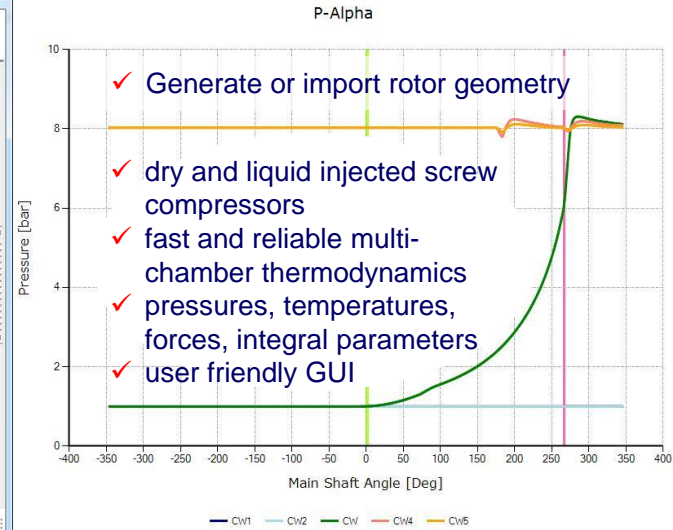
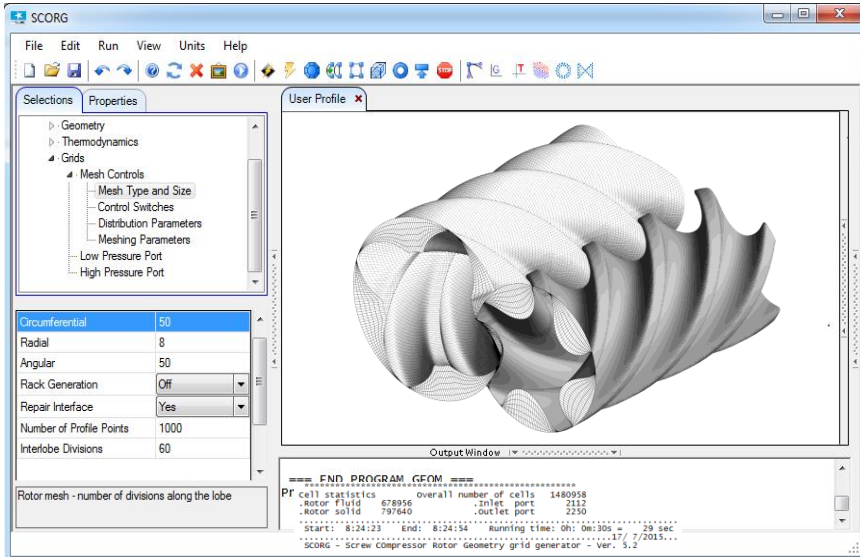
Twin screw compressors
Twin screw vacuum pumps
Three and four rotor screw machines
Roots blowers

- Rotor profile
- Machine setup
- Performance calculation
- Optimisation
- Bearing force calculation
- Boundary distribution as input for FEA analysis

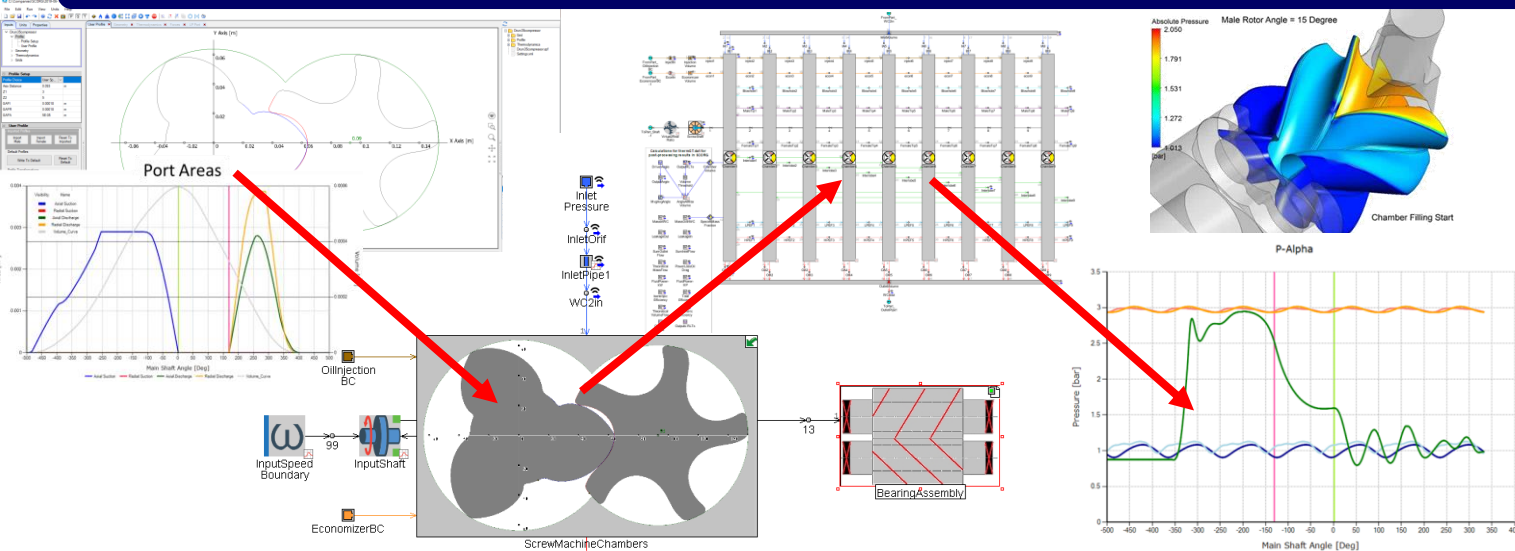
SCORG - HW 0.1ps
Average Temperature (K)



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



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



SCORGTM

alto



SCORG@pdmanalysis.co.uk

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Fast setup



Security assured



Reduced IT constraints



Latest version of SCORG



Access from any device



On-demand licensing



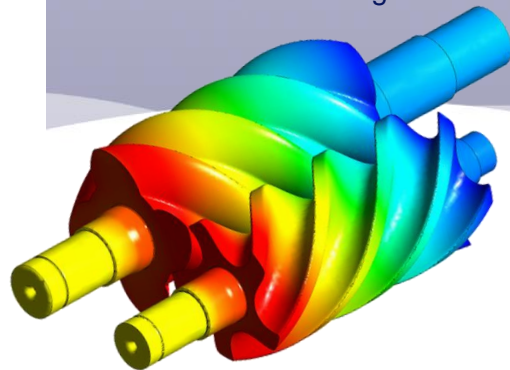
Centrally managed licenses



Secure backup



Unlimited capacity



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