

PROCESS SIMULATION SOFTWARE

COMPRO

Leverage your FEA solver to analyze complex composites structures



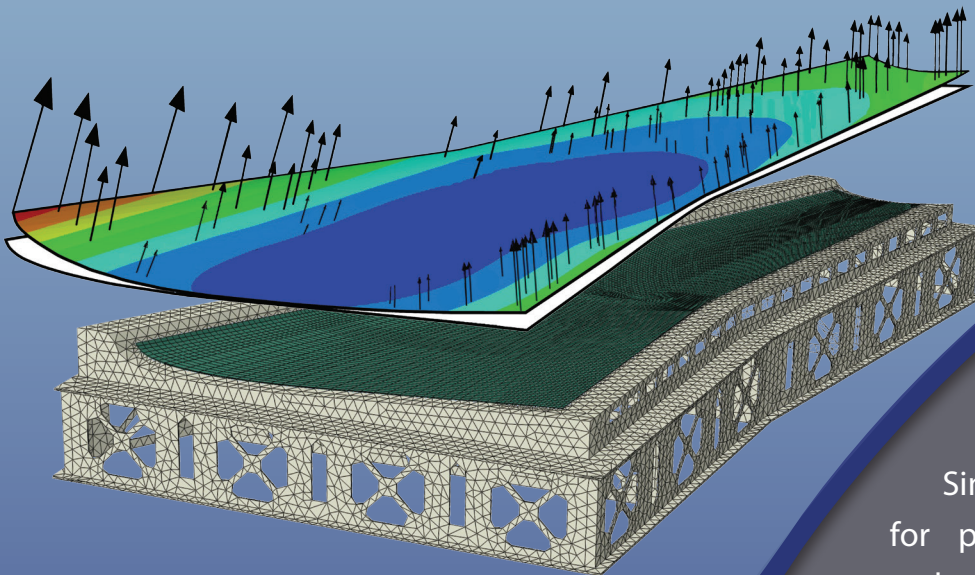
CONVERGENT
MANUFACTURING TECHNOLOGIES

- ✓ Calculate spring-in and warpage for tool compensation
- ✓ Calculate residual stresses
- ✓ Troubleshooting

Simulate cure or crystallization behavior for hybrid structures and multi-step processes

Develop processing cycles and tooling that meet specifications

Reduce the need for costly trial-and-error



COMPRO

Simulation Software is designed for process analysis of geometrically complex structures. The software supercharges commercial general purpose finite element software such as ABAQUS and ANSYS to provide advanced process simulation capabilities. The software uses the same material libraries as RAVEN.

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COMPRO Requirements

To use COMPRO you need a license and working knowledge of a supported general purpose finite element software such as ABAQUS and ANSYS. The general workflow to set up and run a COMPRO model is:

- Define geometry or import geometry from CAD program to preprocessor of choice,
- Generate finite element mesh of part, tool and caul-sheets/inserts,
- Set-up FE model with boundary and initial conditions and link to COMPRO,
- Run model,
- Evaluate results,
- Redesign or optimize your process accordingly.

COMPRO requires good computational resources for a satisfying user experience. A mid to high end CPU (or multiple CPUs for SMP and MPP runs) that is less than five years old is recommended as well as a minimum of 4 GB of RAM memory.

The results of the simulations can be quite large, and approximately 100 GB of free hard drive space is recommended before starting new simulations.

COMPRO runs on x86 compatible hardware architectures that uses Microsoft Windows or various flavours of Linux operating systems.

In addition to these requirements, a valid ABAQUS/Standard v6.14-4 or ANSYS R.16 or newer license is required.

