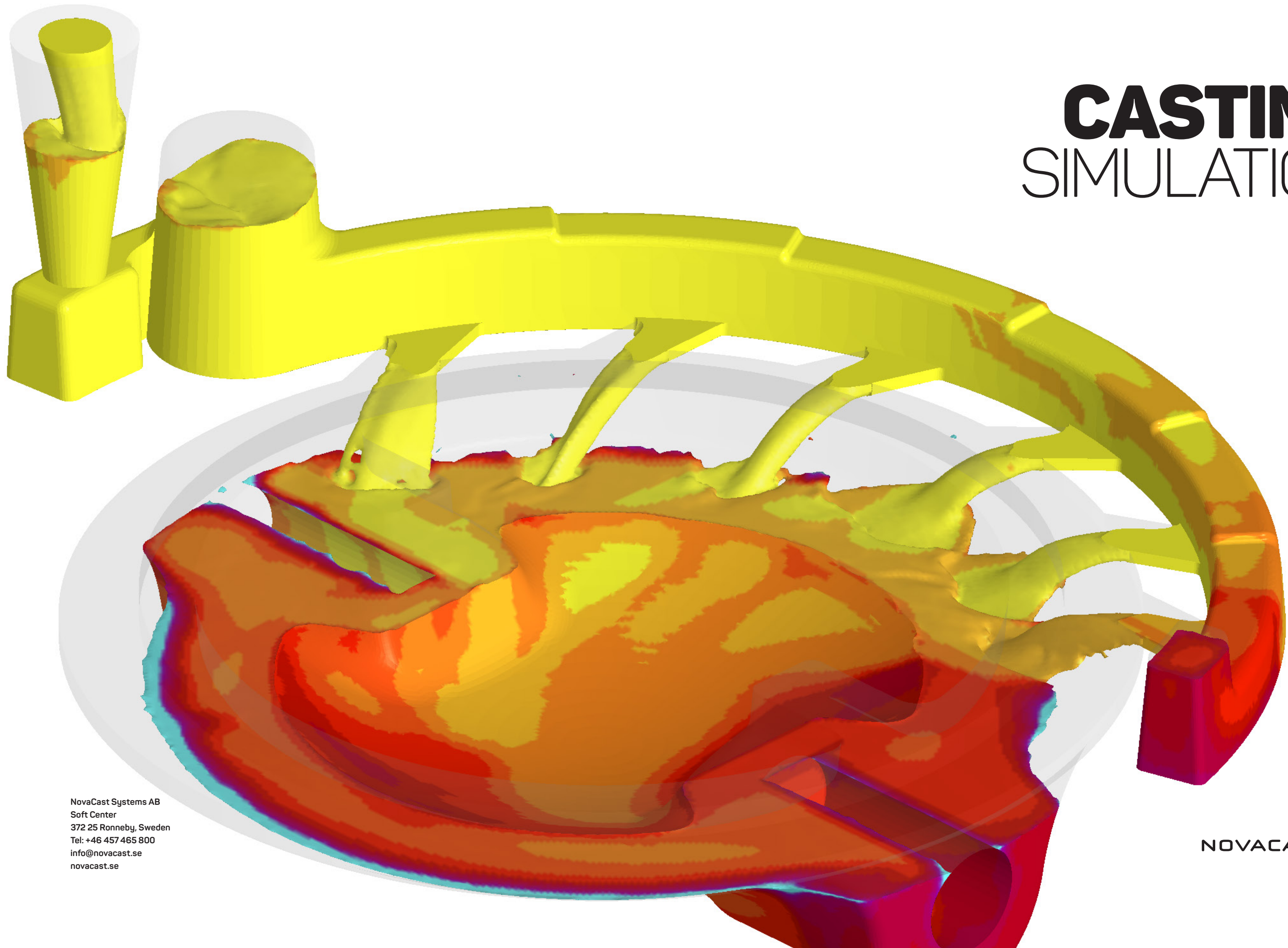


# CASTING SIMULATION



NovaCast Systems AB  
Soft Center  
372 25 Ronneby, Sweden  
Tel: +46 457 465 800  
info@novacast.se  
novacast.se



# NOVAMETHOD

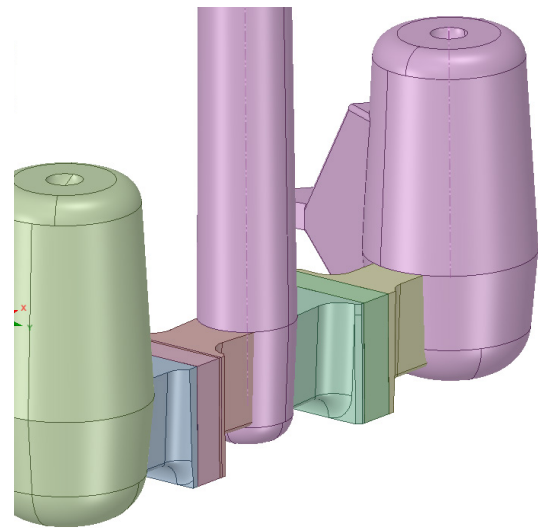
CREATE YOUR 3D MODEL

Simplify your casting methoding process with NovaMethod.

With NovaMethod you are able to easily create and edit your 3D model before simulating the casting detail. NovaMethod works perfectly as a pre-processor to our casting process simulation software: NovaFlow&Solid, but can also be used independently. NovaMethod is especially designed for foundries to meet the requirements you should have on your casting preparation tools.

The NovaMethod system includes complete CAD functionality, core creation tools, horizontal gating design assistance and geometry repair functionality.

- > Flexible assembly structure
- > Works with many leading CAD/CAM tools
- > Design in any context



# NOVAFLOW&SOLID

SIMULATE YOUR CASTING

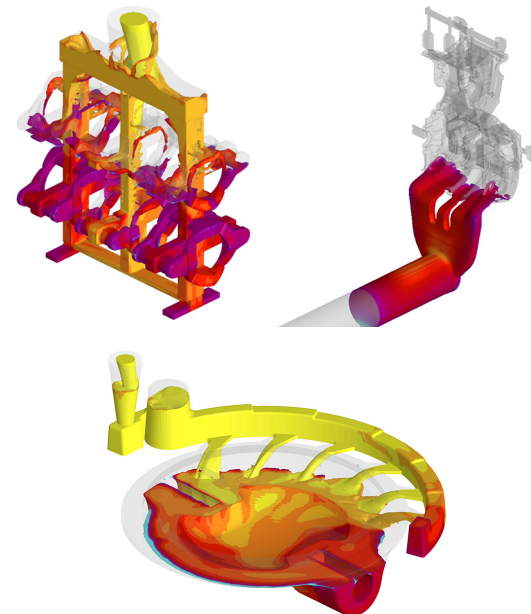
The innovative casting process simulation tool that helps you work faster, easier and achieve more accurate castings.

The timesaving comes from switching mesh in the simulation and during filling in several steps. Where the sections are thick-walled you use a bigger mesh resolution and for sensitive areas you use a finer mesh. Now, there is no excuse for not using simulation; shortening simulation time is crucial for all foundries to be able to optimize all their castings.

NovaFlow&Solid can make your casting production more green by letting you investigate and be guided how to increase your yield and optimize your production process. This will help you save energy, material and eventually use less of the resources on our planet.

Commercial casting methods possible to simulate with NovaFlow&Solid:

- Gravity sand casting
- Gravity permanent mold
- Low pressure die casting
- High pressure die casting
- Lost wax method
- Lost foam method
- Tilt pouring
- Counter gravity casting
- Centrifugal casting



# NOVAONE

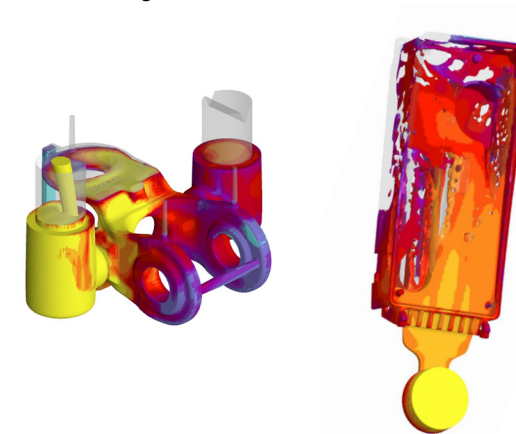
SIMULATE YOUR CASTING

A quick and easy casting simulation software that will help you start simulating your castings in no time.

NovaOne is NovaCast's elementary collection of casting simulation tools, streamlined to meet the essential demands of specific processes. NovaOne is a slim version of our premium casting simulation system, NovaFlow&Solid.

• **NovaOne Gravity:** NovaOne Gravity is an innovative casting process simulation tool that simulates mold filling and solidification. With NovaOne Gravity, you can simulate gravity sand casting, gravity permanent mold and lost wax method.

• **NovaOne HPD:** NovaOne HPD can simulate both cold- and hot chamber methods. It is possible to simulate more or less all commercial materials used for high pressure die casting like aluminum alloys and zinc alloys.



# NOVASTRESS

PREDICT STRESSES

NovaStress is the analysis tool to use when you have quality issues related to stresses.

Analyze your current design and compare alternative ones to find a quick solution and reduce the need of expensive trials in production.

NovaStress is fully integrated into the NovaFlow&Solid package and gives the ultimate casting simulation solution. The program uses the same meshing technology as NovaFlow&Solid, CVM (Control Volume Mesh), which exactly describes the original solid geometry. The calculation speed is very fast thanks to a specific calculation method with full contact task.

