Release Notes

Altair Inspire PolyFoam 2020.1

Altair Inspire PolyFoam 2020.1 includes the following new features and enhancements.
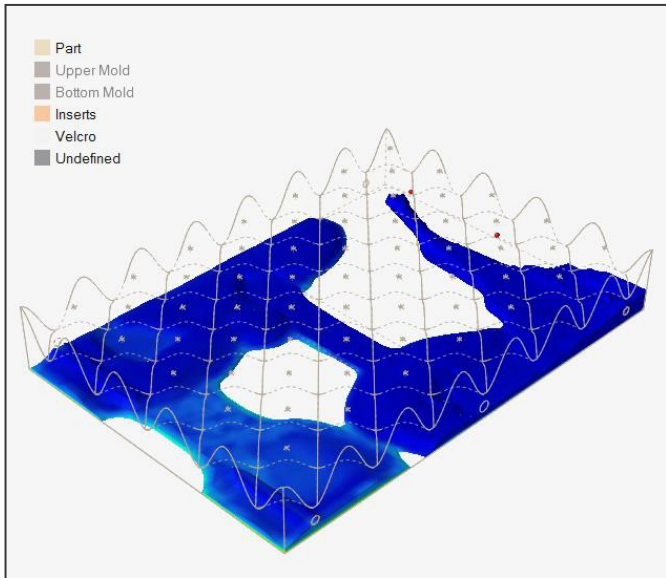
New Features: User Interface

Component Creation and Editing

Create and edit components in your model with one click:

- Parts: Designate a foam part from existing geometry; easily make modifications through Inspire.

- Gate: Define moving or fixed gate paths.

- Nozzle: Define the nozzle size and foam injection direction.

- Tooling: Designate Velcro, inserts, guiders, mold and mold sections, and vents.

- Pouring Basin: Define a basin shape, material type, prefill percentage and temperature to analyze the characteristics of the foaming material.

Multicomponent Output and Visualization

Easily visualize the results of individual or multiple components using the legend at the top left of the modeling window.

Legend:
- Part
- Upper Mold
- Bottom Mold
- Inserts
- Velcro
- Undefined

New Features: Process Setup

Optimized Five-Step Process

Follow a guided template requiring minimal training to simulate the process to create foam parts:

1. Define a part: Import geometry and designate the polyfoam part.

2. Define a gate: Create a gate or import a gate path and nozzle parameters.

3. Add tooling: Add required Velcro, inserts, guiders, a mold and associated vents.

4. Define process parameters: Specify the foam type, ending conditions, mold opening and tilt pouring.

5. Simulate the entire foaming process.

New Features: Analysis Setup and Results

Foaming Analysis Setup Processes

Quickly and easily refine the part mesh and set up injection, foaming, and curing simulation processes.

Results by Process Stages

Quickly review results from the injection, foaming, and criterion stages of the simulation.

Custom Results

Customize your results to include:

- Specimen analysis that provides detailed information about a predefined region on a part.

- Sensors at specified locations on the part that reveal temperatures, density, pressures, velocities and more.
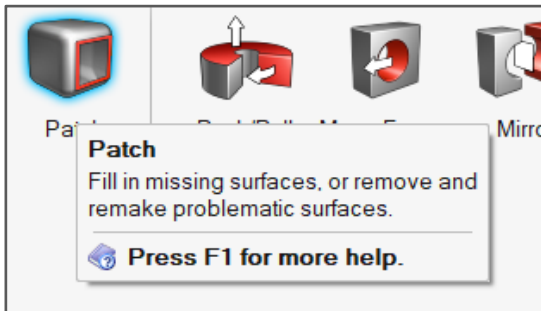
Result Types

Consider result types that include temperature, head ID, material ID, density, Polyol [mgKOH], pressure, velocity and mold temperature.
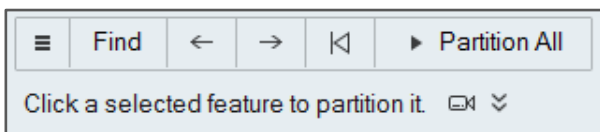
Learn More About Inspire PolyFoam

You can learn more about Inspire PolyFoam using the following resources:

In-Application User Assistance

Inspire PolyFoam provides two types of user assistance. **Enhanced tooltips** appear when you hover over icons and other features. They describe what the tool does.

Workflow help appears when you select a tool that opens a guide bar or microdialog. The text prompts you what to do next.

Click to view additional tips and shortcuts. Some tools also include a video .
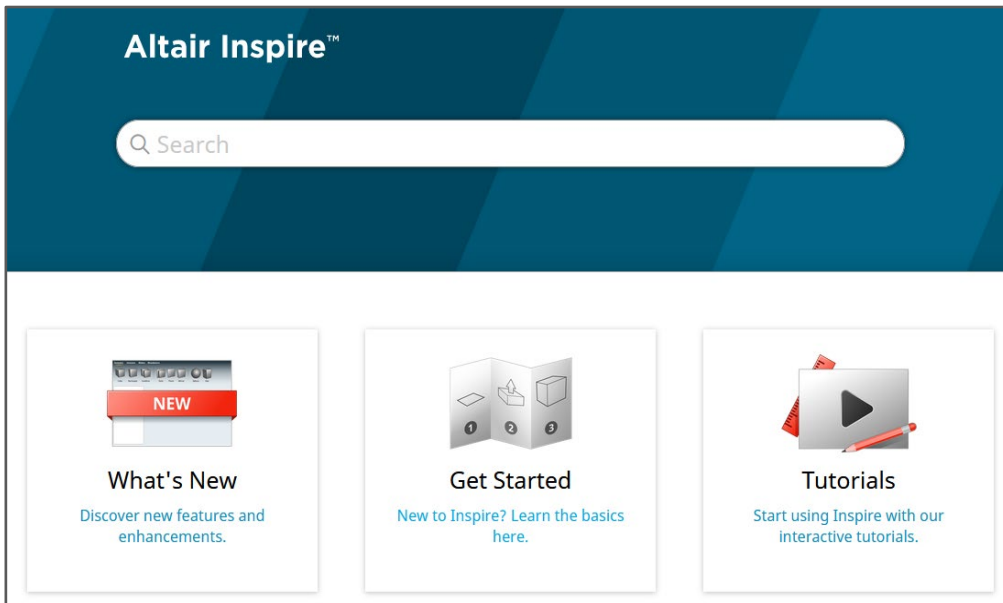
| ≡ | Find | ← | → | ◁ | ▶ Partition All |

Click a selected feature to partition it. ◻◄ ⌃

Holes and pockets are automatically selected and shown in red, but you can manually select faces as well.

🖱️   Partition a selected feature.

Ctrl+🖱️   Add/remove from selection.

Del   Remove a partition.

F1   Show Help
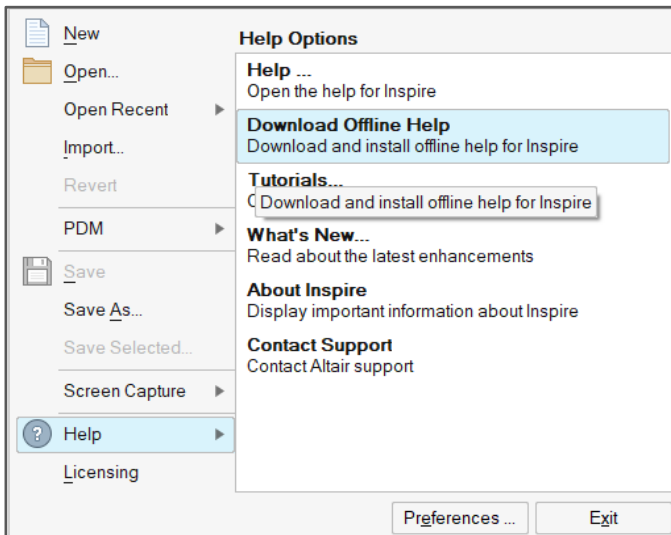
Online and Offline Help

Press **F1** or select **File > Help > Help** to view the online help.

Altair Inspire™

🔍 Search

What's New	Get Started	Tutorials
NEW		▶
Discover new features and enhancements.	New to Inspire? Learn the basics here.	Start using Inspire with our interactive tutorials.

You can download an offline version by selecting **File > Help > Download Offline Help**. An internet connection is required to download.

New	**Help Options**
Open...	**Help ...** Open the help for Inspire
Open Recent ▶	**Download Offline Help** Download and install offline help for Inspire
Import...	
Revert	**Tutorials...** Download and install offline help for Inspire
PDM ▶	**What's New...** Read about the latest enhancements
Save	**About Inspire** Display important information about Inspire
Save As...	
Save Selected...	**Contact Support** Contact Altair support
Screen Capture ▶	
⑦ Help ▶	
Licensing	Preferences ... Exit