Altair® Inspire Cast™ 2024

New Features and Enhancements 2024

Altair Inspire Cast 2024 includes the following new features and enhancements.

Casting Setup

Squeeze Pins
The new Squeeze Pin tool lets you add squeeze pin components to your model, which helps minimize porosity in critical areas of the finished part. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/components/add_squeezepin_t.htm

Or watch the how-to video on YouTube:

https://www.youtube.com/watch?v=CXRoOyvAmg4&list=PLGNemB0NFb0DwhN8q2RBjI-QgiwhnRiqJ&index=9

Casting Analysis

Porosity Preview
The new Porosity Preview tool lets you run a fast thermal analysis to identify areas of the model that are prone to porosity. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/analysis/fast_thermal_analysis_t.htm

Or watch the how-to video on YouTube:
https://www.youtube.com/watch?v=LhnOYCWLKYo&list=PLGNemB0NFb0DwhN8q2RBjI-QgiwhnRiqJ&index=9

Trimming Phase Results
You can now opt to include a trimming simulation in your casting analysis. This new phase of casting analysis shows displacement and stresses data for runners, overflows, etc. being removed from a finished part. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/analysis/submitting_job_t.htm

Or watch the how-to videos on YouTube:

https://www.youtube.com/watch?v=6qrK_rLuFx0&list=PLGNemB0NFb0DwhN8q2RBjI-QgiwhnRiqJ&index=10
https://www.youtube.com/watch?v=gpHXF2zYGuE&list=PLGNemB0NFb0DwhN8q2RBjI-QgiwhnRiqJ&index=11

Symmetry
When running an analysis. you can now opt to use a symmetry plane to save calculation time by only calculating results for half of a symmetrical part. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/analysis/submitting_job_t.htm

Sensors
You can now opt to add simulated sensors to your casting analysis. Click the Advanced tab in the Run Analysis window to access the feature and get callout data from points of interest in your model. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/analysis/submitting_job_t.htm

Convergence Plot
When running an analysis, you can now track its progress in the Convergence Plot window. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/analysis/run_status_cast_t.htm

Displacement Reference Point
You can now use the Displacement Reference Point tool in the Analysis Explorer to select a customized reference point when measuring displacements. For more information, see the help:

https://2024.help.altair.com/2024/cast/en_us/topics/cast/analysis/view_simulation_results_t.htm

Learn More About Inspire Cast

You can learn more about new and existing features in Inspire Cast using the following resources:

In-Application User Assistance

Inspire 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 most ribbon tools. The text prompts you what to do next.

Click ⌄ to view additional tips and shortcuts. Some tools also include a video.
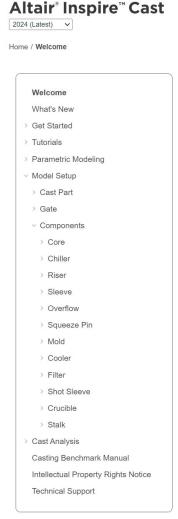
Online and Offline Help

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

Altair® Inspire™ Cast

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Welcome to Altair Inspire Cast

More Resources

Altair One →	Altair Community →
Altair Learning →	Altair Marketplace →
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You can download an offline version by selecting **File > Help > Download Offline Help**. An internet connection is required to download.