

RELEASE NOTES

Altair[®] Inspire[™] Form 2022.1 and 2022.1.1



New Features and Enhancements 2022.1

The Inspire Form 2022.1 release includes the following new features and enhancements.

General

Callout Functionality

Auto Callout functionality is now simplified and combined with Callouts on the guidebar.

View Cube Alignment

You can now reference a local system by using the context menu to choose the system that View Cube aligns to.

Geometry

Support of 3DXML File Format

You can import CAD geometry in 3DXML file format. We do not support mesh data.

Feasibility

Multiple Integration Point Output

Inspire Form supports Abaqus output of strains along multiple integration points through the thickness of the element.

Simulation Report

The simulation report now includes the overall blank dimensions.

Pitch for Nesting Sheet

Inspire Form includes pitch values for both X and Y directions when blank nesting with a sheet.

Translation in Nesting Report

Blank Nesting report now includes the total translation in both X and Y directions.

Tryout

Create Blank Surface from Planar Curves

Within the blank context, you can now select widebodies/curves for a single blank.



New Fast Run Option

You can select the new option (1) in Solid Layers in the Run dialog for a Fast run for solid elements.

Additional Results for Solid Elements with Fast Option

Support additional results corresponding to thickness and percent thinning for solid elements as part of Fast option.

Simulation Report Result Types

Generation of the simulation report now includes additional Results options: Thickness, Thinning Delta, Plastic Strain Delta, Edge Strain, Curvature, and Dominant Deformation Mode.

Animation Bookmarks

While reviewing results with the animation toolbar, you can set bookmarks to revisit those frames quickly.

Trim Angle Analysis

Increased the number of levels and the range to 30°.to visualize trim angle.

Force Outputs for Springback Constraints

Inspire Form now plots forces for constraints in Springback postprocessing.

Contour Spotting with Magnitude

Tracing blank movement during forming is now contoured to denote the magnitude of the movement.

Runs Performed in MPA Unit System

Runs are now performed in MPA Unit System instead of MKS Unit System to facilitate migration from HyperForm. STA files from previous version runs are not supported for restart in this version.



New Features and Enhancements 2022.1.1

The Inspire Form 2022.1.1 release includes the following new features, enhancements, or resolved issues.

Resolved Issues

- Fixed an issue where Springback Compensation translated and scaled the model down.
- Run times no longer increasing for tool offsets smaller than sheet thickness..
- Fixed an issue where solver runs were failing for Trimming operation.
- Fixed an issue with blank shape from Feasibility analysis not being exported as IGES file.
- Resolved an issue where thickened visualization of blank distorts the model.
- Fixed an issue where the legend color for Thinning solids couldn't be switched to Rainbow from Divergent.
- Fixed an issue where Symmetry constraints were not realized, and the solver run would fail.
- Resolved the issue with Minimal Forming Limit Curve definition in material leading to Feasibility run failure.

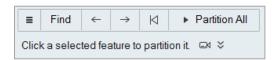


Learn More About Inspire Form

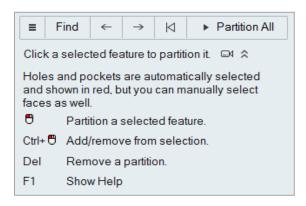
You can learn more about new and existing features in Inspire Form using the following resources:

In-Application User Assistance

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

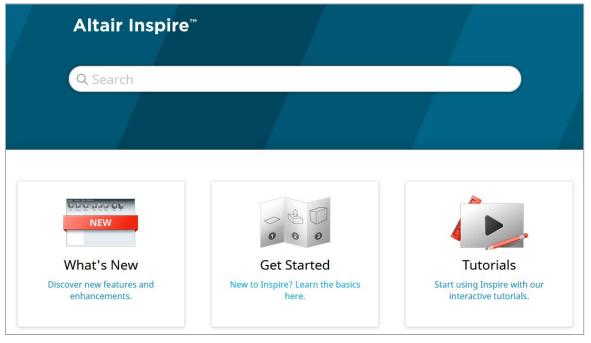


Click to view additional tips and shortcuts. Some tools also include a video



Online and Offline Help

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





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

