Altair® Inspire™ Studio 2023
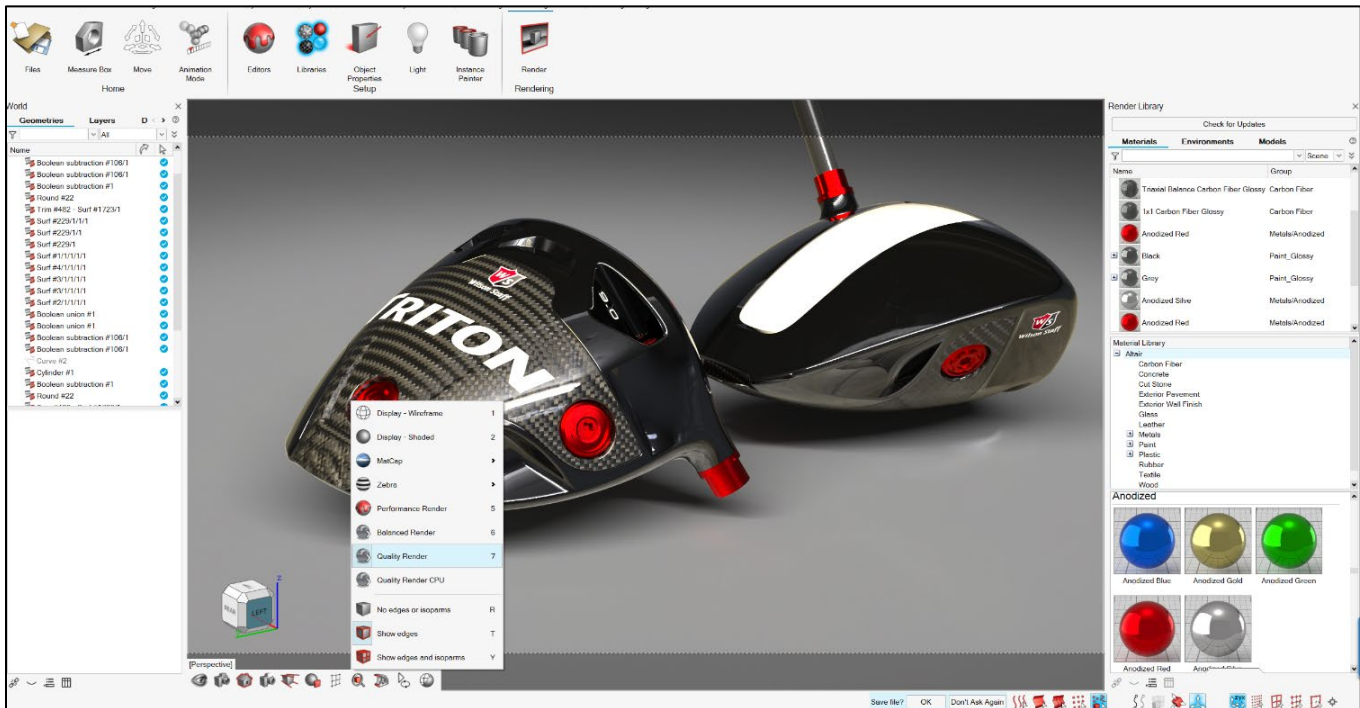
New Features and Enhancements 2023

Altair Inspire Studio 2023 includes the following enhancements and resolved issues:
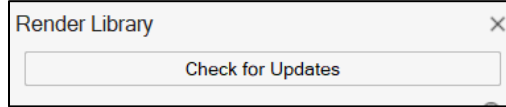
Studio

- All rendering technology has been updated, and there are two new rendering modes available. The new rendering modes and their distinctive qualities are listed below:

    - **Performance**

        - An interactive, physically-based renderer

        - High-speed rendering

        - Works on all GPUs

    - **Quality**

        - An interactive, ray-tracing based renderer

        - Highest quality rendering fully featured with a built in denoiser

        - Works only with GPUs with hardware ray-tracing cores available

- The user interface has been simplified to streamline workflow

- New procedural-based materials for intuitive material creation and editing

- Application performance improved to handle larger, more complex models

- Added support for wider range of simulation data

- Materials and Environments assets are now stored online. The new Check for Updates button in the Render library imports the latest assets to the application.
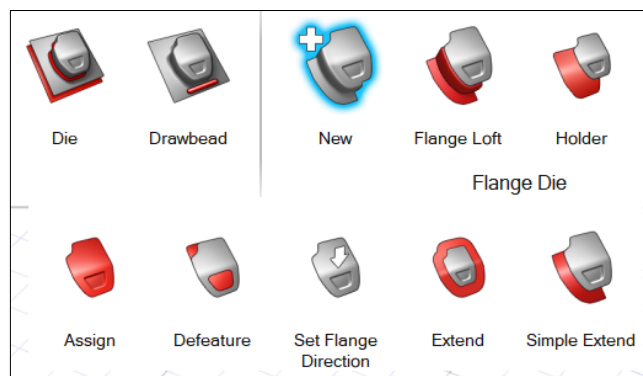
Die Design

- In the Draw Die Group, a new tool has been added to facilitate multiple draw die creation:

  - **New**

    - Assign: Creates a new object to be the starting input for the draw die. Allows you to select the objects or surface that can be assigned to it.

    - Defeature: Fills holes and cutouts in the selected draw die part.

    - Set Draw direction: Allows you to define the forming direction for the draw die to be created.
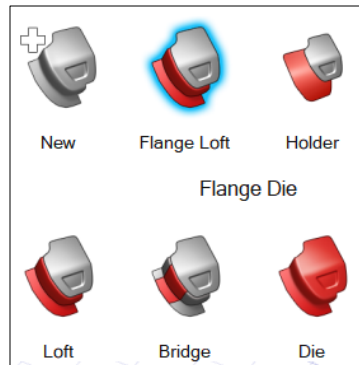

- A new Flange Die group has been added to allow you to create multiple flange dies. The new Flange Die group contains the following tools:

  - **New**

    - Assign: Creates a new object to be the starting input for the flange die. Allows you to select the objects or surface that can be assigned to it.

    - Defeature: Fills holes and cutouts in the selected draw die part.

    - Set Draw direction: Allows you to define the forming direction for the draw die.

    - Extend: Extends the assigned surface using guide curves.

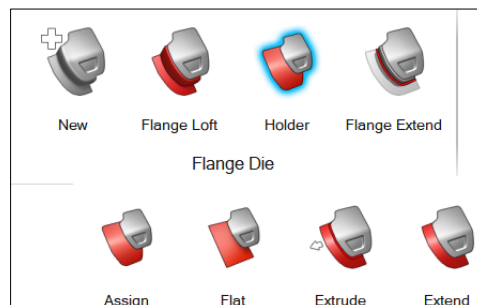   - Simple Extend: Extends the assigned surface.

- **Flange Loft**

  - Loft: Creates loft surfaces from the edges of flanges to complete the flange die creation.

  - Bridge: Connects multiple pieces of loft surfaces to complete the flange die creation.

  - Die: Combines the flange surface with flanges to finish the flange die creation.
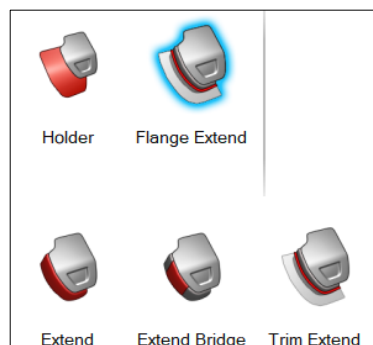
- **Holder**

  - Assign: Assigns the existing surface as a holder surface for the flange die.

  - Flat: Automatically creates the flat holder surface based on size of the flange edge.

  - Extrude: Creates the holder surface by extruding a curve or a surface edge.

  - Extend: Creates the holder surface by extending the surface at the selected edges.

- **Flange Extend**

  - Extend: Extends the flanges to the holder surface with user-defined guides.

  - Extend Bridge: Connects multiple pieces of extended surfaces to complete the flange die creation.

  - Trim Extend: Trims the extended surface using the holder and rounding the edges to complete flange die creation.
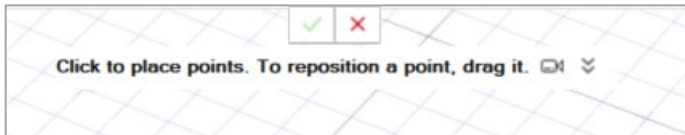
Known Issues

- • When multiple users share a machine, conflicts and crashes occur when a user who didn't install the application tries to access the Assets folder [IN-33224]
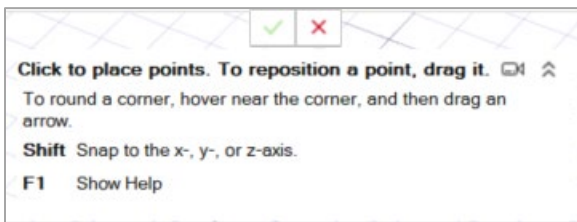
Learn More About Inspire Studio

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

In-Application User Assistance

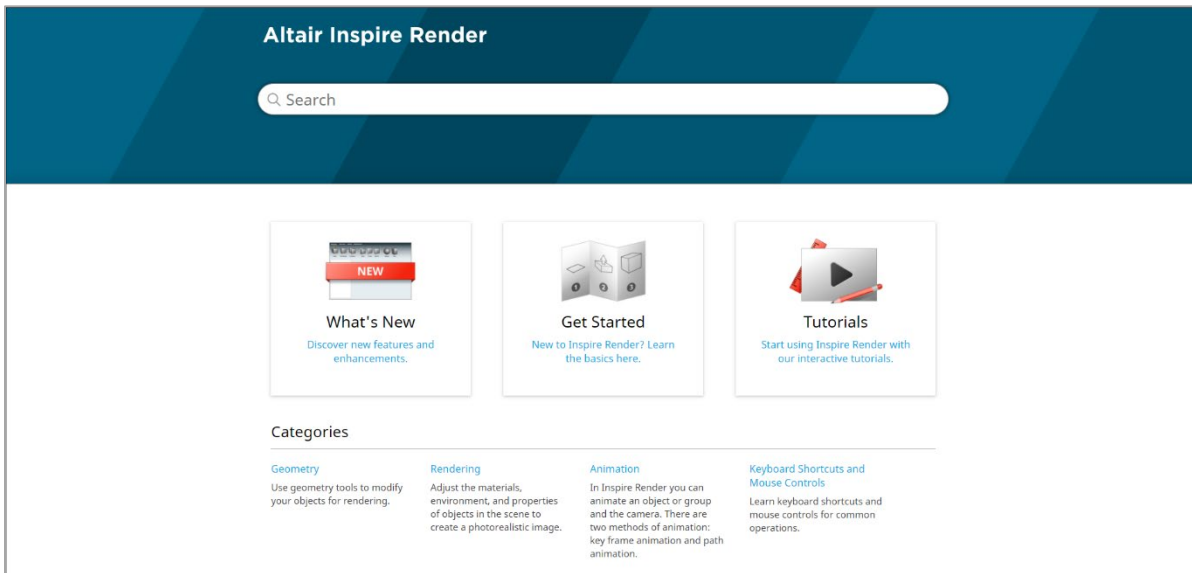**Workflow help** appears when you select a tool that opens a guide bar or microdialog. The text prompts you what to do next.

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.