Altair Inspire Studio
All-in-one Industrial Design Solution

Altair Inspire Studio is a new software solution that enables designers, architects, and digital artists to create, evaluate and visualize design ideas faster than ever before. From initial sketches to parametric NURBS-based polygonal, surface, and solid modeling, Inspire Studio enhances creativity by letting designers drive their design with one, easy-to-learn, flexible, and powerful industrial design solution.

Product Highlights

- Intuitive and easy-to-learn user interface with unlimited construction history
- Free-form shapes with polygonal modeling, solid modeling, and smooth and continuous NURBS geometry, all working in unison
- Powerful sketching environment to create and edit 2D sketch curves
- Real-time photo realistic rendering and animations
- Available for both Windows and MacOS

Altair Inspire Studio empowers users throughout the creative process with unrivaled flexibility and precision, its unique construction history, along with multiple modeling techniques.

By building on the functions of Altair Evolve, Inspire Studio introduces a sleek, efficient user experience. Each tool and workflow are now optimized for an efficient design experience from initial sketches to exploring concepts with parametric NURBS-based polygonal, surface, and solid modeling.

Produce stunning product presentations in real-time with the in-built high-quality, physically-based global illumination rendering engine.

Running on both MacOS and Windows as a standalone product or under Altair's unit-based licensing model, Inspire Studio frees designers' creativity from the constraints of traditional CAID tools, while assuring export of robust digital models for product development.

Benefits

Change What's Possible
Inspire Studio enhances creativity by letting designers drive their design. Via an intuitive user interface, with its powerful construction history, quickly create, explore multiple iterations, and make changes without any rework.
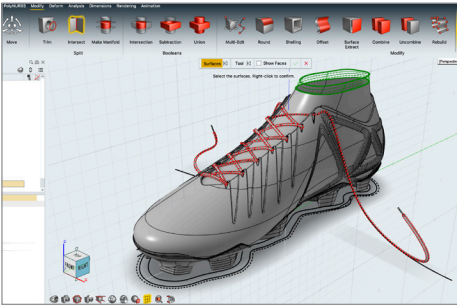
Enhance Flexibility
Mix and match modeling techniques within the same environment. Combine fast, free-form polygonal modeling with the control and precision of surface and solid modeling to effortlessly create and explore even the most challenging designs.
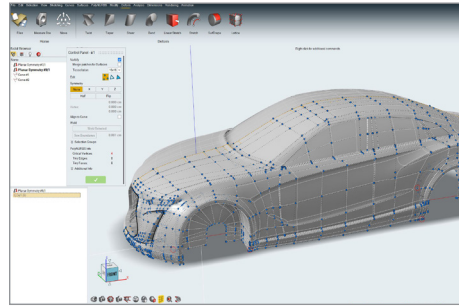
Recalibrate Reality
Offering an intuitive setup, large choice of environments and materials, Inspire Studio's rendering engine creates stunning images and complex animations, in real time with physically accurate lighting.
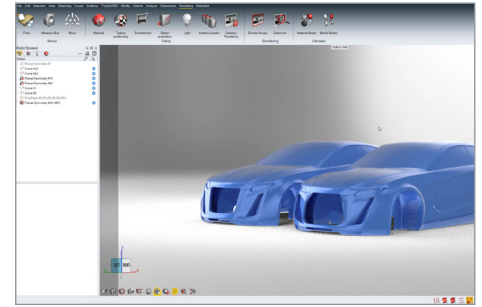
A natural and efficient workspace

Multiple modeling techniques

Physically-based lighting engine for rendering

Capabilities

Construction History
Automatically backtrack to an earlier stage of your design, make variants reusing or modifying objects from past stages in real-time.

Sketching
Create and edit constraint-based technical sketches, by easily applying geometric relationships between components.

Surfaces & Curves
Utilize Non-uniform Rational B-Splines (NURBS) curves and surfaces to accurately represent even the most complex shapes with flexibility and precision.

PolyNURBS
Combine the ease and simplicity of polygonal modeling with the precision and flexibility of NURBS to quickly create free-form surfaces and solid geometry that are smooth and continuous.

Tool Belts
One-click access to all modeling and rendering tools brings any functionality directly to you. Customize Tool Belts to meet your needs.

Rendering
Create high-quality rendered images with the physically-based global illumination engine in biased photo-realistic, unbiased and Presto interactive modes.

Material Library
Drag-n-drop materials from the built-in comprehensive library, or custom build from basic, metal, glass/gem, coating, metallic flake, emitter, or shadow catcher material.

Animation
Supporting both key frame and path animation methods, Inspire Studio lets you take your design presentations to the next level . The Altair H3D simulation format is also supported to create physics-accurate creating photo-realistic animations.

Open Framework
Having I/O interfaces to most common CAD and CAID tools included at no extra cost, Inspire Studio integrates extremely easily in existing workflows.

Direct Import
- 3D Studio
- ACIS
- CATIA 4/5/6
- DWG
- DXF
- H3D
- IGES
- Inventor
- NX
- OBJ
- Parasolid
- Point cloud
- PolyNURBS
- Pro/E and Creo
- Rhinoceros
- SolidWorks
- STEP
- STL
- sT Evolve
- SVG
- Thea Studio

Export To
- 3D Studio
- ACIS SAT
- DWG
- DXF
- IGES
- OBJ
- Parasolid
- PDF
- Rhinoceros
- STEP
- STL
- SVG
- VDAFS
- VRML

Inspire Studio is currently available for Windows 64-bit and MacOS. See website for details and hardware specs.

Wide range of materials and environments

Soccer cleat modeled and rendered in Inspire Studio

3D-printed pen with organic design