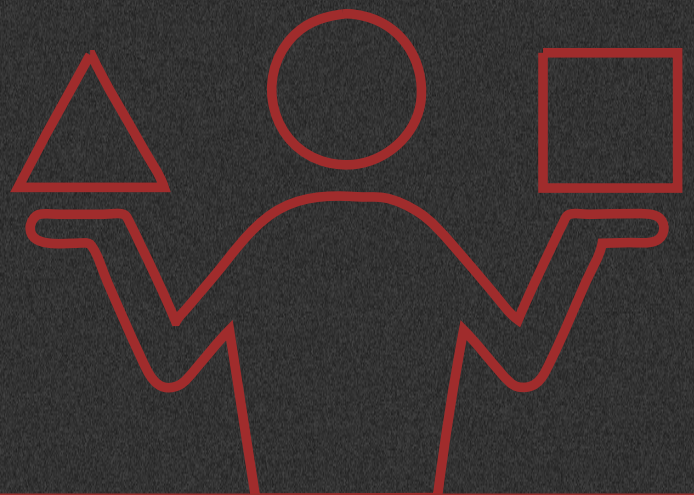




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# Product Comparison



magnacad



## Innovation and Productivity

IronCAD was founded in March 2001 with the aim of developing user-focused 3D design software to improve productivity and help designers and engineers achieve success in their respective fields. Since then, we've created numerous 3D modeling tools that have forged new directions for engineering design software.

## Transforming CAD from Concept to Creation

IronCAD significantly reduces manufacturing barriers and increases engineering productivity with intuitive 3D and 2D solutions for rapid design and seamless collaboration enterprise-wide.



## 3D MODELING

	IRONCAD	INOVATE	DRAFT	COMPOSE
Innovative Part Design	●	●	●	●
Structured Part Design	●	1	●	●
3D Dynamic Modeling (History and/or Non-History Based)	●	●	●	●
History Constraint Toggle Technology	●	●	●	●
3D Surfacing Modeling - Basic	●	●	●	●
3D Surfacing Modeling - Advanced	●	●	●	●
3D Direct Face Modeling (DFM)	●	●	●	●
3D Direct Face History Modeling (Structured Part Design)	●	●	●	●
Support for 3D Multiple Body Capabilities	●	1	●	●
Top-Down Assembly Design	●	●	●	●
Bottom-Up Assembly Design	●	●	●	●
3D Boolean Modeling	●	●	●	●
Assembly Modeling within a Single Scene	●	●	●	●
Assembly Modeling with External Linking Capabilities	●	2	●	●
Parametric Modeling	●	●	●	●
Sheet Metal Modeling	●	3	●	●
Assembly Modeling within a Single Scene	●	●	●	●





	IRONCAD	INOVATE	DRAFT	COMPOSE
Innovative Part Design	●	●	●	●
Structured Part Design	●	1	●	●
3D Dynamic Modeling (History and/or Non-History Based)	●	●	●	●
History Constraint Toggle Technology	●	●	●	●
3D Surfacing Modeling - Basic	●	●	●	●
3D Surfacing Modeling - Advanced	●	●	●	●
3D Direct Face Modeling (DFM)	●	●	●	●
3D Direct Face History Modeling (Structured Part Design)	●	●	●	●
Support for 3D Multiple Body Capabilities	●	1	●	●
Top-Down Assembly Design	●	●	●	●
Bottom-Up Assembly Design	●	●	●	●
3D Boolean Modeling	●	●	●	●
Assembly Modeling within a Single Scene	●	●	●	●
Assembly Modeling with External Linking Capabilities	●	2	●	●
Parametric Modeling	●	●	●	●
Sheet Metal Modeling	●	3	●	●
Assembly Modeling within a Single Scene	●	●	●	●

**1** INOVATE can open and edit structured parts and surface data created in IRONCAD, but it cannot create structured parts. Structured parts support multiple body capability.

**2** INOVATE cannot create external-linked file associations, however INOVATE is able to open files that have externally linked files associated with them that were created in IRONCAD.

**3** INOVATE is able to read sheet metal parts created in IRONCAD, however cannot edit them with standard sheet metal design tools and must resort to DFM tools to edit.

## 3D ENVIRONMENT

				
Library of Catalogs (Scratch Pads, Project Folder, Repository)	●	●	●	●
IntelliShape Modeling Intelligence - Basic	●	●	●	●
IntelliShape Modeling Intelligence - Advanced	●	●	●	●
Dynamic View Sensitivity Modeling	●	●	●	●
SmartSnap® Technology	●	●	●	●
Behavioral Modeling	●	●	●	●
Variant Modeling (Design Variations, Family of Parts)	●	●	●	●
SmartAssembly® Technology	●	●	●	●
Creation of Smart eBehaviors	●	●	●	●
IntelliStretch® Technology	●	●	●	●
Auto-Feature® (feature recognition and selection filter)	●	●	●	●
Dual Kernel Support ( ACIS® and PARASOLID®)	●	●	●	●
"Cruising" Technology	●	●	●	●
Multiple Coordinate Systems Creation	●	●	●	●
Mechanism Kinematics	●	●	●	●
Dynamic Collision Detection	●	●	●	●
TriBall® Proactive Response Tool	●	●	●	●
PMI Annotation Creation	●	●	●	●
PMI Annotation Display	●	●	●	●
Structural Steel Creation	●	●	●	●
Structural Steel Display	●	●	●	●
Cosmetic Weld Creation	●	●	●	●
Attachment Point Creation	●	●	●	●
Handle Technology (Basic)	●	●	●	●
Handle Technology (Advanced)	●	●	●	●
Auto-Project Sketching	●	●	●	●
Reference Object Support (Datum Planes)	●	●	●	●
Spreadsheet-Driven Parametric Design	●	●	●	●
2D Sketching SmartSnap Feedback and Indicators	●	●	●	●
Real-time Rendering Display Options Support	●	●	●	●
Smart eMarkup™ Creation	●	●	●	●
Smart eMarkup™ Accept/Reject	●	●	●	●
Smart eContent™ Support	●	●	●	●
Component Databases Customization	●	●	●	●
UI Customization	●	●	●	●

## RENDERING

- Photo-Realistic Rendering (Basic)
- Photo-Realistic Rendering (Advanced)
- KeyShot for IRONCAD

## ANIMATION

- Animation - Drag and Drop
- Animation - Key-Frame
- Animation Export to Video or Frames
- KeyShot for IRONCAD

## COMMUNICATION TOOLS

- 3D PDF Export
- 3D Cloud-Based Web Viewer
- 3D Cloud-Based Web Viewer - Sharing

## TRANSLATORS AND DATA SHARING

- 2D DWG/DXG Support
- Support for SAT, X\_T, IGES, STEP, CATIA V4 and Pro/E
- Native File Support for:  
CATIA, Pro/E, Unigraphics, SolidWorks, SolidEdge, Inventor,  
Rhinoceros, and JT

## 2D DRAFTING ENVIRONMENT

- 2D Bidirectional Drafting/Detailing
- Integrated CAXA Draft 2D Drafting/Detailing
- Library of Catalogs
- Parametric 2D Parts Library

## OPERATING SYSTEM SUPPORT

- Personal Computer (PC) Window Platform
- Mobile Platform (Apple iPad)

	Product 1	Product 2	Product 3	Product 4
Photo-Realistic Rendering (Basic)	●	●	●	●
Photo-Realistic Rendering (Advanced)	●	●	●	●
KeyShot for IRONCAD	4	4	4	4
Animation - Drag and Drop	●	●	●	●
Animation - Key-Frame	●	●	●	●
Animation Export to Video or Frames	●	●	●	●
KeyShot for IRONCAD	5	5	5	5
3D PDF Export	●	●	●	●
3D Cloud-Based Web Viewer	●	●	●	●
3D Cloud-Based Web Viewer - Sharing	●	●	●	●
2D DWG/DXG Support	●	6	●	●
Support for SAT, X_T, IGES, STEP, CATIA V4 and Pro/E	●	●	7	8
Native File Support for: CATIA, Pro/E, Unigraphics, SolidWorks, SolidEdge, Inventor, Rhinoceros, and JT	9	9	7	8
2D Bidirectional Drafting/Detailing	●	●	●	●
Integrated CAXA Draft 2D Drafting/Detailing	●	●	●	●
Library of Catalogs	●	●	●	●
Parametric 2D Parts Library	●	●	●	●
Personal Computer (PC) Window Platform	●	●	●	●
Mobile Platform (Apple iPad)	●	●	●	●

**4** Optional Keyshot Basic or Pro add-on integration

**5** Optional Keyshot Pro add-on

**6** INOVATE can import 2D into 3D sketch environments but cannot export 2D data.

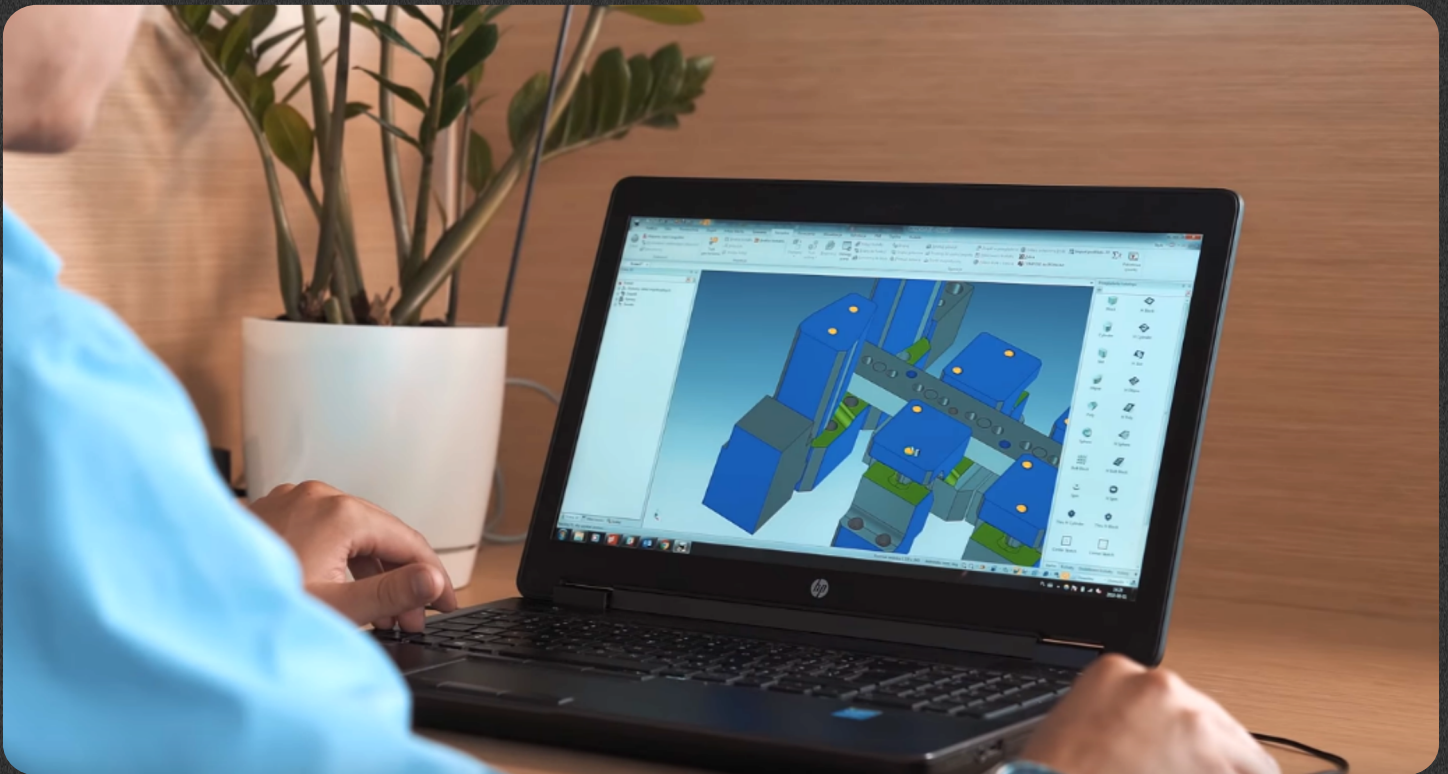
**7** Support for Import only. Optional add-on import translator.

**8** Optional add-on translator for graphical import only.

**9** Optional add-on translator to accept native 3D formats from software outlined.



## Clean and Efficient User Interface across all Solutions



Winner of numerous industry awards, the IronCAD Design Collaboration Suite is an intuitive 3D design productivity solution that empowers users, increases efficiency, and extends 3D collaboration throughout the enterprise. IronCAD engineering design software products are designed to be used standalone, to complement an existing design environment, and with one another to facilitate cross-department collaboration.



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Magnacad is a major supplier of the most innovative and mission critical software for design professionals and enterprises nationwide. We have been involved in the industry over thirty years and have seen a need to provide services and solutions that are a dramatic change to the way organizations maintain their design and engineering infrastructure.

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