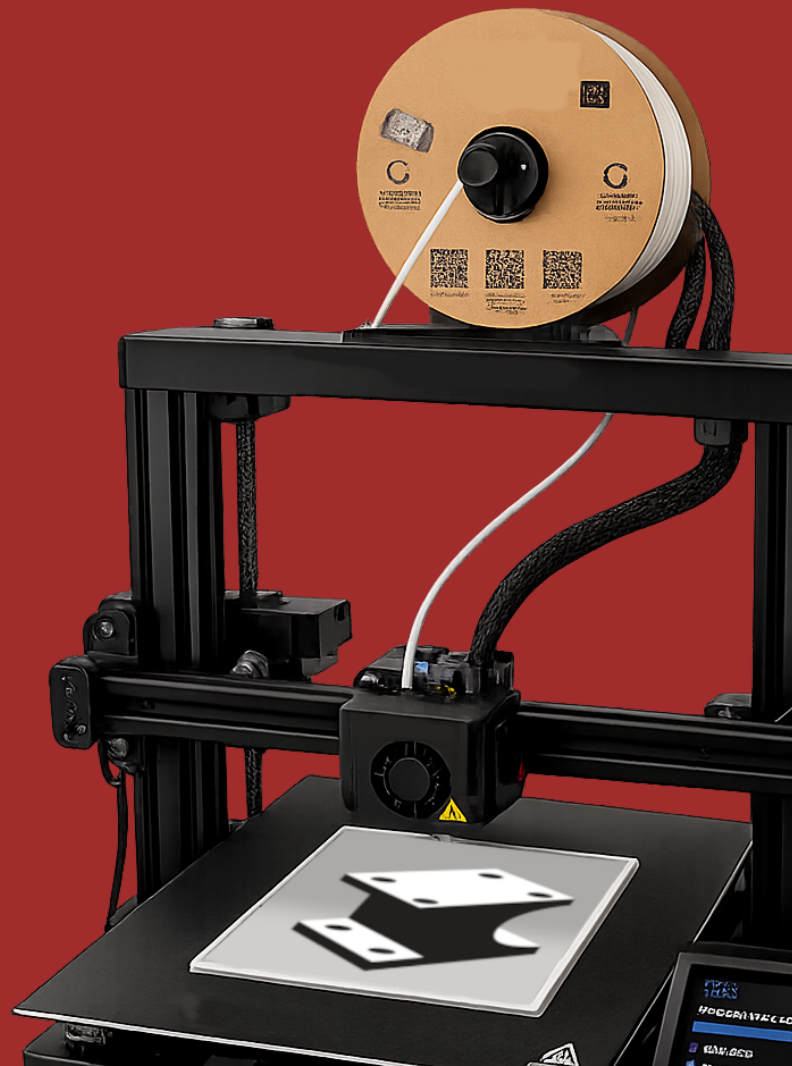


3D Printing with INOVATE™

A Guide to understanding how IronCAD's INOVATE solution is the ultimate to support 3D Printing and Makers





The bulletin is intended to highlight how INOVATE is the ultimate design tool for 3D Printing.

Why INOVATE outperforms all other CAD Solutions for 3D Printing

As 3D printing continues to transform manufacturing, many designers are still relying on CAD systems built for a different era—tools optimized for drawings, not for rapid iteration and additive workflows. Or newer attempts that just plain fall-short for real-world 3D printing.

INOVATE changes that. Built with a unique combination of direct modeling and structured design capabilities, INOVATE eliminates the limitations of traditional and "modern" CAD and delivers a faster, more intuitive path from concept to printed part.

Designed for the Way 3D Printing Actually Works

- Drag-and-drop features directly into a scene
- Modify geometry instantly without rebuilding models
- Make late-stage changes without breaking designs

This flexibility gives engineers the freedom to iterate quickly.

Work with Any Data—Without Rebuilding

- Import data from virtually any major CAD system
- Edit imported models as if they were native
- Prepare designs for printing without recreating geometry

This means you can take an existing part and have it ready for 3D printing in minutes—not hours or days.

Built for Complex and Organic Geometry

- Directly edit complex geometry without feature dependencies
- Combine structured and freeform design approaches
- Simplify preparation of intricate parts for printing

You're no longer constrained by the limitations of your CAD system—only by your imagination.

Accelerate Design with 3D Catalog-Driven Workflows

- Drag-and-drop intelligent components into designs
- Build assemblies and printable structures in seconds
- Standardize and reuse proven design elements

This dramatically reduces modeling time and ensures consistency across projects.

Faster from Concept to Printed Part

- No time lost managing feature trees
- Instant geometry edits without regeneration delays
- Rapid prototyping through continuous iteration
- Seamless transition from design to STL/export

The result is a significantly shorter path from idea to physical object.

Easy to Learn, Powerful to Use

- An intuitive, drag-and-drop design environment
- Minimal training required to become productive
- Flexibility for both beginners and advanced users

This makes it ideal for teams adopting 3D printing or looking to scale quickly.

The Bottom Line

3D printing isn't just a new manufacturing method—it requires a fundamentally different design approach.

INOVATE delivers that approach by removing the barriers imposed by traditional CAD systems. With unmatched flexibility, speed, and reuse of existing data, it empowers users to fully leverage the potential of additive manufacturing.

If your goal is to design faster, iterate freely, and bring better products to life through 3D printing, INOVATE isn't just an option—it's a competitive advantage.



IronCAD's Freedom Architecture™ Solution

INOVATE™ Edition



Unified Design Environment (UDE)

Single Scene file for all designs, no process-specific modules



Innovative Part Mode

Auto-Adaptable part feature structure for seamless design.



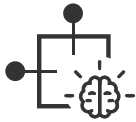
TriBall™

Patented proactive spatial response 3D tool.



SmartSnap™

Intelligent cross-process reference snapping.



IntelliShapes™

Advanced feature intelligence embedding technology.



Catalog-Based Design

Advanced DnD system for automatic feature/part modeling



SmartAssembly™

Paired parametric behavioral assembling technology.



IntelliStretch™

Dynamically Stretch Parts and Assemblies without parameters.



Auto-Feature™

On-Demand feature recognition and creation.



B'Reach-In Handles

Edit 2D sketch geometry without entering sketch mode.



Direct-Face

Intelligent on-demand face editing and manipulation.



Boolean Retention

Parts retain their feature structure post boolean operations.



Dual Kernels

ACIS and PARASOLID modeling engines working simultaneously.



Dynamic View Modeling

View/Zoom orientation controls shape modeling automatically.



Cruising

Drag features intelligently on model without constraints.



Push-n-Pull Handles

Grab handles to modify Assemblies, Parts, Features and Faces.