



**Fabrication Made  
Easy**

# Fabrication Made Easy

**IRONCAD™ Fabrication Solution** The IronCAD Design Collaboration Suite is the perfect fit for fabrication, whether it be machine design, sheet metal fabrication or factory automation. There are many challenges when designing for fabrication. Those challenges and how IRONCAD addresses them are listed below.

## Rapid Communication

Having trouble communicating with manufacturing? IRONCAD's design tools eliminate most if not all communication issues. Here's how:

- **Sharing data:** IRONCAD's advanced translators allow you to communicate with virtually all CAD/CAM systems being used today.
- **Quoting:** Use our integrated custom query tools to determine the costs of your new design. Integrate with back office databases or ERP systems.
- **Collaboration:** Easily share your designs with suppliers, vendors and customers on a PC or iPad using COMPOSE, our free viewing, configuration, and markup application.
- **Sheet metal:** Powerful drag and drop sheet metal design and automated DXF export for rapid communication with laser cutting machines.

## Design Reuse and Modification

Are you worried about managing large libraries of parts and designs, worried about how to leverage those in new designs. With IRONCAD it's as simple as drag and drop. Here's how:

- **Catalogs to store assemblies and parts:** Need to reuse an existing assembly or part to start a new design? Just drag and drop one out of a catalog into your design scene.
- **ProActive BOM Manager:** Use this tool to quickly and easily rename part numbers for your new design.
- **TriBall:** Use our patented TriBall to quickly position parts and assemblies in 3D space.
- **Modify:** Edit designs by modifying features or with direct edits. Choose what works best for your needs.

## Rapid Training

Want to move to 3D but are afraid of how long it will take to make the transition? With IRONCAD you can be up and running in days instead of weeks/months. Here's how:

- **Unprecedented ease of use:** IRONCAD is so easy to learn and use that customers start creating designs and assemblies without even needing to go to training classes. With our extensive library of online training videos you and your team will be up and running in days, not weeks or months.
- **New hires:** New hires at your organization will learn IRONCAD in a matter of days so you can get maximum productivity out of your investment in human resources.

## Multitasking Made Easy

Are you performing multiple roles at your organization? IRONCAD is so easy to use you can switch tasks and come back whenever you want to and get right back up to speed. Here's how:

- **Ease of use:** With IRONCAD you're never bogged down with constraints and relationships, you simply design the way you want, you don't need to worry about moving a feature and breaking the model. It just doesn't happen due to our innovative design technology.
- **Start where you finished:** With traditional systems you can easily forget how you designed a model, this means if you leave the design to focus on another task you run the risk of breaking the model when you start work again. With IRONCAD you simply continue from where you left. It's just that simple.

## Automated Production Tools

Robotics makes manufacturing extremely efficient, but simulation of robotic actions is cumbersome, simulating assembly and disassembly components is also time consuming. IRONCAD's powerful add-on tools make simulating all these tasks as simple as using a mouse. Here's how:

- **Robot design:** Use IRONCAD's powerful design tools to create representations of robots used in your production lines, or simply import the 3D data if your vendor supplies it.
- **Simulate actions:** Automatic add design intent to simulate the movements of the robots.
- **Path programming:** Using IRONCAD's powerful TriBall and 3rd party integrations to visually build the movements of the robots.
- **Simulate design instructions:** Use the TriBall to build and record assembly and disassembly procedures.

## Integrate with Additive and Subtractive Manufacturing

When your designs are complete IRONCAD makes it fast and easy to get your design data to fabrication devices such as CNC machines and rapid prototyping printers. Here's how:

- **Robust translators:** IRONCAD's vast selection of export formats allows you to communicate with virtually any CAM software application. Some examples of file formats available are STEP, IGES, ACIS, PARASOLIDS. We also have powerful export tools for STL to use with 3D printers.
- **Powerful Communication:** IRONCAD easily communicates with vendors API's such as 3D printers to quickly and easily develop integrations allowing you to print to 3D right from within IRONCAD.

