



# AUTODESK® **ADVANCE STEEL**

## Be part of the BIM revolution.

Improve your design process with Building Information Modeling and intelligent structural steel detailing and fabrication software.

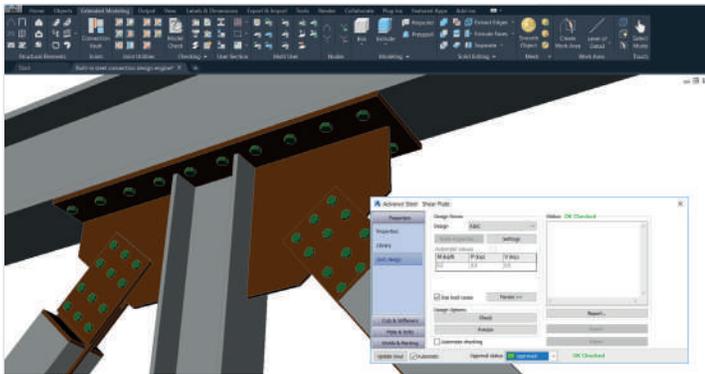


# Minimize time from design to fabrication

Intelligent 3D modeling software for structural steel detailing and fabrication helps to improve accuracy and reduce time from design to installation.

## 3D steel modeling with the intelligence of BIM

Autodesk® Advance Steel structural steel detailing software is built to help structural engineers, detailers, and fabricators create information-rich building models that can help drive the fabrication of steel components.



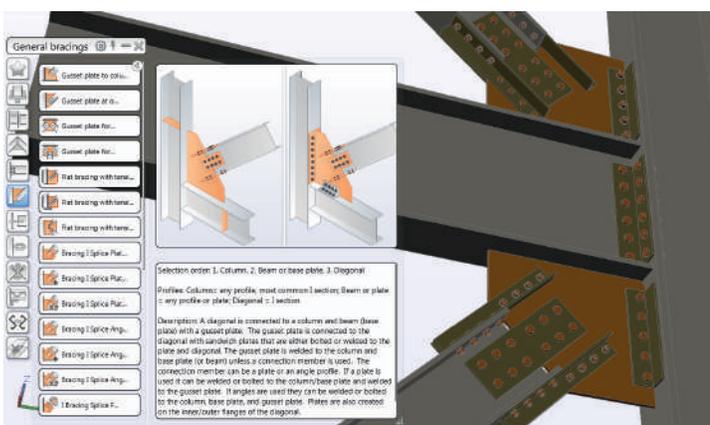
Built-in steel connection design engine.

## Structural steel modeling

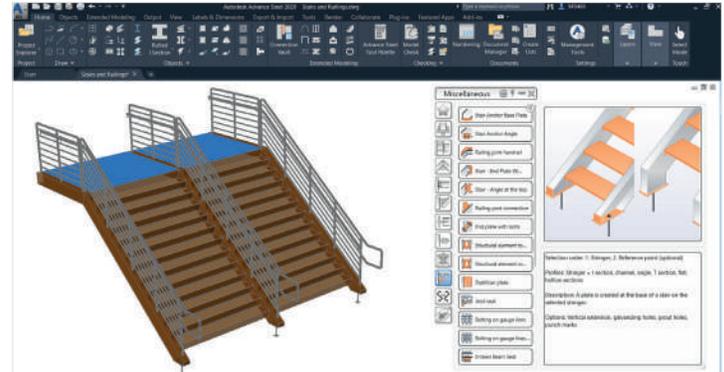
Advance Steel simplifies the structural modeling process through several intelligent features. It contains an extensive library of objects and powerful tools to help you create structural elements. The dedicated wizard tools make it easier to create elements like trusses, bracings, purlins, and portal frames.

Advance Steel gives you access to different types of ready-to-use parametric steel connections. The comprehensive, user-friendly library enables you to access simple and complex structural connections, and when member size changes are made, connections are automatically updated.

A built-in steel connection design engine that checks connection compliance against AISC and EC3 standards helps validate your models. Check your steel connections at any time against industry standards and then run a report with formulas included for printing and reference.



Large library of parametric steel connections.



Dedicated tools for stairs, railings and cage ladders.

## Miscellaneous steel modeling

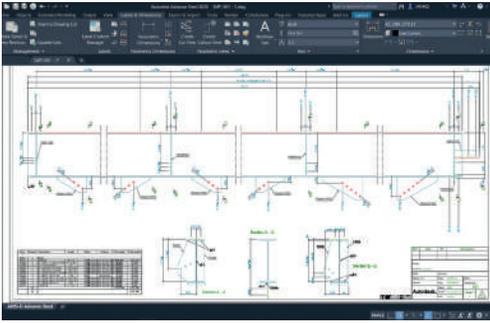
Advance Steel also has powerful tools for miscellaneous steel creation. Create more accurate stairs and railings with the use of special wizards. These dedicated wizards save time by helping you to quickly generate straight and spiral stairs, straight and curved railings, and cage ladders. Once created, you can more easily modify the properties using a large selection of customizable parameters to suit the needs of your project.

Additionally, you can design sheet metal or model complex folded plates by using specific commands. These miscellaneous elements can be automatically unfolded during the creation of your shop drawings, and the pattern can be fully represented within the CNC data to help drive fabrication.

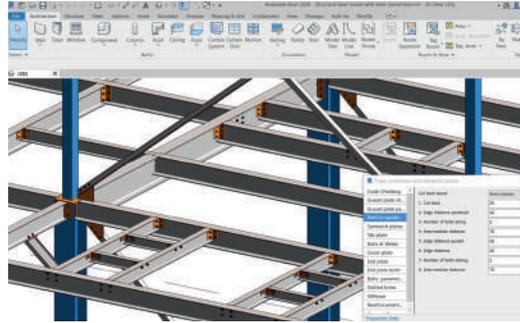
Advance Steel also enables you to import other non-standard components for detailing and shop drawing creation, helping you create a full as-built model. For example, you can import components such as engines and tanks and add welds and bolts to them for better coordination, clash detection, and more accurate bills of material.

“Advance Steel helps me work out the constructability of a design, and gives me that other set of eyes when I’m rechecking complex spatial geometry.”

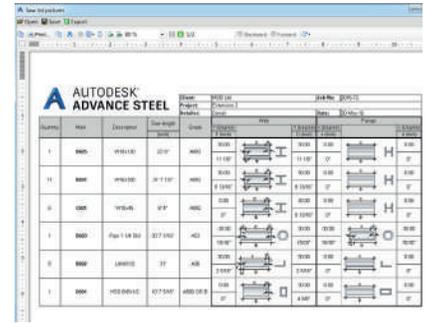
–Bart Rohal  
 Founder and President  
 Steel Detailing Online, Inc.



Example of an automatically generated shop drawing.



Share models between Advance Steel and Revit.



Saw cut bill of material with explicit pictures.

### Customizable documentation for more efficient fabrication

Advance Steel improves the steel detailing process by providing ready-to-use templates that help you create high-quality shop drawings. The software also automatically generates CNC data for fabrication.

Shop drawing templates can be used to create more accurate single part and assembly drawings at any time. These can be labeled and dimensioned to your requirements and to fit your current business and shop needs.

You can also produce general arrangement drawings for use during erection at the jobsite. These clear drawings can be quickly created in isometric, top, elevation, and anchor views, and automatically dimensioned and labeled by using the customizable drawing styles.

Bills of material (BOMs) can be easily created using ready-to-use templates. Quantities are defined by the parts used in the information-rich model, helping to eliminate waste with more accurate BOMs. Information can also be exported to different file formats so that it can be used in third-party systems, such as procurement solutions.

Advance Steel also automatically generates computer numerical code (CNC) for use with most machine manufacturers—including welding robots—enabling you to drive fabrication straight from the 3D model.

### Interoperable for maximum efficiency between processes

Advance Steel offers bidirectional links to design, analysis, and coordination tools to help you work better with different disciplines and validate end results with your client.

The Advance Steel Extension for Revit® enables you to import a Revit design model and steel connections into Advance Steel so that you can continue to work where the designer left off. Once detailing is complete, you can take the model back into Revit and resave it as a native Revit software file to connect design and fabrication.

The same level of interoperability is available with Autodesk® Robot Structural Analysis Professional structural analysis software. You can synchronize your model between Advance Steel and Robot to optimize your structural steel design and evaluate the design against major standards and codes.

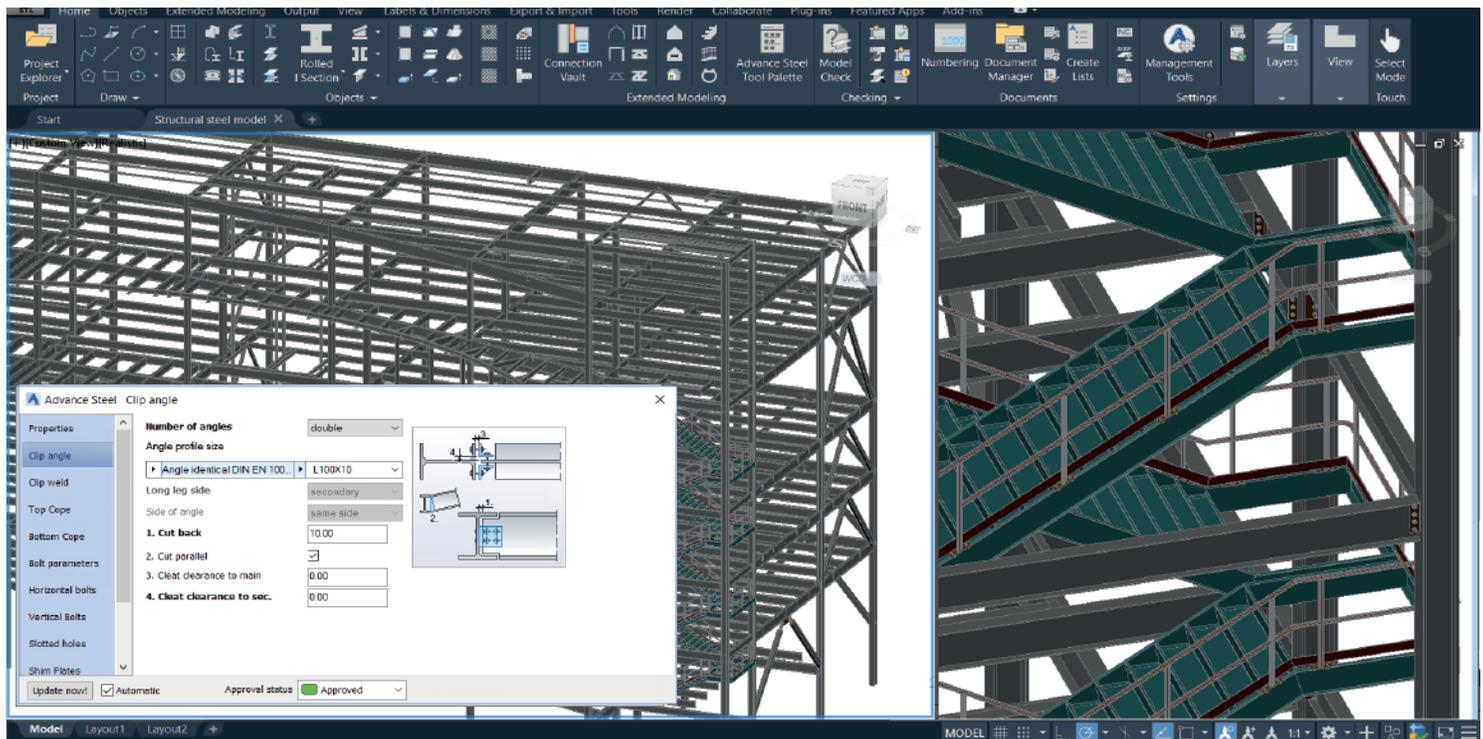
Finally, Advance Steel models can be taken into Autodesk® Navisworks® software for multidiscipline collaboration, construction simulation, and whole-project analysis. Work more closely and efficiently with other project stakeholders and reduce the risk of unexpected issues at the job site.

You can access Advance Steel, Revit, Navisworks, Robot, and more BIM and CAD tools in the Autodesk® Architecture, Engineering & Construction Collection.

Learn more at [autodesk.com/collections/architecture-engineering-construction/overview](https://www.autodesk.com/collections/architecture-engineering-construction/overview)

“The Advance Steel software’s ease of use, speed of modeling and connection design, and integrated design checks on the fly—combined with the ability to reuse the structural engineer’s Revit model—helped us reduce our anticipated schedule time by approximately 20 percent.”

—Adrian Betts  
Drawing Office Manager  
TSI Structures



“Autodesk has been very good to us for training and support and we’ve been using Advance Steel ever since... The advantages that Advance Steel brings include the automation tools: automated marking of pieces, cut parallel, automated connections, automated creation of drawings, parts and plans; and it does a really good job of it.”

—Erich Bretz, P.E.  
Principal  
MB BIM Solutions

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