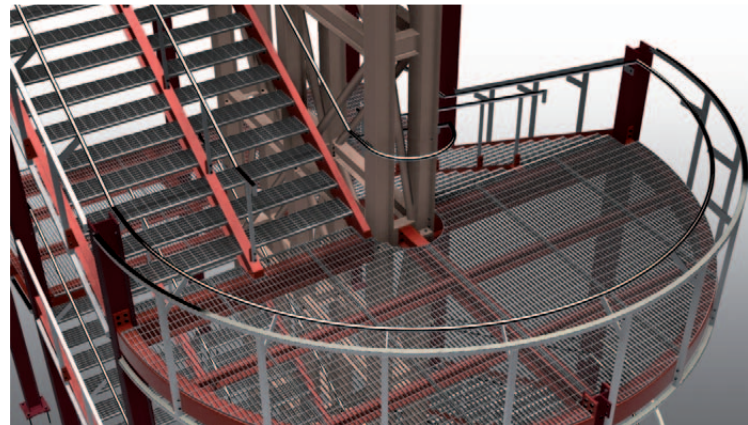




Steel construction



Miscellaneous steel



Industrial structures

BIM SOFTWARE FOR STRUCTURAL STEEL
ENGINEERING, DETAILING AND FABRICATION

 **GRAITEC**

www.graitec.com

Advance Steel is specifically designed for structural engineers and steel detailers who require professional and easy-to-use BIM structural steel detailing software that automates the production of drawings, BOMs and NC files.

Advance Steel drastically increases productivity and drawing quality, while reducing the risk of errors. Advance Steel can be used with or without AutoCAD®.

User friendly interface

Ribbon user interface
Easy-to-use
Common to Microsoft applications

Dynamic modeling

Three-dimensional
Real-time
User friendly visualization

Interoperability capabilities

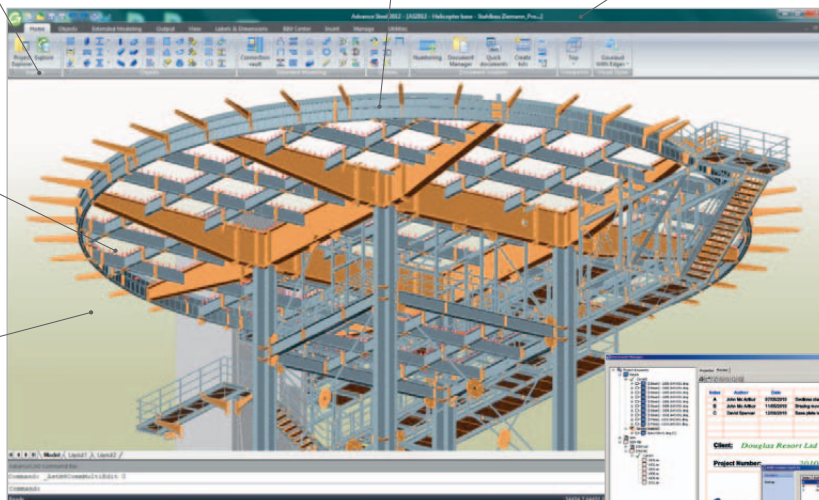
Communicates with others
File format standards
Integrated workflow benefit
Increased productivity, quality

Intelligent model

Building geometry
Spatial relationships
Quantities & properties of building components

Effective marketing presentation

Realistic 3D view
Usage of different materials
Background, lights, shadows
Walk and fly tools



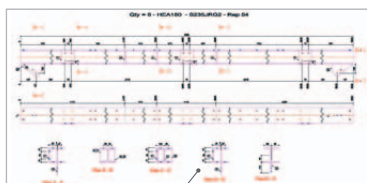
Model courtesy of Stahlbau Ziemann GmbH, Germany

Changes are made in the 3D model and are automatically updated to BIM

Increased coordination of construction documents
Integrated revision control

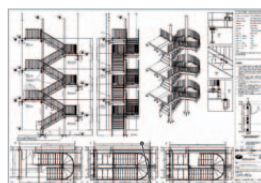
Multi-user or single-user mode

Models shared between team members
Productivity gains
Secure solution



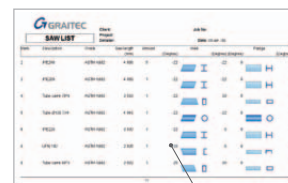
Automatic drawings creation

From one single model to multiple drawings
Tools for extracting different views
Created in DWG file format



NC-DSTV and DXF files

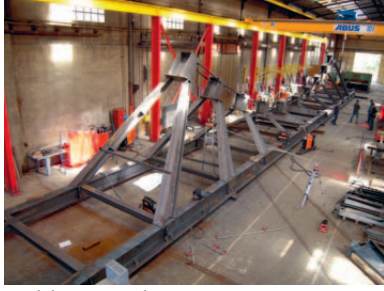
NC-DSTV files automatic creation
NC-DXF files
Automatic update of any model changes



Automatic BOM creation

Correct quantities to order, to fabricate and to send at site...
Exportable to PDF, XLS
Automatic update

Steel Construction



Model courtesy of LEGRAND

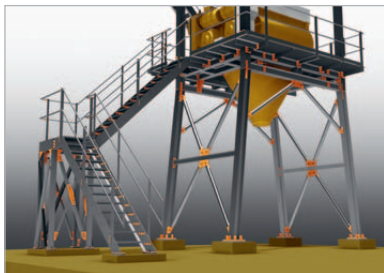


Model courtesy of OKF

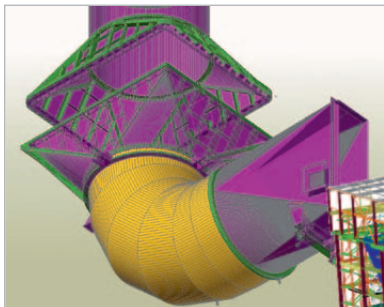


Model courtesy of DICO AND TIGANAS

Industrial structures



Model courtesy of XTEC AG

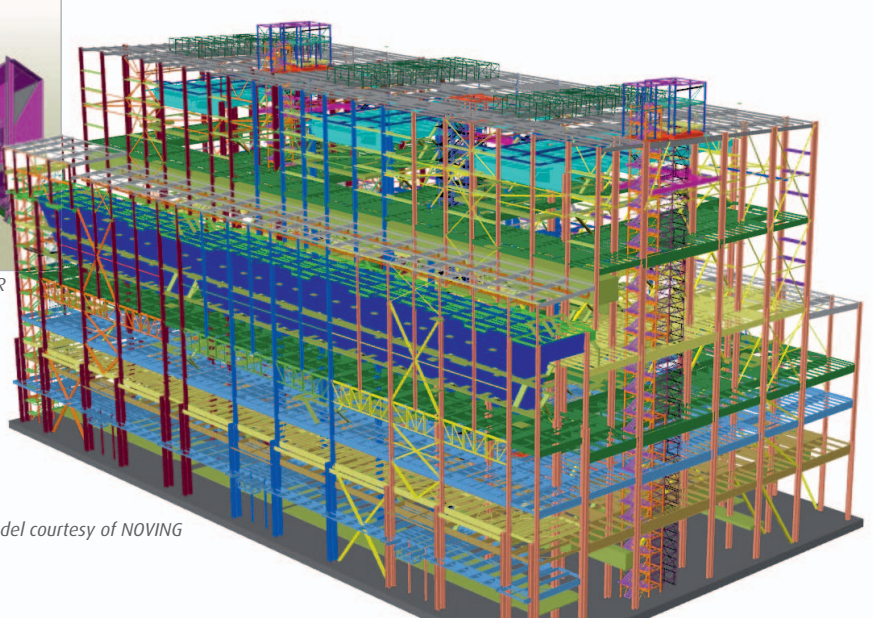


Model courtesy of PLANUNGSBURO HEUER

Advance Steel provides an effective solution with the best-in-class tools for creating and detailing industrial steel structures such as bridges, pylons, gantries, hoppers, conveyors, etc.

High-end automatic tools to create sheet metal with complex geometry like square-to-circular transitions are available.

The software is extremely versatile so users can create a wide variety of projects from simple to complex shapes, confident in the knowledge that accurate workshop and general arrangement drawings will be created automatically.



Model courtesy of NOVING

Oil & Gas

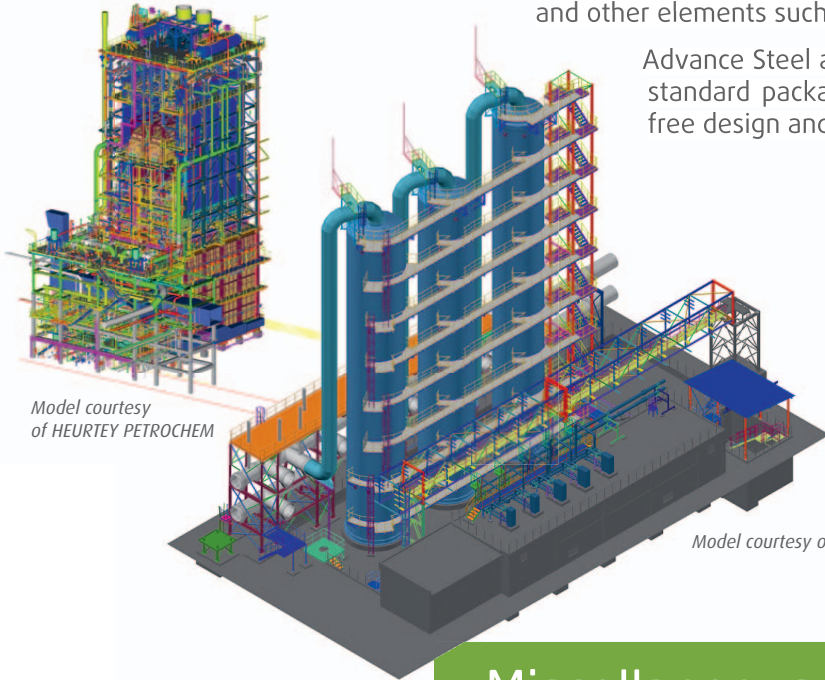


Advance Steel provides all the tools to handle large and complex structures within the oil & gas, power, metal & mining, pharmaceutical and chemical industries.

It offers a wide range of tools to manage your project from weld preparation to center-of-gravity calculation of any complex welded assembly, saving the user time when handling production platforms, helidecks and piping supports.

The integrated clash check prevents conflict between the steel members and other elements such as the piping or the equipment.

Advance Steel also integrates with all major oil & gas industry standard packages, such as PDS and PDMS, providing error-free design and detailing collaboration.



Miscellaneous Steel



Model courtesy of J-C FASSLER

Advance Steel is the most advanced software solution available on the market for designing and detailing miscellaneous steel work such as stairs, handrails, balustrades and sheet metal work.

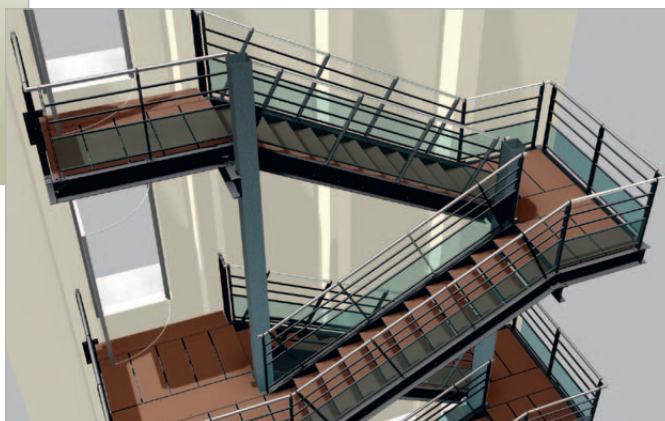
The software contains a complete range of automatic macros (design-wizards) for straight stairs, spiral stairs, railings and cage ladders. Dialog boxes are also user-friendly and include clear and concise illustrations and instructions.

Users can handle complex projects such as circular and twisted stairs which can also use different types of materials such as stainless steel, timber, concrete and even glass.

Advance Steel also includes dedicated drawing styles pre-set-up for detailing the miscellaneous steel members.



Model courtesy of J-C FASSLER



Model courtesy of YSOFER

1

CREATE A 3D BIM MODEL WITHIN MINUTES



Model courtesy of TSI Structures Limited (UK)

The Advance Steel user friendly interface allows precise, efficient and fast modeling. Model your complete project including columns, floor beams, bracings, girt and miscellaneous steelwork (stairs, railings, etc.), with easy to use Advance objects and assemblies that snap in place. Visual dialog boxes immediately pop-up to customize preferences and dimensions.

Advance Steel provides extensive localized libraries with thousands of components and connections that intelligently snap in place and instantly adapt to ongoing model changes with visual feedback.

The powerful "Quick connect" feature automatically creates and designs all standard connections in a project according to user requirements.

Advance Steel can also perform a complete model check, verifying collision detection, construction tool accessibility and object numbering correction.

2

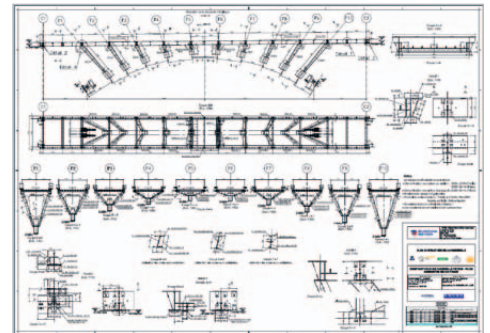
GENERATE ALL DOCUMENTS AUTOMATICALLY

From the completed 3D model, 2D drawings and associated documentation can be automatically extracted:

- General arrangement drawings (isometric views, elevations, floor plans, etc.)
- Sections and close ups
- Fabrication drawings (assembly drawings, single part drawings, etc.)

Advance Steel produces CNC files (DSTV format) for workshop machinery directly from the 3D model, eliminating material errors and it also includes interfaces to several MIS systems.

Advance Steel can generate all material lists in addition to NC files. Advance Steel includes many predefined report formats (beam lists, plate lists, etc.) and supports custom templates: content definition, customizable sorting, company logos, pictures, etc.



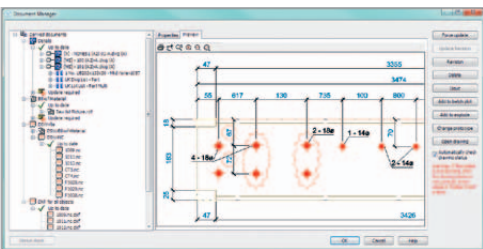
Model courtesy of Ets Legrand (France)

Date: 02/07/12		Saw cut list		Reference :							
Project: Châssis armoire poste sècheur		Site: Siat Braun		0019-13							
Material	Quantity	Length	Cut on the web				Cut on the flange				
			E (mm)	F (mm)	G (mm)	H (mm)	a (mm)	b (mm)	c (mm)	d (mm)	
Qty/2 Pos Rep: 1092	L80X8	3730	0*	0 mm	0 mm	0*	0 mm	0 mm	0*	0 mm	0 mm
Qty/2 Pos Rep: 3	L80X8	200	0*	0 mm	0 mm	0*	0 mm	0 mm	0*	0 mm	0 mm
Qty/2 Pos Rep: 1028	PL150X8	525	0*	0 mm	0 mm	0*	0 mm	0 mm	0*	0 mm	0 mm
Qty/2 Pos Rep: 1095	PL200X10	162	0*	0 mm	0 mm	0*	0 mm	0 mm	0*	0 mm	0 mm

Model courtesy of Ets J-C Fassler (France)

3

DEALS WITH CHANGES EASILY



The Advance Steel "Document Manager" offers a centralized, time saving, visual-tracking document management system (drawings, lists, NC files, etc.). You can check your drawings at a glance, sort out and print drawings or material lists!

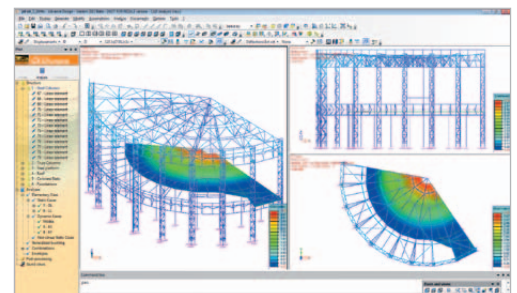
Advance Steel automatically creates revision clouds in drawings highlighting modifications compared to the previous status of the drawing. This considerably helps users gain better control on changed elements after an automatic update of the drawings have been applied including the revision number.

4

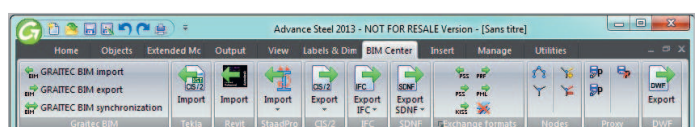
BIM TECHNOLOGY

Advance Steel is part of the GRAITEC Advance structural BIM solution for construction professionals and the created 3D model is bi-directionally linked with structural analysis and design programs such as Advance Design.

Advance Steel also imports, exports and links your 3D model with industry standards such as IFC, CIS/2, SDNF, PSS, KISS in order to exchange in a BIMproject environment.



Model courtesy of Pro Vedra SRL (Romania)





THE STRUCTURAL BIM SUITE FOR CONSTRUCTION PROFESSIONALS

Better tools, improved workflow, increased productivity...

- 100% dedicated to Structural Design, Engineering and Detailing
- Automatically creates and updates construction and fabrication drawings
- FEM analysis and structural optimization
- Multi-user environment and integrated document management
- Powerful technology, easy to use, short learning curve



Advance Steel

Advance Steel® is specifically designed for structural engineers and steel detailers who require a professional and easy-to-use 3D structural steel detailing software that automates the production of drawings, BOMs and NC files. Advance Steel® drastically increases productivity and drawing quality, while reducing the risk of errors.



Advance Design

Advance Design® is specifically dedicated to structural engineers who require a professional and easy-to-use solution for simulating and optimizing all their projects. Advance Design includes: a user-friendly structural modeler, an automatic load generator, a powerful FEM engine, comprehensive wizards for designing concrete and steel members according to Eurocodes and efficient post-processing and report generators.



Advance Concrete

Advance Concrete® is specifically designed for structural engineers and reinforced concrete detailers who require a professional and easy-to-use 3D software that automates the production of drawings, BOMs and NC files. Advance Concrete® drastically increases productivity and drawings quality, while reducing the risk of errors.

GRAITEC Advance: THE Software Suite that optimizes structural design and detailing!



Autodesk
Authorized Developer
Autodesk
Authorized ISV Partner

GRAITEC is ADN (Autodesk Developer Network)

GRAITEC is ISV (Independent Software Vendor)

Minimum recommended configuration:

Please visit http://www.graitec.com/en/advance_installation.asp

Non contractual document. - The availability of the aforementioned functionalities is dependent on the commercial package. - © February 2013 Graitec, SA
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GRAITEC develops, distributes and supports a suite of BIM software solutions for reinforced concrete, steel and timber structural design and 2D/3D modeling to fabrication.

GRAITEC's high performance CAD and Engineering software solutions for structural building construction are used by over 40,000 engineers and draftsmen worldwide and have helped in creating outstanding projects. GRAITEC's complete solutions contribute in solving the critical challenges of the AEC Industry, from the improvement of design and drawing productivity to the reduction of fabrication and construction errors.

GRAITEC has been committed for the last 25 years to exceed the industry standards and quality requirements with the constant commitment to provide to its users best in class support. Headquartered in France, GRAITEC operates worldwide through 13 companies in Europe, North America, Asia Pacific and works closely with a worldwide channel of Value Added Resellers.

GRAITEC is a unique multi material specialist of Structural BIM software for the Construction and Building industry, delivering best in class solutions from Structural Analysis to Engineering, Detailing and Production.

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