Advance Steel
HIGH-END USER FRIENDLY MODELING, THAT AUTOMATICALLY CREATES GENERAL ARRANGEMENT AND FABRICATION DRAWINGS
Dedicated to Steelwork Construction, Advance Steel is THE indispensable AutoCAD® extension for 3D structural modeling, detailing and fabrication (creates NC Code). Advance Steel is a major AutoCAD® extension that transforms the generic platform into an unsurpassed professional structural steel creation environment.

Advance Steel dramatically increases general project throughput by extensive use of drop and intelligent objects (profiles, joints, etc.), wizards, single click functions and visual management tools.

Correspondingly, Advance Steel has a small learning curve hence novice users can create, manage, modify complex intelligent 3D models and all associated drawings faster and with less effort than static 2D drawings.

Many new macros enable quick modeling of miscellaneous steel such as: handrails, stairs, cage ladders, spiral staircases, etc.

User can even use their own proprietary shape profiles and specifications within the macro: the stringer type, stair pan, railing, elbows at the end, mid rails / vertical pickets and the various types of connection to the stringer among other things can be user defined.

The stair model carries full parametric technology, hence any modification (length, width, angle, etc.) also modifies the handrails. Once a stair “type” has been saved in the library it can be recalled in any other project within the macro.
Advance Steel ensures precise, efficient, fast modeling and its unique technology automatically creates your general arrangement drawings, detail drawings, material lists and NC files.

Start modeling your columns, floor beams, bracings, girts 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 an extensive library that includes hundreds of connections that intelligently snap in place and instantly adapt to ongoing model changes with visual feedback.

The powerful “Quick connect” function automatically creates and designs all standard connections in the project according to user preferences.

Advance Steel then performs a final check: element collision detection, construction tool accessibility and object numbering correction.

Now that your model is finished with members, connections and correctly numbered you can use the automatic drawing creation for:

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

Dimensions and labels are automatically placed and easily modified using a visual wizard tool (welds, level symbols, etc.). And if that’s not enough... You can use all AutoCAD® functions to obtain the highest level of detail!

A major time saver: Advance Steel automatic drawing consistency check! When the model is modified all the relevant drawings are updated automatically upon your approval!

Advance Steel is part of the GRAITEC Advance CAD / Design software series. This modular end to end solution offers the advantage of fluid workflow from the initial structural concept to final design and production output. Our software integration saves considerable time by virtually eliminating double entries and redundant work!
Now that your drawings are ready, Advance Steel can create 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, logos and pictures, etc.

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

If AutoCAD® can help create the drawing you want... then Advance Steel can do it for you! Out of the box Advance Steel creates high quality drawings with a generic “Look and Feel”. Users can adapt the “Look and Feel” to their own requirements with the user-friendly “Drawing Style Manager”.

The Drawing Style Manager is a high-end tool that customizes the automatic drawing creation process (part visibility, content and placement of labels according to the object type, dimension positioning, etc.) to obtain drawings that require little or no cleanup.
YOUR PROJECT AT A GLANCE

1. Create your columns, floor-beams, bracings, girts with the same approach as drawing AutoCAD® lines and then call on the automatic connections library!

2. From the model, Advance Steel automatically creates general arrangement drawings, detail drawings, material lists, NC files... and links to Engineering software packages!

3. Structural modeling

4. Intelligent connections

5. Quick connection with design

6. General arrangement drawing

7. Fabrication drawing

8. Finite element analysis with Advance Design

Roof of Zlote Tarasy atrium (Golden Terraces) in Poland. Waagner-Biro GmbH, Austria, winner of the European Award for steel construction 2007
For more than 20 years, GRAITEC has been committed to developing high performance CAD and analysis software for the construction industry.

Over 6000 customers now rely on GRAITEC’s complete suite of fully compatible and integrated products covering design and detailing for the reinforced concrete and steel construction industries.

GRAITEC is a true software, engineering and R&D organization involved in the complete structural solution lifecycle: New technology R&D, CAD and design software development, quality assurance, training, support, specific solution/project consulting and outsourcing.

GRAITEC provides consistently improving cutting edge products matched by comprehensive support services to fulfill the highest production and quality requirements.

GRAITEC is a unique source for complete structural software expertise!

Headquartered in France, GRAITEC has subsidiaries in the USA, Canada, UK, Germany, Spain, Czech Republic and Romania, and works closely with resellers worldwide.

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Better tools, improved workflow, more productivity...
• 100% dedicated to Structural Design, Engineering and Detailing
• Three high-end 3D modelling packages: Structural Design, Steel Detailing and Concrete Detailing
• Eliminates data re-entry with unique bi-directional synchronization technology
• Automatically creates and updates construction and fabrication drawings
• Integrated drawing management
• Detailing packages are major AutoCAD® extensions
• Provides dramatically increased general project productivity

Advance Steel
Advance Steel is a major extension of AutoCAD® that accelerates structural steel modeling and automatically creates the general arrangement drawings, fabrication drawings, material lists and NC files. Advance Steel is specially developed for the steel industry to increase design productivity and production quality.

Advance Design
Advance Design conducts static and dynamic analysis of 2D and 3D structures based on the finite element calculation method. Advance Design is your in-house steel/concrete construction expert that features a 3D Climatic generator, non-linear calculation, support for large displacement phenomenon, structural optimization, etc.

Advance Concrete
Advance Concrete is a major AutoCAD® extension that accelerates modeling and drawing creation for concrete reinforcement and formwork drawings. Advance Concrete dramatically increases productivity while maintaining or increasing drawing quality.

THE Software Suite that optimizes structural design and detailing...
Are you ready for GRAITEC Advance?

Minimum recommended configuration:
Pentium IV with min. 2 GHz, 2 GB RAM and 128 MB graphic card.
Windows Vista or Windows XP Professional. AutoCAD® 2004 or higher.
This configuration may change depending on the evolution of operating systems and AutoCAD®.

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