



UNLIMITED CAD PERFORMANCE **DEVELOPED BY ISD**

STEEL ENGINEERING

*Simple Realization of
Complex Constructions*

Direct and Parametric Modeling

*Automatic Generation of
Production Documents,
Drawings and Parts Lists*

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THE WORLD OF CAD AND PDM SOLUTIONS

Quickly From Profile To Complex Structure!

HiCAD is the comprehensive solution for construction and project management in steel engineering.

With HiCAD, you can realize both simple and extremely complex projects with state-of-the-art construction techniques. Industry-specific features, practice aimed working methods and a high degree of automation improve the development time and the quality of your products.

Whether it is a complex load-bearing construction or customized assemblies, HiCAD always provides you with the right tools:

- Configurator for Stairs and Railing
- Steel Construction Connection Libraries for Profiles and Sheets
- Automatic Function for Production Documents



EeStairs is passionate about the design and realization of exceptional staircases. These designs are both functional and a real eye-catcher in any building. The above image shows a staircase in a new building at Canary Wharf in London. (Photo: Leigh Simpson)

It Is This Simple

Create a load-bearing structure including all details in no time at all.

Library

Our library contains thousands of standard parts, from bolts and nuts to hot and cold rolled profiles. Also curved or crooked load-bearing beams and individual profile groups can also be easily created with HiCAD.

Intelligent Steel Structure Connections

Simply use intelligent connections for a wide variety of applications. In contrast to conventional connections and connectors, they can not only be manually edited, but they can also be adjusted automatically. For example, after exchanging or editing of connected profiles.

Creation of Drawings

You can design the structure with the configurator for stairs and handrails or integrate glass and facade elements. HiCAD automatically manages the positioning of the building groups and individual components with integrated recognition of identical parts. From this it will automatically generates all types of drawings and necessary part information.

3D Point Cloud

A 3D point cloud as basis for your design: Create a quick and precise overview at the construction and import the data directly into HiCAD as a basis for the draftsman. This makes the processing of your renovating jobs even more efficiently.

Check and Edit your Model

The drawn construction can easily be edited at any time with the numerous of steel construction specific features. Thanks to the integrated collision check, errors can be recognized and resolved as early as the engineering phase. This doesn't only reduce the error rate, but also avoids time-consuming and often expensive rework.

HiCAD offers you Leading

Functions for Production Documents

Create drawings and parts lists at the push of a button. When you have finished the design HiCAD automatically generates the workshop drawings and monosheets based on your preferences in dimensioning, views, welds and more. Parts lists can be produced in a wide range of formats, e.g. formats can be generated directly in the construction drawing as an Excel spreadsheet or as a NC parts list.



100% BIM

BIM requires companies to work with 3D CAD software. HiCAD is the only CAD software where you can model 2D/3D combined in one system. The customer can use the delivered BIM or IFC model to design their own products, generate construction details and create views and shop drawings. All in one model and automated.

Pass on your Data to the

Purchase and Production Departments

Simply send the required information to purchase and production departments or to partners. All common used file formats such as DXF, DWG, IFC or STEP, direct interfaces of leading systems, and current NC export formats guarantee seamless data exchange with CAD, statics and CAM-systems.



»HiCAD offers a convincing technical solution for 3D steel constructions and a unique continuity of operations in 2D and 3D. HiCAD's open architecture also enables us to adapt the system optimally to our requirements.«

Siegfried Eckert, director of Ing.-Büro Karl-Heinz Goerke





At a Glance!

Thanks to its modular structure, HiCAD can be adapted perfectly to your company-specific requirements and can be expanded at any time.

<	Automatic Recognition of Identical Parts	✓
<	Fast and Simple Generation of Workshop Drawings	✓
<	Automatic Connection between Profiles	✓
<	IFC Export for BIM Projects	✓
<	Automatic Generation of Saw Lists	✓
<	Control of Drilling/Sawing Line based on NC Files	✓
<	Various Configurators for Stairs, Landings and Handrails	✓

HiCAD Steel Engineering

	Package (max. 750 Teile)	Suite	Suite premium
Basic functions For a rapid familiarization, e.g. GUI with Ribbons, Help, Sketch Technology, Text Editor, Browser etc.	✓	✓	✓
2-D drawing functions State-of-the-art 2-D drawing functions, all CAD features required for 2-D drawing	✓		✓
3-D modelling Innovative functions and tools for the creation of photo-realistic product models	✓	✓	✓
3-D fasteners Mechanical Engineering standard parts for bolts and screws, pins, studs, washers, nuts	✓	✓	✓
Steel Engineering Industry-specific functions and automatisms for complex steel engineering constructions, with market-leading functions for production document generation	✓	✓	✓
Stairs & Railings Straight and winding stairs with stair start definition options and free combination of tread supports, stringers and steps	✓	✓	✓
Sheet Metal basic Basic functions for sheet metal processing, with automatic development and blank calculation	✓	✓	✓
Drawing derivation, i.e. Itemization, automatic production/mounting drawing creation	✓	✓	✓
Report Manager Professional Bills of Materials on the basis of the CAD structure, extensive configuration options, company-specific adjustment, Exports in HTML, Excel, TXT format, comparison of individual rows, sorting according to various criteria, individual filter criteria for columns, calculation operations for columns, identical part search	✓	✓	✓
Simulations Motion simulations based on motors, physical simulations taking gravity into account, collision check, creation of videos	✓		✓
Plotmanager Printing/plotting of several or all drawings of a directory			✓
Document and Drawing Management for Civil Engineering For a safe project handling, with constantly updated design data, auto-generated drawings and bills of materials throughout the complete enterprise (* only in conjunction with HELIOS Engineer)	✓*	✓*	✓*