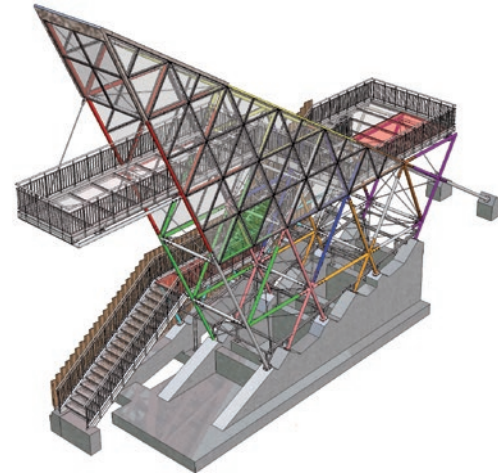## Your requirements — our solution

Flexible and accurate construction in the face of changing customer demands during a project.

- Secure and fast draft creation via market-leading 2-D/3-D integration in HiCAD
- HiCAD and HELiOS offer exceptional flexibility in 3-D construction and in data management
- The HiCAD identical part search with automatic itemisation always provides accurate item and part numbers
- Automatically generated industry-specific production documents guarantee correct drawings and NC data – even in case of modifications
- HELiOS ensures secure data management via the automated updating of the PDM data from HiCAD

An integrated solution for all development requirements.

- Secure processing of both supporting structure and facade in one program by means of the industry solutions integrated in HiCAD
- Cross-sector libraries and processing functions minimise administrative and training expenses as well as induction
- Service and support directly from the producer

Process Chain Civil Engineering / BIM

Practical solution for 3-D draft / specialist planning.

Keywords like 3-D drawing, BIM, Level of Development (LOD), business/coordination model determine the current discussion about optimising the planning and production processes in Civil Engineering. For over 25 years the ISD has been enhancing the efficiency of their 3-D solution for metalworking shops, structure and facade planning together with their customers. The entry into 3-D planning is an essential step into the future. HiCAD 3-D BIM and our experience will help you do so. Do not hesitate to contact us if you need more information!

- Increasing of planning security
- Improving of project communication
- Minimising the risks in the execution
- Growing demands become controllable
- Reducing of execution time

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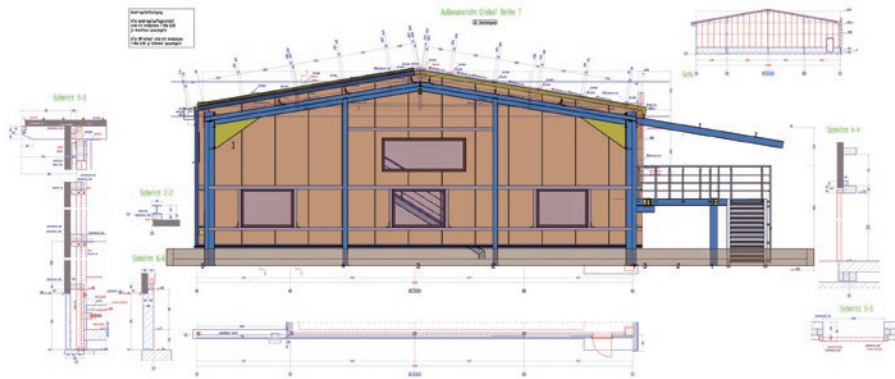
I·S·D
THE WORLD OF CAD AND PLM SOLUTIONS

HiCAD

UNLIMITED CAD PERFORMANCE **DEVELOPED BY ISD**

DRAFT
DRAWING CREATION
OUTPUT

PROCESS CHAIN IN CIVIL ENGINEERING / BIM

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I·S·D
THE WORLD OF CAD AND PLM SOLUTIONS

HiCAD

The 3-D BIM solution for Civil Engineering.

Nowadays planners must be able to react to design changes at short notice. Flexibility and security in the planning process are a must for prompt and economic project management.

With its unique 2-D / 3-D planning, HiCAD 3-D BIM is the leading, tried and tested 3-D solution for modern design and specialist planning. It guarantees you a swift and secure access to the future of 3-D.

- Inquiry / Order received
- Layout / Draft in CAD
- Changing the draft
- Approval / Customer release

Draft

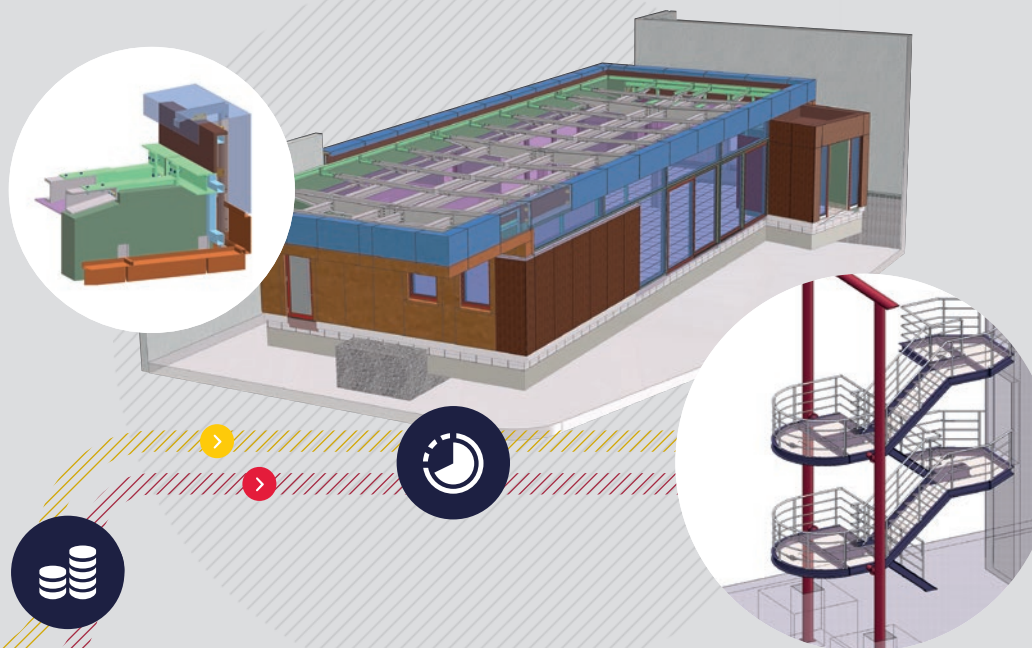- Concurrent Engineering
- Cross-sectoral approach
- Automatisms
- Detailing

Drawing creation

The need for quality and promptness during detail and implementation planning poses great challenges to planners, especially in case of frequent modifications. The close cooperation with our customers has made HiCAD 3-D BIM with its leading industry solutions the ultimate practical solution for flexible and secure 3-D specialist planning in Civil Engineering.

HELiOS ensures accurate documentation of the processes and thus a notable increase in productivity.

Output

- Identical part search / itemisation
- Workshop drawing
- BOM / ERP / NC / CAM
- Documentation

Steel Engineering, Metalworking
- Standard / weld / special profiles
- Connections, stairs, railings
- Free 3-D drawings

Sheet Metal, Mechanical Engineering
- Customised sheet metal drawings in 3-D and sectional views
- Fast and flexible by means of variant technology
- The latest mechanical engineering functions and 3-D NURBS

Mullion and Transom Facade (Glass Facade)
- Secure BIM-compliant roof / facade planning in 3-D
- Faultless structural connections and transitions by means of 3-D sections
- Bi-directional LogiKal® 3-D interface

Industrial / panel facade
- 3-D ISO panels and edgings
- Fast designing due to automated 3-D placement in a grid

Sheet Metal Facade, Rear-ventilated Facade, Element Facade
- Customized cassettes and elements by means of modern mechanical and parametrical functions
- Automated cassette / element placement (e.g. ALUCOBOND®) in a free grid
- Secure 3-D detailed planning of substructures and connections in sectional view

Faultless, distinct production documents - the key to efficient production and assembly in the project business.

HiCAD 3-D BIM has been optimised for this purpose in more than 25 years of close cooperation with our customers and offers the latest technologies for the automation of production planning.

Steel Engineering, Metalworking
- Automatic production and mounting drawings, DSTV-NC, DXF
- Profile, sheet metal, bolting and bar lists

Sheet Metal, Mechanical Engineering
- Automatic developments with individual allowances
- Integrated cost calculation
- Sheet metal production drawings and DXF blanks for all sheets

Mullion and Transom Facade (Glass Facade)
- Profile, sheet metal and glass drawings
- NC-W profile transfer to CAM
- HiCAD BOMs and LogiKal® reports

Industrial / Panel Facade
- Automatically created installation plans
- Panel length optimisation
- Blanks, packaging and prefabricated parts lists

Sheet Metal Facade, Rear-ventilated Facade, Element Facade
- Automatic creation of blanks, drawings and sheet metal lists
- ALUCOBOND®-specific production data with transfer to NC machines
- Clear 3-D details / sections for a secure production and installation