SUCCESS STORIES

Brochier Rohrleitungsbau Nürnberg GmbH

Always in control with HiCAD

This medium-sized civil engineering company has been an expert in the field of pipework and plant construction for more than 140 years. Many success-fully realized projects literally line its path, such as the gas pressure gauging stations for Nördlingen and the Stadtwerke Schwabach GmbH, the gas transfer station for the Stadtwerke Schweinfurt GmbH, or the Osram pipe route for the Porr Industriebau GmbH. Besides plant engineering and related industrial equipment, the service range of the Nuremberg-based company also includes underground piping systems and excavation works with a special digger. 170 employees, a high level of certification – especially in the field of welding – as well as the membership in the "Nürnberger Baugruppe" form a solid basis for its great commercial success. Since 2013, one particular CAD system has been ensuring a smooth workflow during the daily work of Brochier's engineers: HiCAD made by the ISD Group in Dortmund. Both partners are aware of the following maxim: The more complex a plant, the more demanding will be the creation of the layout and piping plans.

BROCHIER
Rohrbau · Anlagenbau

REFERENCE REPORT

“HiCAD is an enormously powerful tool. It can do so many things that it never offers just one single solution: It is this versatility that I find so fascinating about this system.”

Andreas Rösch, Project Manager Plant Engineering, Brochier Rohrleitungsbau Nürnberg GmbH

Always up-to-date with HiCAD

“Before I joined the team of the Brochier GmbH, the company was still designing in 2-D with the software AutoCAD. The task to introduce a 3-D planning and evaluation software and make it a standard at the company marked the beginning of the extremely fruitful cooperation with the ISD Group in Dortmund in 2012”, remembers Andreas Rösch, Project Leader Plant Engineering. “Each year we install the new Major Release and get the latest updates, too. We are currently using the Plant Engineering suites plus and premium, in conjunction with Administrator rights for the Mask Editor and Server licenses for the HELiOS database”, says Andreas Rösch.

Interlinked in HiCAD: Layout plans, P+ID, pipe spool drawings

“We use HiCAD for the modelling of pipelines and components for gas pressure gauging stations”, explains Rösch. “From these we will then derive drawings for welded parts, order lists, and BOMs for the documentation. Production documents will be generated on the basis of derived piping plans for welded parts.” The numerous past projects of the tradition-steeped companies reveal its high demands on CAD software: “Especially in the field of measurement and control technology, P+ID drawings as offered by HiCAD have nowadays become indispensable”, explains Andreas Rösch. “For instance, for our gas pressure gauging stations we require standardized symbols indication what is to be measured or regulated and where, before assigning and ID for further processing, or visualizing control circuits with action lines.” The workload of the company shows that the 2-D flowcharts provide an essential basis for an efficient installation and pipeline planning: “We generate up to 30 pipeline isometries per model drawing, which contain, besides the necessary dimensionings, documentation tasks and BOMs.”

HiCAD’s versatility: Combined, multi-industry 2-D/3-D CAD

During daily design tasks, HiCAD scores with its high degree of automation, the fast and easy pipe diagram and BOM creation and, above all, a combined 2-D/3-D approach: “Pipe spool drawings are visualized in 2-D”, explains Andreas Rösch. “Changes will be transferred to the 3-D model in real time. This real time associativity between all plans, views and BOMs makes HiCAD stand out against other CAD systems whenever quick modi-

Image: © Brochier Completely mounted gas pressure gauging station in an aluminium cabinet, ready for delivery

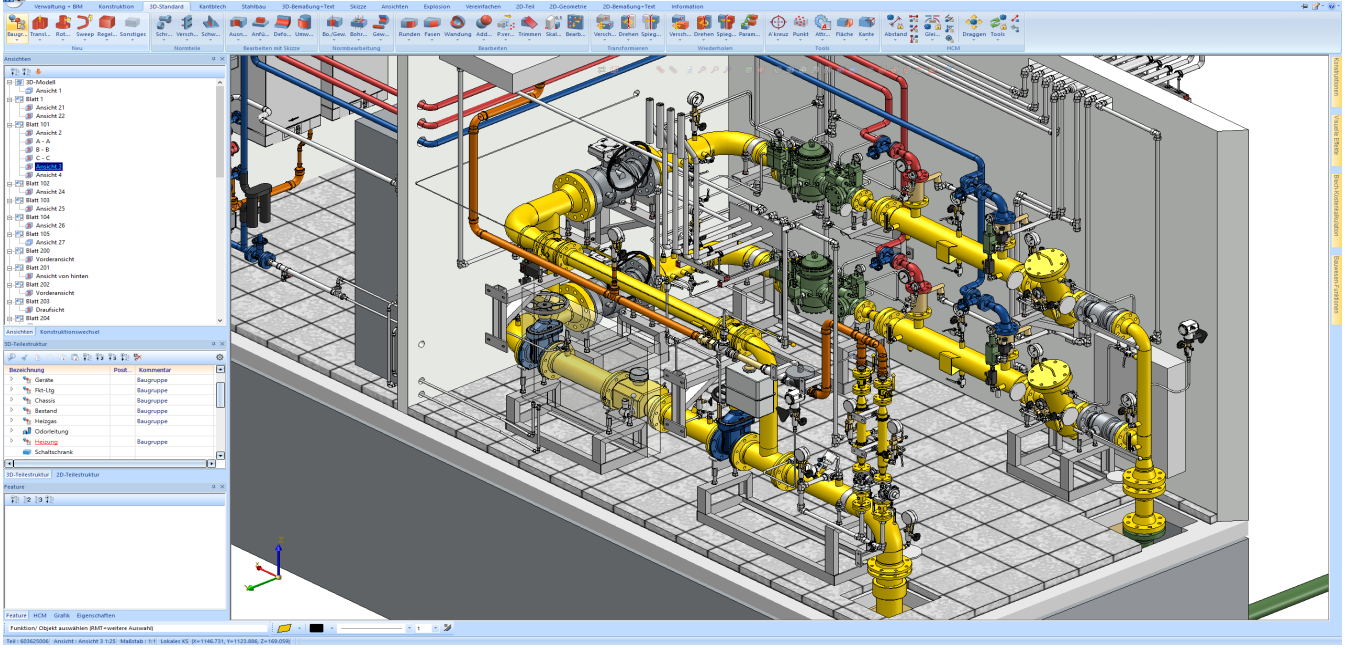


Image: © Brochier Completed planning of a gas pressure gauging station in a solid construction

fications or detailing is required." In addition, HiCAD shows its strength particularly in multi-industry projects. "Buildings or chambers for our gas pressure gauging stations are purchased components", explains Rösch. "But by providing suppliers using HiCAD with a rough draft of them, we can facilitate the creation of drawings for approval significantly."

Working productively from the first draft to the finished model

According to Andreas Rösch, a project to construct a gas pressure gauging station at the company Brochier is realized as follows with the help of HiCAD: "After receiving the order for the construction of the station complete with all required technical data, the hydraulic design will be created and the necessary components and devices will be selected. After this, the routing of the pipeline will be planned and the building size will be calculated. The next step is the deriving of drawings for approval and production, and, finally, the actual production process. The process chain ends with the safeguarding of all project-related data and their storage in HiCAD, including their creation process and the associated production documents. HiCAD functionalities such as part libraries and modern variant technologies greatly support our engineering team during their work. And the use of pipe classes defined in the PDM system guarantees planning safety during project realisation."

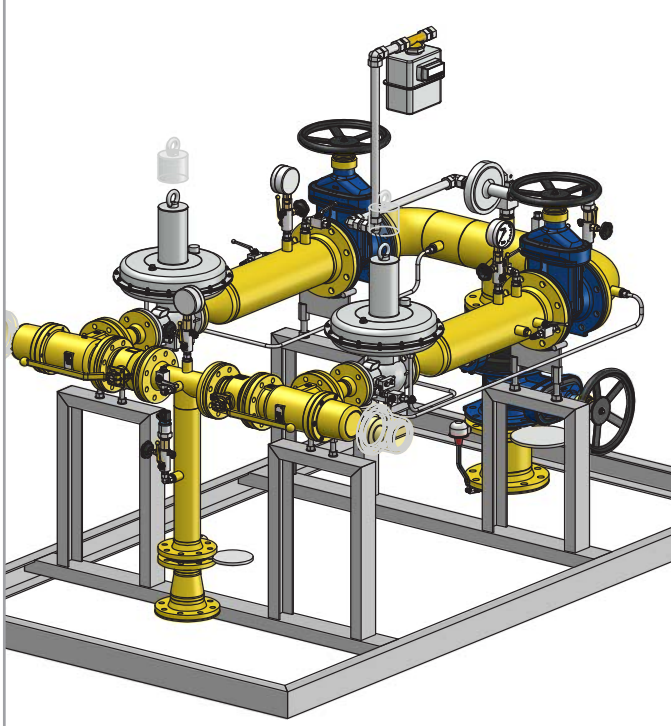
Successful cooperation with the ISD

"We recognized HiCAD's potential to minimize errors, since it operates with only one model drawing, from which detail plans are generated, and on the basis of which any changes can be synchronized in any direction", explains Andreas Rösch. "It is our aim to define the project price directly on the basis of the model drawing, realize the drawing with a minimum of changes, and create order lists and the complete documentation in HiCAD and HELiOS in the process." When asked whether all goals could be accomplished, Rösch replies: "Our staff has learned to work with HiCAD very quickly. The system has been enhanced further step by step ever since to match our needs better and better. For instance, we are currently planning a more extensive use of the HiCAD-Office interface. About the topic of custo-

"HiCAD functionalities such as part libraries and modern variant technologies greatly support our engineering team during their work. And the use of pipe classes defined in the PDM system guarantees planning safety during project realisation."

Andreas Rösch, Project Manager Plant Engineering, Brochier Rohrleitungsbau Nürnberg GmbH

mer service, too, Rösch has only positive things to say: Not only does he praise the efficiency of the ISD training courses, which are tailored to match the individual needs of the respective users, but also the excellent response behaviour of the densely networked company: “For instance, when I explained that I would like to have some more features for pipe spool drawings added, the ISD reacted on the spot. Mr Grosch in Nuremberg is literally available around the clock.”



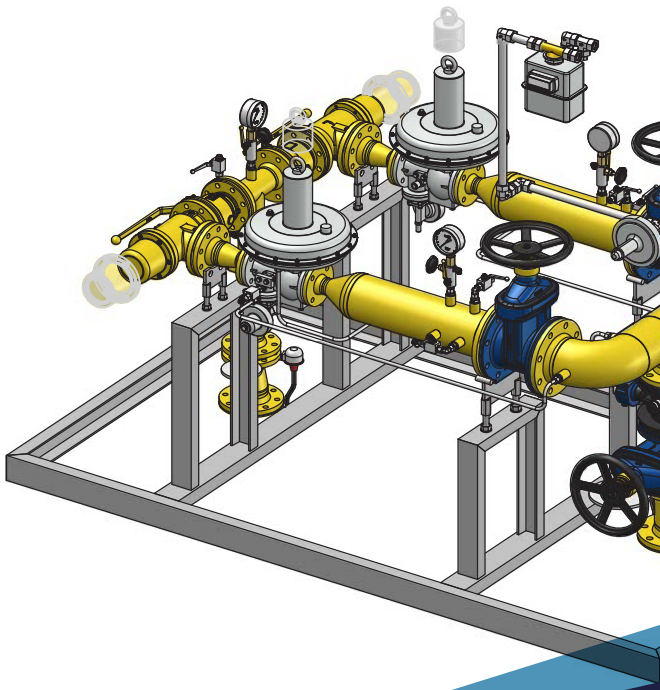


Image: © Brochier

Company profile:

- Brochier Rohrleitungsbau Nürnberg GmbH
- Industry: Plant engineering, pipeline planning
- Software: HiCAD, HELiOS
- Services: Plant construction, underground piping systems, industrial utility supply, suction excavators
- www.brochier.de

Success needs a strong partner

Check out our portfolio of software solutions. We will be delighted to demonstrate the advantages offered by our products in a personalized presentation or a free one-to-one consultation. Don’t hesitate to contact us – we’ll be pleased to help you.

ISD Software und Systeme GmbH
Tel.: +49-(0)231-9793-0
Mail: info@isdgroup.de
Web: www.isdgroup.com

Version 25-122-019