



GASKLAR GmbH & Co. KG

Optimizing lead times with HiCAD

Natural gas is transported under high pressure in supraregional distribution networks. This must be reduced in gas pressure control and metering systems so that the end consumer can benefit from the natural energy resource. Peter Jarchow, managing director of the GASKLAR GmbH & Co. KG, founded in 2017, is dedicated to the construction of such plants. In addition, he and his more than 40 employees ensure that all services related to „network infrastructure“ are provided throughout Germany - „from the North Sea and Baltic Sea to Lake Constance“: „Starting with tank construction and the manufacture of welded parts for plants, through to electrical engineering modernization or work on the natural gas preheating system.“



REFERENCE REPORT

“Of course, we have all the approvals to operate in public gas networks,” says Peter Jarchow. „One mistake - for example, in the wrong dimensioning of the pipelines or material-relevant defects with regard to corrosion resistance - can have catastrophic consequences.“

In addition to the selection of the appropriate material, what counts most for the business graduate is sound experience in welding: „After producing X-ray-tested weld seams, the strength of the pipe systems we weld is checked with pressurized water and their tightness with nitrogen.“

Reacting to customer wishes at short notice

The young company from Wiesmoor is also not taking any risks when it comes to choosing the right design software, „because you should be as well prepared as possible for the phase-rich process chain in plant engineering,“ says Jorick Massier, design engineer at GASKLAR GmbH & Co. KG.

He has been working with HiCAD's Plant Engineering suite premium since 2017. „Years ago, a colleague worked for a company that used HiCAD for pipeline construction,“ says the young CAD designer, who had previously used some other CAD programs. „The fact that the ISD is a German company and that it offers us professional training along with exemplary support within a short distance favored our choice - and, of course, HiCAD's multi-industry capability, because a pipeline system

without a steel construction practically doesn't exist.“ To quickly and easily create piping and plant layouts, Jorick Massier enjoys full access to standardized fittings, which are located with all relevant information in one of HiCAD's extensive libraries. The full 2-D/3-D associativity of the software benefits him in creating, processing and updating the P+ID flowcharts before he starts the detailed planning after approval by the customer.

“Rapid short-term creation of design drafts based on minimal technical or spatial data has a positive effect on response and lead times: for smaller plants or conversions sometimes only a few hours or a few days.”

*Jorick Massier, CAD designer
GASKLAR GmbH & Co. KG*

Images: ©EWE AG; Mobile gas pressure control and measurement system



Individual customer requirements

„Partially automated derivation and referencing of piping plans increases productivity for us,“ says Jorick Massier. „The generation and export of developments of the folded sheets is proving to be just as efficient for our workflow.“ Automation in design, on the other hand, plays a rather subordinate role at GASKLAR GmbH & Co. KG: „We are not a series manufacturer, but only work with batch size 1 at the explicit request of the customer.“ To justify this, the design engineer points to sometimes very different customer requirements for CAD, drawing and documentation. „A design at the push of a button is mainly important for us when parameterizing the piping support or the folded profiles used for this, which may change in length.“

„HiCAD helps us to quickly and easily define pipeline routes and plant structures and fill them with standardized fittings from its extensive libraries.“

*Jorick Massier, CAD designer
GASKLAR GmbH & Co. KG*

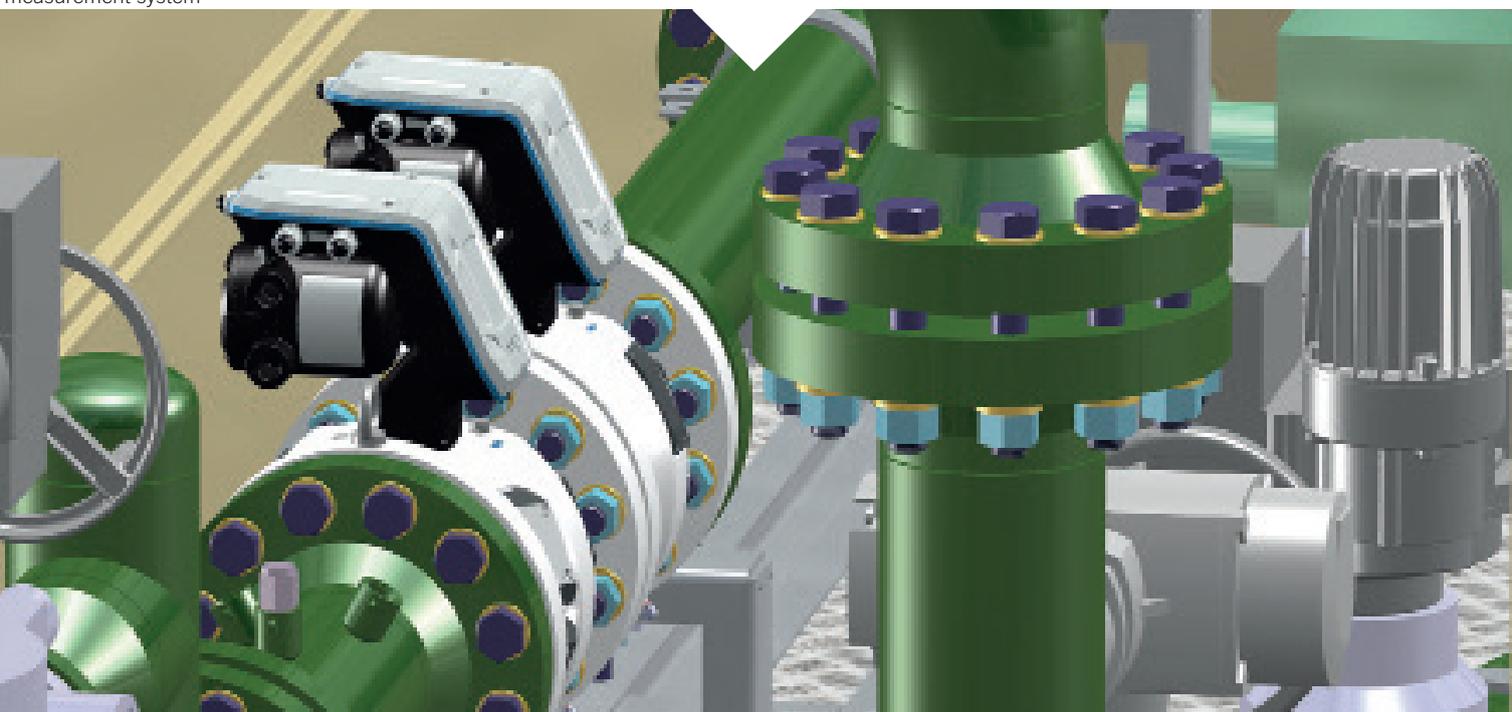
The designer benefits all the more from functionalities that make it easy to change and adapt pipeline routes and guidelines, as well as from options that allow points and surfaces to be picked in the drawing in just a few seconds.

„Such work steps for targeted modification and detailing are indispensable in plant engineering and in the field of 3-D design in general. Rapid short-term creation of design drafts based on minimal technical or spatial specifications has a positive effect on response and lead times: for smaller plants or conversions sometimes only a few hours or a few days.“

Interdepartmental long-term teamwork with HELIOS

A PDM system creates additional security at GASKLAR GmbH und Co. KG, where its design structure helps to ensure accurately documented processes: „The wall thickness of a pipe must be mapped and stored correctly,“ says Jorick Massier. „Especially with media such as natural gas, accidental access to a smaller dimension - for example, by a new employee - can have devastating consequences.“ Admittedly, several people are not currently working simultaneously on one and the same design at the plant, which is certified in accordance with DVGW G 493-1, among other standards. But the coming years will show what advantages HELIOS offers for joint and distributed work, e.g. for trainees.

Image: ©EWE AG; HiCAD model of a mobile gas pressure control and measurement system

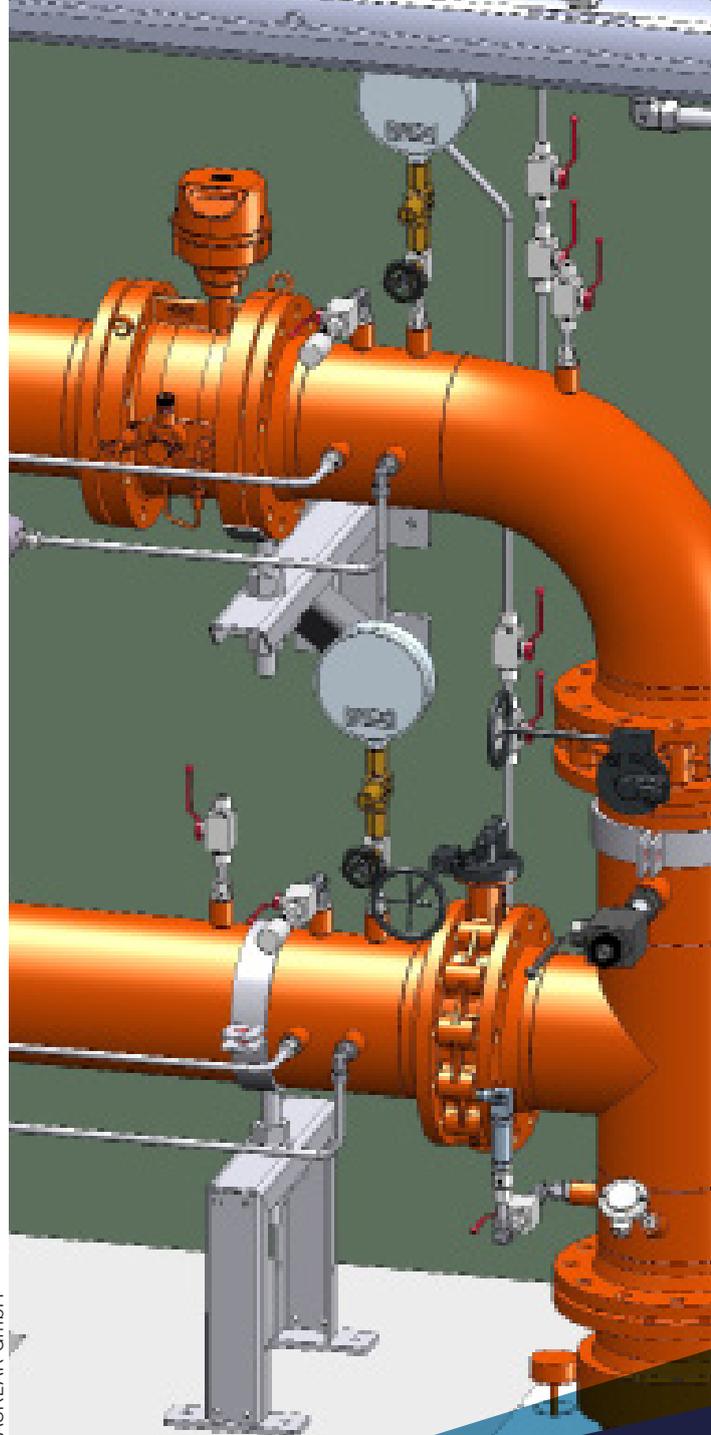


The CAD designer is already impressed by the clear organization of projects and management of catalogs via easy-to-understand basic functions and, in particular, „the fast retrieval of relevant information - regardless of the Windows-based data structure“.

Brief company profile:

- > GASKLAR GmbH & Co. KG
- > Industry: Plant and piping construction
- > Software: HiCAD, HELiOS
- > Services: Gas pressure regulating and metering stations, tank construction, welded parts, and much more
- > www.gas-klar.com

Image: © GASKLAR GmbH



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