

Piping

Our service ...

We offer competent services across the entire spectrum of piping engineering and devote our substantial resources to solving problems in piping projects relating to liquids, gases and granulates.

Our services include the following:

- consultancy services;
- studies;
- cost estimates;
- engineering;
- verification of compliance with statutory requirements;
- specification of all piping components;
- piping calculations;
- procurement;
- materials management;
- supervision of installation work;
- documentation.

We ensure that all applicable engineering requirements for piping are met in plant construction. This applies for both new plants and for the modernization and expansion of existing plants.

We naturally also offer specific solutions to individual problems in the design and optimization of piping systems.



... is your gain.

We have over 20 years of experience in the design of piping systems for all sizes of chemical and pharmaceutical production facilities. To date, we have been responsible for piping systems at more than 100 plants at a cost of over € 2 billion.

Our highly qualified and experienced personnel are your guarantee of expert service that is tailored to meet your requirements – from the design stage through to commissioning of the plant.

You will benefit in particular from the standardization of design and development procedures. This introduces transparency while also minimizing costs and the time required to complete a project.

Moreover, the use of standard tools means a process that is fully documented from start to finish.

We produce all of the documents that are required for the construction and the validation of the piping design. We discuss the results of this work with you prior to implementation using digital models. This ensures that your project is performed in accordance with your wishes and requirements.

Our approach

Our structured approach to the projects we undertake is the basis for the quality of the results.

We are certified according to ISO 9001.

We always work systematically and take the greatest possible care in our work – whether for new plants or the expansion of existing ones, for piping systems or for solving your specific problems.



Our scope of services ranges from:

- simple mathematical assessments to the solution of individual problems using Finite Element Analysis (FEA) software;
- individual pipes on pipebridges to the design of complex piping systems;
- piping system studies in the course of plant construction to detailed design using intelligent 3D models.

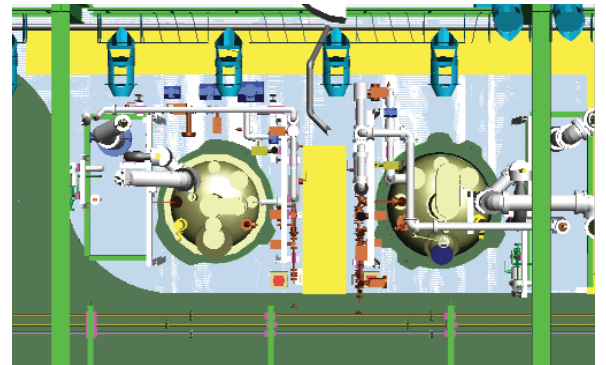
A special facet of our services is our close relationship with our customers. We value the fact that we develop a relationship that is based on trust and confidentiality and we are always available for consultation in the event of problems.

Our close cooperation with standards committees (both the DIN in Germany and the ISO) and the considerable practical experience of our employees contribute to the future-proofing of your project and ensure that it is completed to your standards.

We use standard CAE software, e.g.:

- MicroStation,
- I-Sketch (isometric sketching),
- Intergraph PDS Piping,
- Sucas+ 3D,
- Marian,
- Rohr2,
- ECNetz.

Of course, we can also provide the results of our work in a format readable by any other CAE system you should require.



References

Current references include:

- a multipurpose plant for Bayer Crop Science;
- a BPA/SPC plant for Bayer Polymers in China;
- a DNT/TDA plant for Bayer Polymers;
- a Therban® plant for Bayer Polymers;
- a nitration plant for Bayer Chemicals;
- a pharmaceutical development pilot plant for Bayer HealthCare.

Our customers outside the Bayer Group include:

- BP Cologne;
- partner companies in the Bayer Chemical Parks.



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