

WE BUILD TOGETHER.

HARD FACTS

Implementation timetables for subject-independent projects, services and technological innovations.

We accompany projects from the first proposal to requirements planning, site selection, feasibility studies to the concrete formulation of the planning task and the subsequent processing of all technically relevant steps.

As a state-certified engineering office for mechanical engineering, we clarify the project-oriented task, in particular in technical, functional and economic fundamental questions, and develop a solution concept with a standard-compliant design and subsequent, clear documentation.

**Engineering Made To Measure.
Driven By Innovation.**

We deal with advice, the preparation of goal-driven plans, calculations, expert opinions and studies, the implementation of investigations and measurements, also with the monitoring and acceptance of projects, the examination of the project-specific execution and the project-related invoices. In addition, we represent our clients by means of expert opinions before authorities and the inspection and monitoring of systems and facilities.

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Engineering & Product Development
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Purpose of the company
Engineering and product development as well as management of an engineering office for mechanical engineering.

GISA 34333099 Ingenieurbüros (Beratende Ingenieure) auf dem Fachgebiet Maschinenbau
GISA 34288962 Metalltechnik für Metall- und Maschinenbau verbunden mit Metalltechnik für Schmiede und Fahrzeugbau
GISA 34288863 Handelsgewerbe mit Ausnahme der reglementierten Handelsgewerbe



ENGINEERING

Solution concept for all specialist requirements as well as monitoring the integrated specialist service as the basis for production planning. Our structured way of working combines targeted results at moderate hourly rates. Computer-aided design engineering from prototyping to print-ready drafts delivers unrivaled technical documentation for successful testing and certification.

Reliable and competent. Integration planning and feasibility studies are adapted to the needs of our customers for successful, technical final documentation.

01 Project Management

According to DIN 69901, the project management forms the organizational unit which is responsible for the planning, control and monitoring of the project and includes the non-delegable part of the customer function with decision-making and enforcement authority in a line function. Necessary preliminary work and documents from the project management are used and completed in the project control for the implementation of the project goal by means of professional planning.

As consulting engineers, we represent customer interests and develop technically and economically the best solutions, independent of the industry and project-oriented.

We work independently, neutrally and on a fiduciary basis in the interests of our clients.

02 Sizing & Design

We do not determine component requirements as exactly as possible, but as precisely as necessary. From simple frameworks to complex FEM analyses, we have the necessary know-how for reliable design as well as standard-compliant calculation and dimensioning.

In order to be able to design each required component as intended, we use a wide variety of simulation programs and select loads and boundary conditions based on practice. Due to the available computing power, networks can be selected fine enough to reflect exact component behavior. Apart from calculations using finite element methods, bulk solids are also carried out to a moderate extent using discrete element simulation.

The principle of simplicity in engineering sciences is a maxim that every engineer and scientist not only knows, but is asked to take into account in their technology-related actions.

03 Prototyping & Testing

As early as the development phase, it is of great importance to test certain properties and behavior in order to prove and validate concepts. The best way to do this is to use a prototype that has been produced using an inexpensive and rapid manufacturing process. By using a wide variety of simulation programs, it is our advantage to generate a large number of results and thus to select the appropriate variant for the progress of the project.

04 CAD Engineering

We support and complement our client's team across sectors and project-based with specialist know-how.

Also in combination with project management, we produce drawings of components and assemblies as well as for the necessary assembly instructions.

Our drawing office implements the planning and visualization of systems in an uncomplicated manner and according to customer ideas. We present patent-ready constructions, drawing derivations and complex component compositions in accordance with standards and in addition to assembly-friendly exploded views in a clear manner.



DEVELOPMENT

Support for cross-departmental, technical solutions for product developments in a wide variety of industries. Solution strategies from brainstorming, implementation and service-oriented optimization. We provide support in the phase of product and idea development and accompany legal and bureaucratic steps with a view to market launch.

The sole, solution-oriented task of product development is to maintain and expand a company's competitiveness over the long term through innovative products and performance features. So not only the technological implementation is part of the task of product development, but also the accompaniment of the entire product development process.

01 Product Development

The introduction of new products and the opening of new markets begins with the documentation of the idea under the legal framework and represents the start of implementation. The successful development after prototype phases delivers the first productions in larger quantities on the basis of the design documents, which are created by risk analyzes. After the first customer reviews and test phases, the process of further development for series-ready final production begins.

02 Additive Manufacturing

Together with our partners, we offer a variety of technologies in 3D printing. This includes SLA stereolithography, SLM laser melting, SLS selective laser sintering and numerous conventional manufacturing processes. This enables the efficient and economical production of functionally optimized components made of metal and various plastics.

Our performance promise of additive manufacturing includes reducing the time-to-market component thanks to uncomplicated order processing and transparent production processes, increasing productivity through

function-optimized components and our 3D on-demand print service, which improves the availability of spare parts.

We deliver inexpensive design and production of prototypes for small series to series components.

03 Marketing & Sales

Successful companies and manufacturers pay attention to a perfect interplay between marketing and sales in order to optimally design the sensitive interfaces to the customer and to build up and maintain a lasting relationship with them. Modern marketing and sales strategies integrate analog and digital channels to the customer and tailor them to their needs. It is the manufacturer's task to sharpen sales, management and social skills as well as strategic thinking.

We bring the idea online. Our range of services includes logo design, branding, infographics, reports and reports, presentations, banners, flyers and web design.

04 CE & Compliance

Even before design approval, we carry out standard research in order to ensure compliance with regulations and guidelines during subsequent design. As part of the CE marking, we carry out conformity assessments according to directives such as the Machinery Safety Ordinance 2010 (MSV2010), Machinery Directive 2006/42/EG, Outdoor Directive 2000/14/EG, Low Voltage Directive 2014/35/EU. Risk assessments according to EN ISO 12100, technical documentation and instructions for use according to EN 82079-1 and EN ISO 20607 as well as labeling concepts according to EN ISO 7010.

In addition to adhering to technical guidelines for correct design, we then do the paperwork in relation to instructions for use and operating instructions, assembly and assembly instructions, maintenance plans and service manuals.







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