Steel and plant construction
High technology in steel
SIAG headquarters in Dernbach
Steel is the core competence of SIAG group’s business units. In addition to its headquarters in Dernbach, SIAG has another nine subsidiaries worldwide and more than 1,100 employees.

SIAG’s vast experience, innovative concepts, and high-quality products have made it a leading supplier of steel construction in the power supply industry.

The company’s business units include:
- Wind energy technology
- Steel construction
- Mechanical engineering

SIAG combines the benefits of being a medium-sized industrial company and the effectiveness of market leadership. Our flat hierarchies enable us to respond quickly to new market requirements. Advanced production methods help us execute creative and economically efficient applications that take advantage of the versatility of steel.

Each year, our group uses more than 100,000 tons of steel to build complex designs for industry and for bridge, plant, container, and tower construction, including related components.

Our various divisions have what it takes to develop and grow further, to secure and create jobs and apprenticeship positions. In addition to our expertise in steel components, our customers benefit from the know-how we have developed throughout our group.

As a result of our substantial experience in working with steel, we have provided in-depth, proficient advice to our customers for many years, ensuring smooth project handling right through to final assembly. Our customer-focused services together with our continuously enhancing quality assurance system give us a competitive edge, now and into the future.

We see our customers as partners; we fulfil our promises and we are happy to demonstrate our proficiency.

As a one-stop shop for steel and plant construction as well as a supplier to the wind energy technology industry, we are always committed to high performance and to successfully meeting our own and our clients’ challenges!
Steel is probably the most innovative material for building construction, and is becoming even more so. Its usage keeps on growing, not only in architectural steel construction.

The properties of steel enable customized products to be developed to suit the individual application. From sophisticated designs for architectural steel and façade construction to robust yet slim components for industrial buildings or traffic infrastructure, it’s all about a highly specific material which offers excellent processability, 100% recyclability and what is more is non-combustible!

Building owners, architects and planners of large technical plants who seek value for money, high functionality and attractive design will find an experienced partner in SIAG. We are committed to realizing architectural steel construction and special steel construction projects effectively and at competitive prices.

We aim to get involved in a project at the earliest possible stage. Indeed we offer planning, design and construction services as well as project realisation. At SIAG we have the technical expertise it takes to come up with alternatives which may be needed to comply with customers’ requirements and keep within their budget.
High-tech steel construction
ARVA NP project in Olkiluoto, Finland
When it comes to steel construction, we immediately think of our Ruhland facility, a company that has been dealing with high quality steel products since 1921. The expertise we have gained during 80 years of steel construction, combined with latest engineering know-how, an excellent technical infrastructure and partners in science and education all ensure we come up with cutting-edge designs. Our long standing and substantial experience, together with the direct relationships and cooperation we have forged with education institutions, universities, technical colleges and inspection authorities all con-tribute to Ruhland being transformed step by step into SIAG’s engineering centre.

This development forms the basis for executing almost all types of steel construction projects for industrial and contemporary corporate buildings, in particular in the power generation and chemical industries, in multi-storey/industrial building construction, in the warehousing and distribution sectors, in traffic engineering, materials handling technology, and metallurgy.

SIAG’s focus on technological steel construction is underpinned by the fact that our Ruhland steel construction operation holds all the approvals required, even for highly sensitive projects in safety-relevant nuclear power plants.

„E“ classification to DIN 18800-7, ISO 9001 certification as well as the SCC audit are just a few examples that SIAG is committed to the highest level steel construction, and that challenging tasks are resolved safely and efficiently.
Flue gas treatment plant
EBARA power plant, Frankfurt-Hoechst
Complex plants made from steel

Our steel and plant construction production lines are located in Germany and the Czech Republic. All plants feature sufficient space for large production projects. In Ruhland, the centre of steel construction, we have five production buildings with a surface area of 9,400 m², a building for corrosions protection with four spraying areas and a mobile dryer with a surface area of 2,210 m² as well as three free crane runways with a crane moving surface of 7,950 m². These provide the best conditions for smooth handling of large orders. From the planning of modern CAD stations through production to assembly, building projects are carried out efficiently, rapidly, in high quality and in close cooperation with the customer.

Modern machinery with automatic NC sawing and drilling machines, NC saws, autogenous plasma flame cutting equipment, NC drilling machines, SAW equipment for longitudinal and joint welding, steel shot-blasting chambers and highly trained and committed expert staff guarantee success. Four roll circular bending machines are used to process sheet thicknesses up to 70 mm, a width of 3,000 mm and to produce tube diameters up to 6,000 mm. Our corrosion protection area with upstream post-blasting equipment allows the application of high-quality coats of paint.

The use of optimum and high quality façade and roof elements, doors and windows enables us to comply with our customers’ requests and to combine expediency with design considerations.
When you need advanced large plants, silos or silo plants, general container construction, large diameter pipes, stacks or components for power plant construction, our silo and apparatus construction unit will provide the right solution. Qualified and committed employees work using advanced production technologies to make products which are certified as being of a high standard.

Over 50 years’ experience in plant construction, the continuous training we provide to our engineers and technicians as well as our outstanding product quality all make us a reliable, proficient partner for your project.

The level of satisfied, successful SIAG customers around the world demonstrates this.

We offer a broad range in terms of production, supplies and services, including design, structural analysis and construction, production, conservation and installation.

We design and build products according to your specifications. If you wish, our engineers can look after your project right up until final assembly.

**Examples and reference projects for our plant construction business:**
- Single and multi chamber silos
- Steel stacks for power engineering (power plant industry, waste incineration plants, etc.)
- Large diameter pipes in series production or with tailored diameter, wall thickness and materials
- Production of steel structures including warehouses, containers, substructures and bunkers
For us at SIAG, building trust-based cooperation and providing excellent customer service through cutting-edge technology and high quality standards are key. The know-how of our engineers and technicians is valued by plant manufacturers in Germany and around the world. Our certified quality management systems, which meet all production and customer-related industry standards, complete our range of expertise.

We offer customized advice and provide expert project implementation to meet individual requirements, thereby ensuring that our customers get the best value in terms of design. Thanks to our technical, personnel and space capacities, we are able to offer series production and designs of any size.

The SIAG group stands for consistently excellent quality throughout the whole production process.

Mature, first-class manufacturing quality is the basis for smooth erection, for optimum usage properties and the long service life of our products. Together with expert engineers, our quality managers supervise consistent application of quality management in all of our plants, based on our ISO 9001:2000 certification, which is audited at regular intervals.

From reception inspection and testing through erection, all steps are constantly checked and documented with respect to quality. This way, any sources of defects are immediately identified and remedied in accordance with the guidelines provided for within the framework of quality management. This helps to avoid costly interruptions at the site or service work required due to lack of quality.

The customer receives a high-quality and fully functional product in accordance with specifications, including the necessary documentation.

Based around Quality

Bernburg power plant during erection
Development and expansion

The SIAG group’s aim is to function worldwide, taking advantage of globalisation to benefit our customers.

The SIAG group has identified potential for growth above all in North America, North Africa, Latin America and in Southeast Asia.

Apart from wind energy growth rates, high technology power plant construction for nuclear and fossil fuels is gaining increasing importance. Particularly in regions with little wind, the demand for conventional energy is constantly expanding. In these areas, we are present where customers need us and we constantly supply optimum quality.

Southeast Asia, Central America and the Persian Gulf region are the principal markets for high technology steel constructions in the future.

In recent years, SIAG has proved to be a reliable partner in the field of steel construction for nuclear power plants. Based on our certifications, we are able to manage building projects with unique safety considerations anywhere in the world.

By strategically positioning ourselves close to our customers, we ensure high competence on site and rapid reaction to specific requirements.