

**THYSSEN
SCHACHTBAU**

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EXPERIENCE.
YOUR PARTNER.

150
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GLÜCKAUF!

THE THYSSEN SCHACHTBAU CORPORATION

 THYSSEN SCHACHTBAU GMBH

 000 Thyssen Mining Construction East

 TOO SCHACHTBAU Kasachstan

 TS BAU GMBH

 DIG DEUTSCHE INNENBAU GMBH

 TS Technologie + Service GmbH

 OLKO-Maschinenteknik GmbH

 EMSCHER AUFBEREITUNG GMBH

 Thyssen Schachtbau Immobilien GmbH

Every success story begins with an outstanding idea, paired with determination and courage as well as a sense and foresight for future developments. August Thyssen had these qualities and in 1871 he laid the foundation stone for today's industrial corporation in Mülheim an der Ruhr.

In 2021, Thyssen & Co. celebrated its 150th anniversary and developed into one of the world's leading mining service companies. The group now consists of 24 companies and many branches at home and abroad.

Few industrial groups can look back on such a long and successful history as our group, which is still family-owned to this day.

THYSSEN SCHACHTBAU GMBH SHAFT SINKING AND DRILLING DIVISION OVER 150 YEARS EXPERIENCE

The Shaft Sinking and Drilling Division is an essential part of our globally established corporation and is one of the leading providers and experts in shaft sinking and mining work of all kinds. The activities are mainly concentrated on the development of underground raw material deposits.

SHAFTS

- ✓ Shaft sinking
- ✓ Freeze shafts
- ✓ Shaft rehabilitation
- ✓ Shaft deposit
- ✓ Dam construction
- ✓ Underground plant construction

DRILLING

- ✓ Exploratory drillings above and underground
- ✓ Freeze drillings
- ✓ Directional drillings
- ✓ Technical drillings
- ✓ Large hole drillings
- ✓ Raise drillings

SHAFT DRILLING

- ✓ Shaft drillings
- ✓ Driving of shaft-landings
- ✓ Storage bunker construction
- ✓ Raising of rooms close to the shaft

ENGINEERING SERVICES AND CONSULTING

- ✓ Engineering services and consulting in the field of geotechnics and freezing technology
- ✓ Expansion dimensioning of shafts and drifts
- ✓ Geomechanical and thermal modelling (2D/3D)

SPECIAL DRILLINGS

- ✓ Coal Mining
- ✓ Potash and mineral salt mining
- ✓ Ore mining and other mining activities



THYSSEN SCHACHTBAU GMBH MINING DIVISION DEEP IN THE WEST

The Mining Division acts as a general contractor for RAG Aktiengesellschaft. Within the framework of the mine water concept for the Ruhr area, a wide range of work is being carried out to convert the collieries into well water reservoirs.

- ☑ Driftings
- ☑ Drift refurbishments
- ☑ Support work on old mines
- ☑ Shaft refurbishments
- ☑ Shaft custody
- ☑ Dam construction
- ☑ Plant engineering and construction



000 THYSSEN MINING CONSTRUCTION EAST **FUTUR FOCUS IN EURASIA**

- ✔ THYSSEN SCHACHTBAU founded Thyssen Mining Construction East (TMCE), based in Moscow, in 2008.
- ✔ Initially, the TMCE was essentially responsible for the import and export of machinery and equipment. Today, the company independently carries out a large number of mining operations.
- ✔ The company has the required licences and authorities to carry out shaft sinking, construction, drilling, freezing and engineering services.
- ✔ TMCE is also responsible for the entire machine park used in the Eastern European region.
- ✔ In the coming years, all business activities in Eastern Europe will mainly be carried out directly by TMCE.

TOO SCHACHTBAU KASACHSTAN GROWING IMPORTANCE FOR ONE OF THE MOST RESOURCE-RICH COUNTRIES OF THE WORLD

- ✔ SCHACHTBAU Kasachstan is a joint subsidiary with SCHACHTBAU NORDHAUSEN (50 % each).
- ✔ The purpose of the Kazakh company is to provide mining speciality services of all kinds locally. The focus of the planned services is on the sinking, development and reconstruction of shafts.
- ✔ In addition, other projects such as driftings and cross-cuts should be highlighted as core tasks.
- ✔ Since 2011, SCHACHTBAU Kasachstan has already excavated more than 10 km of roadway at the mine in Chromtau for the world's largest ferrochrome producer, Donskoy GOK.
- ✔ Perspective: Kazakhstan is one of the most resource-rich countries in the world. Due to the expertise already gained in the region, the strategic importance for our Group grows from year to year.



TS BAU GMBH

CONSTRUCTION – PERFORMANCE FOR PEOPLE. WE WILL BE THERE.

TS BAU has been in business since the beginning of the 1990s with its locations in Jena and Riesa and is active in all the important economic areas of the entire Federal Republic.

For our employees, proven expertise as well as inspection and certification of quality requirements are a matter of course.

TS BAU offers all contractors a versatile, experienced and reliable construction company with engineering expertise for the following construction service areas:

- ☑ Building and industrial construction
- ☑ Road construction and civil engineering
- ☑ Pipeline construction
- ☑ Landfill construction
- ☑ Rail construction
- ☑ Mining
- ☑ Turnkey construction
- ☑ Demolition and recycling



DIG DEUTSCHE INNENBAU GMBH

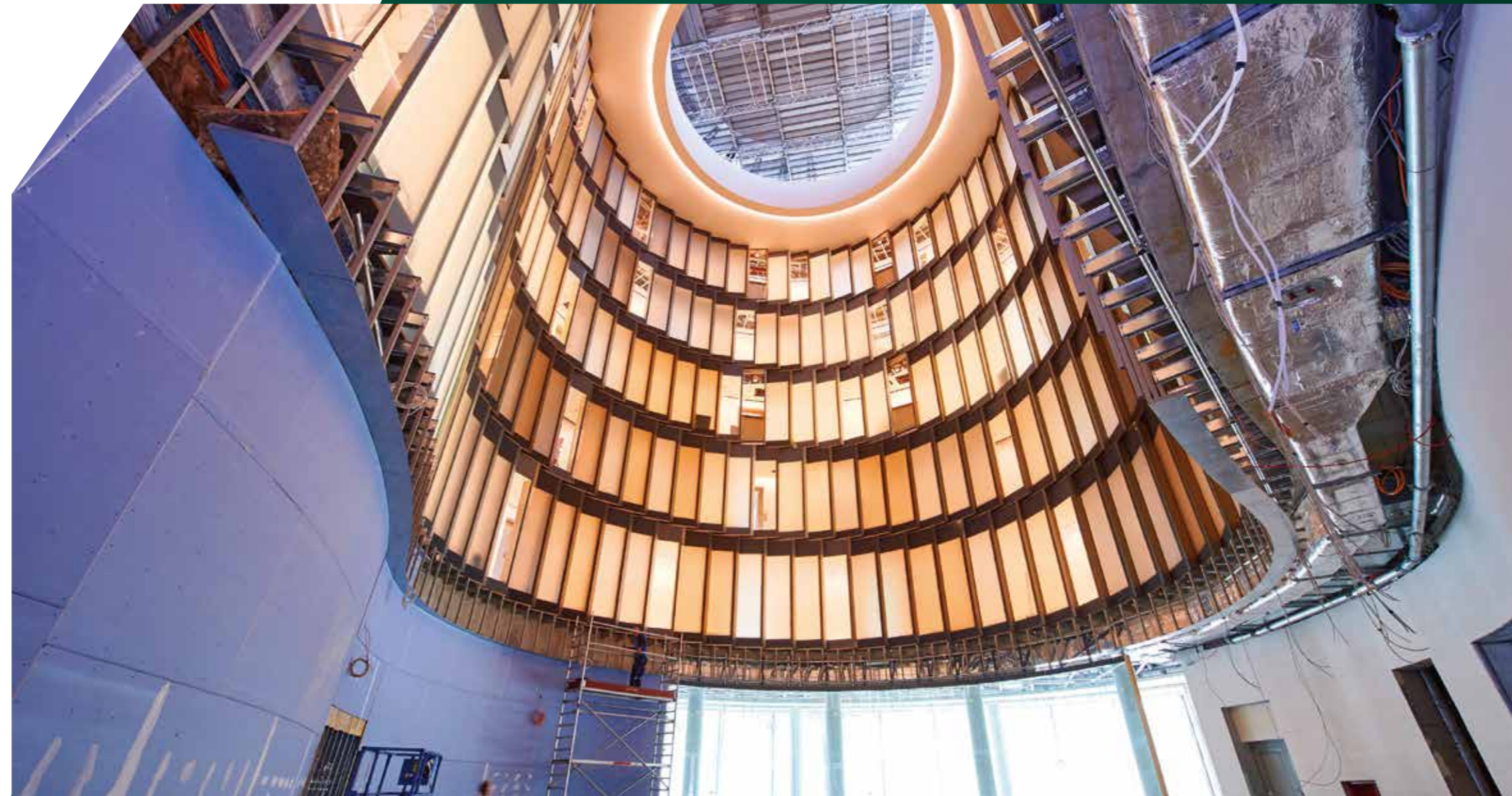
THE FIRST ADDRESS FOR HIGH-QUALITY INTERIOR FITTINGS

DIG is active countrywide as a specialist in all aspects of integrated interior construction. The focus is not only on sophisticated execution but also the efficient project management for the various trades.

Modern project implementation requires not only that the finishing trades for the planning and execution are coordinated with each other; they must also be able to be integrated seamlessly into the other key trades such as shell construction, façade and home automation.

DIG's range of services includes consulting, planning, organisation and execution for individual trades up to functional complete finishing. This includes solutions with standard systems as well as individual special components and complex customised products.

- ✔ **Complete extension - individual extension packages without technical finishing trades consisting of the following trades:**
Dry-walls and -ceilings, acoustic and special ceilings, plaster, screed, tiling, painting, upper floors, locksmith, mobile partition walls, metal, cooling and special ceilings, garage coating, waterproofing, natural and artificial stone, steel panel and tubular frame doors
- ✔ **Execution of single trade packages**
Dry-walls and -ceilings, acoustic and special ceilings, interior doors
- ✔ **Advice, support and execution of planning work**
in construction, execution and detailed planning





TS TECHNOLOGIE + SERVICE GMBH

NEW PRODUCTION AND MAINTENANCE

Following the spin-off from THYSSEN SCHACHTBAU in 2002, T+S has today established itself as an independent and modern service provider on the market. With our range of services, we support our customers, to focus on their value-adding processes.

We ensure our success through a consistent

- ✔ customer orientation
- ✔ staff qualification
- ✔ process and result quality

This success is reflected in long-standing relationships with our customers.



INDUSTRIAL SERVICES - TAILORED TO THE SUCCESS OF OUR CUSTOMERS

We supply components for new plants, maintain, test, repair plant components and support our customers with suggestions for improvement.



Pipelines and devices
Manufacture of pipe spools and pressure equipment according to Pressure Equipment Directive.



Repair and assembly
Service and installation services at our customers.



Cranes and gates
Delivery, production, assembly and service of crane and gate systems.



Testing and repair in accordance with DGUV
DGUV examinations of gates and cranes, repair of machines and plant components.

OLKO-MASCHINENTECHNIK GMBH

SPECIALIST FOR SHAFT HOISTING TECHNOLOGY AND ACCESSORIES



Since the company was founded in 1989, OLKO-Maschinentchnik has been one of the market leaders in the segment of shaft hoisting technology and associated systems and components. We supply pioneering system solutions with great manufacturing penetration and self-developed, often patented components for mining projects.

From initial planning to commissioning OLKO-Maschinentchnik stands by as a reliable partner in project planning and processing at the side of our customers.

Range of services and deliveries

- ✓ Shaft hoisting technology including associated steelwork
 - Shaft insets
 - Guidance installations
 - Skips, (special) conveyances, counterweights
 - (Emergency) cages, frames
 - Stages
 - Loading and unloading systems
 - Deflection sheaves
 - Rope changing equipment
 - Clamping and lifting devices
- ✓ Hoists
 - (Koepe) Multi-rope winders
 - (Double) Drum winders
 - Blair

- ✓ Winches
 - Hoisting winches, reeling winches
 - Men-riding installations
 - Auxiliary and emergency winches
 - Stage and cable winches
 - Gripper winches and gripper
 - (Semi)mobile winches
 - Rope handling winches
 - Friction winches
- ✓ Brake systems
- ✓ Crane systems
- ✓ Pontoon excavators
- ✓ Mine cooling systems
- ✓ Material transportation systems
- ✓ Programming, automation, visualization



EMSCHER AUFBEREITUNG GMBH WE GRIND COAL

EMSCHER AUFBEREITUNG has been active in the field of pulverised coal injection (PCI) for over 50 years. Due to the operation of six grinding-drying plants at the Duisburg site, our company has distinctive knowledge of the many different processes, especially in connection with the varying world coal and petroleum coke grades.

Particularly in pig iron production, pulverised coal has become increasingly important economically due to the global development of raw material prices, especially for coke, oil and gas.

EMSCHER AUFBEREITUNG ensures a permanent supply for the blast furnaces of thyssenkrupp Steel Europe AG with pulverised coal. With a grinding capacity of approx. 2.2 million tonnes per year at a single location, it is the largest plant in Europe.

The high daily production of up to 6,500 tonnes over 365 calendar days requires a sophisticated just-in-time solution throughout the supply chain. The tasks of production and maintenance are correspondingly demanding, to ensure plant availability at all times and to deliver the product with high quality.



THYSSEN SCHACHTBAU IMMOBILIEN GMBH


THE HARDWORKING HANDS BEHIND OUR CORE BUSINESS


- ✔ Thyssen Schachtbau Immobilien manages the Group's entire real estate inventory.
- ✔ The portfolio consists mainly of office buildings and workshops, but also includes land and industrial premises.
- ✔ For several years, TSI has invested in numerous modernisation and renewal measures in the areas of climate and environmental protection. For example, a photovoltaic system was installed on the roofs of the halls on Sandstraße in Mülheim which, at 320 kWp, is one of the largest in our region.
- ✔ All work is carried out by a well-coordinated team in a professional and unbureaucratic manner in cooperation with the appropriate service providers from a single source. Good business relations with industry and crafts are an indispensable prerequisite here.





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