Ed. Züblin AG
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Because success comes from working together.

For nearly 120 years, Ed. Züblin AG has been successfully realising challenging construction projects in Germany and abroad and, with an annual construction output of about €3.4 billion, is number one in building construction and civil engineering in Germany. Ed. Züblin AG, a member of globally operating STRABAG SE, owes its success to the creativity, hard work and dedication of its 14,000 employees. Working together as a large, perfectly coordinated team, they realise even complex construction projects on schedule and at the best price.

Our range of services includes all construction-related tasks – from complex turnkey construction to civil engineering, bridge building, tunnelling and ground engineering to public-private partnerships. In the realisation of its construction projects, ZÜBLIN places great importance on the digitalisation of construction processes and on partnership-based working relationships. The ZÜBLIN teamconcept, a partnering model with over 20 years of experience on the market, guarantees high standards of quality at an early stage, on time and within budget constraints.

We believe in the strength of the team. And that this makes the difference when it comes to making amazing things possible.
Milestones

- **1923** Introduction of the centrifugal process for concrete pipe production
- **1950** Development of a special method for using prestressed concrete for large bridges
- **1960s** Introduction of new technologies in ground engineering
- **1962** First-ever use of the free-cantilever method for constructing a large bridge (developed further as the incremental launching method)
- **1971** Invention of the “6M-System” (which later became the most widely used prefabricated construction method in Germany)
- **1977** Construction of the first ZÜBLIN slab track system – tracks on concrete beds
- **1980s** Construction of globally relevant river barrages
- **1995** Construction on the Engelberg Base Tunnel near Stuttgart – Germany’s largest car tunnel cross-section in difficult geological conditions
- **2003** Development of the Züblin-5D-Vision construction process software for the design and build process
- **2006** Development of thermal energy storages for solar power plants and compressed air energy storage plants
- **2008** Office high-rise OpernTurm Frankfurt, basic shell built in 4-day cycles per storey
- **2010** Energietübbing® pilot project for geothermal activation of machine-bored tunnels
- **2011 – 2012** Investment in timber engineering; acquisitions in chimney and refractory engineering, structural steel and structural maintenance
- **2013 – 2014** Completion of first standard BIM and 5D processes for building construction
- **from 2014** Intensification of Construction 4.0 activities (teamconcept, lean construction, BIM.5D®, procurement)
The Company

A look in the history books

The founding father

This man heralded a new era in construction. Eduard Züblin was a trained engineer when he founded his engineering office for cement-iron structures in the Alsace back in 1898. He soon became aware of the advantages of ferroconcrete and contributed considerably to the refinement of this building material. The resulting new applications and construction methods form the basis of our successful company history.

The company

Since 1919, we have been building on this pioneering role in construction under the name Ed. Züblin AG. A solid number of contracts with numerous bridge construction and large-scale industrial projects helped us through the Great Depression and beyond. We introduced electronic data processing earlier than others and we are continuously expanding our business in a solution-oriented manner by adding special divisions such as environmental engineering or tunnelling. The ground engineering services we render during complex projects have won us additional national and international recognition. Many of our spectacular projects have set new standards at the limits of technical feasibility. Since 2005, ZÜBLIN has been a member of Austrian-based STRABAG SE, one of Europe’s leading construction groups. In this competence alliance, ZÜBLIN follows the successful strategy of TEAMS WORK. Since the end of April 2017, the two companies have been flying the same colours. The ZÜBLIN logo change was complete.

The employees

The integration of the German building construction and civil engineering activities of STRABAG AG in 2006 made us the number one in Germany in this business field. Today, our strong team is made up of 14,000 skilled professionals. With our subdivisions and associated companies, we are a high-powered company operating all around the globe and generating an annual construction output of more than € 3 billion.

1 Mercedes-Benz Museum / 2 Eduard Züblin, 1850–1916 / 3 Wadi Tharthar Project, Tigris River Dam (Iraq), 1956 / 4 Chur-Arosa Railway Bridge (Switzerland), 1912 / 5 Heslach Municipal Pool, Stuttgart, 1927
Concentrated know-how

The centrepiece of our company, where all our technical know-how is pooled, is the Central Technical Division (Zentrale Technik, ZT). Here, we concentrate the know-how needed to support all the Group's divisions, from tunnelling and civil engineering to structural engineering, from turnkey construction to construction process management. ZT supports our operating units throughout the entire construction process, starting with the early acquisition stage and going through tendering and construction design all the way to site management. To further strengthen our competitiveness, ZT carries out technical and interdisciplinary innovation projects with the operating divisions involved. It also invests in external national and international R&D projects, this way promoting the innovative strength of our company. Important responsibilities assumed expertly by ZT include brand and patent protection as well as the maintenance and refinement of tools and equipment.

ZT is based in Stuttgart with a workforce of around 800 employees. It has 20 other locations in Europe and also provides local support to a multitude of construction sites. ZT is an especially attractive place for young engineers to start their careers.

BIM.5D®

Modern construction projects can be designed, built and operated more efficiently and with higher quality when knowledge is shared quickly and transparently. With BIM.5D®, we have developed a new digital planning method for the construction sector that involves all project participants from the start, thus facilitating the interdisciplinary analysis of data and correlations and so increasing the possibility for early error detection.

The BIM.5D® working group is working on a continuous, step-by-step introduction of the necessary processes, tools and documents in the entire STRABAG Group.

Central Technical Division

Services

Technical support of the operating entities:
- Acquisition
- Tendering
- Construction design
- Design management
- Expert site management
- Implementation and development of BIM.5D®

Key non-technical responsibilities:
- Maintenance and development of tools and equipment
- Human resource development
- Corporate responsibility
- Research and development projects
- Innovation and knowledge management
- In-house training
- Process optimisation through lean principles
- Patent and brand protection

Betreuung
Patent- und Markenschutz

1 ThyssenKrupp Elevator Test Tower, Rottweil / 2 UPPER WEST, Berlin / 3 Model of the BIM.5D® process: geometric model (3D), linked with the scheduling (4D) and data on cost and quantities (5D) / 4 ZÜBLIN-Haus, Stuttgart / 5 Port Said, Egypt
Custom turnkey solutions

Turnkey administration buildings, residential developments or industrial facilities – complex and challenging construction projects require extraordinary competence. With our know-how, we are your expert partner to implement your project according to your wishes and needs. We design in a realistic and cost-efficient way to make your vision come true – be it a new development, an extension or enlargement, or the reconstruction, conversion and refurbishment of an existing building.

With hospitals, shopping centres and commercial properties from office buildings to logistics centres, our service portfolio comprises all types of buildings imaginable. We also build housing projects and leisure properties. All our service departments offer expert support on issues such as design or work planning. With efficient logistics and engineering power, we provide for the on-schedule and top-quality execution of your custom project.
Revitalised structural substance

No matter if revitalisation or full renovation, we make the best of your property using the given structural qualities. When working on existing structures, a careful analysis of the building components and load-bearing structures is of fundamental importance. This “grassroots” work and the design based thereon are carried out expertly by our specialist teams.

Be it the improvement of the load-bearing structure or the renovation of a historically listed façade, we have at our disposal more than just the necessary experience in all fields of revitalisation. We possess in-depth know-how in facility management and in matters of sustainability, especially in energy efficiency, which allows for optimising your investment and operating costs. We carry out detailed cost and amortisation estimates to ensure that the optimum technical solution can be implemented within a given budget.
Personalised package solutions

Every client has his or her own idea and every object its own requirements. We always use an all-inclusive approach that comprises more than just construction services. Whether project developments, public-private partnerships or partnering models, we have structured our service portfolio in a modular manner and can so offer tailor-made one-stop solutions to meet your demands in the best possible way.

Development

50 years of experience in real estate project development have made us a top player in Germany. STRABAG Real Estate GmbH, our specialist in this business field, develops well thought-out strategies for projects that create a future worth living for people, enterprises, towns and regions. The concentration and coordination of strengths, competences and know-how have one ultimate goal, which is to offer customer benefit. Because customer benefit is an integral part of our company’s philosophy and motivation.

Our services span from initiating, valuation and concept design over implementation and completion all the way to the financing, letting and managing of properties. Here, our focus is on office and retail properties. We are always focused on your wishes and needs – imaginative and flexible, perspective and realistic, individual and professional.

Public-private partnerships

This part of our portfolio aims at contributing to the modernisation of public facilities at the federal, state and local levels. Public-private partnerships (PPPs) combine the strengths of the private and public sectors. Such partnerships allow for implementing public building construction projects within a shorter timeframe, they reduce investments and operating costs in many areas, and they offer a level of security. A lifecycle-oriented approach from day one, together with adequate risk optimisation, provides for a clear efficiency edge for our PPP projects. Our offer comprises financing, design and construction as well as the long-term operation of properties and is carried out via STRABAG Real Estate GmbH. In all project stages, we guarantee the transfer of know-how and the transparency of our services. Our fields of work cover schools and other educational facilities, projects in the health care sector, justice and administration buildings, military projects, and cultural and leisure facilities.
ZÜBLIN teamconcept

Satisfaction guaranteed

Our ZÜBLIN teamconcept guarantees cost, quality and schedule performance through:

- Early inclusion
- Common goals
- Cost transparency
- Risk minimisation
- Joint controlling
- Conflict resolution models

Challenging construction projects require the efficient and energetic cooperation among all involved – from the very first moment. Whether a complex idea will turn into an economically successful property is decided in the early design phase. With ZÜBLIN teamconcept, our partnership model, we can make a positive influence on all later construction and operating costs. In other words: The earlier the competences of the various specialist divisions are concentrated, the higher the optimisation potential.

The ZÜBLIN teamconcept offers smooth and successful project realisation for top efficiency in terms of development, implementation and over the entire lifecycle from day one. We translate the principles of partnering into a definite and contractually laid-down procedure. The partnership among all project participants allows us to provide our clients with all services from a single source.

1 de Rotterdam (Netherlands) / 2 MILANEO shopping centre, Stuttgart / 3 adidas World of Sports, office building, Herzogenaurach; © Behnisch Architekten, Stuttgart / 4 Axeltorv, Copenhagen (Denmark); © Ejendomsselskabet Norden V Invest P/S, Copenhagen / 5 BLOX, Copenhagen (Denmark)
Civil Engineering

Complexity calls for top performance. Civil engineering structures thus are a unique challenge for all involved. For the construction of complex large-scale projects of the highest quality, on schedule and in a cost-efficient and attractive way, we are your expert partner. To achieve this goal, we apply cost-efficient construction methods, cost optimisation and exact timing. As a renowned player in the construction industry, we execute exemplary projects that meet the ever-increasing requirements of the business world – today and in the distant future.

Our clients include industrial enterprises, federal, state and local governments, and private investors. Our service portfolio is tuned to the most diverse customer demands and stretches from individual services, such as the construction of industrial floors, all the way to the construction of turnkey infrastructure projects.

Even long-lasting hydraulic engineering structures need to be modified or rebuilt in response to changing technical, hydrological or economical requirements. Protecting coastal and inland areas from flooding requires the construction of retaining structures and weir systems. Freight, container and cruise ships docking at our ports are constantly growing in size. We create the new port facilities capable of handling them. And we build the crossing structures and lock systems needed for the expansion of inland waterways.

1 (C3), Frankfurt a. M.; © Robert Metsch / 2 Rastatt Tunnel / 3 Elbe-Havel Canal / 4 Wilhelmshaven Naval Base / 5 Botlek Bridge, A15 (Netherlands) / 6 Stuttgart 21, valley crossing and train station; © Arnim Kilgus, www.bahnprojekt-stuttgart-ulm.de
High-performance machinery

Working in the dark is extremely demanding. Tunnelling, in particular, requires tremendous skill and enormous experience of all people involved. Our engineers and construction workers all possess extensive hands-on experience and have been successfully constructing tunnels, galleries and caverns for rapid transit, underground, and railway lines, roads, hydro-electric stations, and water supply and wastewater systems for several decades. Our underground works total in the hundreds of kilometres around the world, covering everything from conventional excavations to the jacking of man-entry pipes to cut-and-cover tunnels. This wealth of experience enables us to continuously contribute to further developments in the construction of underground routes. Our numerous technological innovations in this engineering discipline constantly open up new fields of application and help to increase the efficiency of the individual methods.

An especially outstanding characteristic of our engineers is their constant striving for perfection. Every single day, they question the status quo. This helps to optimise the cost-benefit ratio of even the most miniscule detail and ultimately leads to a more efficient construction process. Technical innovations in tunnelling open up new applications and increase the efficiency of the individual methods. Our employees are committed to keeping this up in the future. One result is that cut-and-cover tunnels often no longer have cost advantages over tunnels constructed underground. As underground tunnel construction offers considerable advantages in terms of route and alignment, environmental impact and traffic interference, it is increasingly becoming the technique of choice.

1 + 2 Albabstieg Tunnel, Wendlingen–Ulm / 3 Bühl Tunnel, B62, Siegen / 4 Andrea Tunnel, Stuttgart
Fundamental masterpieces

Building excavations, grouting horizons or floor slabs are fundamentally important elements and the “backbone” of every structure. Our Züblin Spezialtiefbau GmbH is well aware of the great responsibility it carries and has managed to build itself an excellent worldwide reputation in this engineering discipline. The range of services offered comprises the construction of challenging immersed tube tunnels, turnkey urban building excavations as well as high-quality bored piles, diaphragm walls, anchors, ground freezing and grouting. Additional works provided include sheet piling and hydraulic engineering works for infrastructure and transportation projects.

Our efforts for constant technological innovation and development is also given priority status in our ground engineering division. We are not satisfied until we have found the best technical and economic solution for each specific client. Our engineering teams work tirelessly to make this possible. Over the course of the entire project, they work closely together and jointly develop all details, from structural designs to work techniques. All processes are coordinated and optimised. In combination with their wealth of experience, they are capable of solving even the most difficult ground engineering task.
A passion for steel

Strong and resilient, yet flexible – these characteristics make structural steel the solution of choice for many complex construction tasks. Here we can count on our Züblin Stahlbau GmbH, an internationally positioned construction service provider for challenging projects in structural steelwork and façade engineering. The company has a long history in the field of metal and steelworking with an outstanding technological base and an experienced staff both at its headquarters in Hosena and at the Sande manufacturing site (previously NE Sander Eisenbau GmbH).

Our state-of-the-art production facilities, enormous range of services and interdisciplinary networking both within the group as well as with universities and research facilities make us an experienced and competent partner for steel buildings, steel bridges and façades. With a monthly capacity of 1,500 t of section steel constructions, we are one of the few companies capable of guaranteeing exact timing even in large-scale projects. Our perfectly coordinated team of employees, together with our high quality and safety standards, are a guarantee of constant top performance. Züblin Stahlbau GmbH is certified to EN 1090 (EXC 4), Deutsche Bahn HPQ and SCCP, has a certified quality management system in place and has been certified by the German Steel Engineering Association.

1 Amager Bakke, waste incineration facility with ski run, Copenhagen (Denmark) / 2 BASF Ludwigshafen, TDI plant / 3 Lausward Combined Cycle Power Plant, Düsseldorf, structural steel with illuminated façade / 4 A100 steel bridge, Berlin / 5 Steelworks, Züblin Stahlbau GmbH / 6 ZAL Research Centre, Finkenwerder
1 Sheikh Zayed Desert Learning Centre, Al Ain (UAE) / 2 Carousel (Qatar) / 4 Rendering of commercial and residential project Al Muntazah, Doha (Qatar) / 5 Mauritius Port
At work around the world

Vision, courage and an insatiable curiosity have been the keys to our success all over the globe. We have been realising projects internationally and leaving our mark on countries around the world since 1953. Our international activities include infrastructure projects such as bridges, dams and tunnels as well as complex turnkey industrial facilities, residential developments, office buildings and educational institutions such as schools or universities.

A decisive factor behind our international success has been the focus on profitable core markets. In these markets, we work with national subsidiaries and branch offices that possess the necessary local know-how and understand the local networks. During construction, they take advantage of the best locally available technologies – complemented by our German know-how and expertise. With the support of our Central Technical Division, and led by experienced project and site managers, our projects are a guaranteed success no matter how complex. Young engineers benefit particularly from our activities abroad. For them, work on a construction site outside Germany is vital for their personal and professional development.
1 The Smile, London (UK) / 2 Théâtre Elizabéthain d’Harden / 3 Clubhaus Chiemsee Yachtclub Prien / 4 Schlossberg Garage, Böblingen; © Marcel Rathgeber / 5 Markthalle, renovation, Frankfurt a. M.; © European Central Bank / Robert Metsch
Additional Services

Holistic approach

Special tasks call for special know-how. Selected subsidiaries and affiliates of the ZÜBLIN Group complement our service portfolio with fields like timber construction, structural maintenance, construction logistics, chimney and refractory works, and environmental engineering. To ensure that our expertise covers the entire value-added chain, we even have our own MEP division.

ZÜBLIN Timber

Wood has unique physical characteristics and is a renewable resource. No other building material better meets the ecological standards that are increasingly demanded of us by clients all across Europe. We are fully aware of this development. With the successful integration of the two important timber construction companies MERK Timber and Stephan Holzbau, we have expanded our range of services in timber construction. As the market leader in building construction and civil engineering, ZÜBLIN has also set itself the medium-term goal of assuming a leading position in the European timber construction market. In this way, our engineers are helping to drive a change that architects and investors have been demanding for years: the design and industrial production of timber structures for multiple uses. From the supporting structure to the building envelope, our turnkey projects are becoming increasingly complex. We have the capacity to implement everything from a single source.

Structural maintenance

ZÜBLIN also is a leader on the German structural maintenance market, where it can access the extensive know-how of its structural maintenance subdivision at locations throughout Germany and in Luxembourg. In conjunction with its subsidiaries Torkret GmbH and Repass GmbH, ZÜBLIN offers solutions for all requirements in the maintenance and repair of buildings and structures. The joint team of ZÜBLIN, Torkret and Repass is your reliable partner for everything from concrete and masonry repair to structural reinforcement, corrosion protection to waterproofing, floor coating systems to heritage reconstruction. Our patented Torkret Relief® system uses gunned concrete to reinforce existing structures with a creative concrete surface. Monitoring and cathodic protection is provided by the ZÜBLIN brand product capsys®.
Chimney and refractory engineering

The demands put on this business field are as high as the structures themselves. Our industrial chimneys must reliably stand up to wind, vibrations and environmental influences as much as to chemical and physical stress from flue gas exposure. Environmental standards and stricter requirements for flue gas cleaning have greatly changed the specifications for the materials to be used. In refractory engineering, the extremely high thermal loads with furnace temperatures of up to 2,000°C are further challenges faced by our engineers.

We have proven our know-how in the fields of chimney and refractory engineering among end customers and plant construction companies in Germany and abroad. From refractory plants to masonry, steel or reinforced concrete chimneys – the design, dimensioning and estimation, as well as the construction and erection of the structures, are always in the hands of qualified and skilled staff. We also are your expert partner for maintenance, repair, retrofitting or renovations.

MEP systems

We are the right choice for clients looking for intelligent end-to-end solutions to complex mechanical, electrical and plumbing (MEP) challenges, an efficient partner for the design and realisation of MEP projects, or a general MEP contractor. Züblin Gebäudetechnik GmbH, which celebrated its tenth anniversary in 2014, is one of the largest SMEs in its field in northern Bavaria.

Our staff at the Erlangen head office and at the branch offices in Wiesbaden, Cologne, Dresden and Munich look forward to answering your questions with expertise in the fields of heating, cooling, air conditioning, sanitary, instrumentation and control engineering, and communications.

Our references include big-name companies and respected institutions such as Siemens, Deutsche Telekom, the European Patent Office, INA Schaeffler, adidas and many more satisfied, long-standing clients.
Construction logistics

Construction logistics is more than just transport. For us, construction logistics means making available the right materials to our clients in the right quantity and in the right quality – at the right place and at the right time.

We are your experts for the logistic design and construction of complex construction projects in tight spaces and with tight schedules. The resulting density of the construction services forces us to a high level of coordination and organisation – including and especially in the entire field of ancillary construction services.

Throughout it all, our goal is always to master these tasks and to realise construction projects in a city-friendly manner, environmentally compatible and with an eye on costs.

Environmental engineering

We want a clean future and do our best to make a substantial contribution to this goal. Our Züblin Umwelttechnik GmbH is one of the leading companies in environmental remediation. The focus of our activities is on plant and process engineering for the purification of water, soil and air. Our services include conventional technologies as well as innovative procedures and range from the consulting and planning of process and plant mechanics to our own fabrication. We also handle the complete assembly and commissioning process as well as the later technical operation. Our plants can be bought, rented, or hire-purchased or are available by way of interesting operator models. For environmental remediation works, the sanitation of process wastewater and process air, or on construction sites, we have the right machines for the job.

We are proud of our 20-plus years of experience and more than 2,000 successfully implemented projects around the globe. Among our clients are enterprises from the automotive, construction, chemical, electronics, pharmaceutical, petrochemical and coal industries as well as the public sector with land parcels, abandoned industrial sites and landfills. Our interdisciplinary teams will be happy to elaborate for you cost-efficient, individual and innovative solutions. For the sake of our environment.

1 Mongstad Refinery (Norway) / 2 Circulating fluidised bed combustion chamber / 3 Installation of heating distribution system, CAD Köln / 4 Water treatment, Bussi (Italy) / 5 Rastatt Tunnel / 6 Crane set-up at group headquarters Siegburgerstr., Cologne