

**WE SET TRENDS
IN COMPLEX EXECUTION
OF STEEL STRUCTURES**

EXCON is primarily and traditionally engaged
in the business of **STEEL STRUCTURES**.

DESIGN + PRODUCTION + INSTALLATION

STEEL = EXCON EXCON = QUALITY

EXCON was one of the first post-revolutionary joint-stock companies in civil engineering sector. It was founded by natural persons (Czech citizens), top experts in the field of steel structures. In 2015, the founders handed the company over to the hands of management and know-how carriers.

Vision

We build on a long tradition, on uniqueness stemming from the complexity of the process from design to assembly, and on high degree of professionalism.

Our main goal is to perfectly master the **DESIGN + PRODUCTION + INSTALLATION** process.

Our objective in the design and implementation of steel structures is to provide creative, technically unique, and economic solutions. We continue to develop and streamline our own production facilities.

Mission

The mission of the company's management is to view the company as a social system in all its complexity and to manage it from this perspective.

Certificates, standards

EXCON has implemented and maintains its quality management system pursuant to the ČSN EN ISO 9001 standard, its environmental management system pursuant to the ČSN EN ISO 14001 standard, and its occupational health and safety management system pursuant to the ČSN ISO 45001 standard.

We possess a system certified pursuant to the ČSN EN ISO 3834-2 standard - Quality management system in welding processes, and the ČSN EN 1090 standard - Execution of steel structures.

We possess numerous professional authorizations - bridges and engineering structures, civil structures, statics and dynamics, testing and diagnostics.

We have been certified by Honeywell Fall Protection Deutschland GmbH & Co. KG for design, installation, and certification of Söll products.

Trimaran – Commercial and Congress Centre,
Prague – prestressed hybrid steel-concrete structure



We ensure complex execution
of steel structures for
civil, industrial, sports,
and transport structures,
power industry, and
telecommunications.

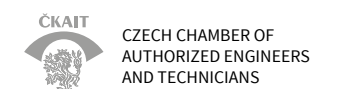
High quality projects and
technically progressive while
at the same time economic
solutions are EXCON's
standard. This is connected
with process complexity from
design to installation in high
quality.

We utilize the synergic
effect which results from
combination of design and
implementation know-how.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS



EXCON HAS RECEIVED NUMEROUS AWARDS



EXCON is member of Odborná rada pro BIM z.s. (czBIM) and participates in BIM popularization. It also develops easy to use software tools for work with data associated with a 3D model (CDE).

WE DESIGN

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We design steel structures within all design documentation stages. We also provide expert and consulting services.

DESIGN OF STEEL STRUCTURES

Our design department consists of a team of experienced professionals in the fields of stress analysis, dynamics, and design of steel structures. We support education, science and research, develop our own software, participate in creation and marking up of both Czech and European standards. A strong team with state-of-the-art equipment for calculations and 3D technologies can deliver extensive projects within very short lead times.

We develop the concept of controlled prestressing of steel structures in our projects. Prestressing helps us achieve a favorable redistribution of internal forces or elevation of the structure. This concept enables us to design economical structures, offering new conceptual and shape possibilities to architects.



Football stadium, Chomutov



Pedestrian and cyclist bridge, Písek



Troja bridge, Prague



Hangar, Ostrava-Mošnov airport



Conversion of a gas receiver within national cultural monument to a multipurpose aula, Dolní Vítkovice, Ostrava



KK 1300 excavator



Spulka look-out tower



Pruněřov Power Plant – desulfurization



M13 assembly hall, ŠKODA AUTO a.s., Mladá Boleslav

PRODUCTION AND INSTALLATION

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Direct connection between designer and the production line, optimization of specified product parameters and on-line data transmission directly into the machines substantially simplify and accelerate the entire production process. The customer thus receives value consisting of short lead times, high quality, and excellent price.

PRODUCTION OF STEEL STRUCTURES

All types of steel structures can be manufactured in our production plant at Teplice.

The production halls have the area of 10,000 m² and are equipped with portal cranes. Our machinery includes, among others, Voortman CNC machines, Kemppi welding equipment, and MAXIMA continuous blasting machine.

Production is managed in line with ČSN, EN, and ISO standards and also in compliance with approved welding procedures. Our workers possess necessary professional authorizations.

Production quality is monitored according to inspection and test plans approved by the client. The team of inspectors is managed by internal employees with IWE/EWE qualification and other certificates.

Current production capacity is around 500 tons per month depending on structure of orders. The production capacity is being gradually increased in connection with the ongoing automation and digital data transformation process.

The objective of the management team is to use the synergic effect of the DESIGN – PRODUCTION – INSTALLATION process. This effect helps to increase the production capacity and guarantees both quality and meeting the required lead times – always in line with requirements and expectations of our customers.

MACHINED METALLURGICAL PRODUCTS

Technical capabilities and flexibility of our CNC machines at Teplice enable execution of a vast number of 3D shapes while achieving the maximum efficiency and effectiveness.

A new dimension
in 3D machining



Areas of application of our products comprise parts and components of steel structures, various hall types, products for metallurgical industry, as well as technological units. Thanks to our technical possibilities, we can thus optimize and supply a product that fully satisfies the requirements of the broadest possible spectrum of customers.

In combination with our own inventory of metallurgical materials, we can offer products that are advantageous not only by their technical design and quality parameters but also by their price and lead times.

www.excon3dprocessing.cz

INSTALLATION OF STEEL STRUCTURES

We offer capacities for the erection of building, technological, and special steel structures. Our work benefits from the synergic effect achieved by direct interconnection with our design activities.

Our advantage in this field lies in our ability to optimize the proposed solutions. Thanks to a unique technical background, we can deliver standard, as well as technically/time demanding and complex steel structures.

The professional support also includes design of auxiliary structures and technological construction process. We deal not only with the final form of the steel structures but often with demanding and complicated erection procedures, lifting and handling of heavy and oversized components.

SPECIAL STEEL STRUCTURES, DYNAMICS

We design, build, and reinforce masts, anchored masts and look-out towers for mobile operators, telecommunications, industry, science, and public sector. We have implemented almost 2000 projects both in the Czech Republic and abroad. We have developed our own software for design of masts.

We also offer replacement of guy-lines and rectification of guyed masts.

In cooperation with the Institute of Theoretical and Applied Mechanics of the Czech Academy of Sciences, we design and implement oscillation absorbers for masts and pedestrian bridges. We measure their efficiency and provide maintenance and service.

We also ensure dynamic testing of bridges and pedestrian bridges, measurement of dynamic response of structures and buildings to installed mechanical equipment including design of excessive vibrations attenuation.

We measure and evaluate numbers of cycles and fatigue stress of structures.



VOORTMAN V630/1000T/VB1050
Automated Drilling & Sawing System



VOORTMAN V320-2000
Automated Flame Cutting Line



V808, XPR300 CORE
Plasma Cutting



MAXIMA 1250x750-4/7.5
Continuous Blasting Machine



Tennis Hall, Karlovy Vary



Installation of oscillation absorbers
for the bridge in Písek



250 m guyed mast for Křešín
atmospheric station

OTHER PRODUCTS

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Mutual synergy of all products enables us to implement creative steel structures both efficiently and economically.

DIAGNOSTICS OF STEEL STRUCTURES



As a part of steel structures diagnostics, we offer comprehensive services covering inspections of steel structures within the scope set forth in ČSN 73 2604. Following the basic evaluation of the condition of a steel structure, we also offer additional NDT activities including ultrasonic thickness measurement, cone penetration tests, and visual inspections. In order to be able to offer other specific NDT and DT methods, we cooperate with leading accredited laboratories.

PRESTRESSING OF STEEL STRUCTURES



Experts at EXCON have created a state-of-the-art concept for introducing controlled prestress forces into steel structures. Forces of up to 2200 kN are introduced into bars and cables by hydraulic equipment. We prepare optimized prestressing and installation procedures for prestressed structures erection. Forces in bars and cables are measured by strain gauges and based on natural frequencies. We have all necessary technologies at our disposal, most of them being the result of internal development.

SÖLL VERTICAL HEIGHT ACCESS SYSTEMS



In cooperation with the manufacturer of Söll height access systems, Honeywell Fall Protection Deutschland GmbH & Co. KG company, we perform regular recertification of our employees for working with these systems. Our designers are thus able to design a bespoke solution and our technicians are trained in installation and regular certification of all safety elements and systems by Söll required to protect persons against fall.

STEEL HALLS ASSEMBLED HALLS BY EXCON



Our steel hall solution is highly economic thanks to the design based on advanced methods and structural optimization. In combination with our own production and erection capacities, we can deliver assembled steel halls that offer you benefits in form of low price, complete and fast execution, technical design, and functional parameters. Main benefits of the steel halls by EXCON include production in own production plant, dimensional optimization of individual structural elements, and efficient installation procedure. This way, we can guarantee the required quality while at the same time significantly shortening the delivery process.

ALeX

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A modern web browser is all you need for working with ALeX. You can thus work with your company documents from anywhere. Safe information sharing with business partners has never been easier.

EXCON uses ALeX as a basic tool that facilitates projects management from design over production up to final installation.



DOCUMENT AND PROCESS MANAGEMENT INFORMATION SYSTEM

ALeX is a modern, fully configurable web-based information system for management of documents and processes.

FOR EVERY COMPANY

Possibility of deep integration into corporate environment and excellent licensing conditions make ALeX an irreplaceable tool that will assist in efficient management of every company.

SECURITY

A sophisticated system of rights management, audit logs, encryption. All this gives you full control over the data stored in your system.

REPOSITORY

ALeX allows you to store not only typical office documents, design documentation, but also audiovisual recordings, photographs, and other discretionary formats. ALeX supports the processing and linking so called non-geometric and additional information with a 3D model. This helps to maintain the Common Data Environment (CDE).

TAILORED PROCESSES

We will set up your circulation of invoices, drafting or approval of contracts, workflow of orders, requests, recording and distribution of both incoming and outgoing mail, connectivity to data mailboxes and contracts register, quality management process...

SELECTED REFERENCES

ALIMPEX FOOD a.s. • BILLA, spol. s r. o. • Bioveta, a.s. • Cayman Pharma s.r.o. • Kaufland Česká republika v.o.s. • FORTUNA GAME a.s. • Lagardere Travel Retail, a.s. • Supreme Audit Office • Noventis s.r.o. • OKsystem, a.s. • STEP, spol.s r.o. • State Energy Inspection • THK RHYTHM AUTOMOTIVE CZECH a.s. • Military University Hospital Prague • Z-Group a.s.

- ONE LICENSE WITHOUT LIMITATION TO NUMBER OF USERS AND STORED DATA VOLUME
- STATE-OF-THE-ART, FULLY CONFIGURABLE, USER-FRIENDLY
- FUNCTIONALITY AND RELIABILITY PROVEN IN MANY COMPANIES

Files stored within the system can be enriched with extensive descriptive information – metadata specific for each record type. ALeX also maintains the number of stored document versions that you require.

Full-text search in metadata and in machine readable versions of stored documents helps you quickly navigate through vast quantity of records.

Security technologies will help you keep your information safe and secure. Everything that is not permitted is forbidden. You thus have full control over the data stored in your system. ALeX will also help you with the protection of personal and sensitive information in conformity with GDPR.

www.isalex.cz

SELECTED REFERENCES



SAZKA (O2) ARENA, Prague



Ice Hockey Arena, Chomutov



Werk Arena, Třinec



Komenského bridge, Jaroměř



ČSOB Bank, Radlická, Prague



Bolt Tower, Dolní Vítkovice, Ostrava



ČSOB bridge, Radlická, Prague



Trimaran – Commercial and Congress Center, Prague



Prague main train station – rehabilitation of the steel structure of historic hall



Raising the BAUHAUS administrative building, Brno



Sports hall, Lanškroun



Petřín look-out tower, Prague – refurbishment



Velký Kamýk look-out tower, Písek



Football stadium, Pilsen – roofing of tribunes



Pustevny skywalk



Noise barrier (tunnel), Hradec Králové



Noise barrier (tunnel), Vchynice



Dragons, Saipan – supporting steel structure of a design lighting fixture



Sacre Coeur II residence, Prague



Hall of M.R. Štefánik's terminal, Bratislava airport

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