PRO3con

Let things work for you.

INDUSTRY

2013

Designing and Engineering Company

Life is energy.
Creating energy helps life.

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PRO3con Group Industry

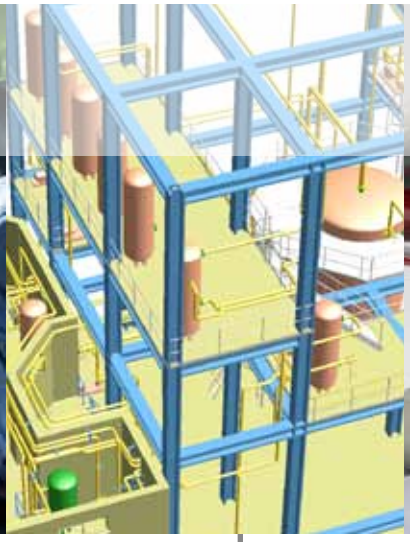
PRO3con Group is relevant partner in engineering, design and project management in the energy and petrochemical industry.

From initial concept to production, installation and construction process is compliance with safety, quality and cost-effective solutions to measure the success of any major project.
PRO3con Group is one of the most important European partners in the field of engineering and project management in the energy and petrochemical industry.
With knowledge and experience PRO3con Group provides customers with quality and timely execution of project tasks in the pipeline and supporting structures, building units, complex computational analysis tools and project management.

PRO3con Group is a privately held company with headquarters in Dubnica, Slovak Republic. It's members and staff regularly participate in solutions to international projects, mainly in the German Federal Republic. For this purpose, we established a detached branch in Erlangen.

The company is certified to ISO 9001 and ISO 14001.

Engineering, design and On-Site servis

Consulting

- The feasibility study
- Selection of appropriate technology / vendor
- Conceptual design study
- Financial Calculations costs

Design

- Pre-project preparation
- Creating project documentation
- Production documentation
- Project Administration

Analyses

- Analysis of strength and seismic technological and building structures
- Calculation of flow and loss
- Development of methodologies and design rules
- Independent rating

Servis

- Measurement of construction with 3D scanner technology
- Creating of catalogs
- Software and/for Project management
- The surveys

Power Engineering...

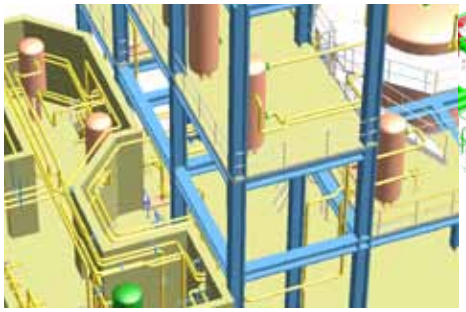
We are not new here. Since 2007, we perform design activities in the energy, chemical, petrochemical and construction industry.

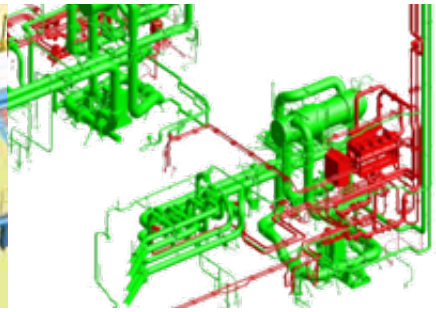
In the projects of energy or chemical structures are piping systems or individual technological devices that significantly influence the following factors: economic efficiency, technological capacity and safety. In the phase of detailed engineering, planning, piping, component selection and design of support structures can be these factors significantly optimized.

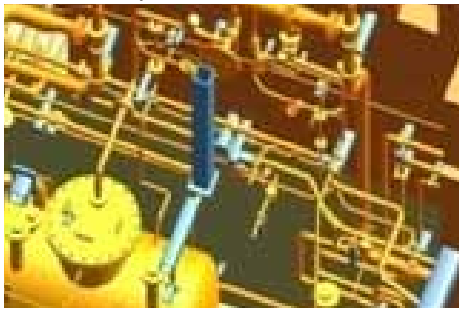
In the planning and design phase, our engineers use advanced 3D design and computational tools to reduce the formation of potential risks and errors.

- Basic design
- Conceptual designs
- Calculation of the flow characteristics
- Stress analysis of piping and verification
- Basic design and engineering
- Project Management
- Documentation

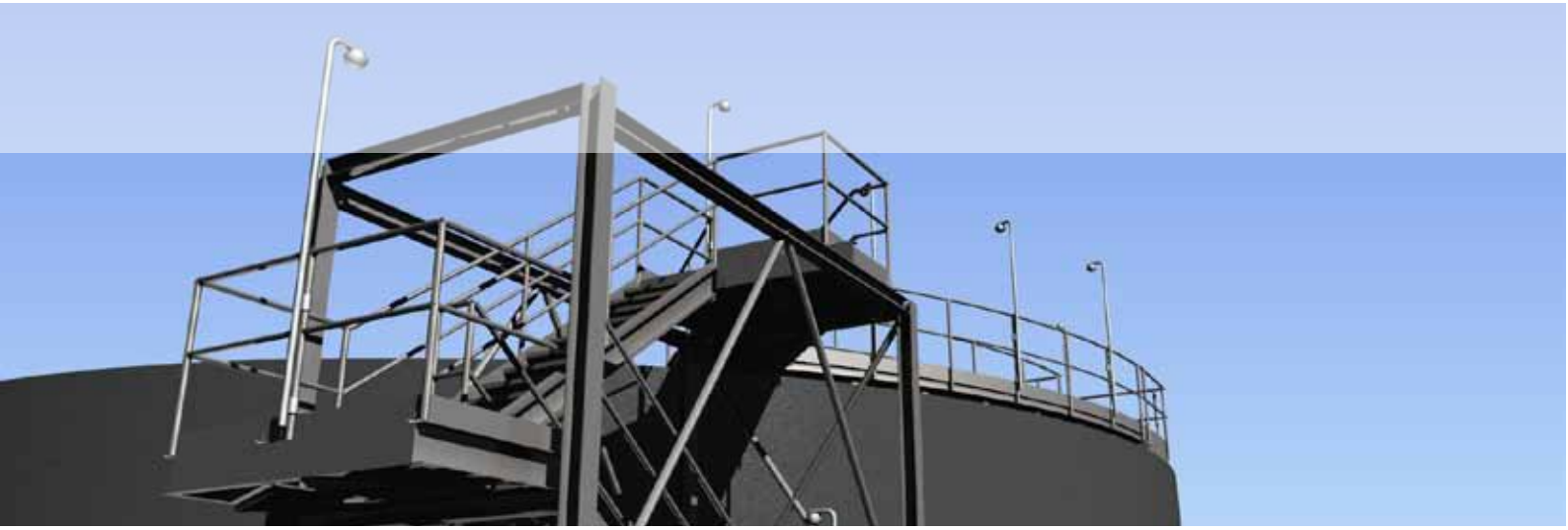
- Detail design
- Detailed design
- Management
- The deployment of equipment in construction
- Design of piping, supports and hangers, isometrics and material list
- Steel construction and building technology
- Static and dynamic analysis
- Project Methodology
- Technological equip. of buildings and installation
- Purchase and delivery
- Production and assembly documentation







... Civil Engineering



For us is application of technological systems only the beginnig. With integration of effects on buildings and structures we accomplish work to perfection.

Although the structure of the buildings are made in the first phase of implementation, the impact of technological devices must be counted before the site construction starts. It is extremely important that during design process, there were no boundaries between civil engineers and technology engineers. Civil department of our company constantly works on projects and increases the efficiency and safety of the process.

Apart from technological projects, civil department also focuses to civil construction projects, such as housing projects, production or storage buildings.

- Architectural design

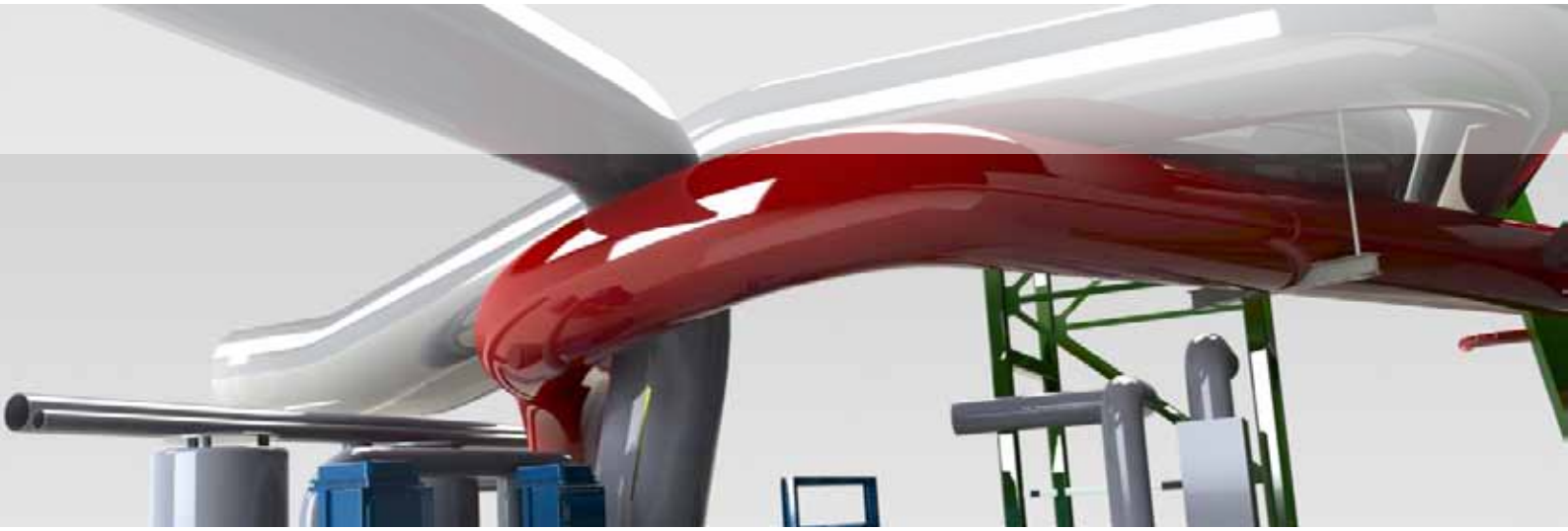
- Processing of

- Conceptual design
- Basic design
- Detail design
- Project of realization

- Object vizualization

- Civil construction equipment and building technology

Analysis



With us, you do not need to hold your breath during the equipment tests. We will help you to ensure the safety, reliability and integrity of the system and the components, where others turn back.

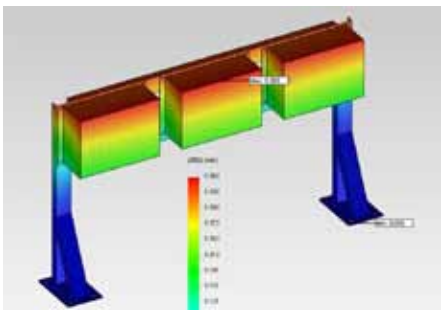
If you need to show strength, seismic resistance or resistence of other technology systems, structures, and anchor joints, flow calculations and losses in piping and ventilation system, or other complex computational analysis, you are right here.

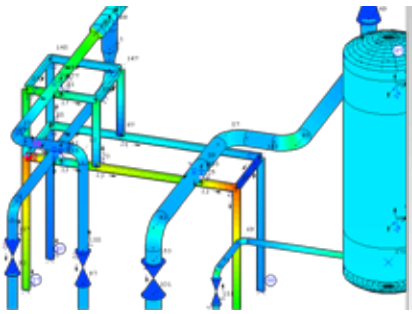
We provide calculations of piping systems and equipment to evaluate compliance with standards EN13480-3, EN13455-3, ASME BPVC SECTION III class 1-3, ASME B31.1, B31.3, B31.4, B31.5, B31.8, KTA3201.2, KTA3211.2, NTD A.S.I. section III. Calculations of anchoring and structures to evaluate compliance with standards EUROCODE 0-9, NTD A.S.I. Section III and ASME BPVC.

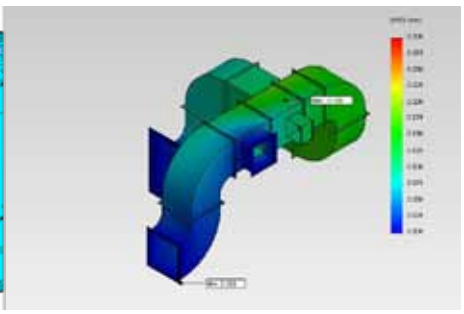
Project EMO34 are processed in accordance with requirements of methodologies for developing and updating the conclusive documentation of technical and technological equipment for MO34 and requirements for seismic evaluation of structures, systems and components EMO34 evaluation according to NTD A.S.I. Section III.

- Calculations

- calculation of static and dynamic strength, seismic, external factors such as wind and snow for piping systems, equipment and construction
- calculate the impact resistance irreversible shifts, such as unexpected collapse of the building
- calculating flows and losses in piping and ventilation systems
- calculate the change of pipe expansion
- calculation frequency load
- calculation of anchors
- calculations of basic dimensions, wall thickness by EN13480-3, EN13455-3
- calculation of flanged joints, seams and seals
- development methodologies and practices in accordance with standards and legislation







Civil equipment and construction...

The right tools, trainings and updates can make your work easier. However, the principle must stay in the head of each designer.

Electrical wiring, air conditioning, data distribution systems or active protection of the building - everything is standard technological equipment of any building.
In this regard, we go even further. In addition to their projections and dimensions we provide their actual implementation.
Design conditioning units, installation of power distribution, data distribution and centers to active safety systems such as electronic fire alarm systems, intrusion, or radio and evacuation systems.

From reality to virtual reality...

For proper orientation of buildings, whether for reconstruction, completion or focus of the actual state of our measurements we provide precision 3D laser scanner technology. Generated data are processed in the project into its final shape afterwords.

- We are using following SW:
- PDMS
- SolidPlant 3D
- NavisWorks
- AutoCAD
- AutoCAD Plant 3D
- AutoCAD Structural Detailing
- Revit Structure
- Inventor
- COSMOS
- SolidWorks
- SolidWorks Simulation
- ROHR2
- SINETZ

- We provide
- creating macros, piping specifications, catalogs components, administration, management, establishment of project for PDMS system
- Outsourcing and training of the PDMS to the external entity
- Outsourcing our project team training
- IT project management,
- Inspection, by plotting actual state through contact and contactless measurement or by laser scanning.

PRO3con

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INDUSTRY

Around the world...

NPP Olkiluotto 3
NPP Flamannville 3
NPP Taishan 1&2
NPP Metsamor Unit 2
NPP Mochovce 1-4
NPP Jaslovske Bohunice
Yunus Emre
PP Prunerov
Duslo Sala
Tencel 67kt
Slovnaft Chiyoda
Maritza East
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Representative