

Mechanical Engineering Industrial Process Engineering

ANALISIS-DSC



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Company:

We are a SME engineering service company specialized in **Mechanical** and **Industrial Processes** using **CAE** (Computer Aided Engineering) software tools.

Engineering services such as:

- Basic Engineering.
- Failure Engineering.
- Analysis and Optimization of Industrial Processes.
- Scale-up/Scale-down Industrial Processes.
- Ventilation Analysis and Optimization (Climatization and Fire Safety).

Our history:

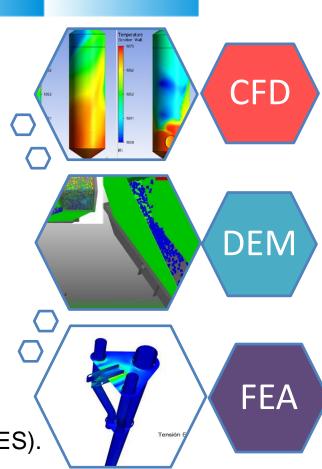
- 2002 company was founded, as distributors of CAE software.
- 2006 we start offering mechanical and industrial processes engineering services using CFD (Computational Fluid Dynamics) software tools.
- 2009 we broaden our engineering services using FEA (Finite Elements Analysis), DEM (Discrete Elements Modelization) y SES (Subway Environment Simulator) software tools.

Applications

- Mechanical-Structural.
- Fluid dynamics.
- Thermodynamics.
- Granular Flows.

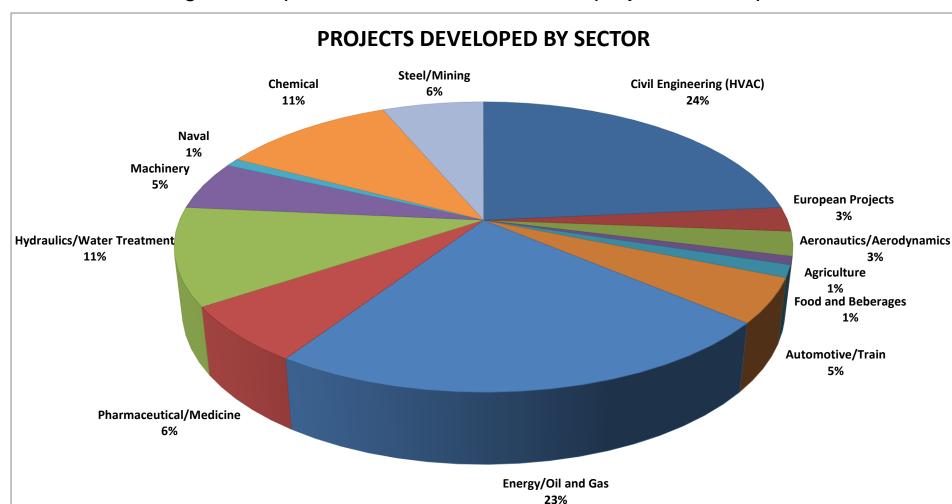
Tools:

- · CAD.
- CAE:
 - Computational Fluid Dynamics (CFD, SPH).
 - Finite Element Analysis (FEA).
 - Discrete Element Method (DEM).
- Specific Tools (Subway Environment Simulator, SES).





We have long term experience with more than 200 projects developed.



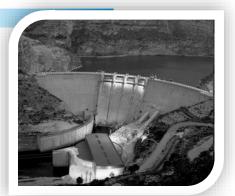


Optimization/Improvement of Industrial Processes:

- Pressure Drop Reduction.
- Heat Transfer Improvement.
- Ventilation and Climatization Studies.
- Multiphysics (gas/solid/liquid) mixing time.
- Chemical reactions.
- Aerodynamic Loads Reduction.
- Gas distribution, combustion and particle emission.
- Solid particle transport and drying.

Design of Industrial Equipments/Products:

- Prototype Development.
- Design Scale-up.
- Basic Design Engineering.
- Experimental results validation.









Damage equipment analysis:

- Erosion.
- · Breakdown.
- Thermo-mechanical stresses.
- · Corrosion.
- · Cavitation.
- Vibration.
- Fatigue.

Contingency analysis (Incidents/Accidents):

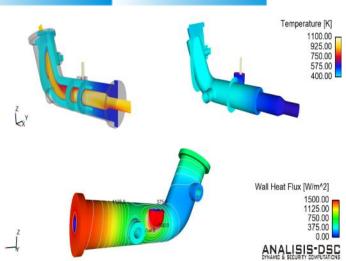
- Particle and contaminants emissions.
- Explosions.

Fire safety in civil engineering:

- Fire safety systems (Temperature and smoke dispersion).
- People evacuation.

Ventilation/climatization in civil engineering:

• Comfort evaluation / Ventilation systems.









We are a R & D orientated and focused company so that we can become your technological partner. We participate in R+D projects, national (CDTI, MINECO, etc.) and European (Horizon Europe, H2020, Eranet, etc.). European R&D Projects:



Chemical, mining, ceramical and pharmaceutical sectors





Bioenergy





Chemicals, nanomaterials



Agriculture



Heat pumps solar thermal energy storage



Mining



Agriculture

We are interested in participating as partners in other European projects in areas such as: Water, NMBP, Energy, Biorefineries, Batteries, etc. In case you would be interested in presenting a European proposal with us, please do not hesitate to contact us.



Contact

If your company is interested on additional information about our services, do not hesitate to contact us at:

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