

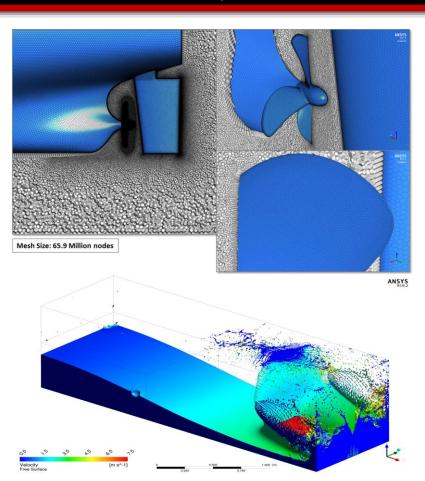
Outsourcing partner for the CFD & FEA services & CAE Software Tools



// CFD and FEA analysis pre-work, simulation and consultancy provider from a highly competent & experienced team at an extremely competitive fixed or time-based fees //

CFD & FEA Services

- CFD & FEA numerical modeling & simulation services
- Meshing (using ANSYS software) expertise
- Pre/post processing
- Technical verifications in arbitrage cases (simulation services)
- Engineering solutions provided based on results of simulation

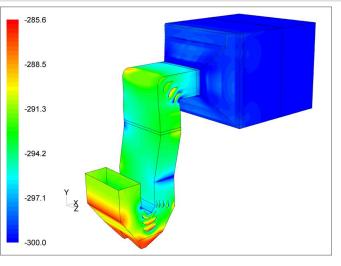


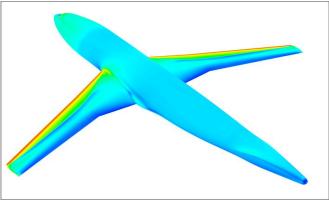


Simulation services: CFD studies

- CFD studies in automotive industry, oil & gas, maritime industry, aerospace, metallurgy, energy and bioengineering
- Thermal analysis studies
- Analysis of desulphurization & de-dusting equipment (functioning/verification)
- Gas outlets analysis
- Electrostatic filters analysis
- Gravitational separators analysis
- Multiphase flows analysis
- Phase-change processes CFD studies
- UDFs (User Defined Functions)

creation to be used in CFD project simulations



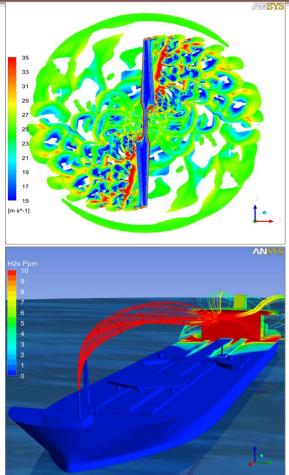




Studying product or assembly behavior under worst-

- case scenarios or in cases that cannot be physically tested or it is very expensive to do it by experiment
- Rapid virtual analysis of a prototype in different functioning cases
- Studies regarding fluids distribution and fluids transport
- Environmental studies (NOx, SO2, CO dispersion, etc.)
- Heat transfer studies in industrial processes
- Aerodynamics & Hydrodynamics studies
- Wind turbine studies
- Fluid flow in pipe networks
- Combustion studies

Simulation services: CFD & FEA studies

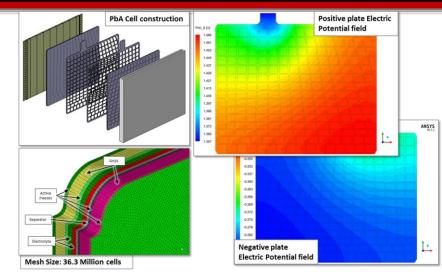


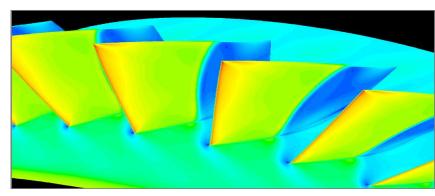


Simulation services: CFD & FEA analyses



- Fluid-structure interaction analysis
- Sloshing studies
- Continuous casting analysis
- FEA (Finite Element Analysis) studies
- Fitness for service analysis
- Fracture mechanics
- Structural optimization analysis
- Turbo-machinery studies (CFD & FEA)
- Seismic studies
- LNG transport studies
- H2 related studies
- Pb & Li-Ion batteries related studies

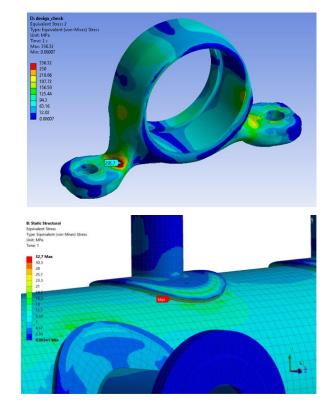




Simulation services: Structural Analyses



- Structural Static Analysis; Nonlinear Structural Analysis
- Modal Analysis;
 Harmonic Analysis
- Transient Dynamic
 Analysis
- Response Spectrum Analysis
- Buckling Analysis;
 Composites



- Shell Analysis and Cross Sections
- Rotor Dynamic Analysis
- Thermal Analysis
 Coupled Field Analysis
- Metal Fatigue Analysis
- Contact Technology
- Weld Modeling
- Fatigue life estimation study Beam and Pipe Cross sections

Who we are?

- +25 years in providing CAE software and simulation services
- Dedicated and flexible team of PhD engineers, experts in CFD and FEA modeling and numerical simulation
- Complex projects delivered in various industries like automotive, energy (wind, oil & gas, nuclear, thermal, hydro), maritime, aerospace, pharma, metallurgy etc.
- Based in Bucharest, Romania, Tensor has been delivering projects in Europe and also to other continents through general contractors

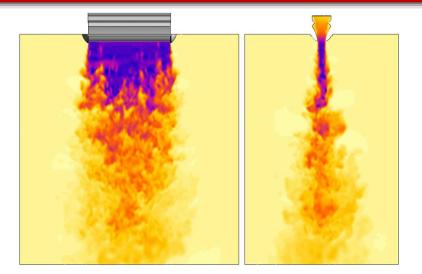




Services – structure & fees



CFD/ FEA consultancy services	
Software used:	
Preprocessing	 ANSYS Workbench (WB) ANSYS Meshing (under WB) FLUENT Meshing ANSYS SpaceClaim Direct Modeler (SCDM)
CFD simulations	 ANSYS CFD (Fluent)
Postprocessing	 ANSYS CFD-Post
FEA simulations	 ANSYS Mechanical

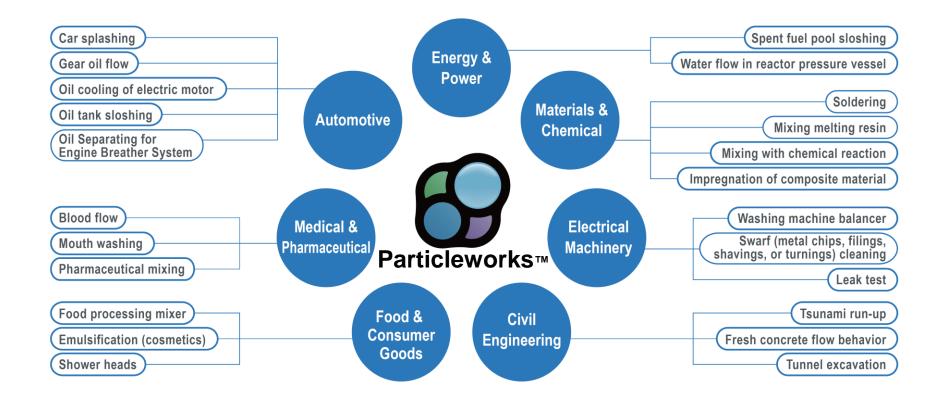




CAE Software – PARTICLEWORKS

PROMETECH software representative in Romania (Particleworks & Granuleworks)

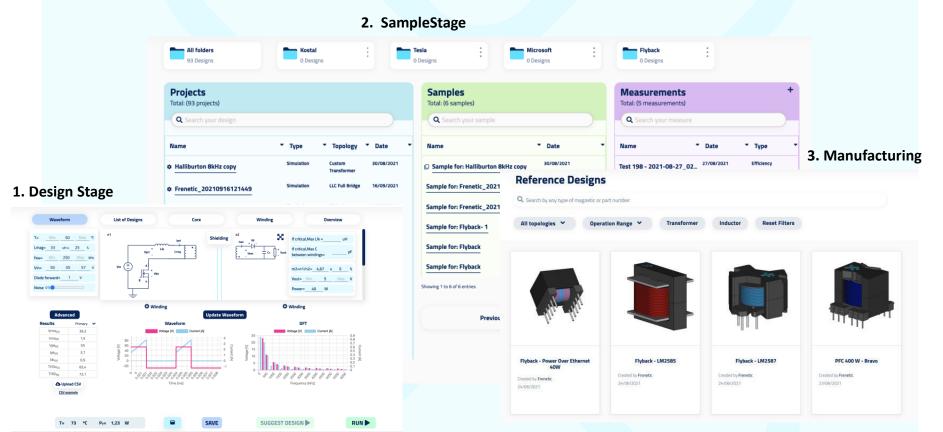




CAE Software FRENETIC (magnetic design for power electronics)



Frenetic platform connects the most accurate designs based on **Artificial Intelligence** (IEEE referenced) with manufacturers in a 100% Online Platform.



Contact details



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