

EnginSoft is a premier consulting firm in the field of Simulation Based Engineering Science (SBES) with a global presence. It was founded in 1984, but its founder and initial employees had been working in SBES since the mid '70s. Throughout its long history it has been at the forefront of technological innovation and remains a catalyst for change in the way SBES and CAE technologies in general are applied to solve even the most complex industrial problems with a high degree of reliability.

Today, EnginSoft is comprised of groups of highly qualified engineers, with expertise in a variety of engineering simulation technologies including FEM Analysis and CFD, working in synergic companies across the globe. We are present in Italy, France, Germany, the UK, Sweden, Turkey and the U.S.A. and have a close partnership with synergetic companies located in Greece, Spain, Israel, Portugal, Brazil, Japan and the U.S.A.

EnginSoft works across a broad range of industries that include the automotive, aerospace, defense, energy, civil engineering, consumer goods and biomechanics industries to help them get the most out of existing engineering simulation technologies.



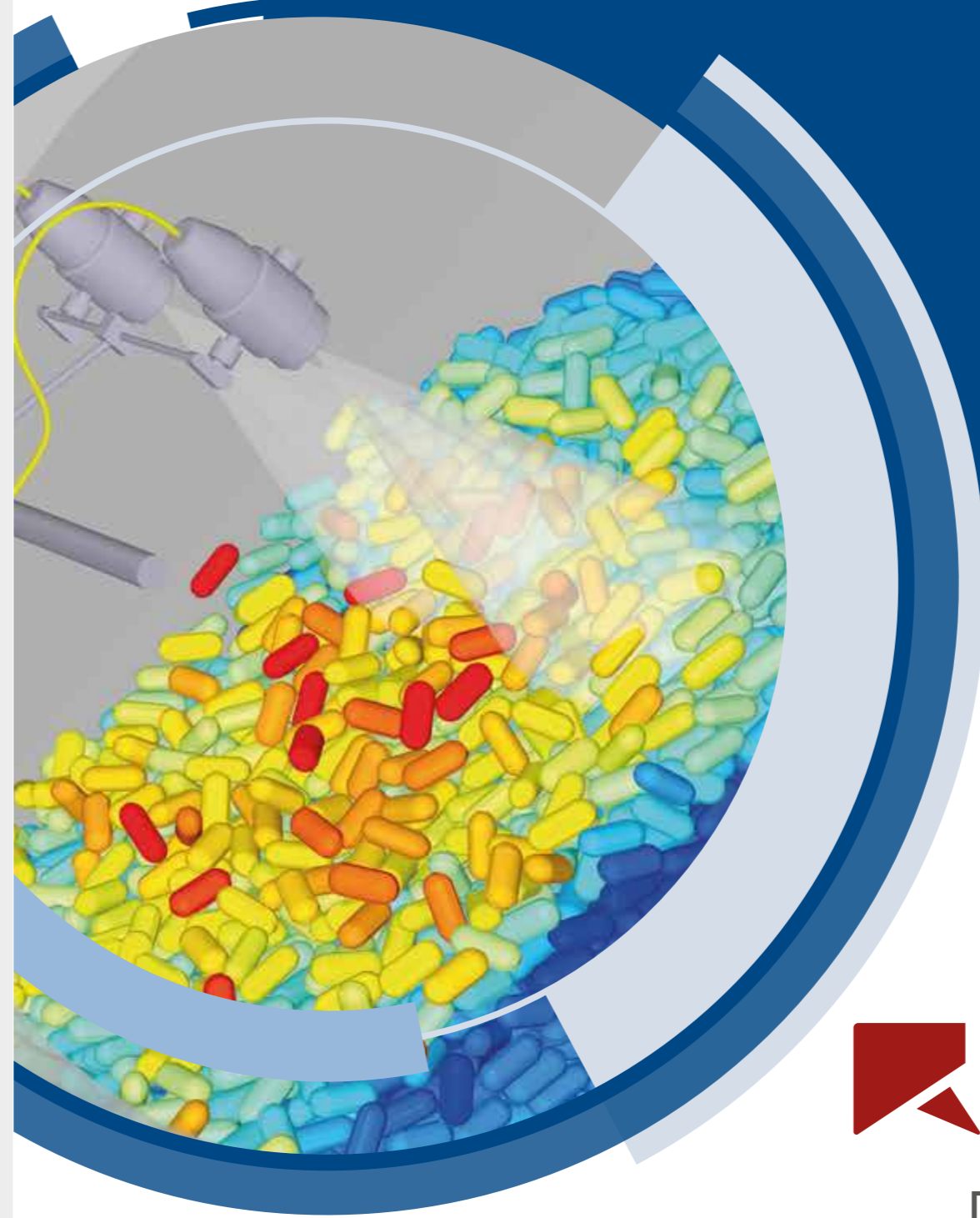
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DATA SHEET



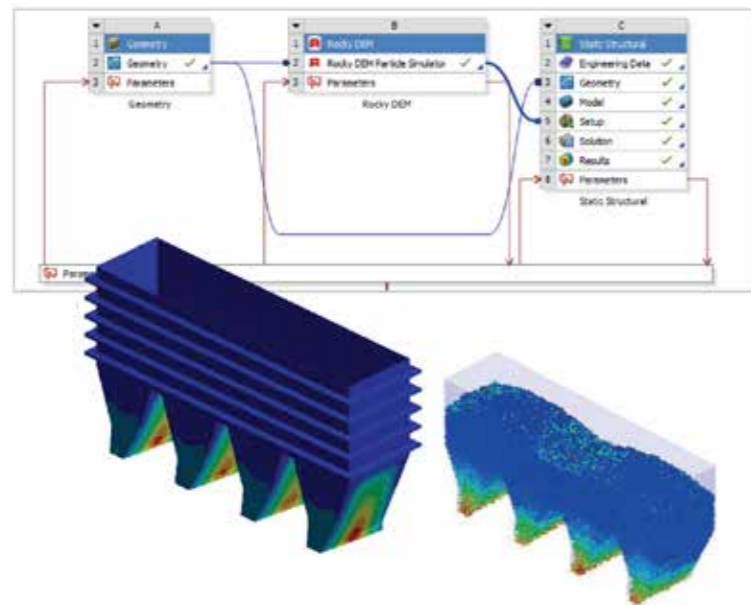
ROCKY

DEM Particle Simulator

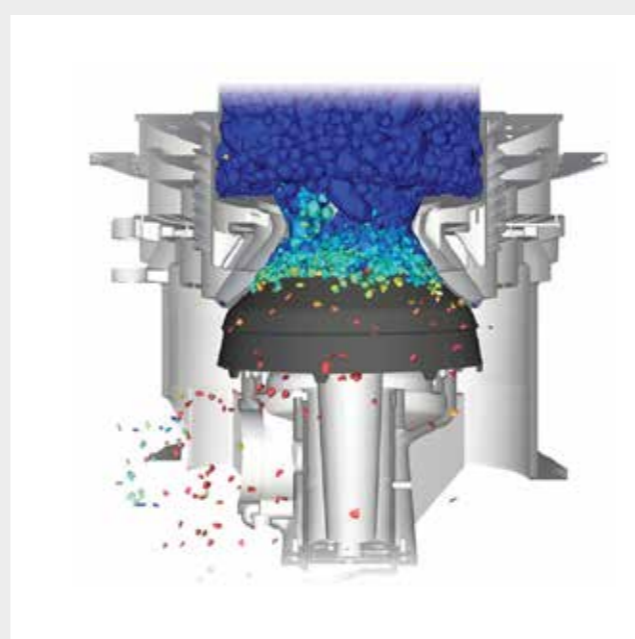
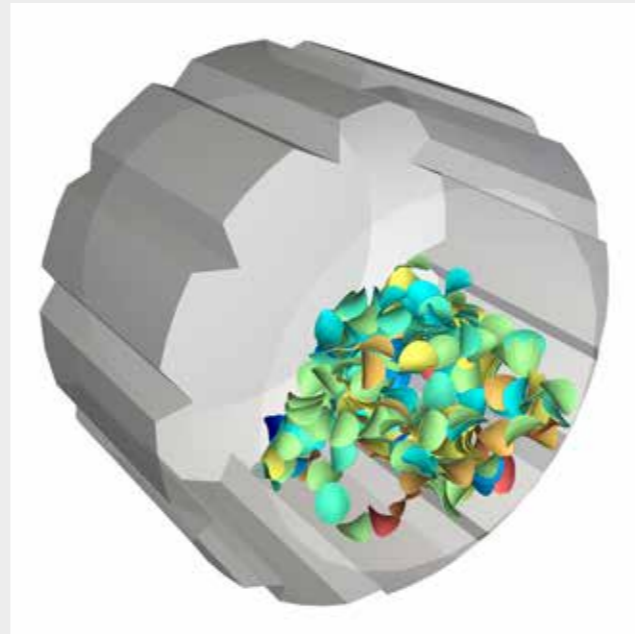
ROCKY is a powerful, 3D Discrete Element Modeling (DEM) software that quickly and accurately simulates the granular flow behavior of different shaped and sized particles within a conveyor chute, mill, or other materials handling equipment.

Manufacturing and mining industries are using ROCKY DEM software to evaluate their bulk material handling systems with the purpose of replicate, virtually, the granular flow behavior quickly, accurately, and with more similarity to real-world conditions than ever before.

Moreover with Multi-GPU solver capabilities ROCKY allows to solve large-scale problem with computational times compatible with industrial needs.



Rocky is a product



## DEM Particle Simulator

### Features

- ✓ Multi GPU Solver capabilities
- ✓ Easy CAD Geometry Import and Simulation Setup
- ✓ Non-Round Particle Shapes - Solid, Shell, Fiber
- ✓ Customized Particle Geometries
- ✓ Flexible particles
- ✓ Breakage capabilities
- ✓ Sticky and Dry Contact Rheologies
- ✓ 3D Surface Wear Modification
- ✓ Energy Spectra analyses and Collision Statistic
- ✓ Multi-body and Free motions within ROCKY
- ✓ Thermal model capabilities
- ✓ Integration with ANSYS, FEM and CFD analysis
- ✓ Integration with optimization tools, DesignXplorer(ANSYS) and modeFRONTIER

### Key Benefits

- ✓ Increases equipment life and capacity
- ✓ Reduces dust, noise, and equipment power
- ✓ Defines particles trajectories
- ✓ Optimizes shape and equipment performance
- ✓ Minimizes wear and maintenance
- ✓ Decreases spillage and product degradation

### Rocky and ANSYS Coupling

Rocky is fully integrated with the ANSYS Workbench suite of products, providing engineers with the ability to perform coupled analysis of particles simulation together with other physics such as structural and fluids. Such coupling can be performed using both 1-way and 2-way approaches, depending upon the nature of the problem to be solved.

- ✓ Working in ANSYS Workbench schematic
- ✓ 1-way coupling with ANSYS Mechanical Static, Dynamic, and Fatigue simulations
- ✓ 1-way and 2-way coupling with ANSYS Fluent
- ✓ A direct geometry link with SpaceClaim
- ✓ Full DesignXplorer Support
- ✓ True Multiple Physics Simulation abilities
- ✓ Pervasive Parametric Support for Input / Output variables