

Our Service



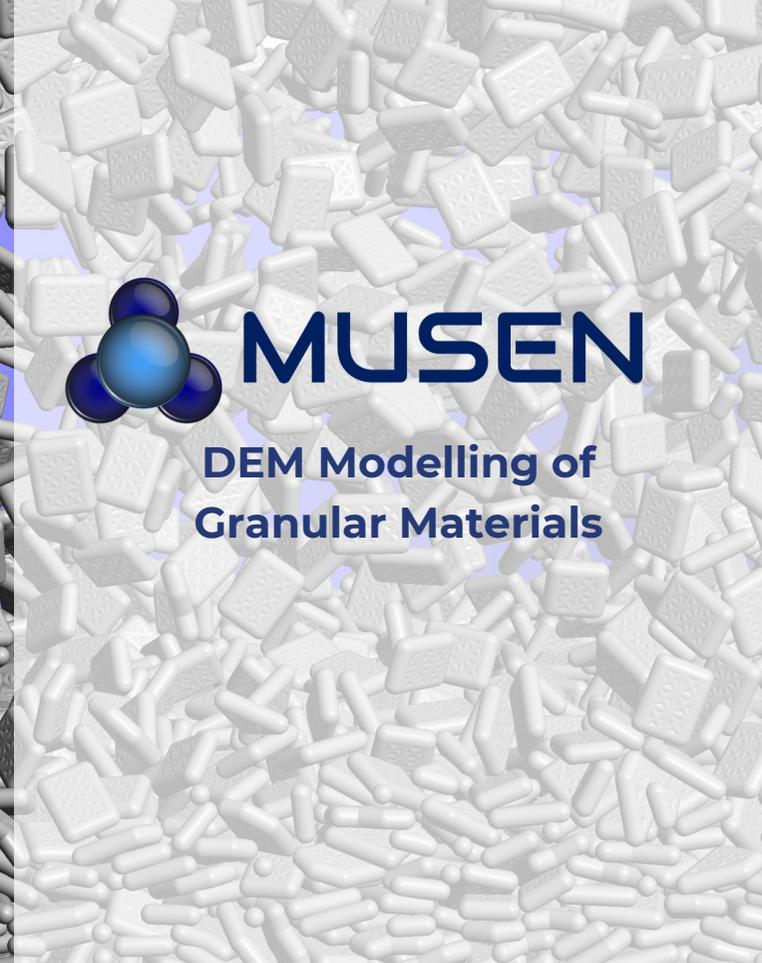
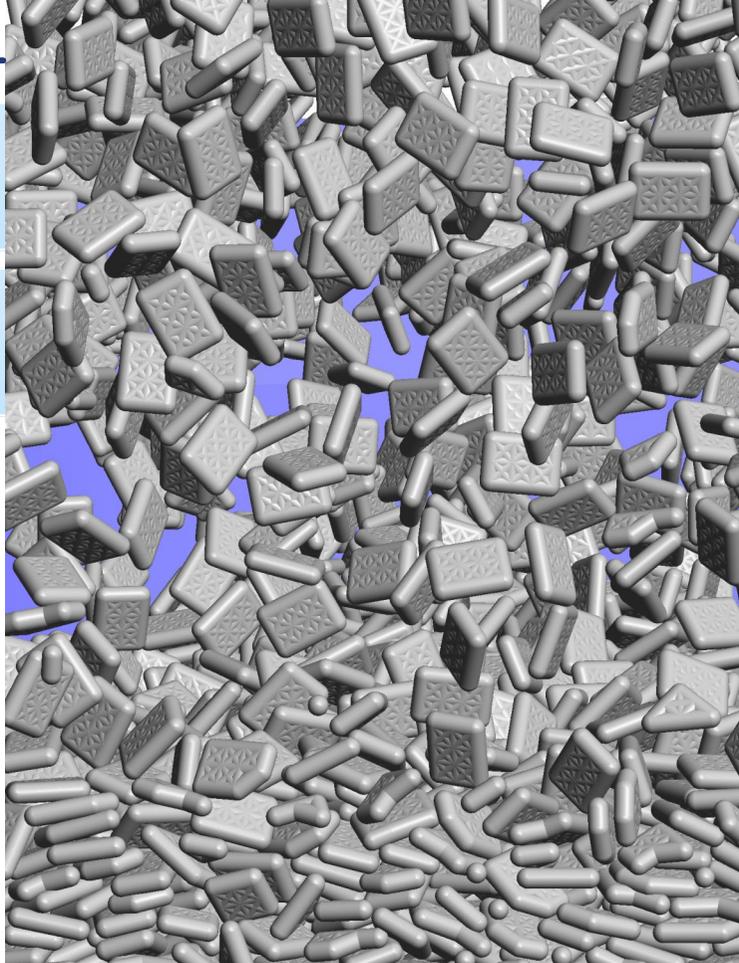
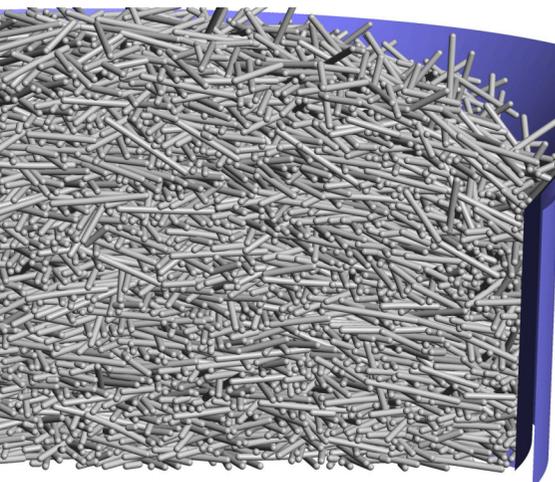
Software & Support

We provide comprehensive service around MUSEN including its deployment, maintenance, customization and extension



Consulting & Training

Do you want to get to know MUSEN and understand how DEM modelling works? We conduct on-site and online workshops and trainings



MUSEN

DEM Modelling of Granular Materials

MUSEN: Open-source
DEM Simulation
System



Investigate with MUSEN:

- Porosity distributions of packages
- Segregation effects
- Breakage and attrition
- Behaviour during compression
- Mixing processes

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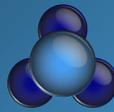
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Software support and
consulting by

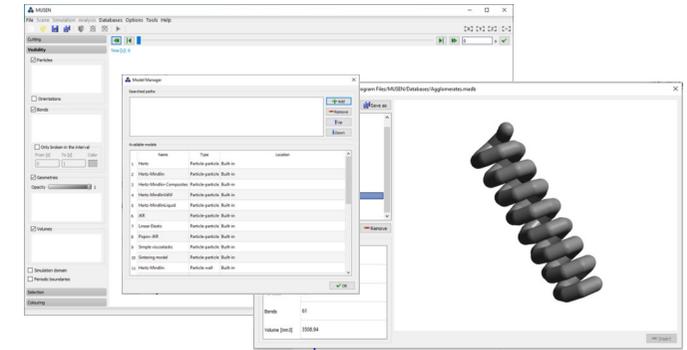
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Process Modelling Experts



Graphical user interface

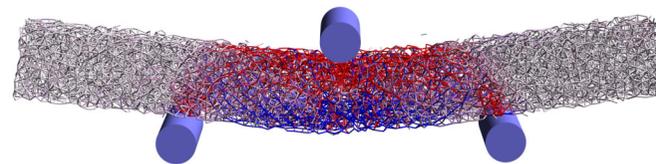
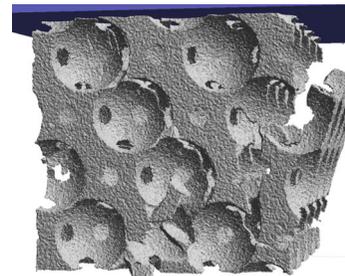
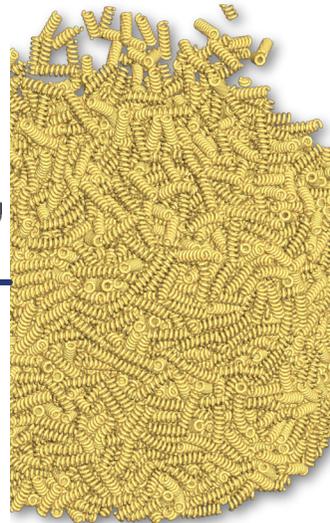
- Creating and customizing simulations with graphical interface
- High-quality 3D visualization
- Headless mode for running on servers



Detailed description of micromechanics:

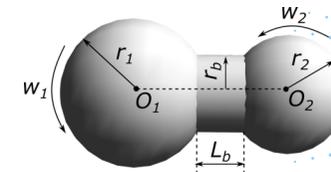
Large library of contact models allows to simulate various material systems

- dry and wet materials
- deformation and breakage behaviour
- irregular shaped objects



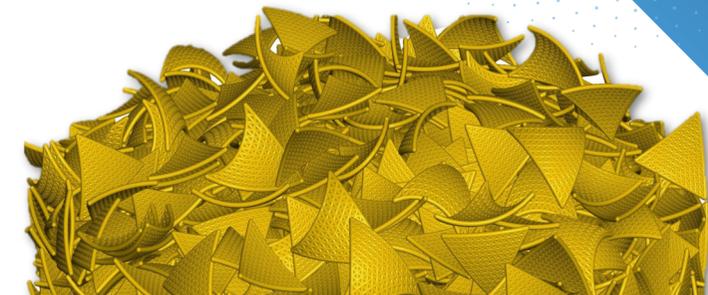
GPU-based calculations

- Order of magnitude faster than conventional CPU calculations
- Suitable for large simulations on personal computer

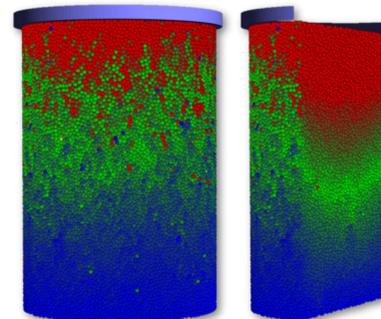


Bonded particle model

- Complex shapes of objects
- Detailed representation of internal structures
- Determination of package properties
- Compression and breakage tests

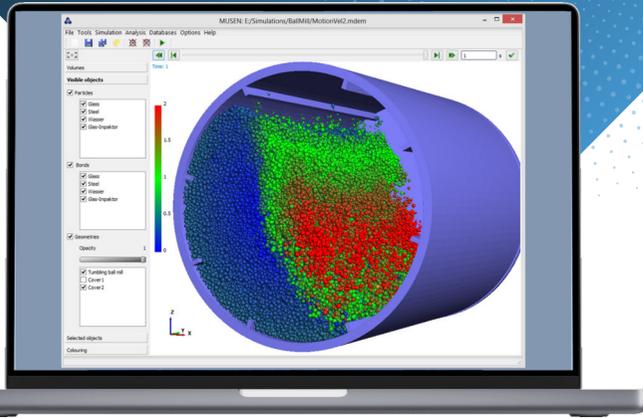


- cohesive particles
- composite materials
- sintering (caking) processes
- heat transfer



Simulation Framework

- Cross-platform: Windows, Linux
- Highly efficient CUDA-based computations
- CPU parallelization for multi-core systems
- Simultaneous usage of CPU and GPU
- Bonded particle model for complex particle shapes
- Easy-to-start thanks to graphical interface
- High-quality visualization
- Easily extendable component-based architecture
- Build-in tools for results analysis
- Open-source



Partners

