ROCKY DEM
Simulation of a Comminution Mill

ROCKY is the powerful 3D DEM program from Granular Dynamics International that produces realistic-looking particles then quickly and accurately simulates their behavior within bulk material handling systems.

From conveyor chutes and vibrating feeders to crushers, mills, and comminution machines, ROCKY can handle all of your simulation needs. ROCKY includes:

- Streamlined calculations and double precision processing
- Million+ particles per simulation using 32-core CPUs
- Realistic-looking particle shapes and behaviors
- Large particle size distributions (greater than 25:1)
- Wet and dry contact rheologies
- Animated & vibrating boundaries
- Export forces data for Finite Element Method (FEM) analysis
- Coupled gas dynamic properties for dust control
- Easy CAD geometry import and simulation setup
- Graphical and at-a-glance wear and power data
- 360° wraparound movie view transitions
- Particle energy spectra
- Periodic boundaries
- Adjust geometries, particles, and simulation time while processing

For more information about ROCKY, contact Granular Dynamics International or visit WWW.GRANULAR-DYNAMICS.COM

ROCKY System Requirements

- 64-bit Windows Operating System (Windows Server, Windows XP, Windows Vista, or Windows 7)
- A video card that supports OpenGL graphics
- 4 GB of free disk space (8 GB recommended)
- 4 GB of RAM (8 GB recommended)
- (Recommended) Quad-core up to 32-core processor
- Two-button mouse with center wheel
- Screen resolution of 1280 x 1024 or higher
- (Optional) Autodesk Inventor

* 32-bit version of ROCKY available on request
ORE COMMINUTION & WEAR
MILLS, CRUSHERS—COMPRESSION, SHEAR

Mill Liner Wear
Over Time

Mill Liner at
Beginning of Life

Mill Liner at
End of Life

Plan View of
Conveyor Belt
Wear Pattern

Boundary Mean
Shear Power

Particle Energy Spectra—Mill

Specific Energy (J/kg)

Power Consumption—Mill

Power (kW)

Time (s)

Laboratory Calibration for
Dry and Wet Particles

PARTICLE FLOW CALIBRATION
CHUTES, BINS, SILOS

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