

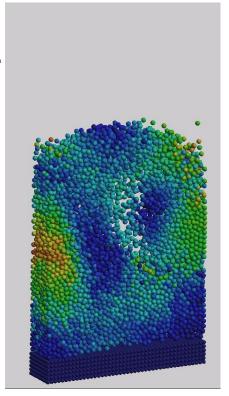
Definition of Use Cases





DEM.M1 - Fluidized bed

- Fluidized bed process very common in pharmaceutical and chemical industries.
- ~ 12000 particles / time-step
- ~ 3000 contacts (p2p and p2w) / time-step.
- 40 000 time-steps.
 - Particle results: mass, volume, velocity vector
 - Contact results: Force vector.

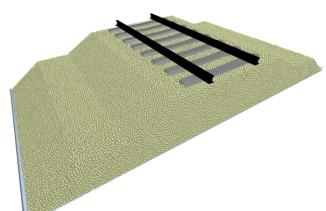






DEM.M2 – Rail Embankment

- Simulations with a high frequency output that cover long time durations are difficult to deal with on a desktop. The rail embankment model selected has the following settings:
 - 207,440 particles per time-step
 - ~560,000 contacts per time-step
 - 9,102 time-steps 100Hz output
 - Particle results:
 - mass, volume,
 - velocity vector, angular velocity vector
 - Contact results:
 - Force vector



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