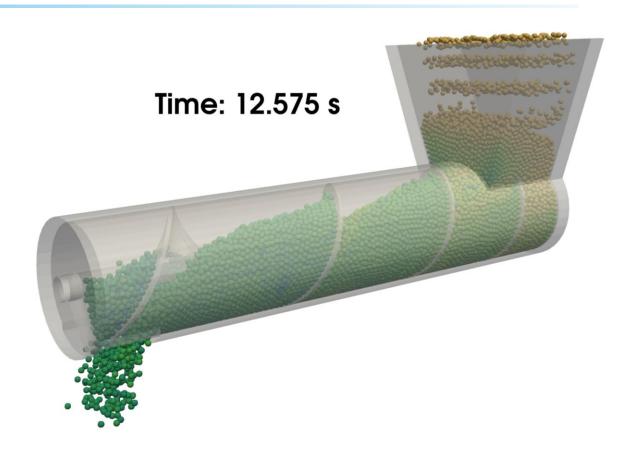
Simulating a screw conveyor





- Geometric data
 - ID: 20 cm
 - Shell length: 1 m
 - Variable pitch
 - Rotation speed: 30 rpm
- Particles
 - 10-mm and 9-mm spheres
 - Density: 2300 kg/m³
 - Friction: 0.3
 - Rolling friction: 0.2
 - Restitution coefficient: 0.8
 - Young's modulus: 1 MPa
 - Shear modulus: 0.8 MPa





Particle insertion

• Rate: 2800 particles/s

Location: above the feeder

Mixture: (5:3 of large and small)

Simulation

• Duration: 20 s

• dt: 2×10⁻⁵ s

• Integration method: Adams-Bashforth 4th order

