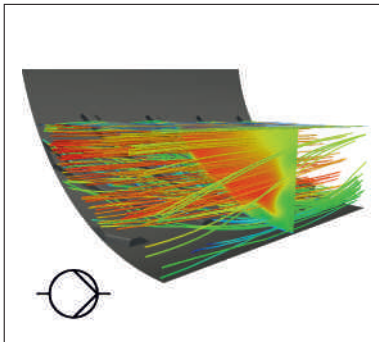
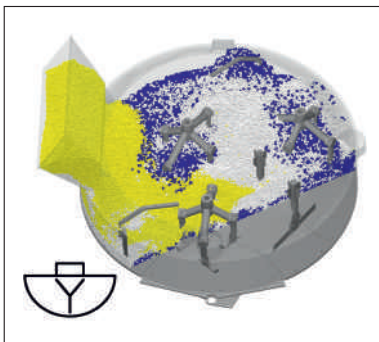


Process Simulation



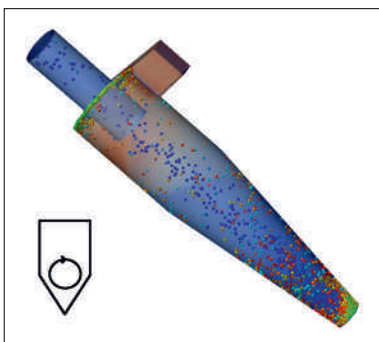
Conveying – Fluid Simulation

- Modelling of the behavior of fluid media
- Analysis of the mixing behavior of viscous materials
- Examination of dispersed particles/bubbles
- Free surface simulations



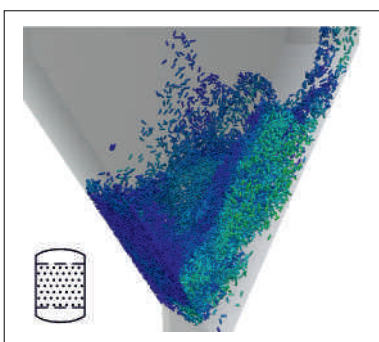
Mixing – Particle Simulation

- Description of the static and dynamic behavior of granular materials
- Influence of the particle shape onto the overall particle flow
- Resolution of particle collisions as well as particle breakage



Separation – Coupling Approaches

- Modelling of special physical properties of dispersed flows
- Analysis of mixing behavior and separation processes
- Representation of particle laden and aerated fluid flows
- Combination of multiple simulation approaches into one common model



Transfer – Multi Scale Simulations

- Integration of additional models representing relevant subprocesses (e.g. drying or catalytic reactions)
- High-resolution calculations of thermodynamic processes
- Modelling of interphase mass and energy transport



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