Technalysis ®

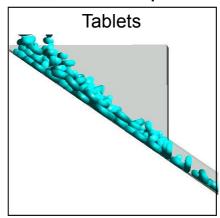
PASSAGE®/DEM Software

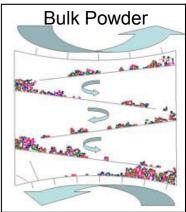
OVERVIEW

PASSAGE®/DEM software is for predicting the flow particles under a variety of forces while traveling in electrostatic, magnetic or gravitational field.

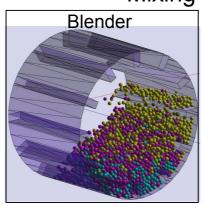
- · Particles can be of
 - different shape and size with given distributions,
 - solid, liquid, and gas with surface tension.
 - · charged Individually,
- Particles can grow, shrink, deform, divide, join other particles and be charged,
- · Capabilities include,
 - Full coupling of Particle and Flow Models for Multi-Phase Flows,
 - Coupling with flow, structure, magnetic and electric Fields
 - Multiple Sliding and Overset Grid Algorithms for stationary or moving boundary surfaces.

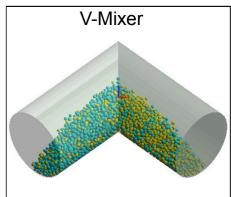
Transport of Particles





Mixing of Particles





INDUSTRIES

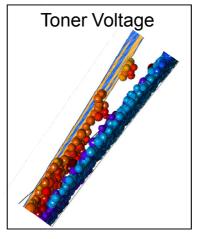
Product:

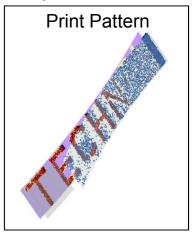
- Digital Imaging, Computers and Printers
- Construction, Mining and Agricultural Machinery

Process:

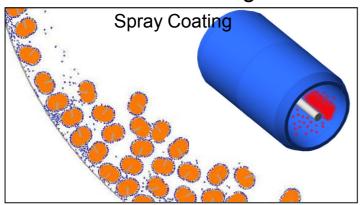
- Pharmaceutical and Chemical
- Food
- Bulk Powder
- Materials
- Mining, Minerals
- Metals

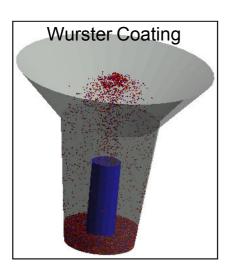
Printing of Toners- Development Process



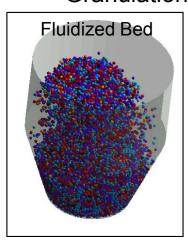


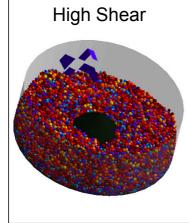
Tablet Coating





Granulation of Tablets





FEATURES

- Coupled equations of motion, transport of particle properties, electrostatic and magnetic fields, are calculated.
- Structural deformations of boundaries such as rollers, belts driving the particles are also included in the models.
- A user friendly pre- and post-processor is provided to input the geometry of the boundaries and the particles, as well as the display of the motion and other properties of the particles.
- Graphical user interface enables review of complex unsteady flow fields in detail.
- PASSAGE®/DEM runs on PC based workstations
- PASSAGE®/DEM software was developed and is offered exclusively by Technalysis, Inc..
- Software has been validated and utilized for the design of many real world problems. It is supported by numerous case studies.
- •Technalysis provides design experience complementing the software.

BENEFITS

- •PASSAGE®/DEM software can minimize the cost and time of traditional prototype building and testing, thus shortening product design cycles.
- Designs can be analyzed and modified on the computer before expensive and time consuming design decisions are finalized.
- Technalysis offers software customization of PASSAGE®/DEM software can be customized to meet specific customer needs.
- Designs can be analyzed and modified on the computer before prototypes are built or decisions are finalized when design changes become costly and time consuming,
- •Technalysis has extensive experience since 1985 for incorporating simulation tools to design process.