

PRESS RELEASE

July 2007

DEM Solutions to launch EDEM 1.3 at ICSE 2007

DEM Solutions, a leading developer of discrete element modeling software solutions for the pharmaceutical sector, is to launch the latest version of its market leading EDEM™ software at ICSE 2007 in Milan, Italy (2nd – 4th October 2007).

EDEM is a unique simulation tool for predicting the flow of particulates within complex equipment. Running on desktop computers the software can model a wide range of particulate solids handling and processing operations tracking the movement and forces acting on each particle. This enables engineers to investigate the effect of product characteristics and operating conditions without the need to build costly prototypes. An extensive suite of analysis and visualisation tools is provided to enable engineers to “look inside” processes and extract information which would be impossible to obtain from experimentation.

First launched in 2005, EDEM technology is now deployed in the design and improvement of a broad range of pharmaceutical manufacturing processes and solid dosage delivery systems including the production of active pharmaceutical ingredients (API's), mixing of API's with carriers, die filling, tablet coating, pill handling and packaging, and drug inhalation devices.

John Favier, CEO of DEM Solutions, commented,

“We are delighted to be showcasing EDEM 1.3 at ICSE 2007. Our software has been specifically designed to help troubleshoot critical operational problems commonly encountered in pharmaceutical manufacturing such as blockages, poor mixing, uneven coating, non-uniform filling and pill

breakage. EDEM is also an important part of the growing application of physics-based simulation technology used by the R&D groups within the industry leaders and is delivering major cost savings by reducing experimental prototypes, lowering process development costs and enhancing the 'quality by design' knowledge,."

EDEM has the unique ability to couple with other CAE tools, which gives the software the power to simulate the complicated interactions between particles and other materials and forces. These CAE couplings include fluid dynamics, electrical and magnetic, chemical kinetics and rigid body dynamics.

DEM Solutions will be demonstrating EDEM 1.3 in the IT Zone, stand no 16IT01, Hall 16.

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About DEM Solutions

DEM Solutions is a leader in discrete element modeling software. Its EDEM software is used to simulate particulate handling, processing and manufacturing operations in pharmaceutical, chemical, mineral and materials processing as well as oil & gas production, agricultural and construction and geo-technical engineering. EDEM provides high-resolution information on particle kinematics, momentum, heat and mass transfer in particulate flows. DEM Solutions' consultancy team works with customers to solve design and production problems by simulating and analyzing the processes at the particle scale. DEM Solutions' corporate headquarters are located in Edinburgh, UK with offices in Lebanon, NH, USA. For more information: www.dem-solutions.com

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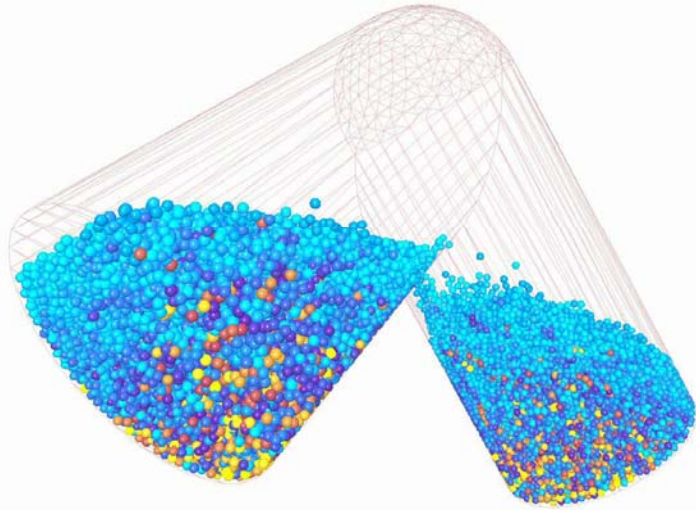
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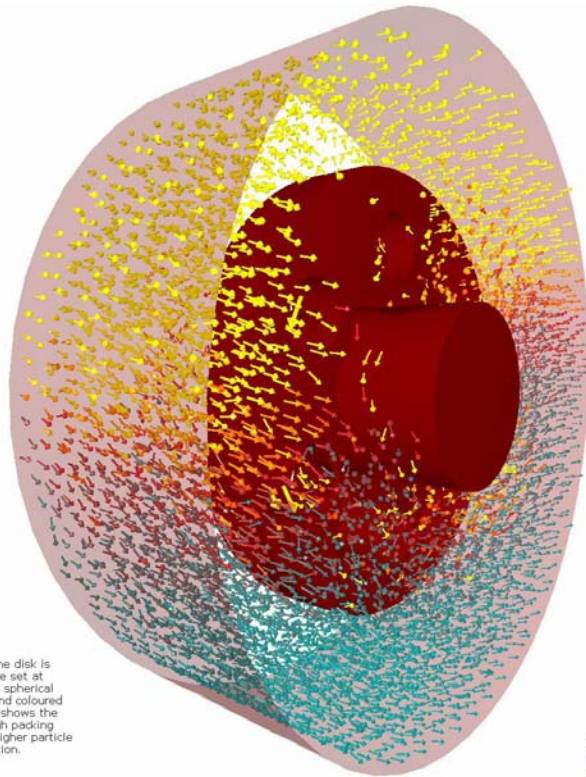
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The V-blender is a way of mixing granular materials to achieve a homogeneous mixture. This simulation contains 24,000 single sphere particles which have been coloured by force.



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This is a ball mill in operation. One disk is shown and periodic boundaries are set at the axis. The grinding medium is spherical particles (displayed as vectors) and coloured by velocity. The base of the mill shows the particles at low velocities and high packing fraction, the top of the mill has higher particle velocities at a lower packing fraction.

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