Press release

Innovation Award 2008 – FRITSCH. ONE STEP AHEAD.

Again FRITSCH was recognized with the Innovation Award: Already in 2007 the FRITSCH Planetary Ball Mill PULVERISETTE 7 *premium line* was successful in the nano technology category. This year the jury honoured the FRITSCH Laser Particle Sizer ANALYSETTE 22 NanoTec.

What are the most interesting and most innovative industry solutions? This question was explored these past weeks by the INDUSTRIEPREIS 2008 (Innovation Award) of the Initiative Mittelstand (initiative of medium sized businesses). A record number of more than 600 applications competed and on April 22nd 2008, the jury announced the industry award 2008 winners: In the category “optical technologies” FRITSCH – Milling and Sizing, was honoured for the Laser Particle Sizer ANALYSETTE 22. Therefore, FRITSCH continues to set standards in the area of innovations.

The top-model of the ANALYSETTE 22-series, the ANALYSETTE 22 NanoTec, convinced the independent jury consisting of professors, scientists, trade journalists and industry experts. They judged the degree of innovation and the economic significance of the products and innovations from the different areas like for example: laser technology, micro technology, optical instrumentation, environmental technology, electronic engineering, surface technology or research.

FRITSCH has patented measurement through laser diffraction in a convergent laser beam and therefore the infinitely adjustable adaptation of the measurement range, as well as a previously unachieved number of measurement channels. With a measurement range from 10 nm to 2000 µm, the ANALYSETTE 22 NanoTec offers true entry into the nano range. This is achieved through the use of a second laser beam that is directed at the sample from behind, allowing for detection of the back-scattering light.

The patented capability to move the measurement cell within the beam path of the optical system during the measurement also results in a very high number of effective detection channels, which can be over 500 for the NanoTec model, which leads to a correspondingly high number of particle size classes and therefore a very high resolution. The special shape of the detector combined with intelligent analysis software also allows information to be obtained about the particle shape.

The Laser Particle Sizer ANALYSETTE 22 NanoTec is an instrument with universal applications for the determination of particle size distributions and particle shape detection of solids, dry or in suspension, and of emulsions. It is used in research and development, as well as in quality control and process control. ANALYSETTE 22 is the only instrument in the world with which particle size distribution and the particle shape can be analysed in a single measurement.

Laser diffraction offers important advantages compared to the "classic" measurement methods of sieving, sedimentation or image analysis such as short analysis times, good reproducibility and precision, simple calibration, large measurement range and high flexibility.

Consequently, it has now established itself worldwide and won out over the typical methods. Through combination of corresponding components, you can configure a measurement system that is precisely adapted to your needs, with reliability and efficiency guaranteed by FRITSCH as a specialist in particle measurement technology.

FRITSCH Laser Particle Sizer: Sizing with competence.

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please send author's copy

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