



# ACCURATE TO THE NANOMETER!

Discover the new dimension of the FRITSCH Laser Particle Size Measurement. The particle size measurement based on Dynamic Light Scattering (DLS) with the new ANALYSETTE 12 DynaSizer is effective, user-friendly and accurate to the nanometer.

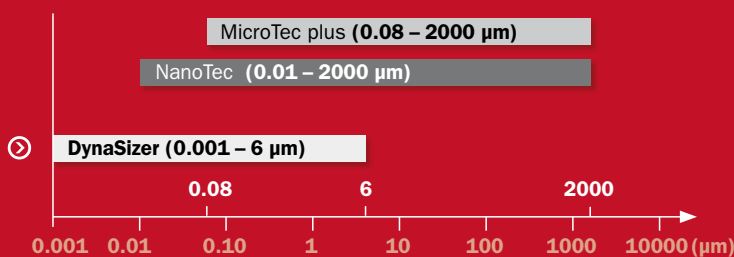


## ANALYSETTE 12 DynaSizer

with Dynamic Light Scattering



Concept and design: Zink & Kraemer AG, Trier - Cologne, www.zk.de



A direct comparison of the measuring ranges of the ANALYSETTE 22 MicroTec plus, ANALYSETTE 22 NanoTec and the new ANALYSETTE 12 DynaSizer.

Fritsch GmbH  
Milling and Sizing  
Industriestrasse 8  
55743 Idar-Oberstein  
Germany  
Phone +49 67 84 70 0  
Fax +49 67 84 70 11  
info@fritsch.de  
www.fritsch.de

Discover the complete FRITSCH Laser Particle Sizer range at

[www.fritsch-laser.com](http://www.fritsch-laser.com)

For all questions regarding FRITSCH laser particle sizing, please feel free to contact our expert Dr. Günther Crolly at

+49 67 84 70 138 · [crolly@fritsch-laser.com](mailto:crolly@fritsch-laser.com)

Technical specifications are subject to change without notice.





FRITSCH is also in the field of laser particle sizing always one step ahead. The new ANALYSETTE 12 DynaSizer uses the Dynamic Light Scattering as a measuring method and therefore enables the measurement of particle size distributions between 1 and 6000 nm. This new ANALYSETTE 12 DynaSizer extends the FRITSCH-product range in the field of laser particle sizing down to the lower nano range. Fast, accurate and simple! And this with smallest sample quantities and in an extreme wide concentration-range of 0.0003 % up to 40 %.

**FRITSCH.**  
**ONE STEP AHEAD.**

⊗ **Smallest sample volumes**

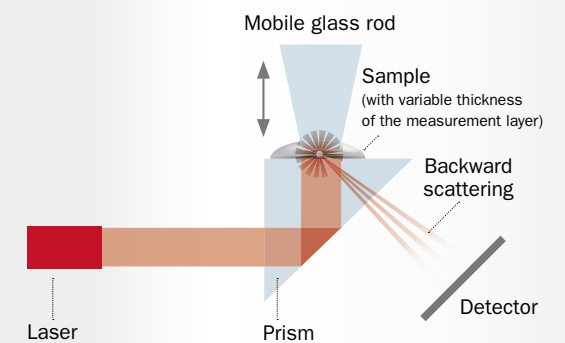
For measurements with the **ANALYSETTE 12 DynaSizer** only smallest sample volumes of < 50 µl are necessary, which are applied directly onto the optical measuring cell inside the instrument; making disposables such as cuvettes or similar obsolete. Due to the intelligent design, cleaning is as easy as a child's play.

⊗ **Measurement of ultra thin layers**

With the **ANALYSETTE 12 DynaSizer** the thickness of the measurement layer can be variably adjusted. This enables measurements of even extremely thin layers and prevents unwanted multi-scattering effects. It also facilitates the measurement of highly concentrated suspensions as well as in opaque media.

⊗ **Variable laser power**

The power of the laser of the **ANALYSETTE 12 DynaSizer** is variably adjustable and allows measurements of very dark samples or high particle concentrations of up to 40 wt.%.



Measuring system ANALYSETTE 22 DynaSizer: Particle size measurement with Dynamic Light Scattering

## The ANALYSETTE 12 DynaSizer – at a glance

- ⊗ Particle size measurement via dynamic light scattering at a constant scattering angle of 135°
- ⊗ Measuring range of 1 to 6000 nm
- ⊗ Extremely easy handling
- ⊗ Smallest sample quantities < 50 µl
- ⊗ Simple sample feeding directly into the instrument
- ⊗ Ultra-Thin Layer – an extremely thin measurement layer avoids multiple scatterings
- ⊗ Particle concentrations from 0.0003 % up to 40 %
- ⊗ Dark dispersions like ink or oil are measurable without any difficulties
- ⊗ Limitation of laser-induced-temperature-effects
- ⊗ Sample temperature selectable between 15°C and 70°C
- ⊗ Variable laser intensity according to the dispersion concentration
- ⊗ ISO 13321/21 CFR part 11
- ⊗ Unique algorithm for particle size calculation