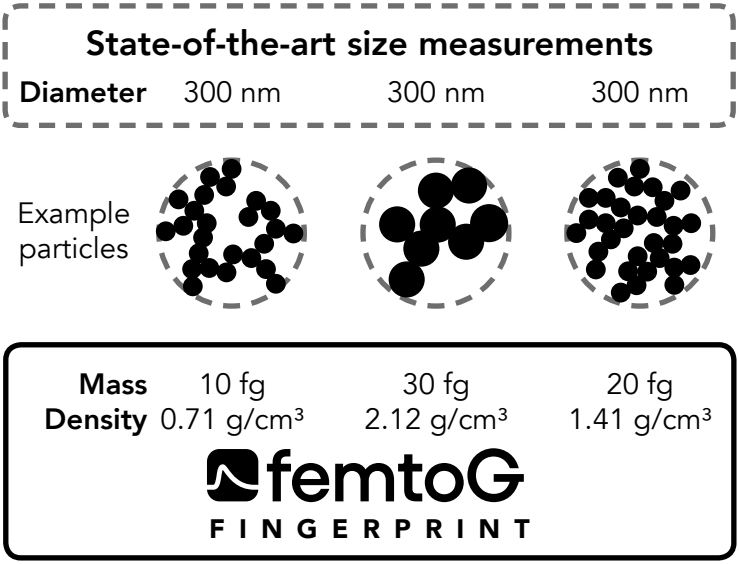

femtoG
Unveiling structure

Nanopowder characterization

Nanopowders have unique properties due to their small diameter, but: *What is the diameter for non-spherical particles?*

Different definitions and measurement concepts are widely used. The lack of one standard metric that is fast to measure, universally agreed upon and traceable to fundamental properties is a limiting factor for product quality monitoring, the development of new materials and the creation of a market.



What makes femtoG different?

Instead of solely focusing on the diameter, femtoG puts emphasis on the particle mass - a fundamental property independent of the used analysis method.

Using a novel aerosol-based measurement approach, isolated aggregates are quantified in mass and diameter through the entire particle distribution. femtoG distinguished particles by their mass and exploits the density to assess their structural properties. In the end, the most expressive key numbers representing the material are determined - as individual as a fingerprint.

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By using latest aerosol instrumentation to measure the particle mass and size simultaneously femtoG's unique approach has many advantages over current methods:

Fast analysis

Real-time analysis of the entire particle distribution in less than 10 minutes.

Robust statistics

One femtoG scan can analyze a few million particles at once.

Threefold data

femtoG measures particle mass, size, and density simultaneously at unprecedented resolution.

Live structure

The femtoG system can be directly connected to a production line, monitoring particle structure online.

femtoG's offer

Currently, we offer our analysis offline as a regular laboratory analysis and online as process monitoring at production lines.

Laboratory analysis

Offline analysis of an individual sample (around 50g needed, powder or beaded) at femtoG. Individual sample report featuring mass, density, and size distribution details (including data interpretation upon delivery).

Process monitoring

Continuous online monitoring of the production process at a time resolution of 10 minutes. This methodology is currently under development, femtoG welcomes industry partners for the planning of on site pilots.

Consulting

Make use of the experience of femtoG in the aerosol sciences in the data interpretation as well as in the planning and execution of custom research projects.

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