



Product News

## **Fritsch: Fast Analysis of Particle Shape and Size of Powders, Bulk Solids, Suspensions and Emulsions**

Edited by on 13. Feb. 2019  
*Idar-Oberstein, Germany -*

The measuring time depending on the sample quantity, is under 5 minutes. And the result is available immediately. Advantages of the system are great flexibility for different measurement tasks for particle sizes of 20 µm – 20 mm in quality control, research and laboratory – and it is a very easy and cost-effective alternative to sieving.

**Efficient Dry Measurement of Powders and Bulk Solids**



Particle Sizer Analysette 28 ImageSizer  
for dry measurement of powders and  
bulk solids-

The Analysette 28 ImageSizer is the ideally suited for fast analysis of particle shape and size of dry, free-flowing materials. Via the optical analysis of the particle shape and particle size, users can identify damaged particles, contaminates, agglomerates or oversized and undersized particles accurately and fast and view them completely uncomplicated in single images.

#### **Advantages**

- Extra wide measuring range of 20 µm – 20 mm, individually adjustable
- Three telecentric lenses are available
- Up to 75 images per second
- Agglomerates are preserved
- Practical Clean Design of the measuring chamber
- Optimal number of particles due to automatic adjustment of the feeder
- Easy handling

### **Easy Wet Measurement of Suspensions and Emulsions**



Particle Sizer Analysette 28 ImageSizer  
for wet measurement of suspensions  
and emulsions.

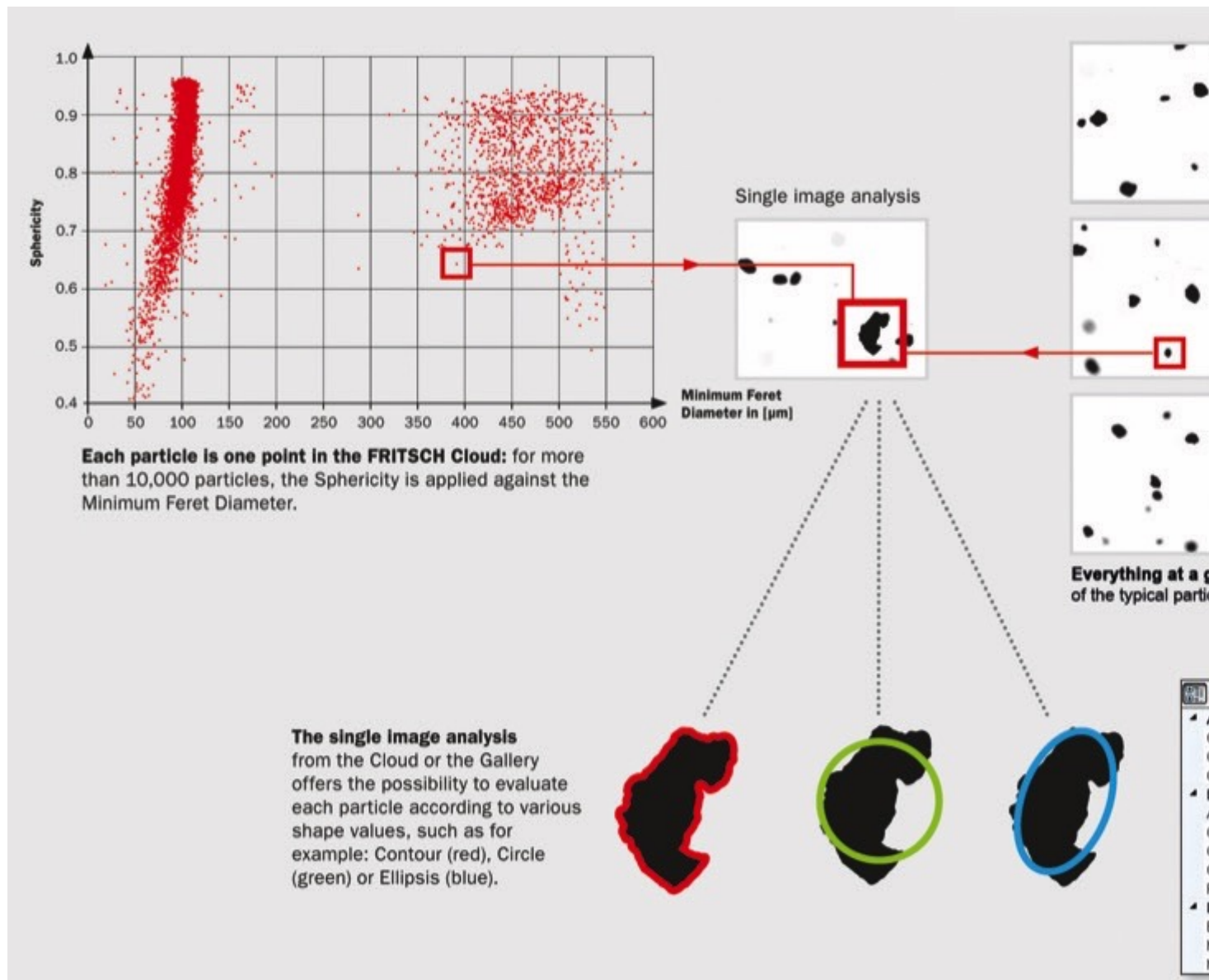
In combination with the corresponding wet dispersion unit the Analysette 28 ImageSizer allows measurement of particle shape and size of suspensions and emulsions. Wet dispersion is particularly suitable for fine particles, poorly flowing,

fine-agglomerating or sticky materials, which do not react in water or other liquids.

#### Advantages

- Extra wide measuring range of 20  $\mu\text{m}$  – 2.8 mm
- Strong, freely adjustable ultrasonic power for deagglomeration
- Extremely quiet dispersion with strong pumping power
- Benzine, alcohol and many organic solvents can also be used as suspension liquid as a standard feature
- Automatic rinsing cycle
- No dead space in measuring and rinsing circulation system
- Fast and consistent cleaning

#### Simple and fast Evaluation via Cloud and Gallery



In the gallery Individual particle images can be directly selected for single image analysis.

Evaluation of the measuring results is simple with the Analysette 28 ImageSizer. The evaluation software ISS displays each recorded particle clearly as a data point in the immediately available FRITSCH Cloud as well as in the FRITSCH Gallery. Users can freely choose which the statement they are interested in: for example the sphericity in regards to the minimum Feret diameter, the aspect ratio, applied on the porosity, or the convexity as a function of the particle cross section. Or display the particle size distribution as a cumulative curve, as a bar chart or in a table form.

### **Each Particle can be clicked individually**

The state-of-the-art of uncomplicated evaluation: For fast single image viewing, each individual particle can be opened directly with a mouse click from the clearly arranged FRITSCH Cloud. The really important information the user about the morphology will be shown by the position of the data point in the Cloud. Without time-consuming search, individually selected particles can immediately analyse, evaluate and delete. All available size and shape parameters are automatically displayed.

### **Everything at a Glance**

To get a quick overview of the typical particle shape of the analysed sample, view and evaluate all the images in a gallery which is integrated directly into the software for easy use. Individual particle images can be directly selected for single image analysis. *Visit FRITSCH at POWTECH 2019, Hall 2, Stand 227*