

## AWK 3D

Instrument for measurement of particle size distribution and particle shape  
Measuring range 0,2 mm - 31,5 mm

### Intended use:

- \*particle quantity and particle size three-dimensional measurements, particle shape measurement
- \*for dry and non-bonding particles
- \*particle measurements in the air
- \*measurements of mineral raw materials (fine aggregates, gravel, coarse sand), granulated food, fertilizers and seeds
- \*specific surface measurements

### Measuring method:

- \*doubled system of optoelectronic measurement employing light scattering phenomenon, third dimension measurement based on the number of scans
- \*preliminary measurement within 4096 dimensional classes
- \*calibrated measurement within 256 equally sized dimensional classes or 11 unrestricted, user defined classes for three dimensions
- \*full simulation of sieve analysis according to Elsieve method (patent no. 205738)
- \*coincidence analysis
- \*shape analysis in accordance with the Zingg's classification under resolution of above 2 million of different proportions of three dimensions
- \*500 kHz frequency of particle scanning
- \*instrument designed in accordance with patent no. 204259

### Specification:

- \*two measuring sensors with infrared diode or laser diode
- \*two replaceable feeders with a shaker chute for spherical-shaped and crushed materials
- \*aerodynamic support from a fan equipped with an air filter
- \*automatic dosing system
- \*electronic measuring system
- \*the probe and feeders made of stainless steel
- \*notebook computer with dedicated software
- \*unit weight 22 kg

### We provide:

- \*training
- \*technical support
- \*validation
- \*warranty and post-warranty technical service
- \*a software tool adapted to user needs and making possible to optimize the tested process

