

Zephyr ESR2

THE SIEVING MEASUREMENT BY IMAGING
ANALYSIS : FAST AND ACCURATE, INCLUDING
PERFECT CORRELATION WITH STANDARD
ASTM OR ISO SIEVING METHODS.

-  Sieve correlated measurement
-  Particle size
-  Particle shape
-  Dry application



- Sieve-correlated measurement
- Particle size
- Particle shape
- Dry analyses from 30µm to 30mm

Zephyr ESR2

The sieving measurement by imaging analysis: fast and accurate, including perfect correlation with standard ASTM or ISO sieving methods.



How it works

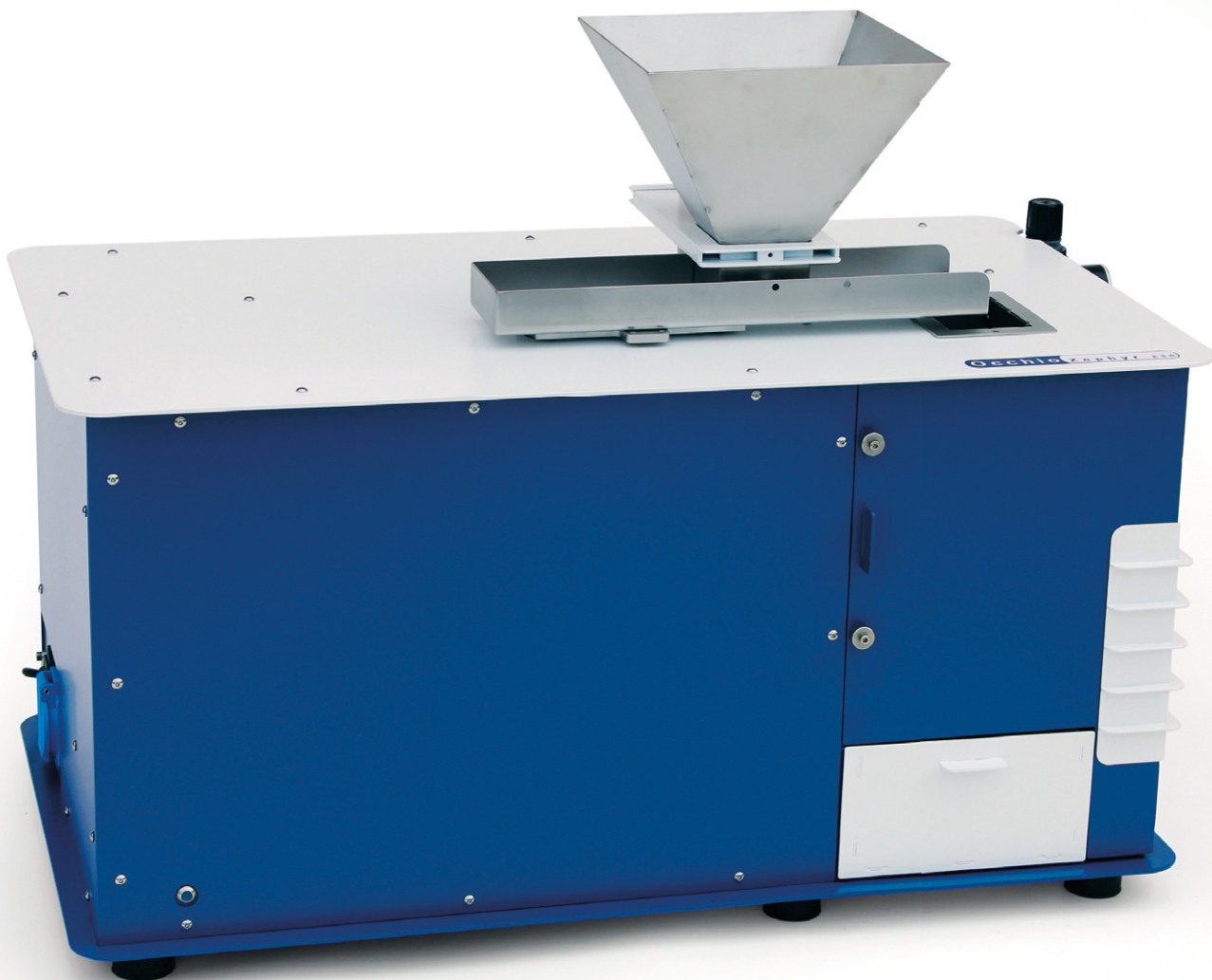
Based upon a combination of mechanical dispersion and gravity phenomena, the Occhio Zephyr ESR2 provides a fast and accurate size and shape analysis of sieveable powders. The instrument combines a high quality imaging system with a robust mechanical design, achieving quality and production control requirement.



Why chose Occhio Zephyr ESR2

- Assure the continuity with standard sieve methods.
- Improve the quality of your production by reducing the analysis duration.
- Faster and better results storage.
- Innovative software platform.
- Few consumables.
- Training and maintenance support.





Key points

Polyvalent instrument able to analyze different types of samples, powders, granules, pellets, stones, rows materials.

A simple procedure allows fixing analysis duration and cleaning time, just one click and the measurement starts. Within a few seconds, results are displayed and the report is stored or printed. Zephyr ESR2 is able to analyze a large quantity of samples in a short time.

Identifying sieve analysis as the standard measurement method to compute particle size distribution, Occhio Zephyr ESR2 is able to correlate the most efficient particle size distribution obtained by standard sieve method (according with ASTM or ISO procedure).

All Occhio instruments are based on specific optical technology, use high quality lenses with no any distortions, and are installed in a precise, robust mechanical system suitable for industrial working conditions.



Acquisition and statistic software

The Callisto software ensures accurate particles characterization with an automatic procedure including powder dispersion, analysis, data displays along with statistics and report generation.

- Calibration procedure of each instrument
- Share complete results with colleagues or clients who are connected to your network
- Compare different measurements
- Summarize measured parameters of hundreds of thousands of particles with the click of a mouse
- Print the report you have designed to fulfill your quality policy requirement
- Correlate with other measurement methods, such as sieve or laser methods
- CFR21 part 11 compliant



Technical specifications

Dimensions and weight	<i>Length</i>	840 mm
	<i>Width</i>	405 mm
	<i>Height</i>	650 mm
	<i>Weight</i>	57 kg
Working conditions	<i>Working temperature</i>	-5°C to 25°C non-condensing
	<i>Power Supply</i>	220 Vac 50Hz or 110 Vac 60Hz (has to be specified on the order)
Computer <i>Supplied by OCCHIO - minimum specification</i>	<i>Processor</i>	Intel Core i7 i7 5820@3.3GHz
	<i>Ram</i>	32GB DDR4 2.133MHz
	<i>Hard Disk</i>	1TMB + SSD256GB
	<i>Display</i>	LCD, FullHD, 21.5"
	<i>Mouse, keyboard</i>	USB (English)
	<i>Operating system</i>	Windows 7pro or 10 pro 64bit
Optics and imaging device	<i>Sample particles size range</i>	From 30µm to 30mm*
	<i>Sample dispersion</i>	*according with sample property Dry method, vibrating hopper combined with gravity
	<i>Sample analysis</i>	Size distribution cumulative and proportional curve Quantity distribution or volume weighted distribution Shape characterization
	<i>Standard Operating Procedure includes</i>	Background calibration Light intensity calibration Sieve correlation procedure Particle database creation Image storage Filtering procedure Statistics display (size, shape, counting, visualizing) Automatic report generation

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