



**NEW**

# SOLUTIONS IN DYNAMIC IMAGE ANALYSIS



**PARTICLE  
SIZE & SHAPE**



**3D ANALYSIS**



**DUAL CAMERA  
TECHNOLOGY**



**AI SUPPORTED  
PARTICLE CLASSIFICATION**

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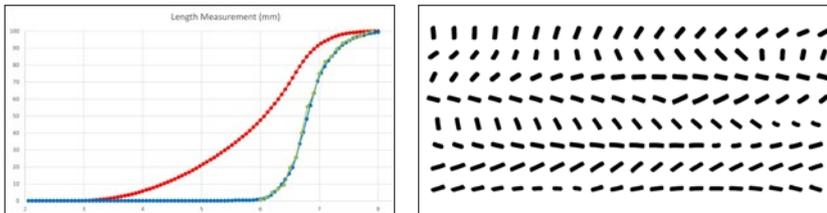
## CAMSIZER 3D

HIGH-END ANALYZER WITH PATENTED TRACKING TECHNOLOGY

The **CAMSIZER 3D** is the most powerful solution for analyzing free-flowing bulk solids. It combines **high-precision particle size analysis** with a wide measuring range and dual-camera technology, and adds **3D particle tracking** for unmatched accuracy in determining shape, length, width, and thickness.

Unlike conventional 2D systems, **CAMSIZER 3D** eliminates orientation bias. For example, elongated extrudates that appear “too short” in 2D mode are measured at their **true length** in 3D mode—similar to using a caliper, but at a rate of **thousands of particles per minute**.

New **AI-based particle classification** enables automated filtering of image datasets for precise analysis of different particle types.



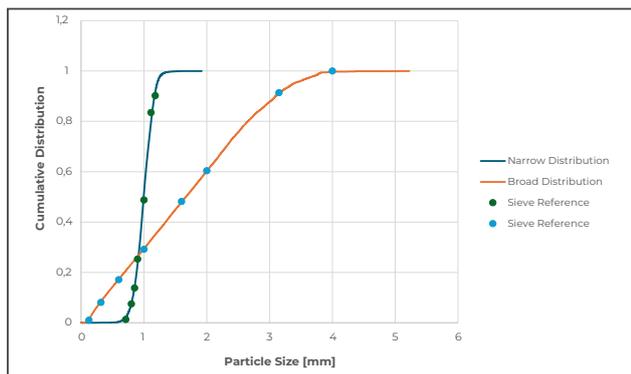
Comparison between 2D measurement (red), 3D analysis (blue) and caliper measurement (green) for extrudate rods. Images show particle tracking from left to right.

## CAMSIZER S1

SMART ENTRY-LEVEL SOLUTION FOR QC APPLICATIONS

Equipped with a **12.5-megapixel camera**, the **CAMSIZER S1** delivers precise results for quality control applications.

Ideal for replacing traditional sieve analysis, the CAMSIZER S1 offers a **fully automated, high-throughput analysis method** that saves time and improves consistency. The CAMSIZER S1 is optimized for reliable size and shape measurements and routine tasks, making it the perfect solution for efficient QC in everyday production.



- | Number of Cameras: 2
- | 3D Tracking: YES
- | Samples: dry, free-flowing bulk solids
- | Size range: 20  $\mu\text{m}$  – 30 mm
- | AI Features: YES




- | Number of Cameras: 1
- | 3D Tracking: NO
- | Samples: dry, free-flowing bulk solids
- | Size range: 30  $\mu\text{m}$  – 5 mm
- | AI features: NO



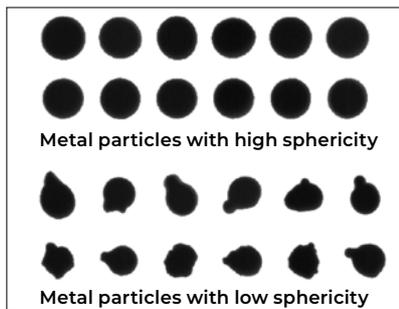
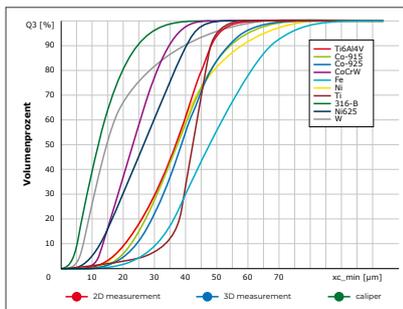
## CAMSIZER X2+

FOR POWDERS, SUSPENSIONS AND GRANULATES

The CAMSIZER X2+ offers the **widest measuring range** of all MICROTRAC image analyzers, making it the ultimate solution for fine and ultra-fine particle characterization as well as for wide distributions spanning over three orders of magnitude.

Its **flexible dispersion options** ensure optimal conditions for every material: **Compressed air dispersion** for dry powders, wet measurement for suspensions, **free-fall mode** for fragile or agglomerated samples.

With two high-speed cameras capturing **over 420 images per second**, the CAMSIZER X2+ delivers rapid, precise results for particle size and shape analysis—perfect for demanding R&D and quality control applications.



CAMSIZER X2+ results of various metal powders used in Additive Manufacturing. With image analysis it is possible to distinguish between good, round particles, and undesired irregular particles.

## CAMSIZER XL

ROBUST ANALYZER FOR INDUSTRIAL APPLICATIONS



The CAMSIZER XL is designed for **analysis of large particles** in industries such as mining, gravel, and building materials.

Its **rugged construction** makes it ideal for production environments where reliability and durability are essential.

Equipped with advanced **3D analysis capabilities**, the CAMSIZER XL delivers precise measurements of size and shape, ensuring accurate quality control for heavy-duty applications.



- | Number of Cameras: 2
- | 3D Tracking: NO
- | Samples: dry powders, suspensions
- | Size range: 0.9 µm – 8 mm
- | AI features: YES



- | Number of Cameras: 1
- | 3D Tracking: YES
- | Samples: dry free-flowing bulk solids
- | Size range: 160 µm – 135 mm
- | AI features: NO





## MICROTRAC

a VERDER company

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