



NEW
12 MEGAPIXEL CAMERA

CAMSIZER S1

PARTICLE SIZE AND SHAPE ANALYZER

**FOCUSING ON THE ESSENTIALS:
TURNKEY SOLUTION FOR QUALITY
CONTROL OF BULK SOLIDS**

THE NEW PARTICLE SIZE AND SHAPE ANALYZER CAMSIZER S1

FOCUSING ON THE ESSENTIALS

With its focus on the essentials of dynamic image analysis, the CAMSIZER S1 is purpose-built for basic quality control applications. This streamlined approach results in a system that is not only more efficient but also easier to use.



KEY FEATURES OF THE CAMSIZER S1

HIGH-QUALITY IMAGING

- Equipped with a 12 Megapixel camera for detailed particle analysis.

BROAD PARTICLE SIZE RANGE

- Capable of analyzing particle sizes from 30 microns to 5 millimeters.

FAST MEASUREMENT

- High-speed analysis with a large field of view, providing results in just 2–5 minutes.

HIGH SAMPLE THROUGHPUT

- Achieve up to 30 measurements per hour thanks to quick operation and easy sample preparation.

AUTOMATED MEASUREMENTS

- Standardized measurement routines ensure consistent quality control.

HIGHEST RESOLUTION

- Precise results with detailed images.

EASE OF USE

- Simple connectivity with just two USB ports required; no dedicated PC or cumbersome hardware installation needed.

EFFICIENCY

- Designed for standard requirements in the bulk solids laboratory without compromising on performance.

OVER 25 YEARS OF EXPERTISE

- Microtrac's legacy of competence and innovation in dynamic image analysis.

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TYPICAL APPLICATIONS

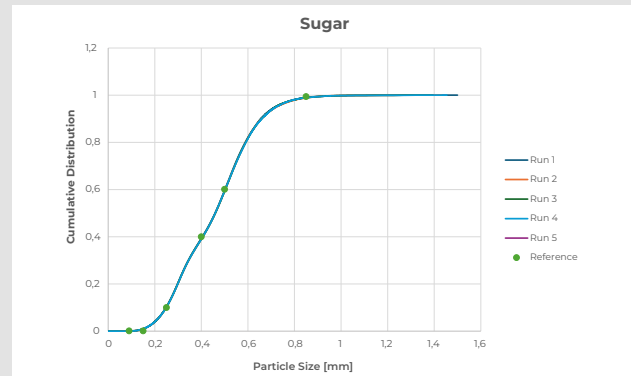
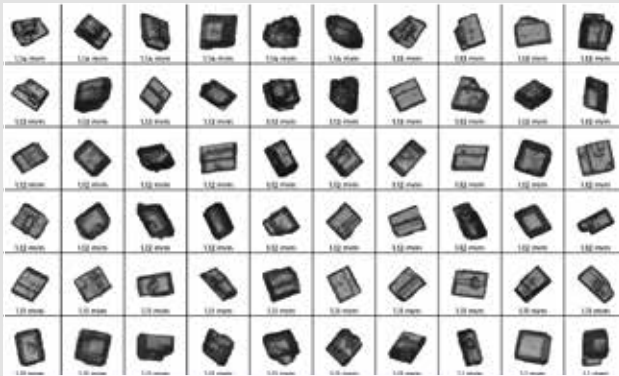
Applications for the CAMSIZER S1 are all dry flowable bulk solids in a size range from 30 μm – 5 mm. This device is particularly suitable as an alternative to time-consuming and labour-intensive sieve analysis.

- ▮ Sediments from coarse silt to fine gravel
- ▮ Sugar and salt
- ▮ Abrasives and blasting media
- ▮ Seeds, coated or uncoated
- ▮ Glass beads
- ▮ Foodstuffs
- ▮ Expandable polystyrene
- ▮ Superabsorbent polymers
- ▮ Fertilizer



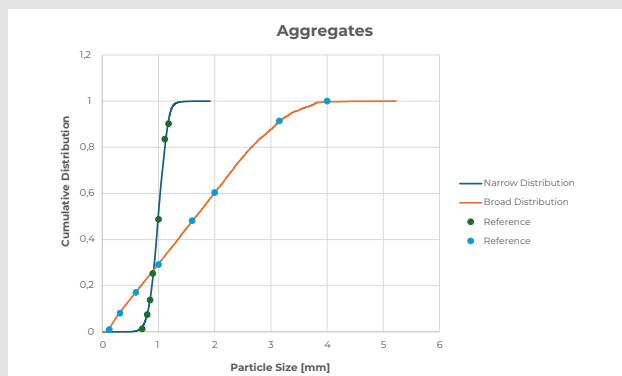
APPLICATION EXAMPLE: SUGAR

Five consecutive measurements of a sugar sample. Note the excellent image quality of the 12 Megapixel camera and the perfect agreement with sieve analysis (black asterisks).



APPLICATION EXAMPLE: AGGREGATES

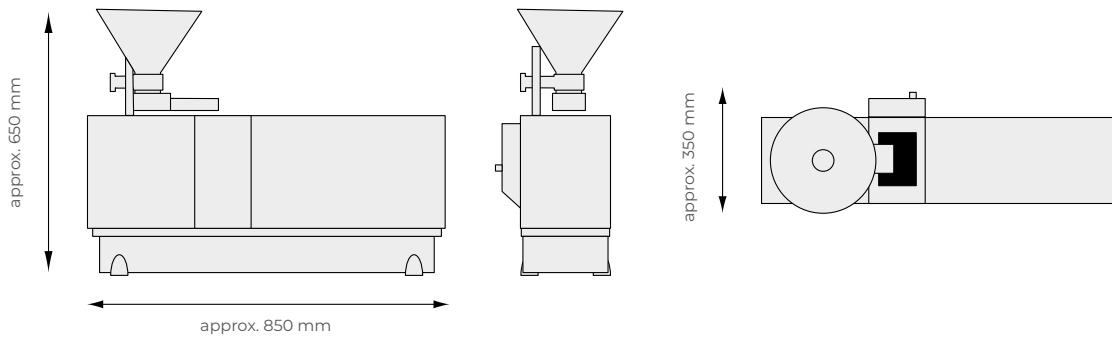
Two samples of aggregates (crushed rock) measured with the CAMSIZER S1. Note the excellent agreement with sieve analysis (gray and black asterisks) for both the narrow and wide distribution.



NARROW SAMPLE			BROAD SAMPLE		
Size X [mm]	CAMSIZER Q3 (X) [%]	Sieve Q3 (X) [%]	Size X [mm]	CAMSIZER Q3 (X) [%]	Sieve Q3 (X) [%]
0.710	1.98	1.30	0.125	1.60	1.10
0.800	7.65	7.50	0.315	8.65	8.10
0.850	13.94	13.80	0.600	17.65	17.10
0.900	24.09	25.30	1.000	30.02	29.20
1.000	50.31	48.80	1.600	48.53	48.20
1.120	82.22	83.50	2.000	60.85	60.40
1.180	91.19	90.20	3.150	90.65	91.40
1.250	97.62	96.90	4.000	99.70	100

TECHNICAL INFORMATION

Measuring principle	Dynamic Image Analysis (ISO 13322-2)
Measuring range	30 µm to 5 mm (recommended 50 µm to 4.5 mm)
Parameter(s)	2D particle analysis with basic size and shape definitions
Camera	12.5 Megapixels
Measurement time	approx. 2 to 5 min (depends on required measurement statistics)
Software	Microtrac DIMENSIONS
Dimensions (W x H x D)	850 x 650 x 350 mm
Weight	approx. 40 kg
CE certified	yes



MICROTRAC

PARTICLE CHARACTERIZATION

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