

CAMSIZER ONLINE & EXTRUSION SAMPLERS

CAMSIZER ONLINE 30 & 135 (CO)

Revolutionizing Particle Analysis with CAMSIZER Online. The CAMSIZER Online brings the proven capabilities and advantages of traditional CAMSIZER technology from the laboratory into the production environment, offering a seamless alternative or complement to conventional sieving methods.

Real-time Process Optimization:

Immediate analysis of particle size and 3D shape for dynamic production adjustments.

100% Sieve Correlation:

Guarantees compatibility with existing sieving data and avoids 2-12 hours delay from traditional laboratory analysis.

Exceptional Accuracy:

Delivers precise measurements, ensuring higher quality and consistency.

Integrated with a Standard or Customized Sampling System:

To provide real time data for process control and returns samples to the process.

This innovative system provides:

Enhanced Operational Efficiency and Safety with Camsizer Online. The Camsizer Online enables operators to monitor and control the production process with direct, real-time data, streamlining operations and better worker safety.

Instant Access to Data:

Immediate online information improves process optimization and avoids risk of out-of-spec production and delays by reducing dependency on slow lab results.

Enhanced Safety Measures:

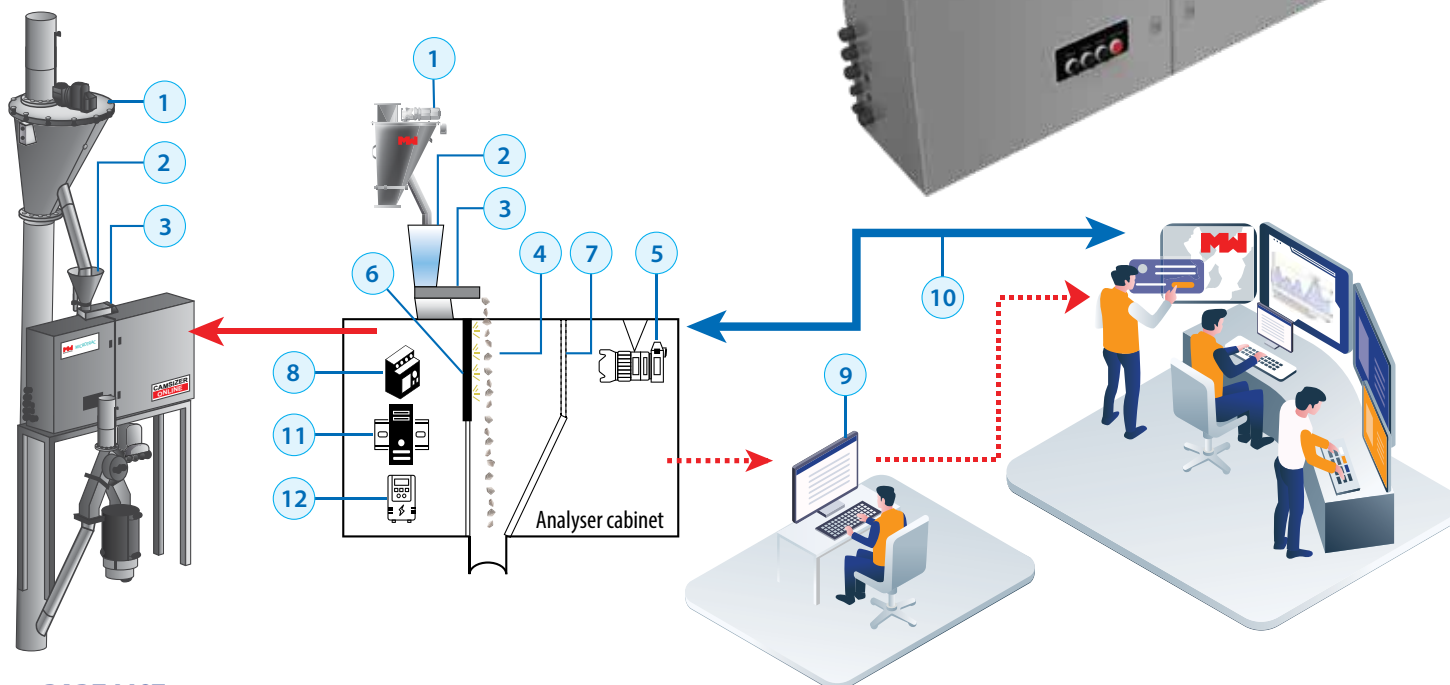
Eliminates the need for manual sampling, lowering the risk of injuries and improving compliance with health and safety regulations.

Designed for Tough Conditions:

Operates reliably within an IP66 industrial hardened enclosure, suitable for harsh environments.



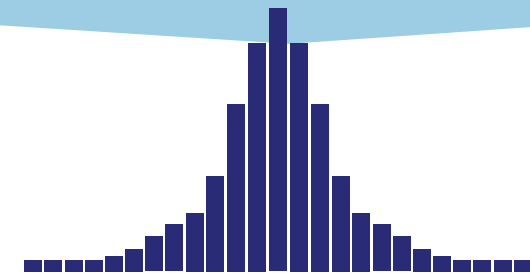
CAMSIZER AND JAWO SAMPLING ONLINE SOLUTION OVERVIEW



PART LIST:

- | | | | |
|--------------------|-------------------------------|-----------------|-----------------------------------|
| ① Vezin sampler | ④ Falling sample stream | ⑦ Plexiglas | ⑩ Data Connection to control room |
| ② Sampler hopper | ⑤ High speed - & res - Camera | ⑧ PLC | ⑪ DIN rail PC |
| ③ Vibration feeder | ⑥ LED stroboscope | ⑨ Local Monitor | ⑫ UPS (Optional) |

Particle Size Distribution



Manual
Analogue
High maintenance
Batch
 $\pm 5\%$

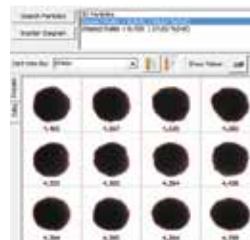
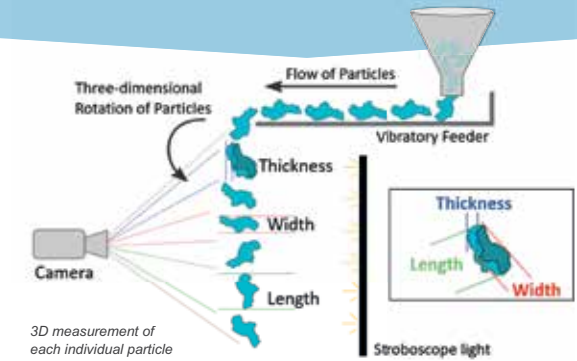


VS

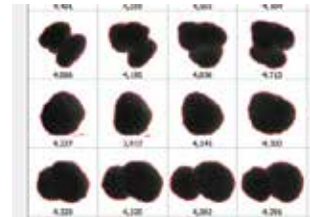
Automated
Digital
Low maintenance
Continuous
 $\pm 2\%$



Particle Shape Analysis

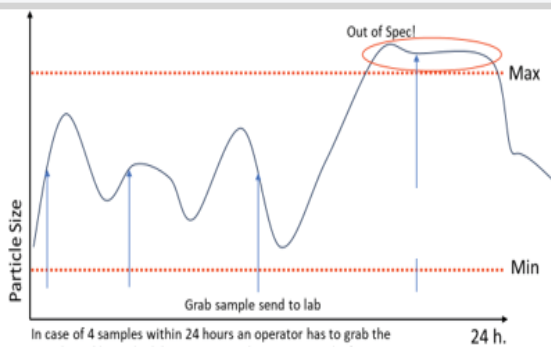


Round



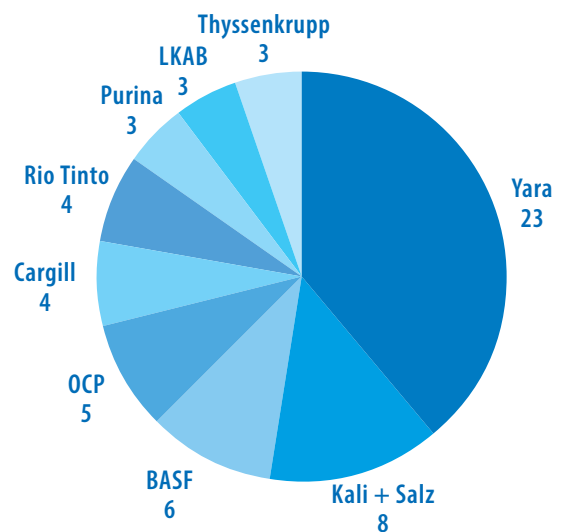
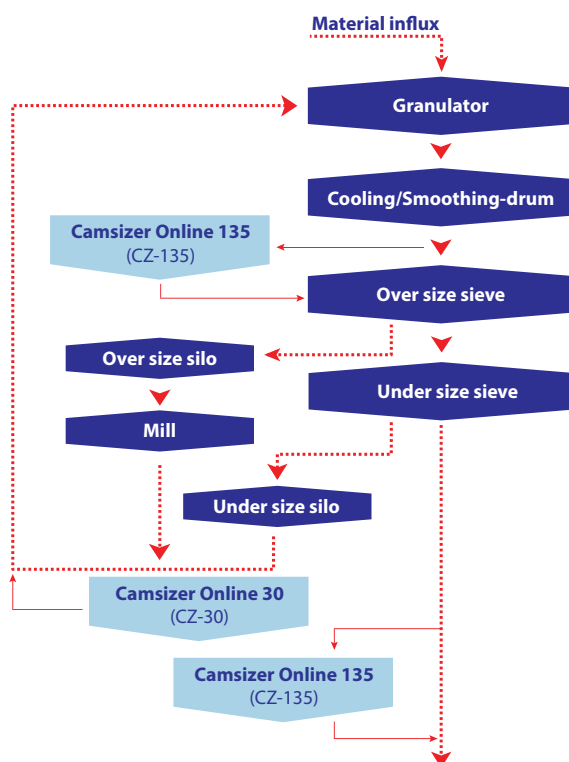
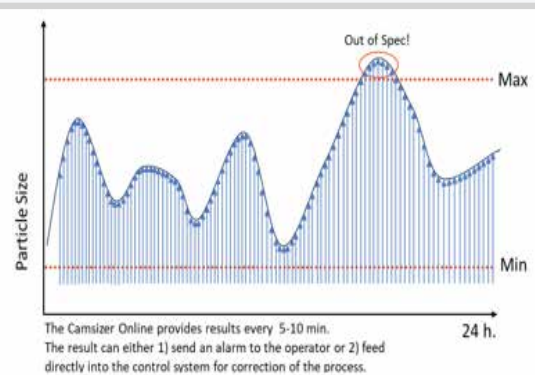
Non-Round

Manual Sampling and Analysis



VS

Automated Sampling with Automatic Analysis

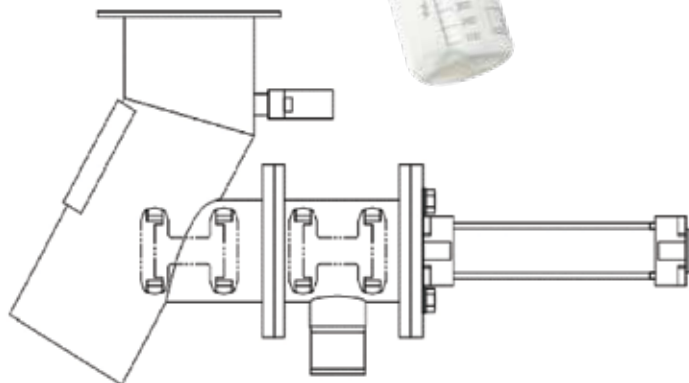
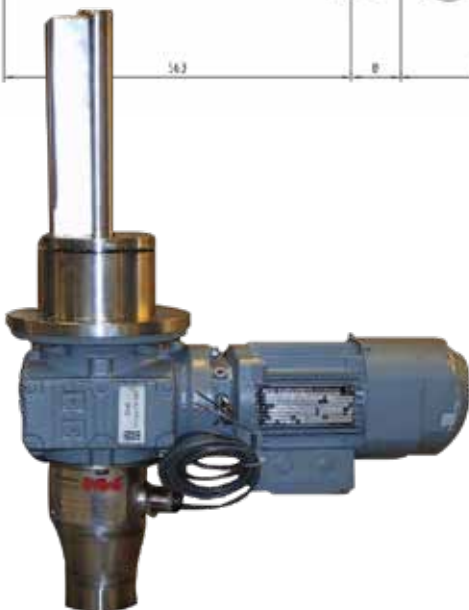
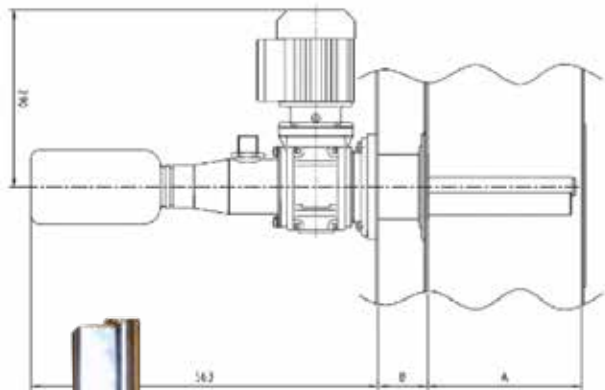


INTRODUCING M&W JAWO SAMPLING

M&W JAWO Sampling is one of the global pioneers in the development and production of automated sampling equipment, instruments and whole system solutions for representative sampling and particle size analysis since 1982. M&W JAWO Sampling offers customers a full range of automated and customized machines, instruments, and complete systems for representative sampling of bulk material, powder, and dust particles for a wide variety of industries. Obtaining representative samples of the total lot before analysis is crucial – otherwise, there is little point in having made significant investments in laboratory equipment and analytical competencies.

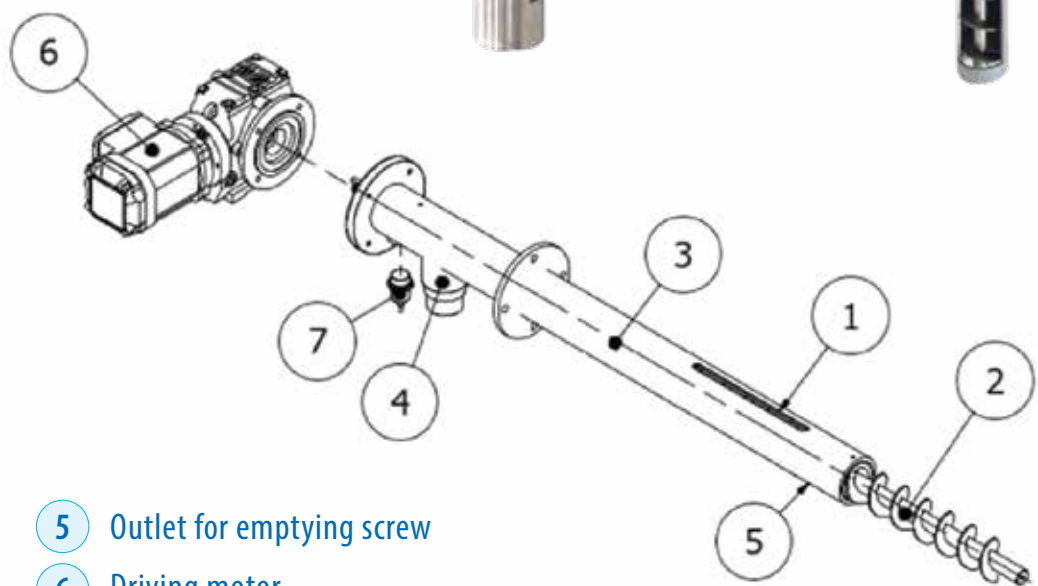
By operating our automated sampling solutions, you are getting reliable knowledge about the properties of the material you buy, sell, or produce enabling you to:

- Calculate the correct amount or value for each batch of material you receive or deliver – thereby reducing the risk of either overpaying or underselling
- For customers where larger or more expensive quantities of material are bought or sold, the economic impact of ensuring representative and consistent samples will be substantial.
- Confirm that you receive or sell products that meet contract requirements
- Monitor and optimize your production and quality control process
- Improve your mixing and blending operations to obtain better end-products
- Estimate the type and amounts of by-products from your processed or manufactured batches
- Document the environmental impact and/or pollution from your production
- By buying the right sampling solution you are likely to save a lot of money.



SCREW SAMPLER

The Screw Sampler (SCR) is designed for continuous or intermittent increment extraction of dry, non-sticky powdered free-falling material from a chute or in a silo. The SCR is the standard sampler in many cement plants and is also widely used at chemical and power plants.

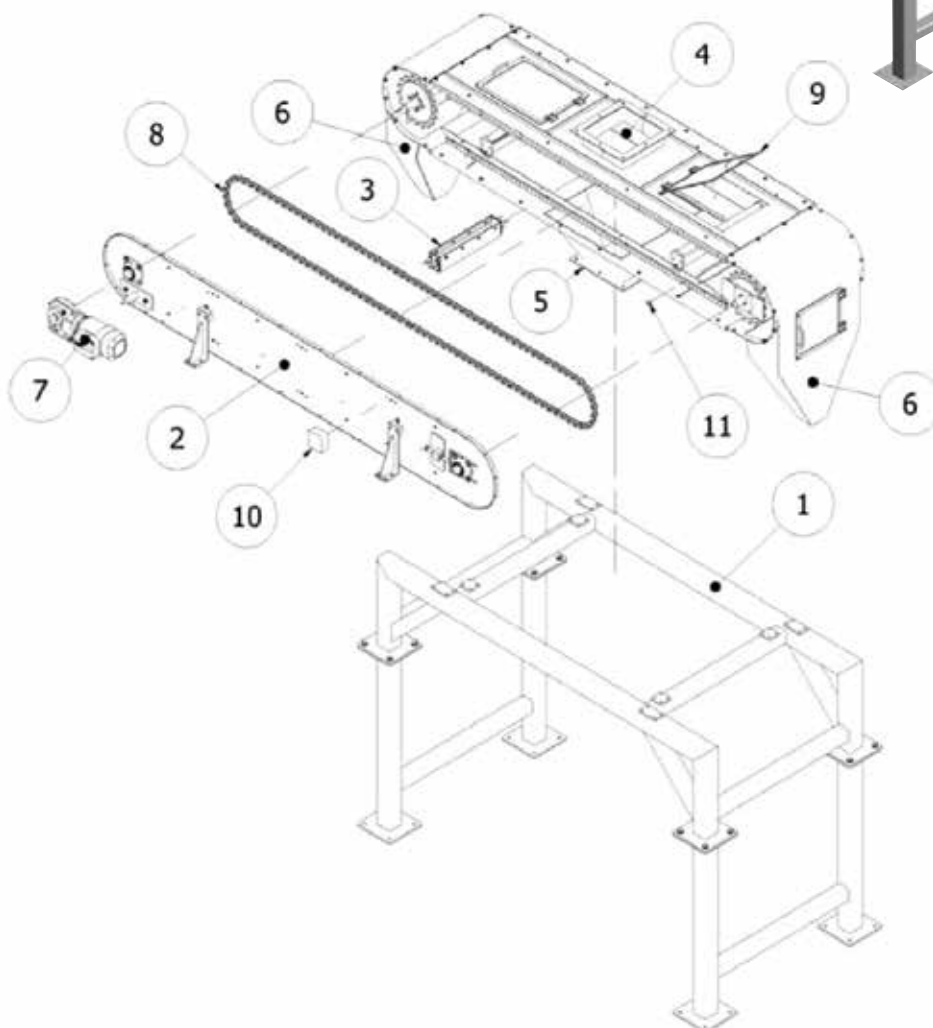


PART LIST:

- | | |
|-------------------|-----------------------------|
| 1 Inlet | 5 Outlet for emptying screw |
| 2 Transport screw | 6 Driving motor |
| 3 Transport tube | 7 Position sensor |
| 4 Sample outlet | |

BUCKET SAMPLER (BS)

The Bucket Sampler (BS) is designed to extract increments/cuts from a free-falling flow of bulk materials in a vertical duct. Representativity is ensured since a complete cross section of the material is collected.

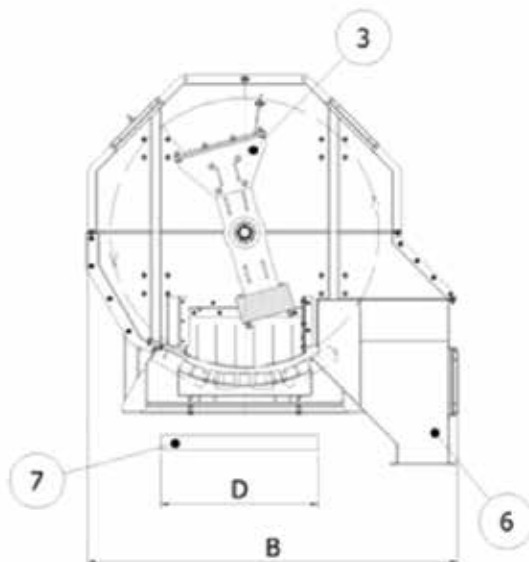
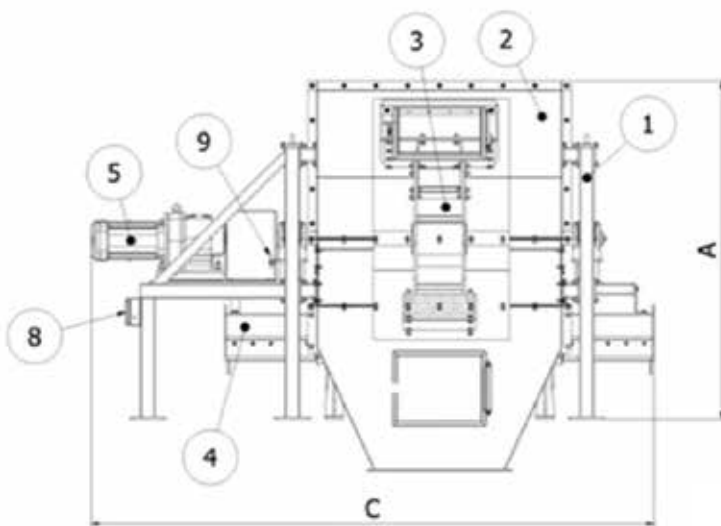


PART LIST:

- 1 Main support
- 2 Housing
- 3 Sampling bucket
- 4 Inlet
- 5 Reject outlet
- 6 Sampling outlet
- 7 Driving motor
- 8 Chain
- 9 Inspection hatch
- 10 Junction box
- 11 Position sensor

CROSS-BELT SWEEPER (CBSw)

The Cross-Belt Sweeper (CBSw) is designed to remove tramp metal from bulk material being conveyed on a conveyor belt. Without belt stoppage, CBSw will automatically remove tramp metal by a detection system with a minimal waste of usable bulk material. CBSw can be integrated on any belt size, speed, and construction. CBSw is a cost-effective solution that increases uptime in your operation.



DIMENSIONS:

Label	Description	Value [mm]
A	Height	1.850
B	Width	2.050
C	Length	3.100
D	Conveyor belt	800

PART LIST:

- 1 Main support
- 2 Housing
- 3 Hammer
- 4 Inlet / Outlet tunnel
- 5 Driving motor
- 6 Sampling outlet
- 7 Conveyor belt
- 8 Junction box
- 9 Inductive sensor

MARK & WEDELL



From the mine to the processing plant, the university, or the R&D department to the particle accelerator, Mark & Wedell develops and manufactures engineered solutions and offers sub-contracting services which meet customers' needs for machines, measurement instruments, full system solutions and one-stop shop subcontracting and manufacturing services.

Whether you need an automated and representative sampling solution for bulk material, powder, dust particles or ash, feed-throughs and current leads for bridging the cold and the warm terminal or simply CNC machined parts, welding services or control cabinets – Mark & Wedell is here to help.

Mark & Wedell has since 1974 delivered engineered solutions for a wide variety of industries in 85+ countries such as mining, mineral processing and metals refining, power plants, fertilizer, cement, pharma/healthcare, food, oil & gas, and Big Science.

Mark & Wedell's services is separated into three sections; M&W Jawo Sampling, M&W Big Science, and M&W Engineering. Furthermore, customers use us as a sub-contractor and manufacturing partner when our well-equipped machine-, welding- and electrical workshops, engineering and quality control departments are required. Reducing the need for internal project management and expensive and time-delaying interfaces to other sub-suppliers.

Fertilizers



- Nitrogen (urea, ammoniums etc.)
- Phosphates
- Pottasium
- Rock salt



Chemicals & Plastics

- Plastics & Polymers (granulates)
- EPS
- Adhesives
- Solvents
- Oleochemical
- Others

Mark & Wedell Client Reference



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