

PartAn Particle Analyser

**For measuring
particle
size and shape**

- Process Control
- Quality Control
- Research
- Product Development

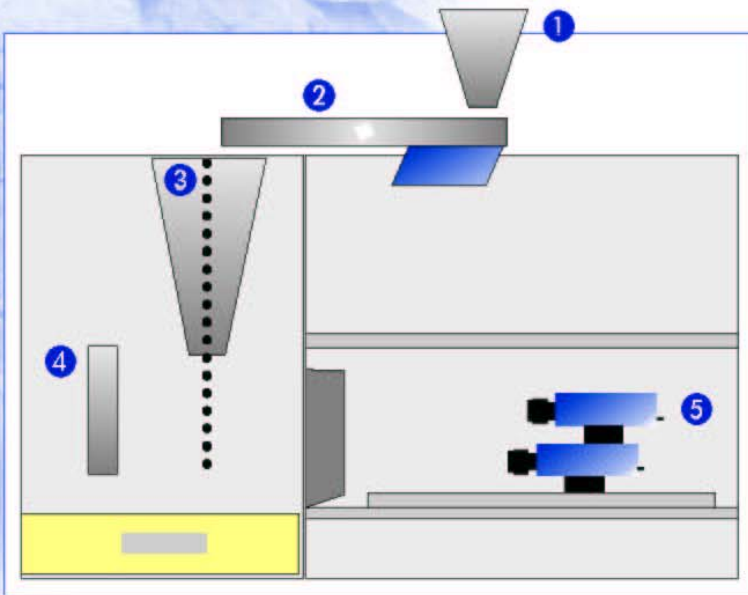


Use the PartAn to

- Improve Quality
- Increase Productivity
- Reduce Costs



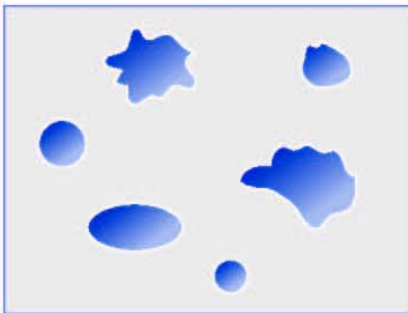
PartAn Measurement Principle



PartAn provides fast, accurate and fully automated particle size and shape of your products

The sample is feed into the strobe light and camera imaging measurement cell via a computer controlled vibrating feeder. This ensures good sample dispersion prior to the measurement.

- ① Sample Silo
- ② Feeding System
- ③ Particle Stream
- ④ Flash
- ⑤ Cameras

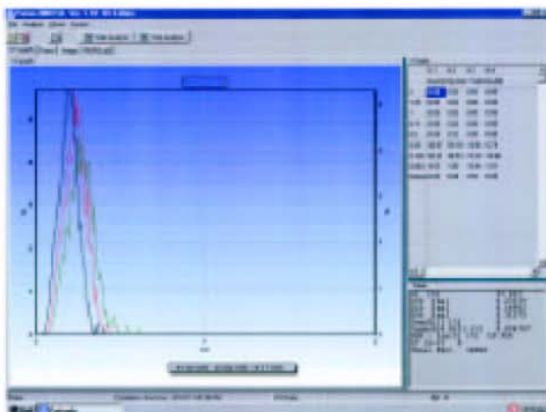


The raster scan of the camera produces picture elements (pixels) each pixel is the same size. A calculation is then made of the number of pixels representing each particle.

From this data the area of the particle can be determined. From the particle area, the PartAn software determines different diameters, length and thickness of each particle.

From these measurements, the shape and aspect ratio of the particle are calculated.

PartAn Results

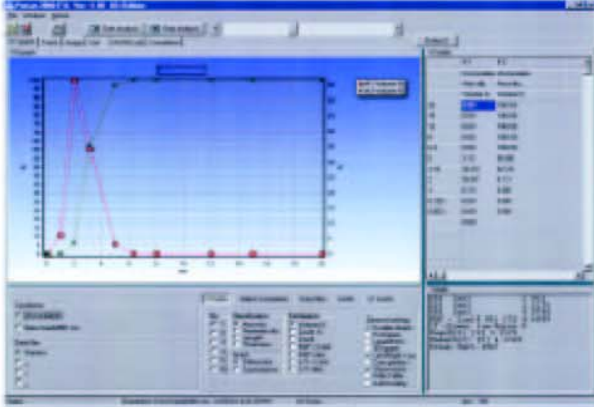


PartAn Analysis results are displayed in graphical and tabular form. PartAn results matches sieve results. Shape and aspect ratio are displayed by size and sieve size. Totals and averages for the entire sample are also displayed i.e. average size, total non-spherical particles, D10 and D90, etc.

The analysis and report are completed in less than 5 minutes.



PartAn in the Laboratory



For the laboratory quality control, PartAn provides size and shape results quickly and automatically.

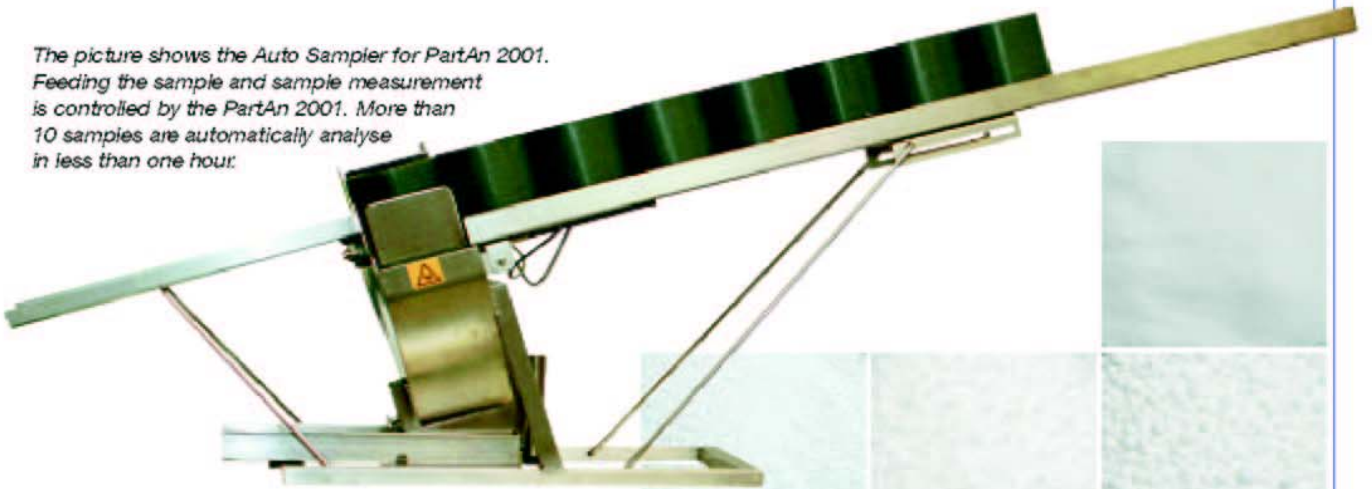
More sample can be measured per day with greater accuracy and less effort than with conventional techniques.

For R&D, PartAn provides detailed particle information. This gives the researcher more data to improve product quality and increase production efficiency.

PartAn gives operator independent results and is easy to use.

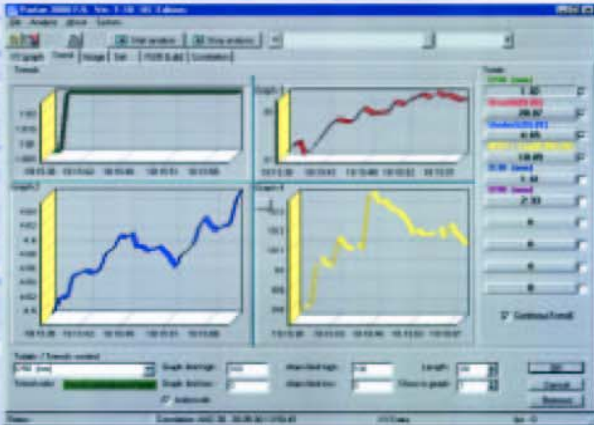
All PartAn results are available in customised Analysis Report and as ASCII files.

The picture shows the Auto Sampler for PartAn 2001. Feeding the sample and sample measurement is controlled by the PartAn 2001. More than 10 samples are automatically analyse in less than one hour.



0,010-115 mm

PartAn On-line



For on-line control, PartAn provides real time information to optimise the process. This allows for increased production, enhanced quality and reduced costs.

Real-time trend data is monitored and displayed with up to eight different parameters available.

PartAn provides data to allow the process to be run to specification 24 hours a day 365 days a year.

PartAn has been in continuous operation for on-line process control at many and varied applications since 1986.

Due to the robust design PartAn requires a minimum amount of routine maintenance.

PartAn will measure dry free flowing powders, granulates and aggregates.
Standard measurement range is 10 microns to 115 mm other measurement ranges on request.



Sampling System for conveyor belt (150 t/h)

Distributor



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Production Partner

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