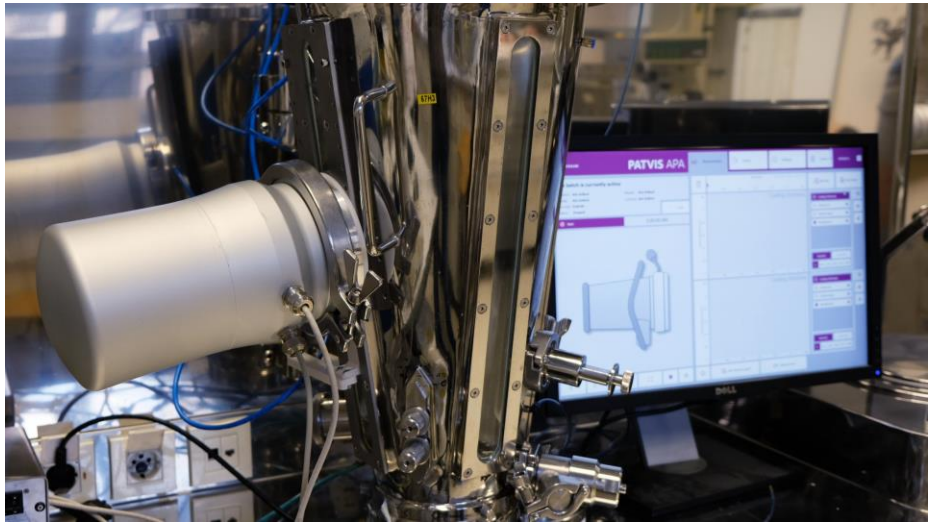
In-line visual imaging system
Sensum, PATVIS APA



PATVIS APA is a next-generation measuring system designed for in-line monitoring and diagnostics of fluid-bed processes. The system enables contactless measurement of particle size and shape and continuous measurement statistics within a user-defined time interval. Size measurements enable estimation of film coating thickness and the agglomeration degree (coating of pellets and minitablets). Visual and numerical data are displayed in real time through an intuitive graphical user interface. Measurement principle is based on machine vision technology, where digital images of particles in the process are acquried and analyzed, resulting in precise estimation of particle contours on the acquired images. The PATVIS APA system can be used on Brinox CGD 1 and Glatt GPCG 1 fluid-bed equipment.

Location:
Department of Pharmaceutical Technology

Technical specifications:
Measurement range: 100 µm – 5000 µm
Maximum particle speed: 10 m/s
Measurement rate: Up to 30000 particles/s
Measurement precision: < 2 µm
Image acquisition: Up to 100 frames per second
Field od view: 16 mm x 16 mm

Example of use: https://youtu.be/n88PJ1tnqGU

Advantages:
- Direct measurement with no sample prepararion or calibration required.
- Contactless and non-invasive measurement.
- Exceptional sample measurement rate, accuracy and precision.
- Excellent statistical strength even within short measurement intervals (< 2 min).