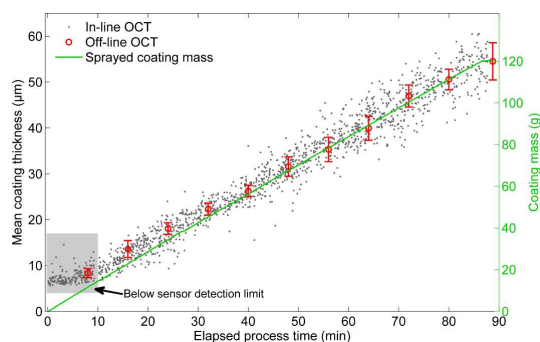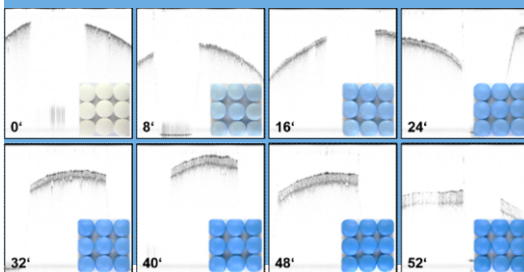## OSeeT sensor

## Tablet coating thickness

In-line OCT Images

- Calibration-free measurement system
- In-line process monitoring
- In-line characterization of pharmaceutical coatings in real-time
- Mean coating thickness of a single particle (tablet or pellet)
- Analysis of inter-particle coating variability (variation of coating mass from one particle to the other)
- Analysis of intra-particle coating variability (variation of the coating thickness and quality on the surface of a single particle)
- Roughness analysis of particle core and coating

Phyllon GmbH
Plüddemanngasse 104/3
A-8010 Graz
Tel.: +39 335-6021284
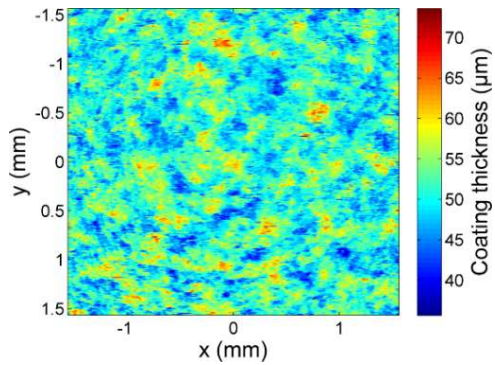Fax: +39 02 89785799
Email: a.raffa@phyllon.at

Phyllon
pharmaceutical technology

OSeeT
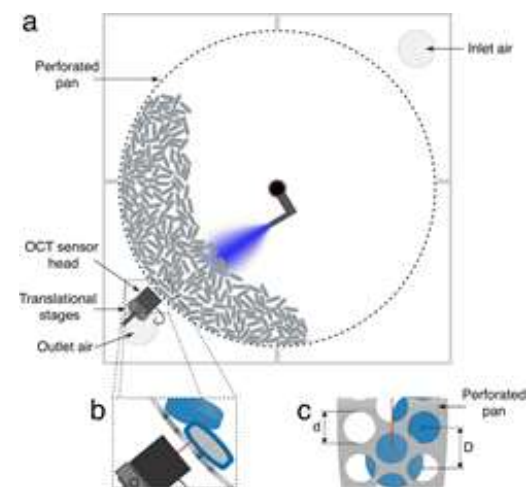
To acquire **cross-sectional images** to reveal the internal structure of a coated tablet or pellet.

3D OCT data of film-coated tablet

Off-line OCT

Two-dimensional (2-D) and three-dimensional (3-D) data of particle acquired by the 2D/3D imaging probe

Coating thickness analysis of entire particle (top, bottom and band)

Mean coating thickness of a single particle

Inter- and intra-particle coating variability

Roughness analysis (core and coating)

In-line OCT

- Two-dimensional (2-D) cross-section images acquired by the 1D imaging probe

- In-line characterization of coated particle in real-time:
  - Mean coating thickness of a single particle
  - Inter and intra-particle coating variability

- Roughness analysis (core and coating)

Coated tablets immages
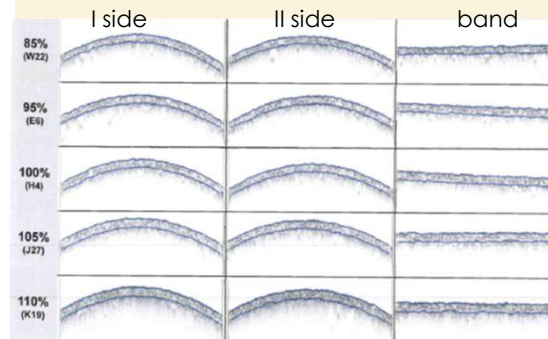
coating thickness map

Tablets
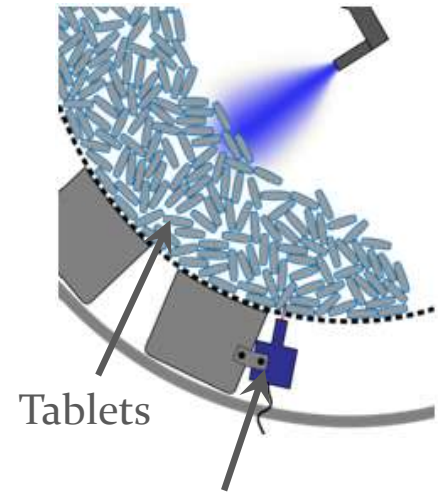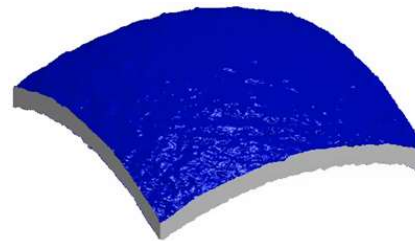
1D imaging probe

- The 1D imaging probe needs to be integrated in the coater

- One single optical fiber connects the OCT base system and the 1D imaging probe.

- Suggested position: outside of the perforated pan.

- Position the probe between 10 mm and 18 mm away from the inner surface of the perforated pan.

- The overall dimensions of the 1D imaging probe are 140 x 50 x 50 mm³.

- Positioning has to be carried out only once per coater.