

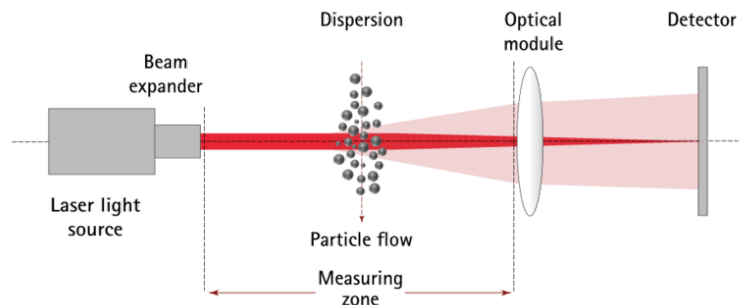
Laser Diffraction

What is it used for and why important?

- ❑ For measuring PSD (Particle Size Distribution) in order to check does Powder flow or how quickly does it dissolves
- ❑ PSD influences the properties of powder, and the domain of application
- ❑ PSD measurement - not enough on its own the results must be coupled by other techniques to correctly interpret and use the measured PSD:
 - microscopy, – X-ray powder diffraction, – surface area measurement – chemical composition analysis

Basics

- ❑ Particles scatter light with Intensity pattern that is dependent on particle size
- ❑ It consist of: 1-laser 2- dispersion device 3-detector 4-computer
- ❑ Assuming spherical shape of particles



Examples

