

# Capture layer stresses for R&D in real time!

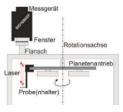


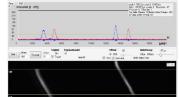
Measuring system for the determination of the intrinsic stress in thin films – **IN-SITU** 

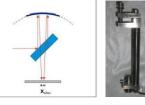


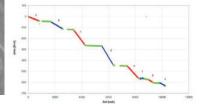
# Principle:

The mechanical stress in the coating is determined by measuring the bending of the substrate. The radius of this bending is geometrically determined by the deflection of several laser beams reflected from the substrate. A high-speed detector enables this measurement during the coating process on moving substrates.









#### **Features**

- Real-time acquisition of mechanical stress
- Customized specimen holder
- Low space requirement

#### Substrates

- Any geometry > 20mm x 10mm can be used
- Planar, at least one side must mirror
- Substrate thickness determines measurement accuracy

## Software

- Win7 or higher
- Acquisition and clear archiving of data
- Simple and intuitive

### Technical data

- CCD high speed detector with up to 80.000 fps
- 650nm laser modules
- Resolution: 1/R = 1/R0 1/R1 = < 1 x 10-4 m-1</p>
- L x W x H: 25cm x 15cm x 15cm
- Weight: 6kg
- 24V DC (external power supply 110V/230V to 24V)

