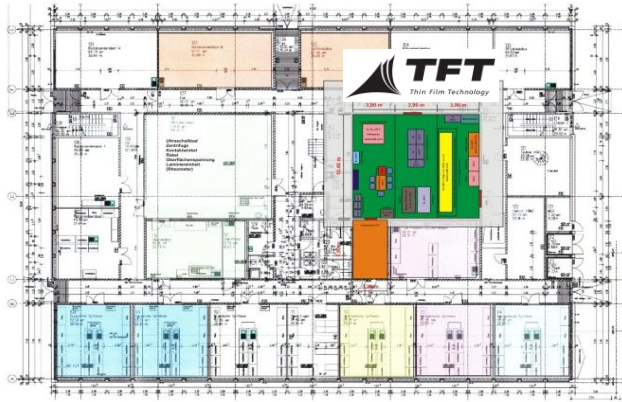


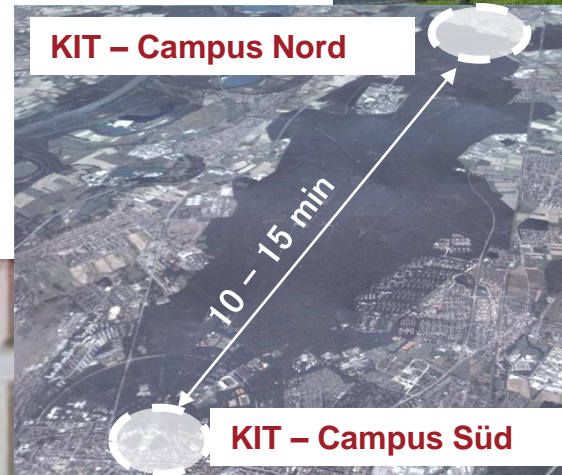
# Thin Film Technology - located within KIT



**KIT – Campus Nord**  
**Geb. 717**



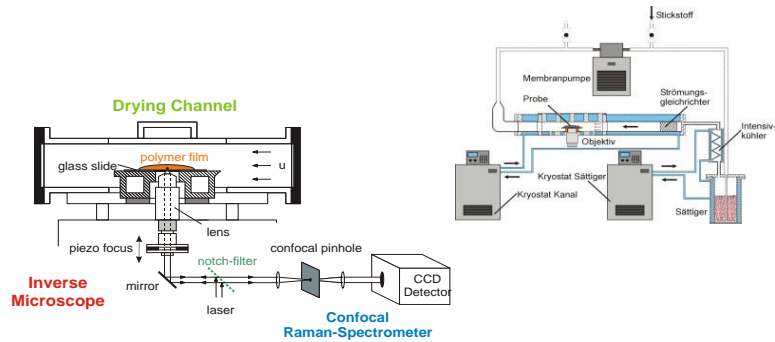
**CN Geb. 717**



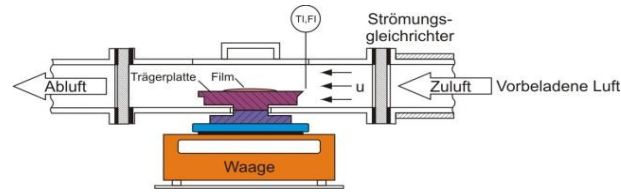
**CS Geb. 10.91**

**KIT – Campus Süd**  
Institut für Thermische Verfahrenstechnik  
Bereich Technologie dünner Schichten

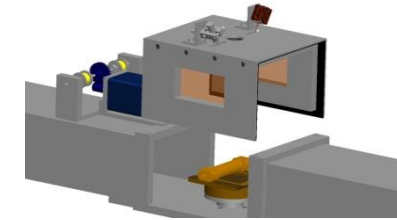
# Characterization Tools



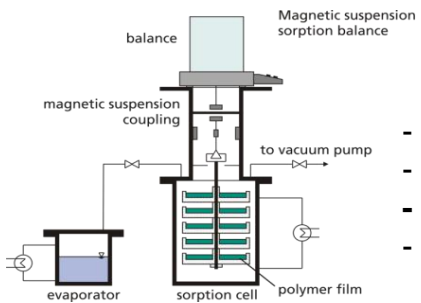
**Inverse Micro Raman Spectroscopy (IMRS)**



**Drying Channel (inert, preloaded)**



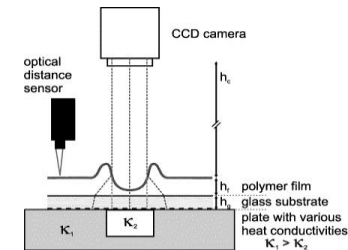
**In-Situ Interferometry, XRD**



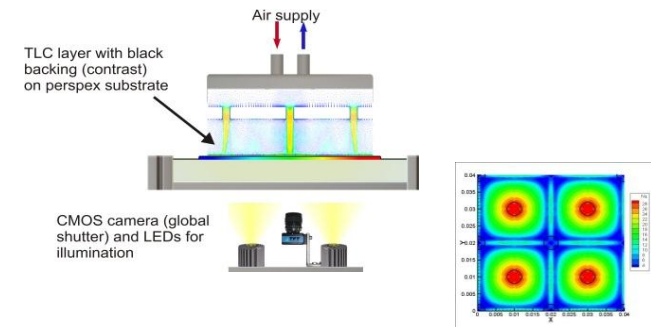
- Sorption/ Diffusion
- Permeation
- Phase separation
- Sol-Gel



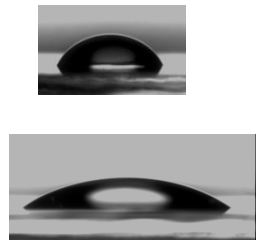
**In situ Surface Deformation**



**Impinging Jets**



**Surface Treatment Contact Angle**



**Rheometry**



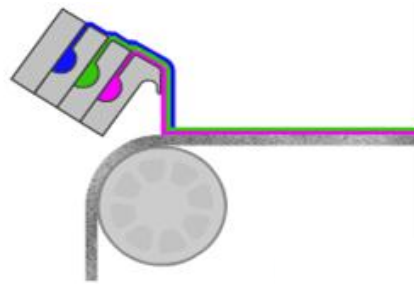
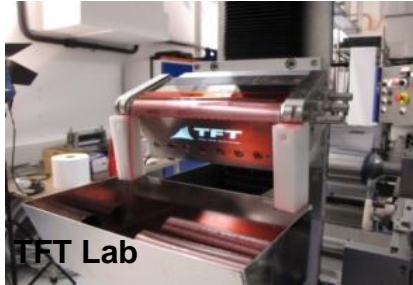
**Coating Mini Slot Die**



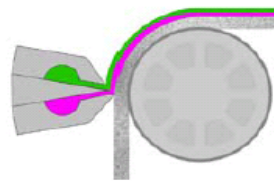
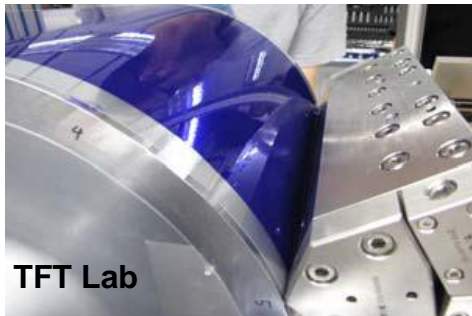
## Pre - metered

and

## Self - metered

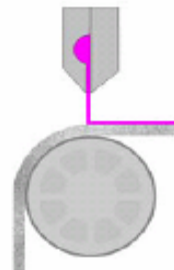
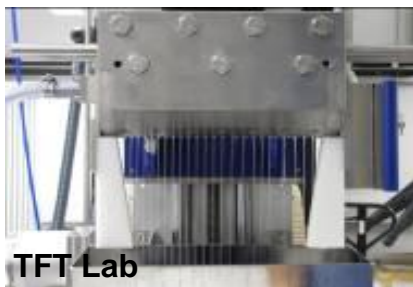


Curtain Coating



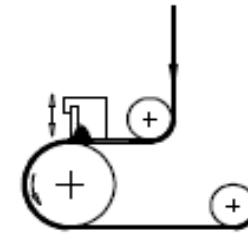
Slot Die

Source :ILFORD

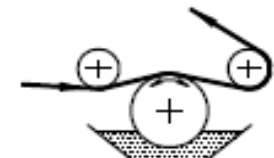


Slot Curtain

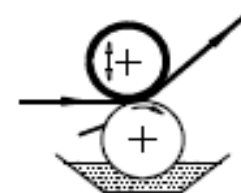
Source TSE TROLLER



KNIFE-OVER ROLL

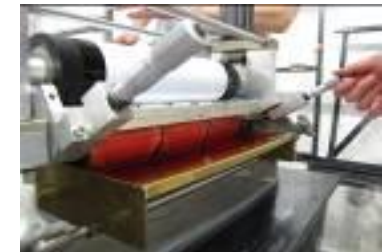


KISS



GRAVURE

Source ROTARY COATER



# Roll to Roll (R2R) – coating and drying pilot plant

## Roll to Roll:

- Web speed: 0.2 ... 20 m/min
- Coating width: 40 ... 400 mm
- Dryer length: 2 ... 5 m

## Pre Metered Coating station:

Slot Die/ Slide/ Curtain



Foto: PKM, KIT

Press Release June, 2010