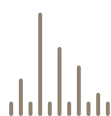


STADI P

THE RAPID,
COMPREHENSIVE
MODULAR SYSTEM
WITH UNSURPASSED
RELIABILITY



POWDER DIFFRACTOMETRY

- Pure $K\alpha_1$ radiation using Fe, Co, Cu, Mo and Ag anodes
- Ultra high resolution (FWHM < $0.03^\circ 2\theta$)
- Transmission-/Debye-Scherrer or Bragg-Brentano mode
- PDF calculation using Ag $K\alpha_1$ data

YOUR PARTNER IN X-RAY DIFFRACTION

STOE & Cie GmbH | WWW.STOE.COM

STADI P

THE EXTREMELY VERSATILE DIFFRACTOMETER SYSTEM

DETECTORS

State of the art detectors:
scintillation counter, position
sensitive wire, imaging plate
and silicon strip detectors

ACCESSORIES

Bespoke high/low temperature
systems, sample changers, etc. are
available for each geometry.

FOCUSsing MONOCHROMATORS

Pure $K_{\alpha 1}$ -radiation using Fe, Co, Cu,
Mo and Ag sources.



The very reliable, high-precision two circle goniometer is the basis of a whole range of x-ray powder diffraction solutions.

Vertically or horizontally mounted, the **STADI P** can be built-up in different geometries: Transmission/Debye-Scherrer, Reflection/Bragg-Brentano or both. Two **STADI P** goniometers, either in the same or different configurations, can be mounted in the same cabinet resulting in two completely independent units. Moreover, two goniometers can share one source.

The **STADI P Combi** has been designed for high-throughput and combinatorial analysis.

STADI P

- Various state of the art detectors
- Pure $K_{\alpha 1}$ radiation using Fe, Co, Cu, Mo and Ag sources
- The ultimate platform for laboratory PDF calculations using Ag $K_{\alpha 1}$ data
- Transmission/Debye-Scherrer or Bragg-Brentano mode
- Ideally suited for the analysis of air/moisture sensitive and micro samples
- High and low temperature attachments

STADI P COMBI

- 96-fold sample stage – user definable x/y grid
- Pure $K_{\alpha 1}$ radiation using Co, Cu, Mo or Ag sources
- Transmission geometry

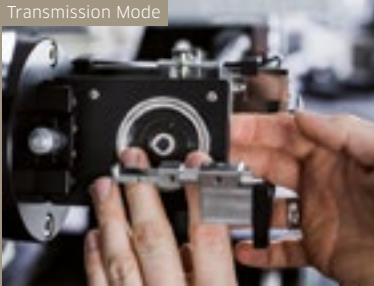
WHY MEASURE POWDER IN TRANSMISSION-/ DEBYE-SCHERRER GEOMETRY?

1. Reliable intensities over the full 2θ scale
2. Real microsampling possible
3. No height displacement
4. Smallest 2θ angles possible ($< 0.2^\circ 2\theta$)
5. Easy handling of air-/moisture sensitive or hazardous materials

Transmission Mode



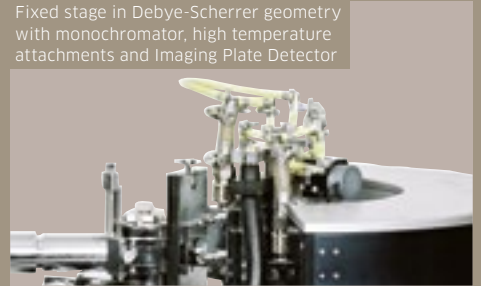
Transmission Mode



STADI P Fixed Stage Horizontal Double Setup



Fixed stage in Debye-Scherrer geometry with monochromator, high temperature attachments and Imaging Plate Detector



STADI P COMBI DIFFRACTOMETER FOR COMBINATORIAL AND HIGH-THROUGH- PUT ANALYSIS

STADI P Combi

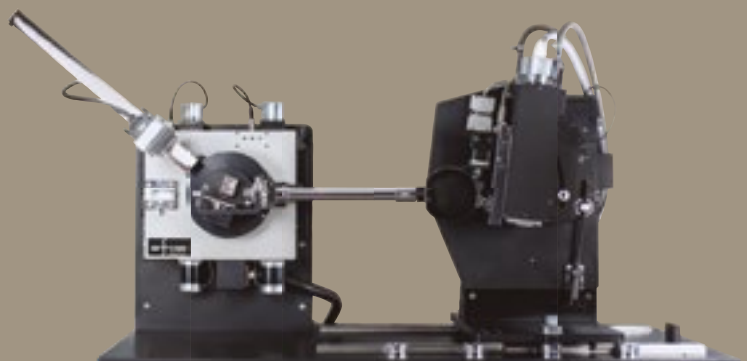


Software STADI P Combi



Also available as **STADI MP**
One diffractometer - three geometries

- Transmission / Debye-Scherrer, High Flux and Bragg-Brentano mode
- Geometry selection by sliding tube housing without realignment
- All geometries running with pure Co, Cu, Mo or Ag $K_{\alpha 1}$ radiation





STADI P SETUP

SOURCES

OPTICS

DETECTORS

Transmission

sealed tube
Ag, Mo, Cu, Co, Fe

primary monochromator

linear wire PSD, IP-PSD,
MYTHEN 1K

Debye-Scherrer

sealed tube
Ag, Mo, Cu, Co, Fe

primary monochromator

linear wire PSD, IP-PSD,
MYTHEN 1K

Bragg-Brentano

sealed tube
Ag, Mo, Cu, Co, Fe

none,
primary monochromator,
secondary monochromator,
mirrors

linear wire PSD, MYTHEN 1K,
point detectors

Combi

sealed tube
Ag, Mo, Cu, Co

primary monochromator

linear wire PSD, IP-PSD,
MYTHEN 1K

Dimensions (including system cabinet, max.): 1800x880x2050mm, Weight: 740 kg

Specifications without obligation and subject to change without notice.