SINCE 1887



STADI P

THE RAPID, COMPREHENSIVE MODULAR SYSTEM WITH UNSURPASSED RELIABILITY

10 YEAR | STOE PARTS & LABOR GUARANTEE

We offer for all STOE parts in this product, the new and unprecedented:

For terms and conditions, please send an email to: terms@stoe.com

POWDER DIFFRACTOMETRY

- Pure $K_{\alpha 1}$ radiation using Fe, Co, Cu, Mo and Ag anodes
- Ultra high resolution (FWHM<0.03° 2θ)
- Transmission-/Debye-Scherrer or Bragg-Brentano mode
- PDF calculation using Ag $K_{\alpha 1}$ data

YOUR PARTNER IN X-RAY DIFFRACTION

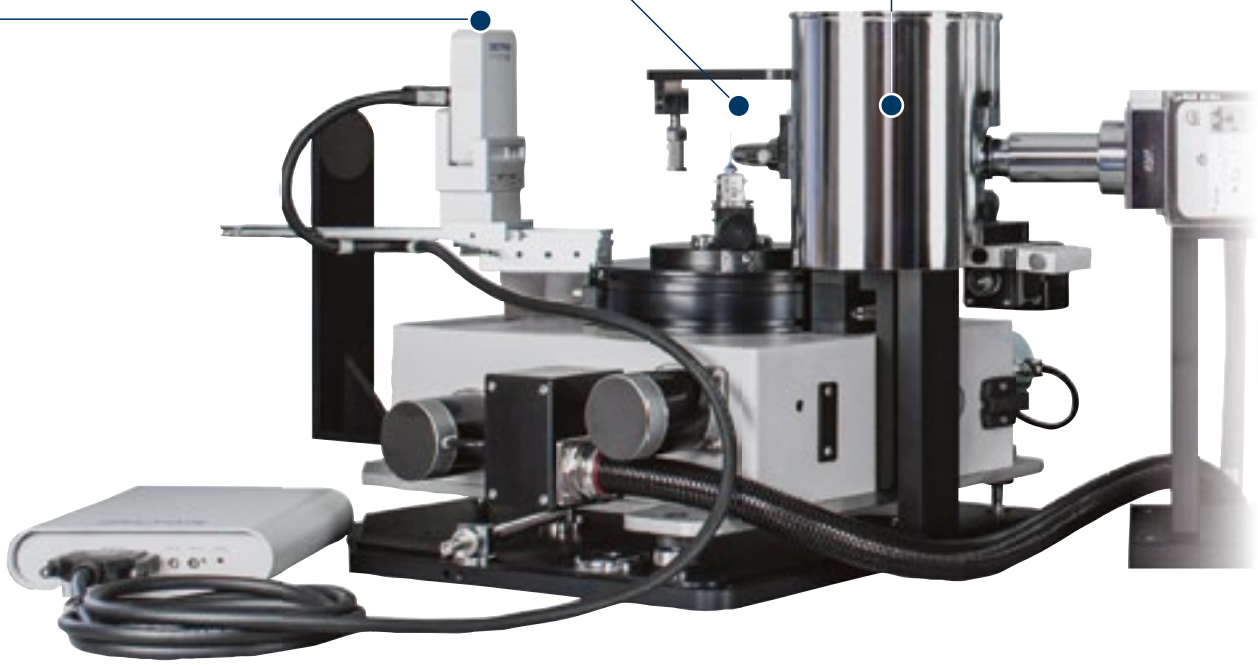
STOE & Cie GmbH | WWW.STOE.COM

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° 2θ)
5. Easy handling of air-/moisture sensitive or hazardous materials

Transmission Mode



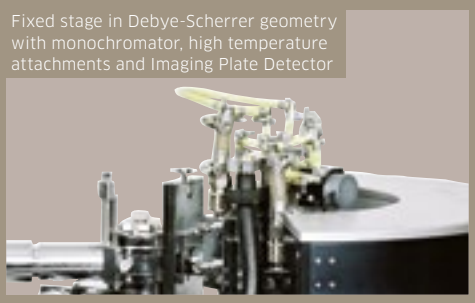
Transmission Mode



STADI P Fixed Stage Horizontal Double Setup



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

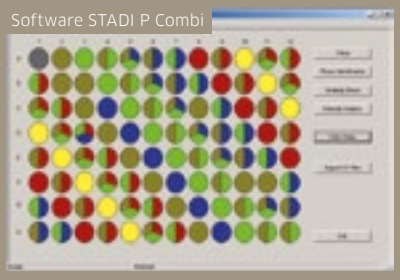


STADI P COMBI DIFFRACTOMETER FOR COMBINATORIAL AND HIGH-THROUGH-PUT ANALYSIS

STADI P Combi

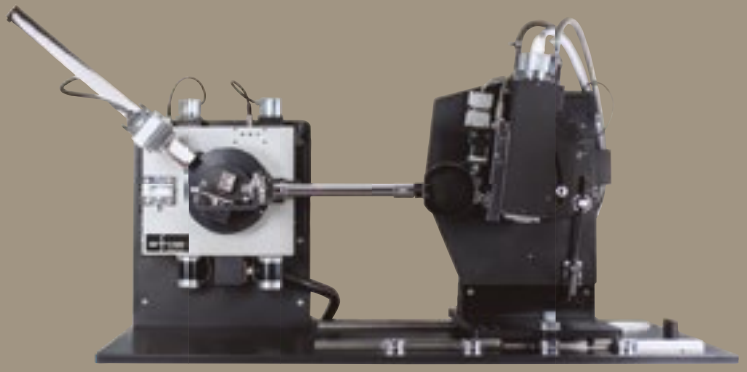


Software STADI P Combi



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.): 1800 x 880 x 2050 mm, Weight: 740 kg			

Specifications without obligation and subject to change without notice.

STOE
SINCE 1887

STOE & Cie GmbH
Hilpertstrasse 10
64295 Darmstadt | Germany

P +49 (0) 6151 988 70
F +49 (0) 6151 988 788
info@stoe.com

WWW.STOE.COM