SINCE 1887



STADI P ESSENTIALS

CAPILLARY DIFFRACTOMETER – YOUR ENTRY INTO HIGH-END POWDER XRD

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

10 YEAR | STOE PARTS & LABOR GUARANTEE

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

POWDER DIFFRACTOMETRY

- Specialised capillary diffractometer
- Pure $K\alpha_1$ for highest radiation
- Highly attractive price in combination with Dectris MYTHEN silicon-strip detector
- Upgradeable to 2 circle STADI P diffractometer
- Modular system with the possibility to attach up to two independent diffractometers to the horizontally or vertically mounted X-ray tube
- With 1000µm MYTHEN and Ag X-ray tube the optimal goniometer for PDF data collection
- Delivered with STOE WinX^{POW} ESSENTIALS

YOUR PARTNER IN X-RAY DIFFRACTION

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STOE STADI P ESSENTIALS

Representing the **high end diffractometer for capillary measurements in the price class of table top machines,** this one circle powder diffractometer can be build up horizontally or vertically at a tube housing in a standard STOE cabinet.

The focusing Ge 111 monochromator provides pure $K\alpha_1$ radiation from sealed tubes with Cu, Co, Mo or Ag anode and yields the same high resolution in 2θ as the standard STOE STADI P (FWHM < 0.03° for the Si 111 reflection). A video CCD microscope is mounted on the 2θ arm to allow the adjustment of capillaries on the goniometer head.

The STOE STADI P ESSENTIALS can be equipped with 1D detector (Dectris MYTHEN) or a point detector on the moving 2θ arm and the full variety of STOE's capillary rotating sample holders (standard goniometer head, permanently aligned spinner, Gandolfi sample holder and the 10-fold capillary changer), making a moving omega circle no longer necessary.

Furthermore this goniometer can also be used as a stage for non-ambient measurements in combination with a STOE furnace or a cold head. Together with the Dectris MYTHEN detector this unique application can be used even for time resolved kinetic measurements. But also at room temperature it is an utile extension for the second side of a standard STOE STADI P system.

Using a sealed tube with Ag anode and the Dectris MYTHEN with 1000 µm sensor thickness, the STOE STADI P ESSENTIALS turns out to be an excellent laboratory device to collect data for PDF calculations.

Beyond that, STOE provides an upgrade kit to let this one circle goniometer become a full two circle STOE STADI P for your lab as soon as it will get necessary!

With all these features the STOE STADI P ESSENTIALS is an ultra-flexible combination of low investment costs and the outstanding STOE hardware and data quality.

Each **STADI P ESSENTIALS** is mounted in the STADI P system cabinet. An upgrade to a full STOE STADI P system is as easily feasible as the addition of a second goniometer to implement a double setup, e.g. as shown in the picture below. The wide field of combinations are shown in the STADI P brochure.



STOE STADI P ESSENTIALS
one circle goniometer



DELIVERED WITH:

WINXPOW
POWDER DIFFRACTION SOFTWARE

STADI P ESSENTIALS	SOURCES	OPTICS	DETECTORS
Debye-Scherrer	sealed tube Ag, Mo, Cu, Co	primary monochromator	MYTHEN 1K, 2K, 3K, 4K or point detectors

Dimensions (including system cabinet, max.): 1800 x 880 x 2050 mm, weight: ca. 760 kg

STOE SINCE 1887

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