STOE

SINCE 1887



SINGLE CRYSTAL DIFFRACTOMETRY

ACCESSORIES

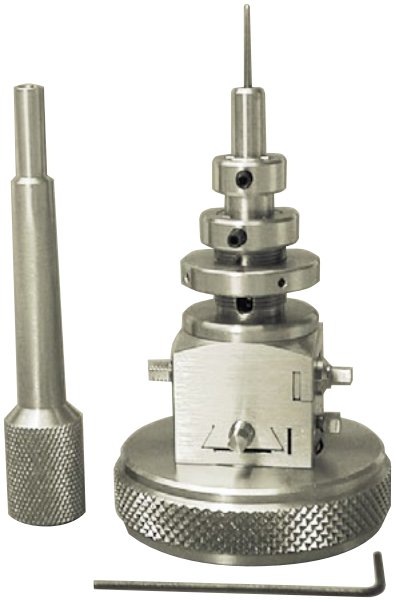
YOUR PARTNER IN X-RAY DIFFRACTION

STOE & Cie GmbH | WWW.STOE.COM

SINGLE CRYSTAL ACCESSORIES
GONIOMETER HEADS

STOE provides the suitable goniometer head for each task, whether large, standard or small, lockable x,y,z or fully height adjustable, all STOE goniometer heads are of excellent precision, have the standard IUCR mount and are delivered with the necessary equipment.





MAGNETIC GONIOMETER HEAD

- Magnetic crystal support
- No adjustment tools necessary
- Height between 67 and 110 mm
- Height adjustment without re-alignment of the crystal

ACCESSORIES

2 crystal supports

1 storage container

AVAILABLE FOR
> STOE IPDS II & 2T/STADIVARI

FULLY LOCKABLE XYZ HEAD

- Common centre of changeable height between 59 mm and 72 mm, or with short crystal mount 49 mm – 62 mm above standard base.
- Translational movement: ± 1,7 mm
- All movements within a cylinder of 28 mm Ø

ACCESSORIES

1 storage container

2 crystal supports

1 adjusting pin

1 goniometer key

1 allan key

1 piece of wax

AVAILABLE FOR
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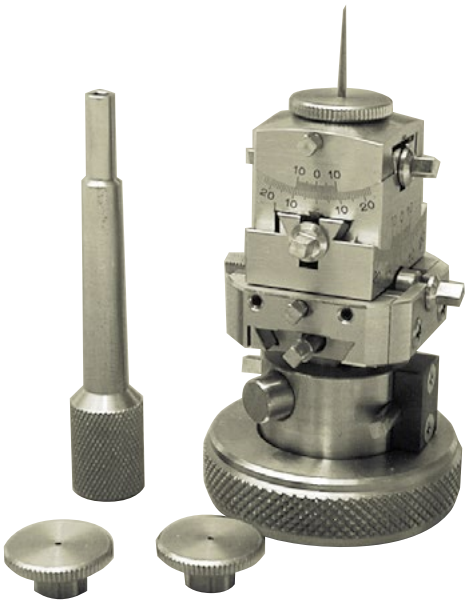
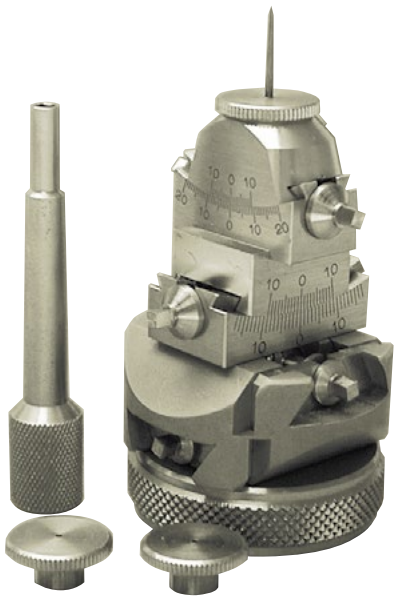




FULLY LOCKABLE X-RAY GONIOMETER HEAD WITH HEIGHT ADJUSTMENT

- Common centre of changeable height between 55 mm and 65 mm above standard base
- Translational movement: ± 4 mm
- Adjustment of arcs: ± 20°
- Reading accuracy: 0.1°
- All movements can be locked and are within a cylinder of 44 mm Ø

ACCESSORIES

1 storage container

2 crystal supports

1 adjusting pin

1 goniometer key

1 piece of wax

STANDARD GONIOMETER HEAD

- Common centre 63,96 mm above standard base
- Translational movement: ± 4 mm
- Adjustment of arcs ± 20°
- Reading accuracy 0.1°
- All movements within a cylinder of 46 mm Ø

ACCESSORIES

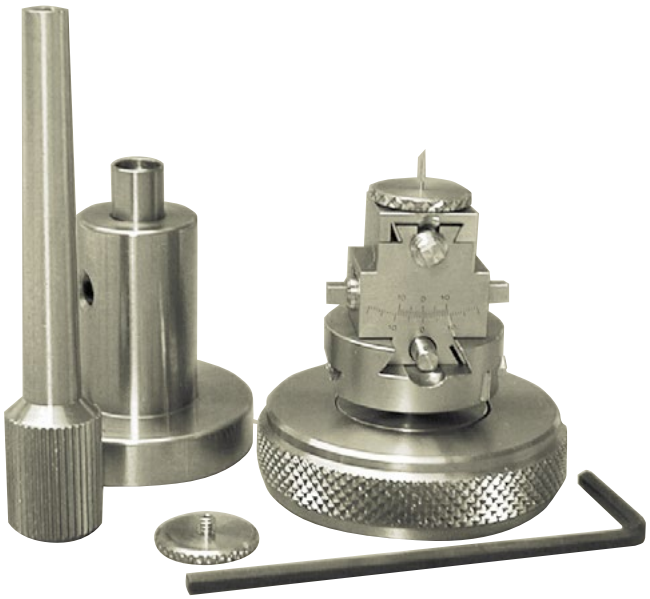
1 storage container

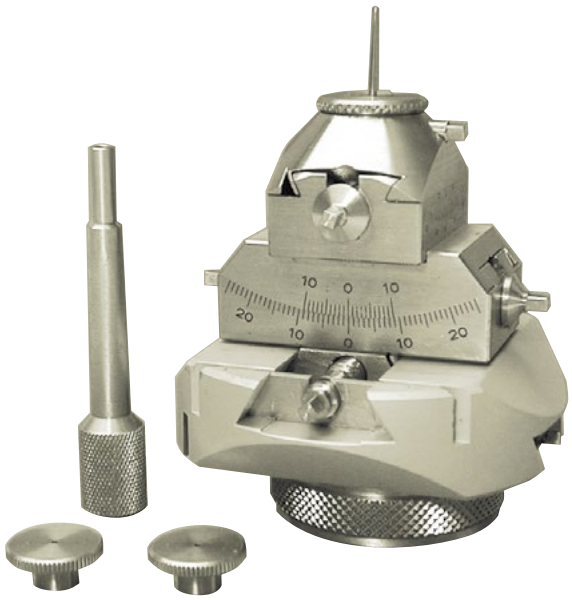
2 crystal supports

1 adjusting pin

1 goniometer key

1 piece of wax





SMALL GONIOMETER HEAD

- Common centre 33 mm above standard base or with a distance piece common centre of changeable height between 52 and 70 mm above standard base
- Translational movements: ± 1,5 mm
- Adjustment of arcs: ± 25°
- Reading accuracy: 0.1°
- All movements within a cylinder of 26 mm Ø

ACCESSORIES

1 storage container

2 crystal supports

1 adjusting pin

1 goniometer key

1 distance piece

1 allan key

1 piece of wax

LARGE GONIOMETER HEAD

- Common centre 70 mm above standard base
- Translational movement: ± 10 mm
- Adjustment of arcs: ± 27°
- Reading accuracy: 0.1°
- All movements within a cylinder of 75 mm Ø

ACCESSORIES

1 storage container

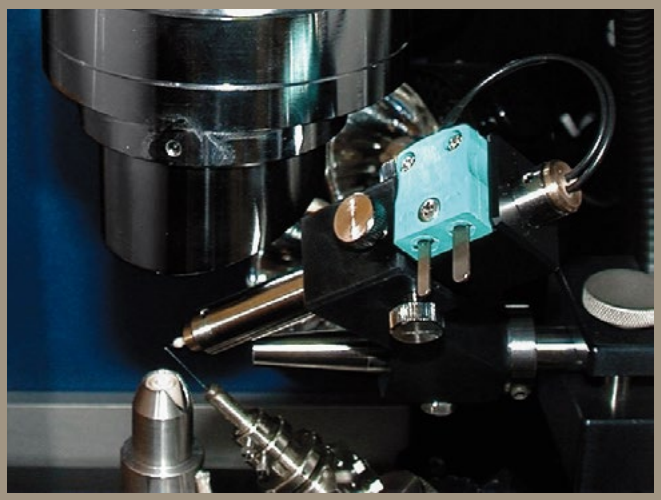
2 crystal supports

1 adjusting pin

1 goniometer key

1 piece of wax

HEATSTREAM



As non-ambient methods are becoming increaingly popular, STOE provides a powerful high-temperature attachment for the IPDS II and IPDS 2T single crystal diffractometer, the HEATSTREAM.

The crystal, mounted on the 2-circle goniometer, is positioned in a precisely tempered N2-flow (ΔT<2°) from below. The thermocouple is fitted in the closest surrounding of the crystal.

An exhaustor with a fan is positioned directly above the crystal and removes the hot gas from the diffractometer´s interior.

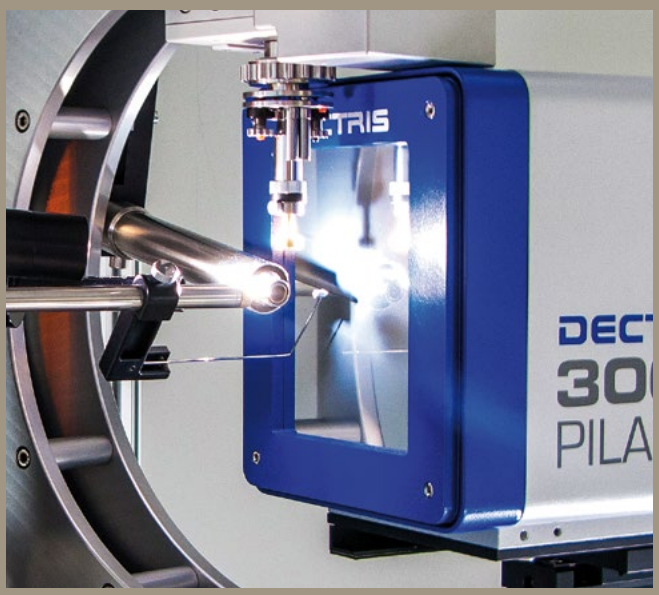
CHARACTERISTICS

- Temperature range from RT to 1100 K
- Temperature accuracy within +/-1°
- Heating medium N2 (open flow)
- Vertical gas flow for optimal sample heating

AVAILABLE FOR
> IPDS II & 2T / STADIVARI

LOW TEMPERATURE

O.E.M. attachments like the Oxford Cryosystems coolers can easily be mounted on each STOE single crystal diffractometer. The low cost and low maintenance Desktop Cooler (DTC) can be used as well as the traditional Cryostream or the non-liquid nitrogen Cobra. Other brands like Cryo Industries of America are also supported.



AVAILABLE FOR
> IPDS II & 2T / STADIVARI

X-RAY FIBRE OPTICS

On STOE's Imaging Plate Diffraction Systems **IPDS II, IPDS 2T** and the **STADIVARI** with the **DECTRIS PILATUS** detector, the normal pin hole collimator can be exchanged against an X-ray fibre optic. The use of this optic provides a gain in intensity depending on the anode material, e.g. factor 2 for Mo Kα and even more for Cu Kα.



- In this way, the well known accuracy of the data sets can be obtained in 1/2 of the exposure time with Mo radiation.
- Data quality stays the same or is even better, while no significant raise in background is observed.
- No broadening of peak halfwidths.

The X-ray fibre optic is an effective and inexpensive alternative to a rotating anode at STOE Single Crystal Diffractometers.



FREEDOM TO DESIGN
YOUR BEST SOLUTION

STOE has always been a customer-focused, fully independent medium sized company. We do our design and production for both the software and hardware in-house, so that we are able to provide you with standard as well as custom solutions. Our sole focus is to achieve the best data quality for your specific XRD needs. We have no limits in implementing the best available components, whenever it comes to quality, we accept no compromises. We are your partner in X-ray diffraction and aim to extend the boundaries of research with you. Please do not hesitate to contact us to discuss any specific solution that you are looking for.

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