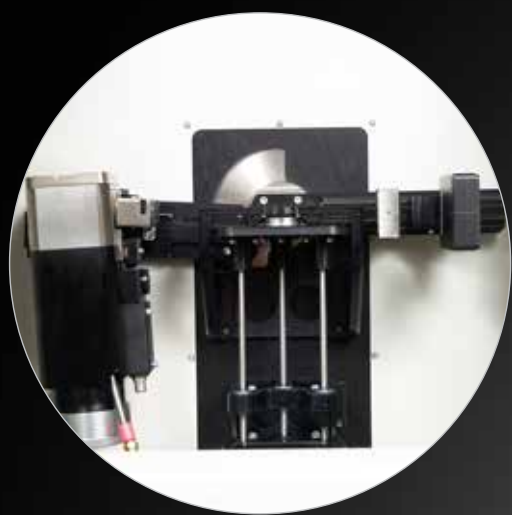


AXRD[®] THETA-THETA

Powder X-ray Diffractometer



IMPROVE
YOUR
SCIENCE™



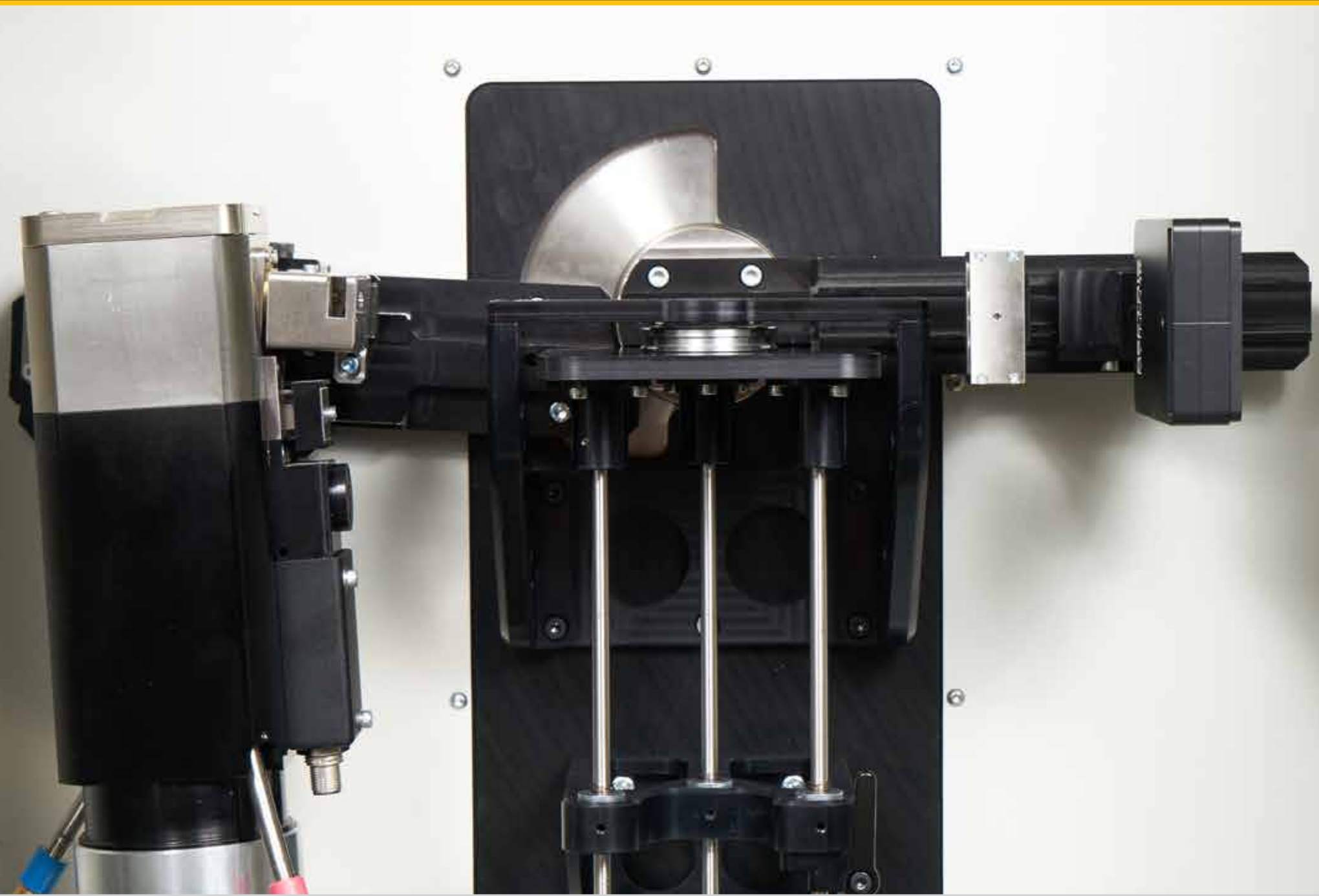
X-ray Diffraction
Systems & Services

PROTO

AXRD THETA-THETA

Non-ambient diffraction in a compact footprint.

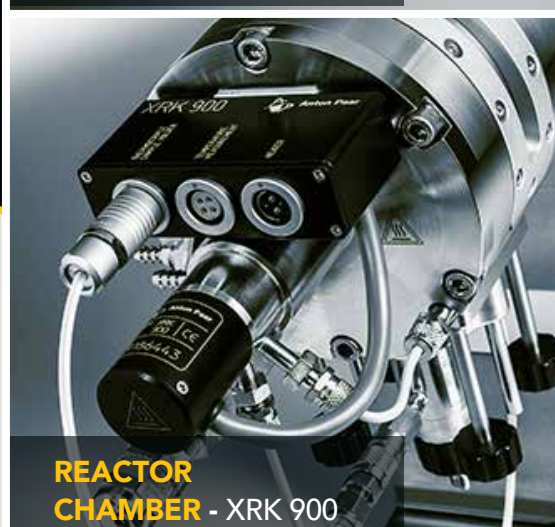
The all-new AXRD Theta-Theta has been designed to handle larger samples, or when more room is needed for experimental stages, such as temperature stages or pressure cells. The FlexStage option makes mounting large samples easy, while the fully integrated cooling system keeps facility requirements to a minimum.



LOW TEMPERATURE CHAMBER - TTK600



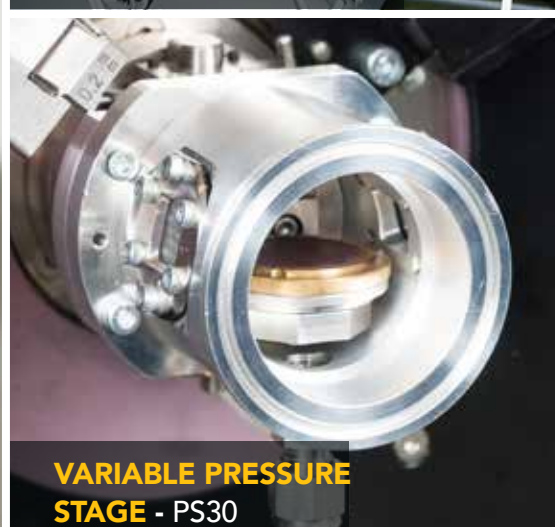
COMPACT HEATING STAGES - BTS150 / BTS500



REACTOR CHAMBER - XRK 900



HIGH-TEMPERATURE OVEN CHAMBER - HTK 1200N



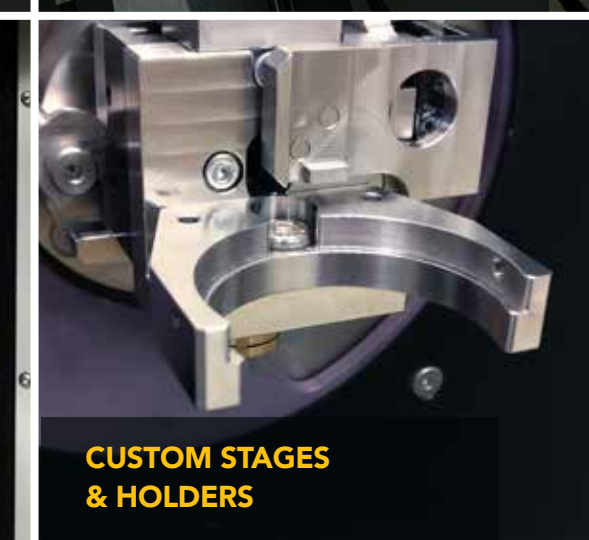
VARIABLE PRESSURE STAGE - PS30



HIGH-TEMPERATURE STRIP HEATER CHAMBERS - HTK 16N / HTK 2000N



LARGE SAMPLE STAGE - FLEXSTAGE



CUSTOM STAGES & HOLDERS

MAIN OFFICES

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| | |
|---------------------------|--|
| Geometry | Vertical Parafofocusing Theta/Theta |
| Goniometer Radius | 200 mm |
| Max. usable angular range | -4 ...150 deg 2Theta |
| Scanning Speed | 0.0001° ~ 100°/min (2Theta) |
| Max Motor Speed | 1000°/min |
| Motor Step Resolution | 0.0001° |
| Accuracy | < ± 0.02° 2Theta |
| Slits | Divergence slits, Anti-scatter slits, Soller slits, Receiving slits, multi-layer optics (parallel beam, focusing beam) |
| Achievable peak width | < 0.04° 2Theta |
| X-ray Tube | Standard: 1500W fine-focus Cu ceramic x-ray tube, optional Anodes: Cr, Co, Mo |
| X-ray tube cooling | Internal water cooling radiator and tank |
| X-ray Power Supply | 1200W |
| Detectors | Hybrid Photon Counting Detector Si Point Detector |
| Standards and Safety | Compliant with CE, ANSI N43.2, Interlocked enclosure door for auto x-ray off. |
| Sample Holders | Single, Bulk sample, Rotation, 6-sample changer |
| Non-ambient Stages | Temperature, Pressure, Humidity |
| Dimensions (W x D x H) | 171 x 100 x 61 cm (67.5" x 37.6" x 24") H x W x D) |
| Weight | 200 kg (440 lbs) |
| Power Requirements | 200-240 VAC, 50/60 Hz, 10 A, Single Phase (NEMA L6-30P) |

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