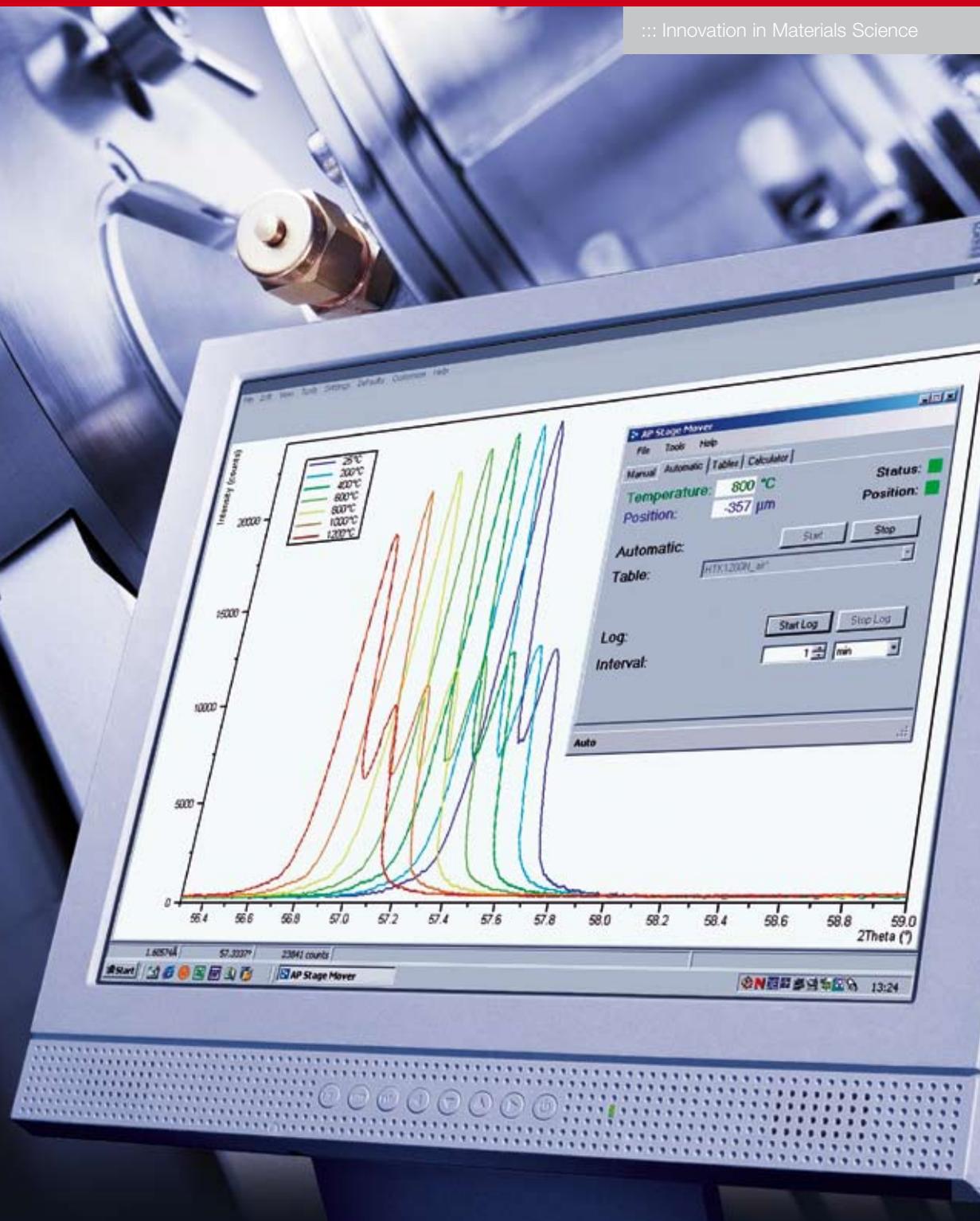




**Anton Paar**

::: Innovation in Materials Science



## AP Stage Mover Control Software for XRD Alignment Stage CC/P

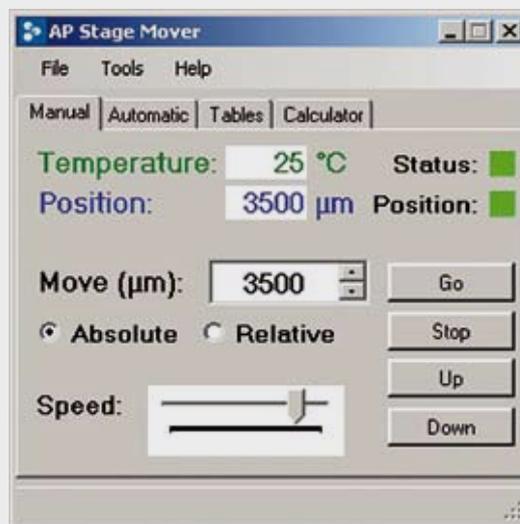
The AP Stage Mover software is a Windows-based control software for the PC-controllable alignment stage CC/P by Anton Paar GmbH.

## Keep your sample in position

During non-ambient XRD studies, sample displacement continuously takes place due to thermal expansion of the sample and the sample holder upon heating or cooling. Perfect compensation of sample height variations is indispensable for diffraction data of high quality however.

Fully automatic, precise height alignment of the sample is now possible with the PC-controllable alignment stage, a stepper motor driven z-stage for all Anton Paar non-ambient attachments for 2-circle goniometers.

Based on pre-defined alignment curves, the AP Stage Mover program automatically moves the alignment stage to the right position to compensate the temperature induced sample displacement.



## Automate your non-ambient experiment

The AP Stage Mover software is designed to run in parallel to any diffractometer control software. The intuitive design of its graphical user interface makes the program easy to understand and straightforward to apply.

The AP Stage Mover software can read the sample temperature value which is exported from the diffractometer control software. Based on the sample temperature and a selected alignment curve it automatically compensates temperature-induced displacement of the sample.

This feature allows to perform fully-automated high/low temperature XRD experiments with numerous temperature steps or continuous temperature variation including synchronized precise sample realignment.

## Main Features

- ▶ Automatic alignment of the sample height depending on the sample temperature.
- ▶ Default alignment tables for various non-ambient attachments and sample environments.
- ▶ Up to 20 user-definable tables to store individual alignment curves.
- ▶ Data logging to monitor the automatic alignment of the sample.
- ▶ Various control options for easy manual alignment of the sample height.
- ▶ Clearly arranged graphical user interface designed to be used in parallel to the diffractometer control software.

## Hardware System Requirements

**CPU:** Intel Pentium III or compatible at 1 GHz or better.  
**RAM:** At least 256 MB on Windows 2000 or Windows XP (512 MB or more recommended depending on the number of other applications that run in parallel).  
**Video:** 800 x 600 with 256 colors required (1024 x 768 at high color recommended).  
**Hard disk:** 200MB free disk space.  
**Communication Port:** 1 free RS232 I/O.  
CD-ROM drive or network connection, keyboard, mouse.

## Software System Requirements

**Microsoft Windows 2000** Professional SP4 (with Service Pack 4 or higher) or **Microsoft Windows XP** Home/Professional SP2 (with Service Pack 2 or higher).

### Additional Software:

Microsoft.NET Framework 2.0 (supplied and automatically installed together with the AP Stage Mover program).

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### Instruments for:

Density & concentration measurement	Colloid science
Rheology and viscometry	X-ray structure analysis
Sample preparation	CO <sub>2</sub> measurement
Microwave synthesis	High-precision temperature measurement



Specifications subject to change without notice.

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