# TITANIUM

A revolutionary step in AFM design

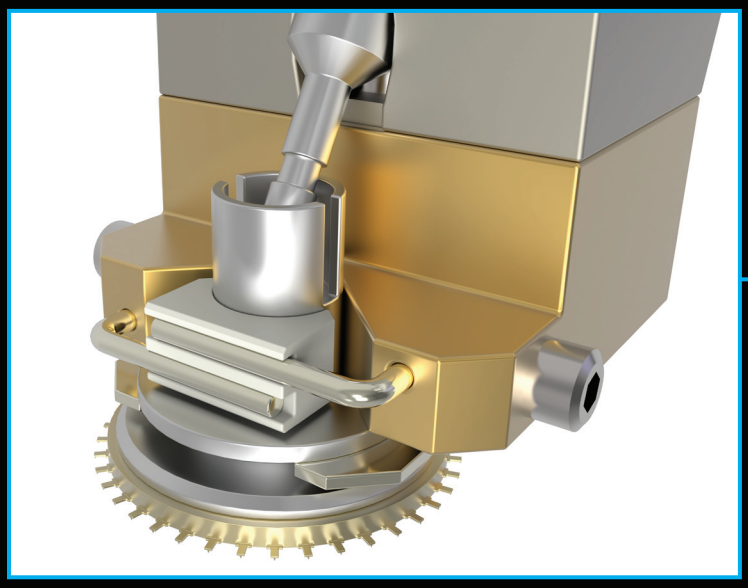

NT-MDT

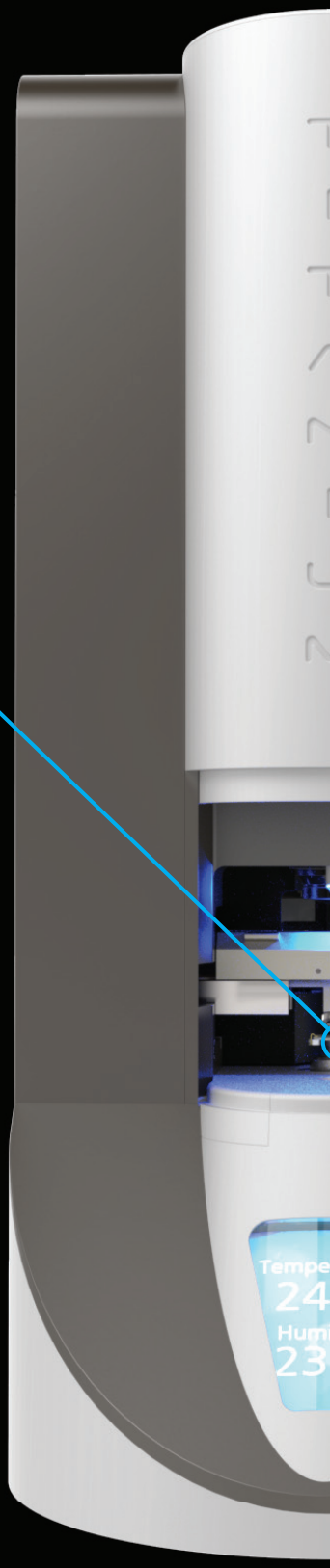
# The latest in AFM innovation

Experience amazing performance at the touch of a button

## Revolution Cartridge

The new Revolution Cartridge with multi-probe technology for automated replacement of cantilevers makes a breakthrough in AFM usability





### 38 tips on cartridge

Unique probe fabrication technology for automated replacement of cantilevers.

### Fast automated tip exchange

By greatly simplifying one of the most challenging start up operations – cantilever exchange - the Revolution Cartridge makes system tuning fast and easy for users.

### Fully automated operation

This results in simplified operation which means AFM can be managed by researchers or users of any skill level.

### No AFM downtime to exchange probes

Reduced tuning time & maintains scanning area resulting in less time wastage when running AFM scans.

## HybriD mode

NT-MDT are one of only a couple of companies that can bring you ultra high resolution modes. HybriD mode delivers clear quantitative results in nano-mechanical research and utilizes an innovative approach to accurate AFM imaging. Precise force control delivers critical advantages in comparison with common AFM techniques.

## Exceptionally Low Drift

The lowest drift values on the market today, only **0.2nm/min.** High resolution imaging is made routine with Titanium low drift values.

## Long Term Stability

The highly stable system design of Titanium combined with an extremely low noise value for OBD (**25fm/√Hz**) contributes to the systematic and routine production of high resolution imaging.

## Multifrequency AFM

5 lock-in amplifiers open the freedom for running electrostatic, piezoelectric, and mechanical applications in one single pass of the sample. This enables you to accurately explore properties about your sample in one, time-saving scanning session.

## Support for every step of the way

NT-MDT are proud to triple your warranty to ensure your studies are uninterrupted with product issues. In addition we will supply you with FREE cantilevers for 3 years*.

* Based on a fair usage policy of cartridges (TBD).


NT-MDT

*Your AFM & Raman Company*



*NT-MDT Co.*
*Building 100,*
*Zelenograd,*
*Moscow 124482,*
*Russia*

*NT-MDT S&L*
*NT-MDT House,*
*National Technological Park*
*Castletroy,*
*Limerick,*
*Ireland*

*NT-MDT America*
*7910 S. Kyrene Rd.,*
*Suite 107,*
*Tempe,*
*AZ 85284*

*NT-MDT Shanghai*
*Room 18D,*
*Cross Region Plaze,*
*No. 899 Lingling Rd,*
*Shanghai 200030,*
*PRC*

*TITA BR-02 01 00*