

Technical specifications:  
 Nanotec Scanning Probe Microscope  
 SPM Optical Chassis



SPM chassis with XY screws for the use with  
 optical microscope

Nanotec<sup>®</sup> Optical chassis for SFM/STM with X-Y motion control through micrometric screws. It consists on a basis of 30 x 30 cm over which the SFM chassis is mounted. Between the table and the chassis there is an allocated place for the scanner and its connections. Those are protected by a surrounding anodized steel tube. It is designed for its combination with an optical microscope for accurate tip position control (classic chassis without XY screws will be delivered for systems without optical microscopy).

<b>Overall Dimensions: 30 x 30 x 25 cm (12 x 12 x 10 inch)</b>
<b>Available horizontal sample size: 2cm x 2cm (0.8 x 0.8 inch)</b>
<b>Available vertical sample size: 7mm (0.28 inch)</b>
<b>Coarse horizontal positioning range: 3mm x 3mm (0.12 inch x 0.12 inch)</b>
<b>Micrometers range for positioning below the optical microscope: 26mm x 26mm (1.02 inch x 1.02 inch)</b>
<b>Approach:</b>
One motor for the automatic approach and two micrometer screws for manual approach.
Approach micrometer screws range: 13mm (0.5 inch.)
The three support points allow easy selection of any tilt direction for the head, providing easy selection of the cantilever to use when using multicantilever chips
<b>Open configuration:</b>
Easy access to the approach system for manual or automatic approach
Easy swapping of the piezoelectric scanner
<b>Vibration isolation:</b>
Four soft-balls are provided to give a basic isolation for the system.
Two springs for retention of the head
<b>Atmosphere control:</b>
Glass cover for atmosphere control and acoustic and ambiental isolation.
Three configurable holes - 12mm (0.47 inch.) diameter - for atmosphere control.
<b>Other options: Classic chassis or mini chassis</b>