



MODEL 2553

Analytical Cryo Transfer Tomography Holder

Cryo transfer and tomography of thin-film frozen-hydrated/vitrified specimens for low-dose imaging and optimized energy dispersive X-ray spectroscopy (EDS) analysis. The beryllium holder tip and clamp minimize X-ray interference for elemental and composition analyses. For use with Thermo Fisher Scientific transmission electron microscopes (TEM), including those having Ultra-X detectors.

Model 2553 Analytical Cryo Transfer Tomography Holder specifications

Holder type	A single-tilt holder for cryo transfer and tomography of thin-film frozen-hydrated/vitrified specimens optimized for EDS analysis Can be used in microscopes with restrictive pole-piece geometries
Specimen clamp/holder tip material	Beryllium*
Cryogen	Liquid nitrogen
Specimen grid size	3 mm diameter
Field of view	In nonrestrictive pole-piece geometries: 2 mm diameter at 0° tilt ; 0.6 mm diameter at 70° tilt In restrictive pole-piece geometries: 0.1 to 0.5 mm at 65°
Resolution	Better than 0.20 nm at 0° tilt
Drift	< 1.5 nm/min
Maximum tilt range	Up to ±70°
Dewar capacity	200 ml
Maximum operating temperature	Up to 100 °C
Maximum bake-out temperature	Up to 100 °C
Minimum operating temperature (tip retracted)	< -175 °C
Time to reach minimum operating temperature	< 15 minutes (in microscope)
Hold time at minimum operating temperature	> 4 hr

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Warranty

One year

*See the product's instruction manual for safety information regarding working with and disposing of instruments with beryllium components. All specifications depend on the microscope model, pole-piece type, and aperture position. For ultimate resolution and drift performance, the TEM must meet the manufacturer's specifications.



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