



DUAL GRID CRYO TRANSFER HOLDER

- ✓ Accepts two clipped-in Autoloader grids or two standard 3 mm TEM grids.
- ✓ Optimized workflow including holder handling and sample loading.
- ✓ Extended LN₂ hold time of approximately 10 hours without refilling.
- ✓ Tip width of 4.5 mm and tip thickness of 1.5 mm allows for wide tilt range.
- ✓ Steady-state tip temperature ~ -175°C; temperature stability better than +/- 0.1°C per hour
~ Resolution better than 2.4 Å*.
~ Drift rate better than 2 nm/min*.
* Precise value depends on the specific TEM.
- ✓ Axisymmetric dewar design for high tilt stability.
- ✓ Improved shielding capability during cryo transfer.
- ✓ Grid selection using a knob on the dewar.
- ✓ Compatible with Thermo Fisher (FEI), JEOL and Hitachi 7800-series TEM platforms.

CRYO WORKSTATION

- ✓ Workstation layout designed for efficient grid transfer under cryo conditions.
- ✓ Internal LED light for better visibility.
- ✓ Liquid nitrogen hold time of 30 min without refilling.
- ✓ Built-in heater for defrosting and warmup.

TEMPERATURE CONTROLLER AND MONITOR

- ✓ Precise tip temperature monitoring.
- ✓ Regeneration of activated carbon within the holder dewar.
- ✓ Holder warmup to room temperature.
- ✓ Additional temperature monitor provides convenient access near TEM.

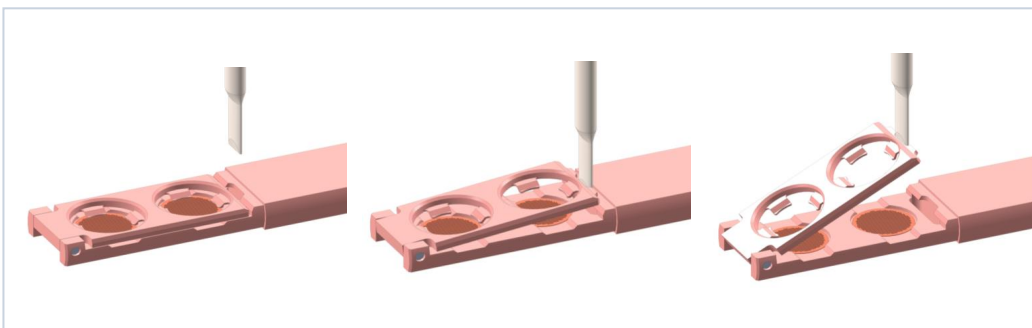
Dual Grid Cryo Transfer Holder

Two-grid capacity, long LN₂ hold time, low drift, and protected transfer for high-resolution TEM workflows.



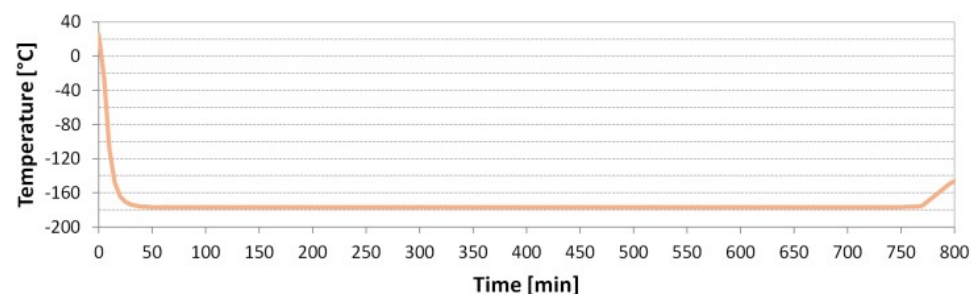
Dual-grid holder and dedicated cryo workstation

The holder provides a long LN₂ hold time (up to 10 hours without refilling), effective cryo protection during cryo transfer and a low tip profile for wide tilt range (1.5 mm tip thickness). The holder accessories include a workstation with built-in LED, heater and separate units for tip temperature readout and regeneration of activated carbon.

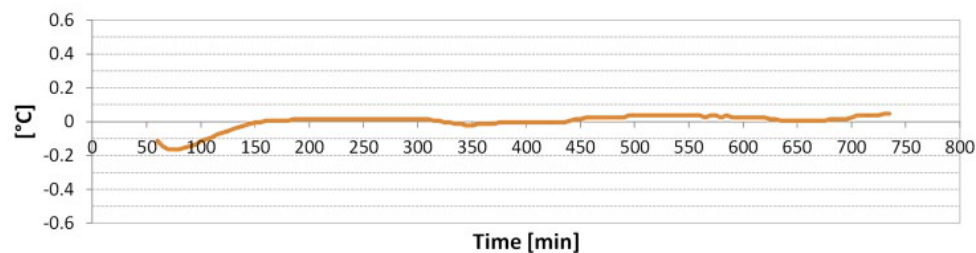




Model 200 cooled in TMP station



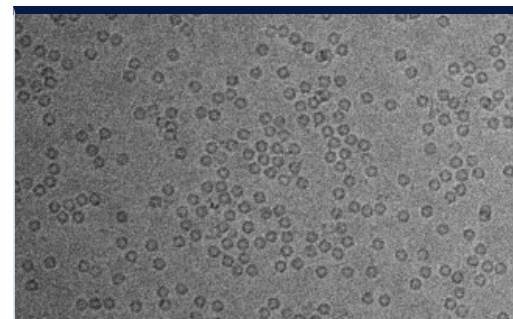
Deviation from mean value -176.5 °C (between 60 min and 735 min)



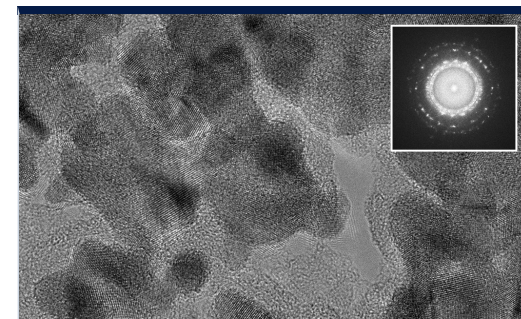
Open specimen clamp



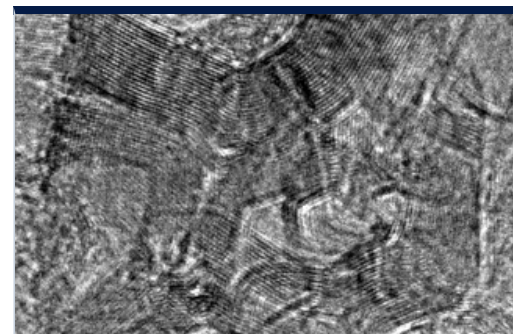
Closed specimen clamp



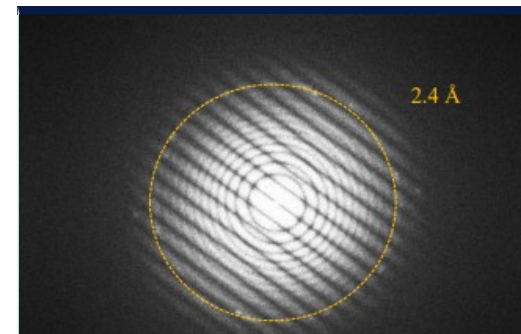
Apoferritin particles. Courtesy of Dr. Thorsten Mielke, Jörg Bürger, MPI for Molecular Genetics, Berlin, Germany.



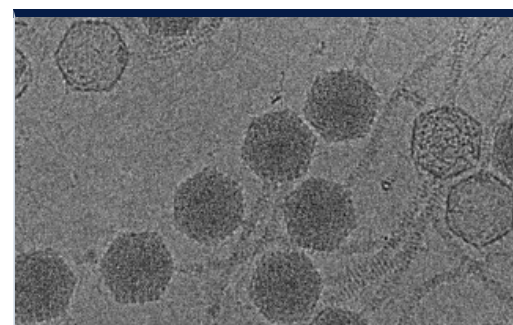
Gold islands on a combined test specimen



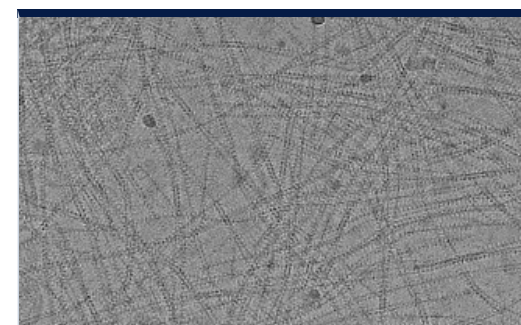
Graphitized carbon



Young fringes of carbon sample with gold islands on a combined test specimen. 2.4 Å



Lambda Phage particles. Courtesy of Dr. Alexis Huet, Dr. Robert Duda, Dr. James Conway, University of Pittsburgh, USA.



Bactofilin filaments. Courtesy of Dr. Jan Löwe, MRC Cambridge, UK.