

HPD

# Kilimanjaro 125

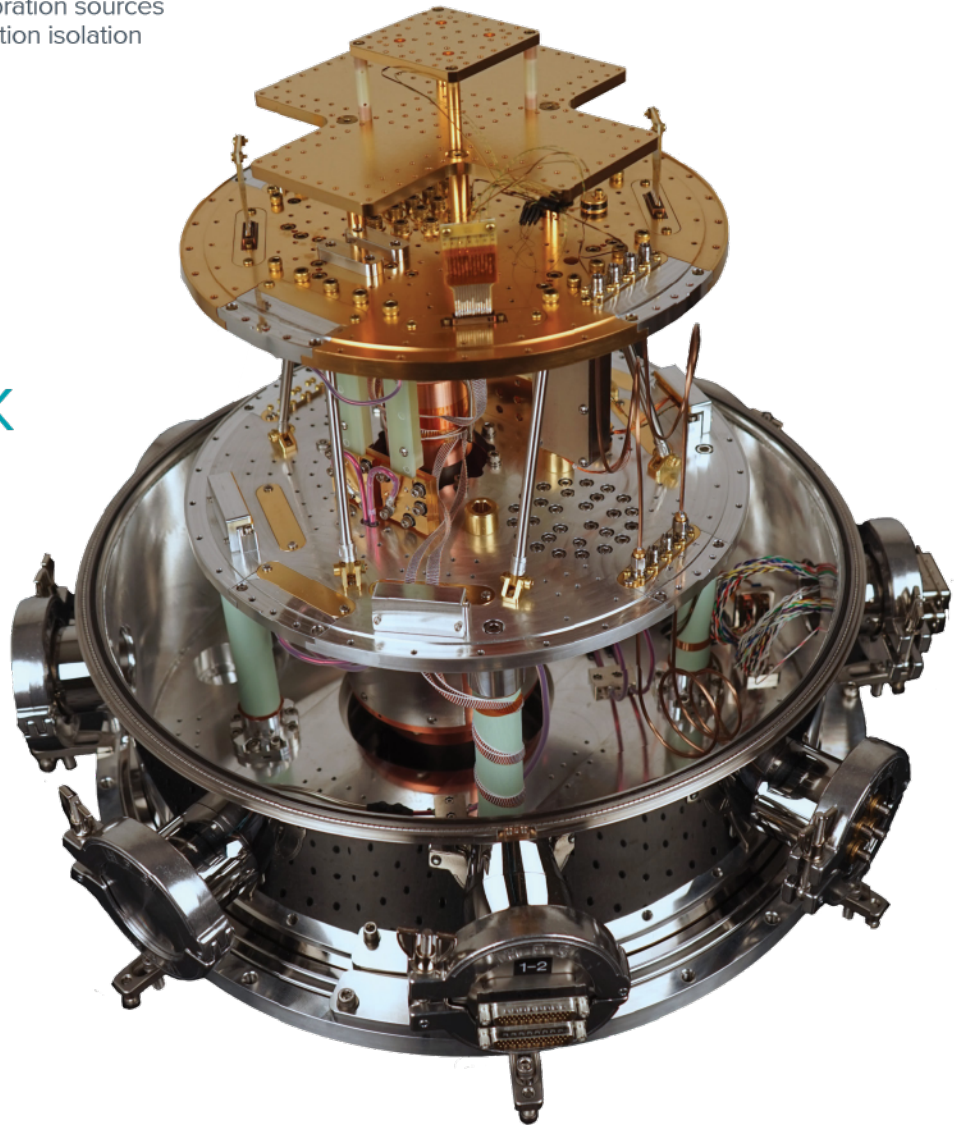
Low Vibration, True 4 K Probe Station

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## ➤ Overview

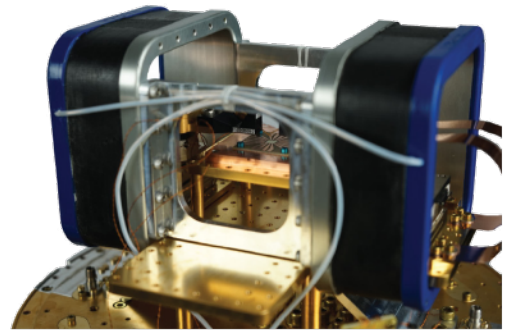
The Kilimanjaro 125 Low Vibration Probe Station is designed for researchers that need a true 4 K temperature probe station with a low vibration environment. The high cooling capacity, low base temperature, and low vibration provide a unique experimental setup for testing of superconducting devices and materials. The 4 K stage of the probe station is isolated from system vibration sources and integrated into an optical table for vibration isolation from the environment.

When you need  
low vibration at 4 K



## > Features

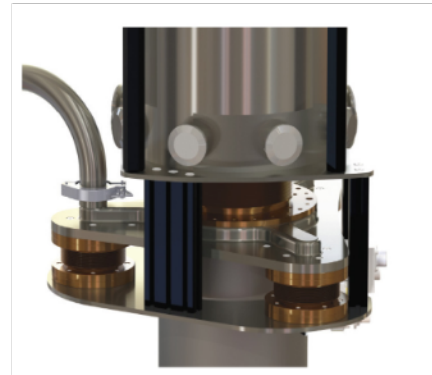
- Low vibration from < 1 Hz to 1 kHz
  - Opposed bellows
  - Passive isolation
  - Active isolation (optional)
- 4 K platform with quick access
- 4 K electrical and fiber optic feedthroughs
- Expandable, modular construction
- Easy, flexible I/O
  - 8x NW50 flanges below the table
  - 8x HPD standard cable feethrough flanges on 50 K and 3 K plates
  - Cable feedthroughs on base flange above the table
  - Standard ports for DC, RF & optical fibers 8x HPD standard cable
- Smart controls
  - Pushbutton auto cooldown from atmosphere
  - TCP/IP control
- Cryogen-free



Create the right sample environment with options such as horizontal and vertical magnetic fields.

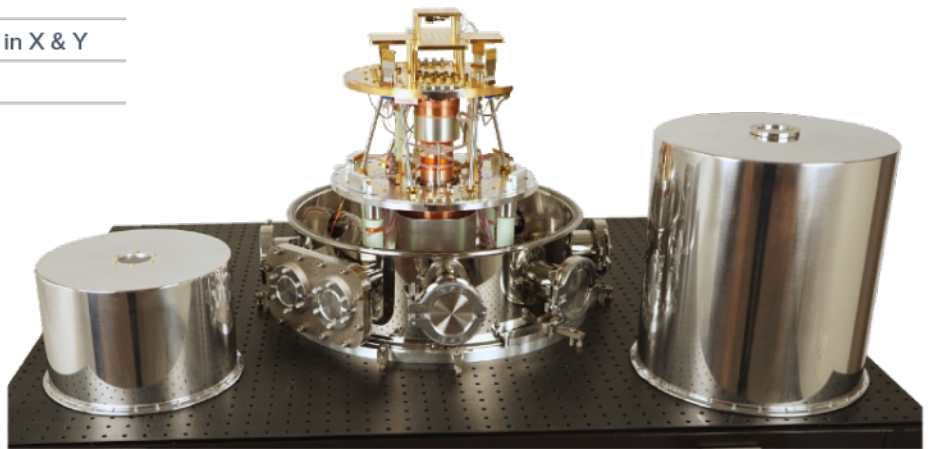
## > Design Specifications

- 25 cm dia. by 16 cm tall 4 K experimental space
- 1.5 W cryocooler
- 1 W thermal lift at cold stage at 4.2 K
- < 4 K base temperature
- < 50 nm vibration stability, peak to peak
- < 5 mK temperature stability
- < 10 hr cooldown
- System will scan a 20 mm chip
- Attocube positioners with 5 mm travel in Z, 20 mm in X & Y
- 50 K and 4 K radiation shields



Counterbalanced bellows are just one step in the innovative vibration dampening system.

50 K and 4 K thermal shields help ensure a 4 K sample environment.



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