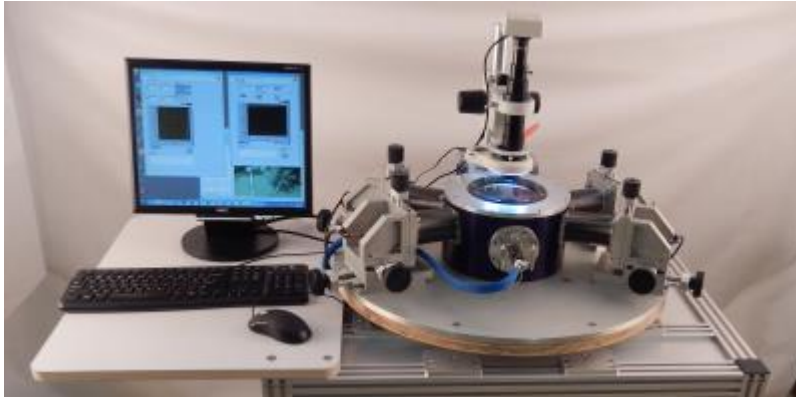


GM Cooler Probing System

Model: KREUS-GmC-PS

- ▶ Cooled with GM Cryo Cooler System/No Liquid Helium
- ▶ Turn on Switch and Cool down to below 20K
- ▶ Mechanical Vibration is effectively isolated



Attached photo for Image only but may not represent actual system

■ Construction

1. GM Cryo Cooler
2. Probe Vacuum Chamber
3. Temperature Control Unit
4. 4 Probe Manipulators
5. CCD Camera & Mono Scope
6. LCD Monitor
7. System Stand
8. Vacuuming Pump

■ Specifications

- ☆ Temp. Range : Below 20K ~ 300K
- ☆ Sample Size : 25mm x 25mm
- ☆ Probe Stroke : X, Y ± 15 mm Z ± 6 mm
- ☆ Feed through : 4 Triaxial Connectors
- ☆ Vacuum : ~ 10⁻⁴Pa
- ☆ System Size : W720mm x D700mm x H1300mm

■ Cryocooler Option and Estimated Temperature Specifications

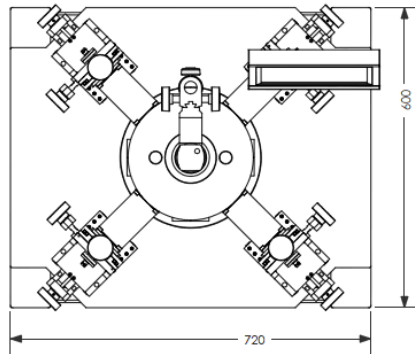
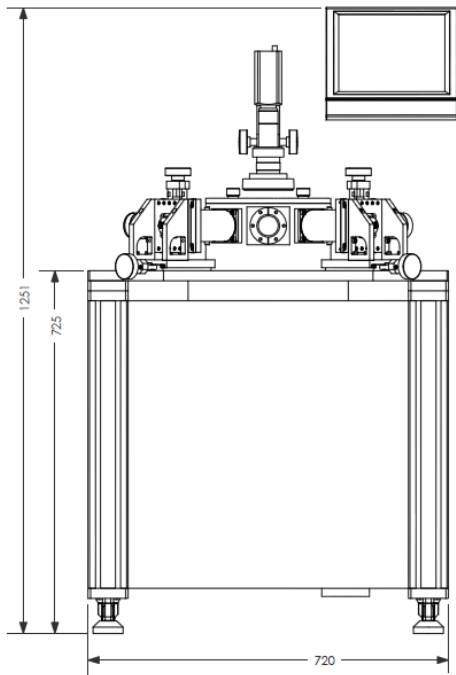
Cooling Options	Cooling Power (Spec, 60Hz)	Achievable Temp*	Possible ultimate Temp*	Power Consumption
RDK-415D	1.5W @ 4K	< 10K	5K	8.5kW
RDK-101D	0.1W @ 4K	< 20K	15K	1.5kW
CH204N-HC8E4	3W @ 10K	< 15K	10K	4.5kW
CH204-HC8E4	2.2W @ 20K	< 20K	15K	4.5kW

*Temperature at Sample Holder. Specifications are not guaranteed but depending on system configuration



Kreus Design Inc.

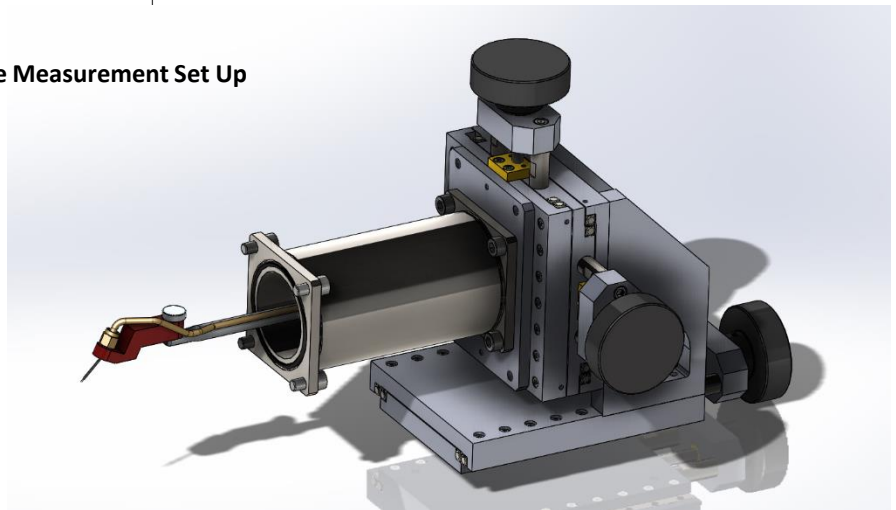
2393 Welcher Ave., unit 302 Port Coquitlam, British Columbia V3C 1X6
Tel :+1 604 945 6639; Fax: +1 604 229 6156; e-mail: epistle@kreus.com



System Reference Drawing

Extra space for compressor unit, vacuuming pump, water connection is needed

Manipulator / Microwave Measurement Set Up



◇ Options

1. Bias Measurement Unit (~100V)
2. Ultra Low Noise Application ($< \pm 1\text{pA}$)
3. Lower Temperature to below 5K
4. High Vacuuming System
5. Convection Vacuum Gauge ($\sim 10^{-4}\text{Torr}$)
6. Probe Side Monitor (CCD Microscope & Monitor)
7. Tungsten Probe Needle
8. Gold Plated BeCu Probe Needle
9. Tungsten Ultra Thin Probe Needle
10. Soft Contact Dumper
11. BNC/Triaial/SMA Adopter Connectors

* Specifications may change without notice