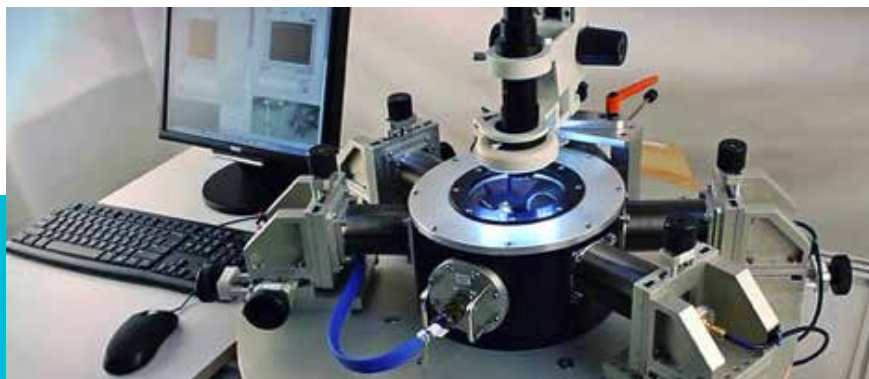


# Organic Chemistry ProbeStation

Model : **KREUS-OES-I**

- High vacuum
- Automated gas delivery
- SMU acquisition
- Electronics
- Lab view user interface



Attached photo for image only, may not represent actual system.

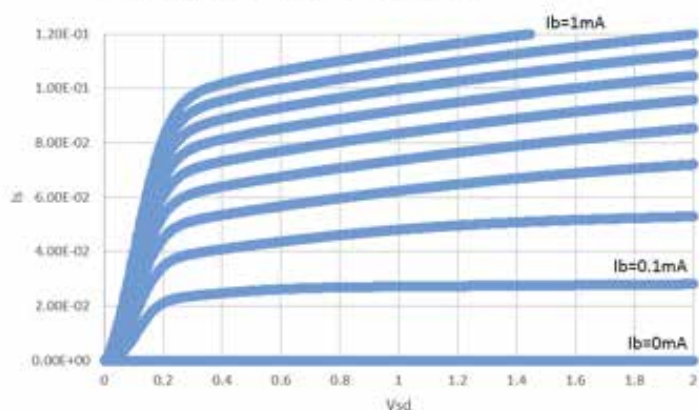
## CONSTRUCTION

1. Source measurement Unit
2. Probe vacuum chamber
3. Temperature control unit
4. Four probe manipulators
5. CCD camera & mono scope
6. LCD monitor
7. System stand
8. Turbo vacuum pump
9. Anti vibration table

## SPECIFICATIONS

- Temp. range :** 20C to 150C +/- 0.25C  
**Sample size :** 25mm x 25mm  
**Probe stroke :** X, Y ± 15mm ; Z ± 6mm  
**Feed through :** 4 triaxial connectors  
**Vacuum :** <math>10^{-6}</math> mBar  
**System size :** 680mm x 700mm  
**Gas delivery :** 10sscm and 100sscm  
**PID pressure control :** > 2.5 E-3 mBar / MFC 1  
 > 250 E-6 mBar / MFC 2  
**Voltage :** 200mV to 200V +/- 5uV  
**Current :** 100nA to 10A +/- 2pA  
**Channels :** 2

Transistor Ref. Is vs. Vsd @ Ib=cst.



Transistor reference curve. Is vs. Vsd @ Ib = cst.

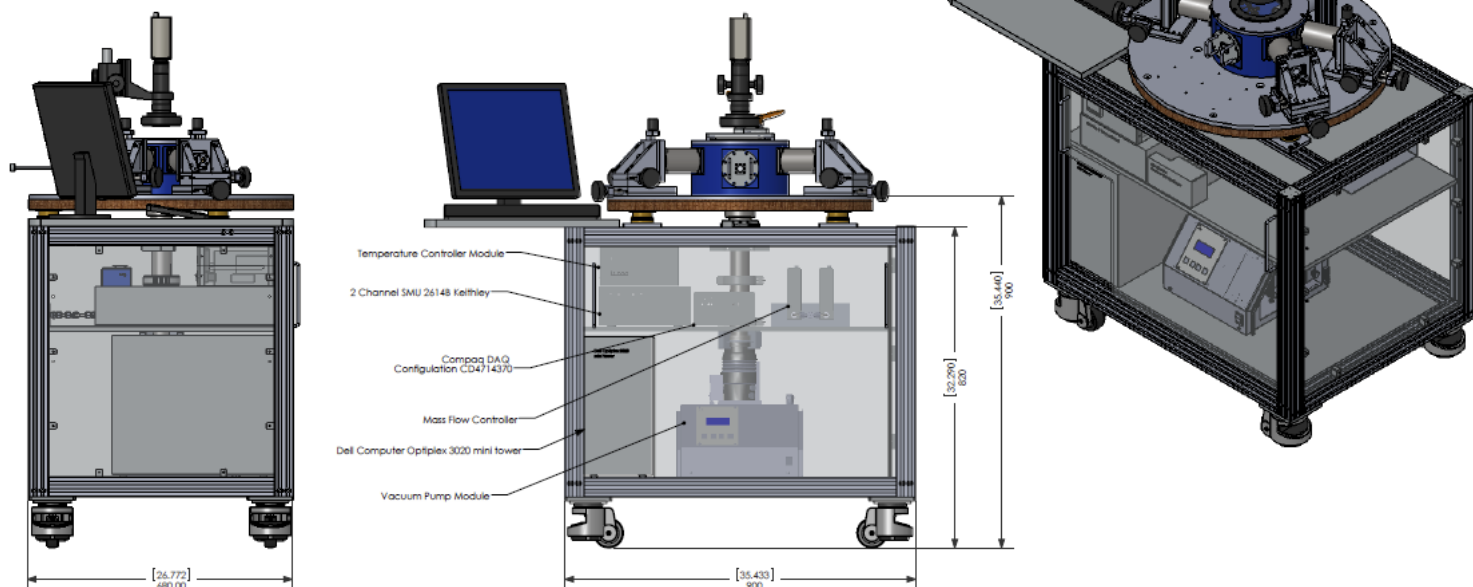


Vacuum sample transfer system.



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## MULTI-PROBE STATION

+ Compatibility with third party contact probes (Kreus, Microprobe, Cascade).

+ Industrial/scientific machine vision.

+ High Vacuum transfer chamber option for sample holder.

+ Temperature control (cryogenic and/or high temperature).

+ Custom sample holder from sub-millimeter up to 50mm with integrated heater and flexible electrical contacts.

+ Quantitative gas delivery system (automated parallel mass flux controller).

Probe stations are essential R&D characterization tools. KREUS has designed a new platform specifically tailored for highly sensitive materials like organic semi-conductors or delicate devices. We have developed a sample transfer scheme that allows in situ sample installation and environmentally controlled transport into the probe station chamber. We have developed a robust gas handling system to allow measurements under various inert gas to help preserve sample integrity.

