EVERBEING

# Model:CG-196

## Cryogenics Probe Station


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## Cryogenics Probe Station

### Features:

- Temperature range 77 degree K to 480 degree K
- Rugged Stucture with all frame welded
- Re-positioning the tip from outside micropositioner
- Bridged-Frame Microscope with easily opening the chamber
- Microscope could be moved precisely by microscope stage X-Y 1"-1"
- Up to 6 micropositioners at a time
- Optional 10pA leakage level
- Optional Vibration free table
- Optional high vacuum chamber

### Specifications:

- Chuck 40mm dia.
- Temperature range 77 degree K to 480 degree K
  Resolution 0.1 degree C
- Liquid Nitrogen Dewar 50 liter
- Micropositioner travel X-Y-Z Linear 25mmx25mmx25mm
  Resolution 10 micron
- Microscope X-Y Stage 1"x1"
  Zoom 0.7X~4.5X
  Eyepiece 20X
  Total Mag.14X~90X
  Light Box 150W Light Stepless Control
  Dual Goose neck Fiber Optic Guide
  Leveling Leg 4 sets

### Requirements:

- Power 220V 60Hz 1500W
- Liquid Nitrogen 50 liter
- Gas Nitrogen Tank

### Dimensions:

- Dimension 1300mmWx1100mmDx1500mmH
- Weight 300 Kg

### Operations:

- Temperature Controll Module

  For the temperature less than room temperature,the chuck has to be cooled down by liquid nitrogen to the temperature less than the preset one.PID controller will precisely control the temperature to the preset by heating up the heating element inside the chuck.
- Liquid Nitrogen Module

  Gas nitrogen is required to pressurize the dewar to push the liquid nitrogen out.

  Liquid Nitrogen volume could be controlled by gas nitrogen pressure, liquid nitrogen inlet valve & liquid nitrogen outlet valve
- Vacuum Chamber Module

  The vacuum is generated to the rated 10-3 torr by vacuum pump for cryogenic application.

  BNC Female feedthru is available for connecting the signal to the test instrument.

  The vacuum Pump comes with exhaust filter to avoid the pollution to client environment.
- Micropositioner Module

  All micropositioner are located outside the chamber.This will help the engineer to probe thru the bellows after the vacuum set-up without the need for venting the chamber.Especially,when the temperature is going down,the wafer will shrink itself to shift the tip outside of pad.Engineer need to probe the tip onto the pad again .
- Microscope Module

  Microscope could be moved quickly to aside on bridged-typed microscope frame for easily opening the chamber cover. Microscope view is directed thru the view port on top of the vacuum chamber.

  If the 2nd target is out of view after the 1st tip landed,microscope view could be moved to the 2nd target by microscope X-Y Stage.Light instensity could be adjusted Steplessly.Dual Goose neck could be positioned and directed to the target separately

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