

## SUCCESSFUL APPLICATION: HIGH POWER - 0216



### Specific Requirements:

The customer involved with the CERN Program required a flexible 300 mm semi-automatic system to test high voltage sensor arrays and a variety of other devices. The system would need high and low temperature capabilities. Manual manipulators with a few different standard as well as high voltage (HV) probe arms were required. The system needed the ability to test devices that ranged from 1 kV to 10 kV. The system would get interfaced to Keysight B1505 test instrumentation.

### SemiProbe Solution:

- PS4L SA-12 Semi-automatic 300 mm probe system:
  - 305 mm x 305 mm programmable X, Y and Z wafer stage
  - 300 mm thermal chuck with a triaxial HV surface that operates from -60 °C to 200 °C.
  - Localized environmental chamber with a top hat
  - PILOT Software Suite – Navigator, Wafer Map and Autoalign
- Compound microscope bridge with a 50 mm x 50 mm X and Y microscope movement and an 80 mm pneumatic Z lift
- Compound optics and CCTV System
- Six manual manipulators with a variety of probe arms – coax, triax and high voltage (3 kV and 10 kV)
- Vibration isolation table with a laser light safety curtain
- Interlock panel mounted to the plexiglass cover and containing a variety of feedthroughs and a safety interlock