

# Cascade PLC50

Cost-effective, Ice- and Condensation-free Manual Wafer Probing Below 7 K

## Microscope

- Zoom microscope with camera and illumination
- Video monitor

## Cryogenic system

- Temperature range: < 7 K to 400 K
- Continuous flow cryostat with supply tank, transfer line and exhaust pumps
- Temperature controller

## Vacuum chamber

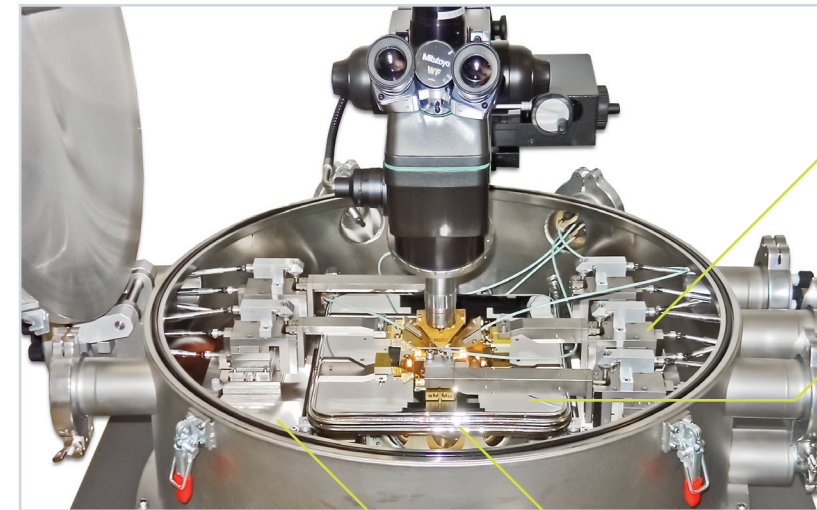
- Wide pressure range from atmospheric to high vacuum (< 1 E<sup>-5</sup> mbar)
- Hinged chamber lid for easy access
- Space for cabling and additional electronics inside
- DC and RF electrical feed through flanges

## Vacuum control

- High-vacuum pump unit
- Turbo molecular pump directly connected to the chamber

## Vibration isolated mainframe

- Pneumatic vibration damping
- Rigid framework and base plate



## Positioners

- Inside vacuum chamber for excellent mechanical stability
- Linear backlash-free movement
- Reliable and repeatable contact

## Chuck stage

- High-precision, linear two-axis stage for high throughput
- XY travel up to 80 mm
- Easy to control from outside the chamber
- Wafer/sample size up to 100 mm
- Optional triax add-on for accurate measurements over chuck

## Measurement setup

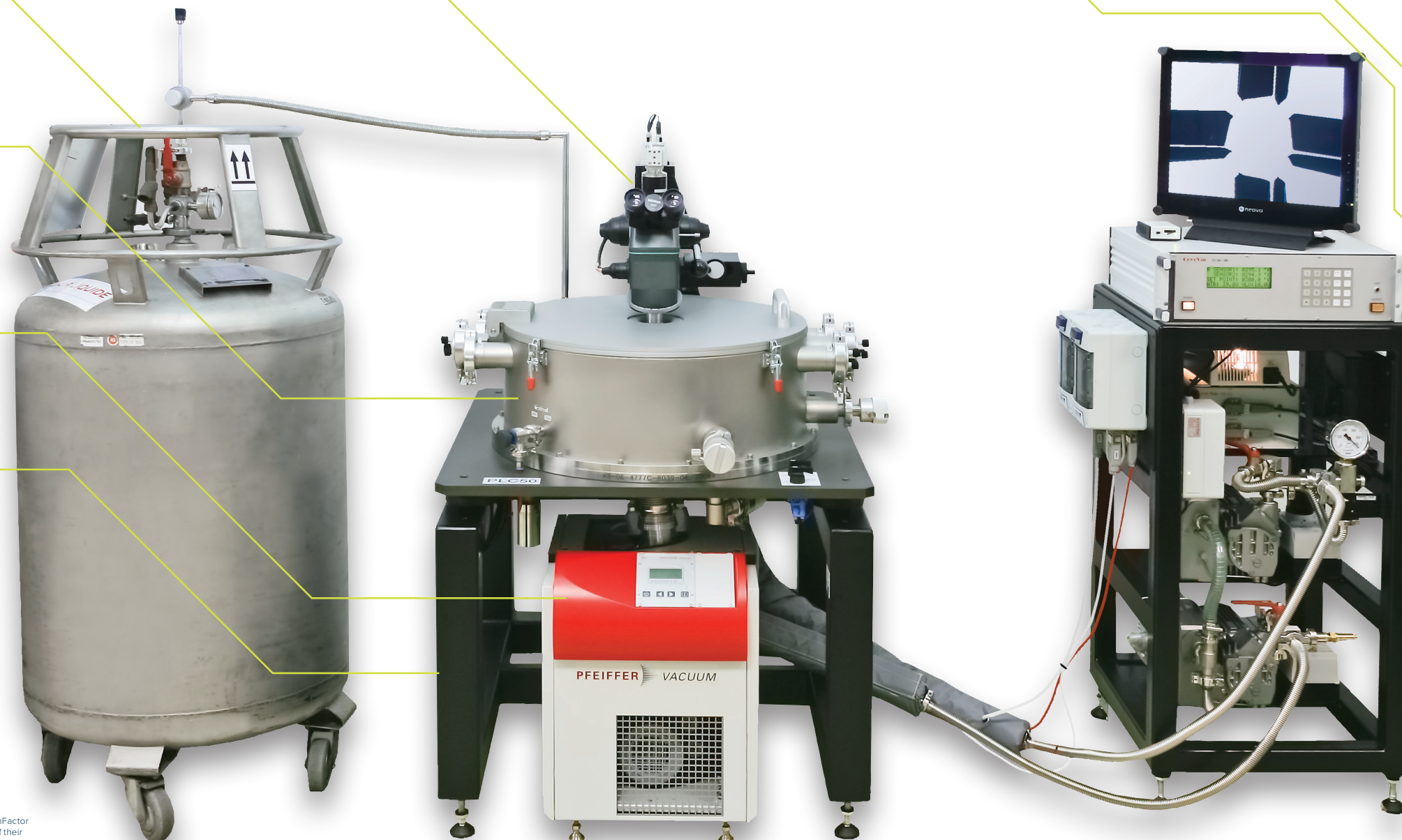
- DC and RF configuration
- SIGMA™ integration for excellent measurement accuracy
- Example setup with four RF Probes

## Cryogenic shield

- Surrounds cryogenic chuck to limit thermal radiation
- Independent temperature control to eliminate gas and particle condensation

## Probe platen

- Contact-separation z-movement for step and repeat capability
- Space for up to six positioners



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