# Cascade **PLV50** Cost-effective Manual Wafer Probing in High-vacuum Environment

# Probe platen

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

# Chuck stage

- High-precision, linear two-axis stage for high throughput
- XY travel up to 100 mm
- Easy to control from outside the chamber
- Wafer/sample size up to 150 mm
- Optional triax add-on for accurate measurements over chuck

#### Positioners

- Placed in the chamber chamber for excellent mechanical stability
- Easy to operate from outside of the chamber
- · Linear backlash-free movement
- Reliable and repeatable contact

# Measurement setup

- Configurations available with the following options
- Four RF and two DC probes for RF
- measurements
- Four DC probes for I-V measurements
- Two DC probes for C-V measurements
- Optical fiber
- SIGMA<sup>™</sup> integration for excellent measurement accuracy





without notice

# Thermal chuck system

- Thermal chuck controller ensures temperature accuracy
- Thermal chuck chiller unit for temperature range from -60°C up to 300°C

# Microscope

- Zoom microscope on boom stand with camera and illumination
- Video monitor

# Vacuum chamber

- Wide pressure range from atmospheric to high vacuum (< 1 x 10<sup>-4</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 for pump and controller
- Turbo-molecuar pump directly connected to the chamber

# Vibration-isolated mainframe

- Pneumatic vibration dampening
- Rigid framework and base plate

