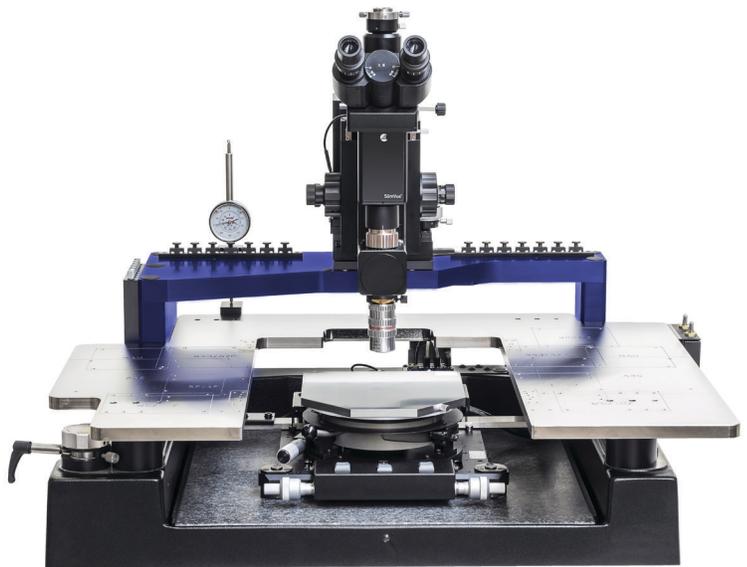


Cascade EPS150THZ

A dedicated 150 mm manual
probing solution for mmW,
THz and load pull applications



Benefits

Make everyone an RF expert

Best-known methods and design for highest measurement accuracy up to THz

Ensure calibration accuracy

WinCal XE – the leading RF on-wafer calibration software

Increase dynamic range and directivity

Shortest signal path from instrument to device

Protect your investment for the future

Re-configure and upgrade as requirements grow

Minimize training efforts

Designed for convenience and ease of use

The EPS150THZ is a dedicated probing solution that comes with everything needed to efficiently achieve accurate measurement results, incorporating best-known methods and design concepts for probing up to THz frequencies.

With a solid cast frame and a platen with four-point support, the EPS150THZ delivers excellent stability, making it easy to achieve high accuracy. Its polished granite base eliminates any thermal or mechanical influences, ensuring excellent planarity and system stability. An integrated vibration isolation solution and an optional vibration-isolation table maintain high-quality contacts throughout measurements.

The unique SIGMA™ options seamlessly integrate mmW heads and load pull tuners from leading measurement instrument suppliers, enabling the highest dynamic range and directivity without compromising electrical accuracy and mechanical stability. The SlimVue™ microscope mitigates mechanical interference for high-magnification optics required for small-pad probing.

The backlash-free X-Y-Z movement of positioners, integrated planarization and a contact separation drive with 1 μm repeatability enable precise probe placement and contact repeatability, equivalent to semi-automated systems. The WinCal XE™ software, verified standards and optimized calibration boundary conditions achieve superior calibration accuracy up to THz range, verifying the accuracy of your measurement results.

An intuitive operation workflow with the innovative fine-glide chuck stage which offers both wide-range coarse movement and μm-level fine movement, contact gauge, probe crash protector, integrated auxiliary chuck, and the WinCal XE ensures ease of operation for both the novice and the expert user.

Designed for upgradeability and extendable with multiple options, the EPS150THZ system can be easily reconfigured to meet your future project requirements.

EPS150THZ

SlimVue™ microscope with C-mount

- Dedicated design to reduce the signal path
- Accurate probe placement on small pads

Contact height gauge

- Precise overtravel adjustment
- Feedback on the on the contact position

Probe crash protector

- Risk-free probe change-over

Tailored mmW platen and 40 mm travel range

- Ready for broadband, mmW, THz and load pull applications
- Easy system re-configuration and upgrade

Unique chuck stage

- Quick coarse Y/X movement and sub-micron positioning
- X/Y stepping with independent axes lock for easy linear navigation

Unique 500 µm platen contact/separation stroke

- Highest contact accuracy and consistency over entire wafer
- Convenient and easy to use

Quick scope height adjustment

- Easy re-configuration for load pull and sub-THz applications

Dedicated SIGMA options

- Broadband 110 GHz, banded mmW, THz and load pull applications
- Platform tilt for precise probe planarization

Innovative ceramic AUX chuck

- Homogeneous and optimized calibration conditions

Dedicated RF chuck

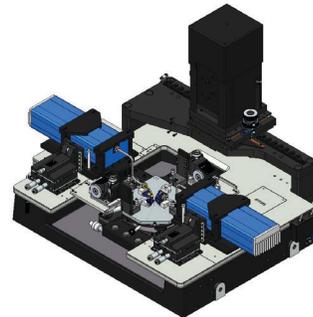
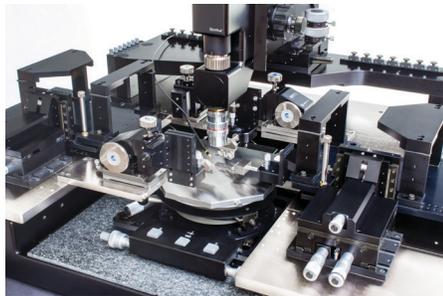
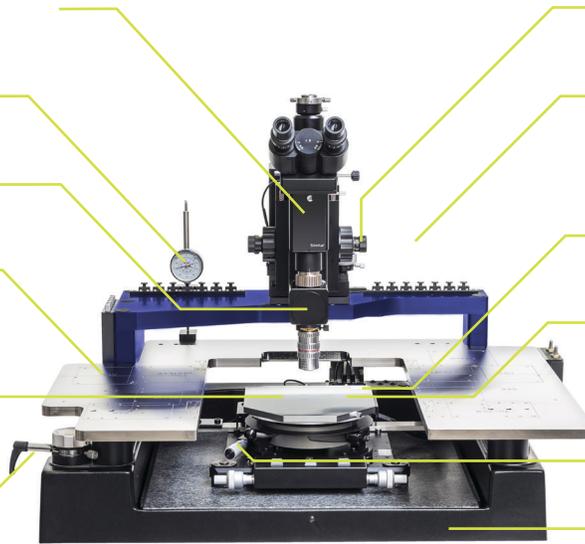
- $< \pm 3 \mu\text{m}$ chuck planarity
- Consistent measurement boundary conditions and overtravel over entire wafer

Fine theta adjustment

- Precise probe-to-pad alignment

Vibration-isolation solution

- Ensures contact and minimizes pad damage



SIGMA option (EPS-ACC-150MMW-WG) with EPS-ACC-150MMW-4P enables a 4-port waveguide setup

Ordering Information

<u>Part Number</u>	<u>Description</u>
EPS150THZ	150 mm manual probing solution* for mmW, THz and load pull applications
EPS-ACC-150MMW-ARS	Instrument integration for 110 GHz broadband systems from Agilent and Rohde & Schwarz
EPS-ACC-150MMW-ANR	Instrument integration for 110 GHz broadband systems from Anritsu
EPS-ACC-150MMW-MAU	Instrument integration for 50 GHz load pull tuners from Maury Microwave
EPS-ACC-150MMW-WG	Instrument integration for mmW heads from VDI, OML and Rohde & Schwarz
EPS-ACC-150MMW-THZ	Instrument integration for sub-THz heads from VDI, OML and Rohde & Schwarz
EPS-ACC-UG-THZ-WG	Upgrades EPS-ACC-150MMW-THZ with all additional configuration features of EPS-ACC-150MMW-WG

* The EPS150THZ manual probing solution includes: PM8 probe station with a 150 mm chuck stage, a tailored mmW platen, contact height gauge, rigid scope bridge with 150 mm x 100 mm movement, unique SlimVue microscope, camera-ready C-mount, vibration-isolation solution, dedicated 150 mm RF chuck with ceramic AUX inlay, fine theta adjustment, full WinCal XE software license, probe cleaning brush, ProbePolish, contact substrate, tweezers and accessories set.

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