

APS200TESLA

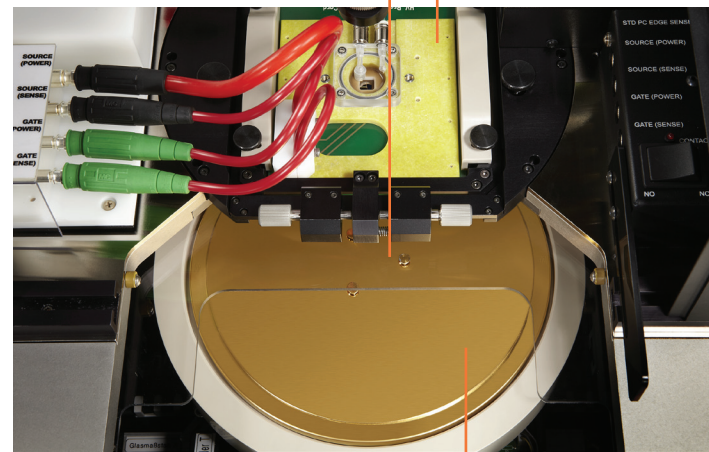
200 mm Fully-Automatic Production Test Probe System for High-Power Applications

High-pressure probe card

- Suppress arcing
- Use CDA or any type of gas
- Up to 6 bar pressure

High-voltage arc shield

- Prevents high-voltage electric shocks to the prober electronics
- Transparent insulated material



MicroVac™ high-power chuck

- 100 µm diameter vacuum holes for thin wafer handling down to 50 µm thickness
- Supports Taiko wafers
- 500 holes evenly distributed across the entire chuck surface for ultra-low contact resistance
- 10.5 kV / 400 A



High-speed 200 mm probe station

- Stepping speed*: up to seven die/second
- 1 µm Z accuracy
- Automatic wafer alignment using off-axis camera
- 10.5 kV / 400 A

PACE prober/loader control software

- Easy-to-use automation tool for production test
- Efficient communication with test executive software
- Powerful pattern recognition capability

Anti-arcing system

- Supports anti-arcing high-pressure probe card
- Advanced air-pressure control system
- Shielded system to prevent high-voltage arcing

Microscope

- High-resolution optics for probe inspection, wafer navigation and probe-to-pad alignment

Probe pin touch sensor system

- Ensures probe contact and prevent excess overdrive
- Prevent device pad damage

Auto-discharging system

- Discharges chuck during die-to-die stepping
- Prevents device from high-voltage discharge

Wafer loader

- Supports from 3-inch up to 8-inch wafers
- Supports Taiko wafers and conventional wafers down to 50 µm thickness

Regulatory-certified safety system

- Enclosure for operator safety
- Interlock connection for test instruments
- Regulatory-approved high-voltage and high-current cables and connectors

Vibration-isolation table

- Ensures repeatable and stable probe contacts

Powerful ProberBench™ operating environment

- Stable, Linux-based controller
- Real-time PID motion controller
- Z-Profilng: Automatic wafer warpage compensation
- Integrated, reliable industrial PC for running ProberBench software

Small footprint machine table

- Integrates all prober components and supplies
- Integrated rollers

* Contact Cascade Microtech for testing conditions and specifications.

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