

Cascade

APS200TESLA

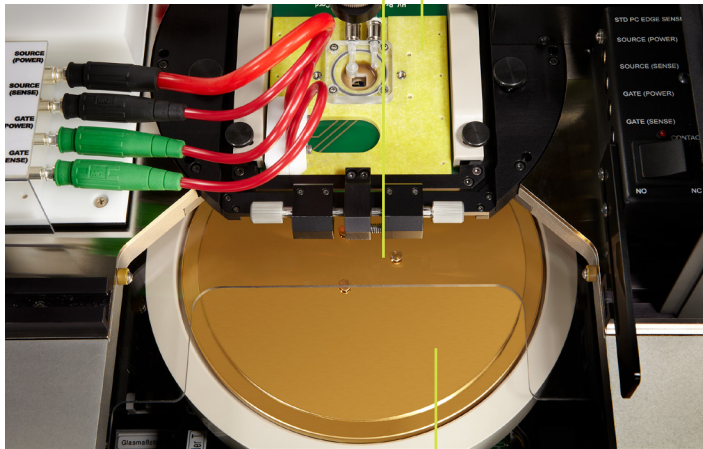
200 mm Fully-automated On-wafer Probe Solution for High-power Devices

High-pressure probe card

- Suppresses arcing
- Uses CDA or any type of gas
- Up to 6 bar pressure

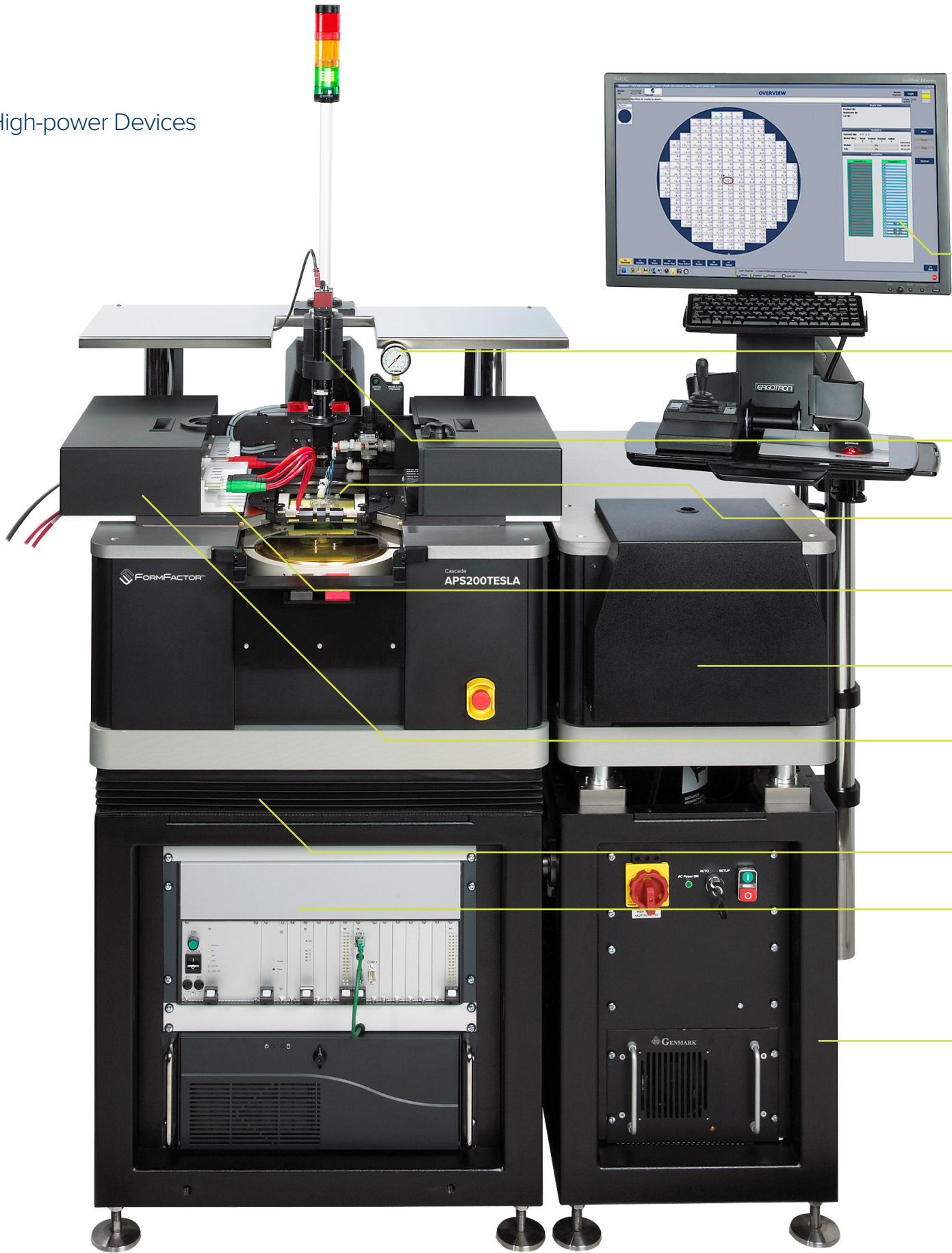
High-voltage arc shield

- 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 DC / 400 A *



High-speed 200 mm prober

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

VeloxPro™ test automation software

- Easy-to-use automation tool for production
- 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 prevents excess overdrive
- Prevents device pad damage

Auto-discharging system

- Discharges chuck during die-to-die stepping
- Protects device and instrumentation from high-voltage charge

Wafer loader

- Supports 3-inch to 8-inch wafers
- Supports conventional, Taiko and thin wafers down to 50 µm

Regulatory-certified probing environment

- 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

Electronics box

- Stable, Linux-based controller
- Real-time PID motion controller
- Z-Profiling: Automatic wafer warpage compensation
- Integrated, reliable industrial PC for running Velox™ probe station control software

Small footprint machine table

- Integrates all prober components and supplies
- Integrated rollers

*Contact Cascade Microtech for application-specific testing conditions and specifications.

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