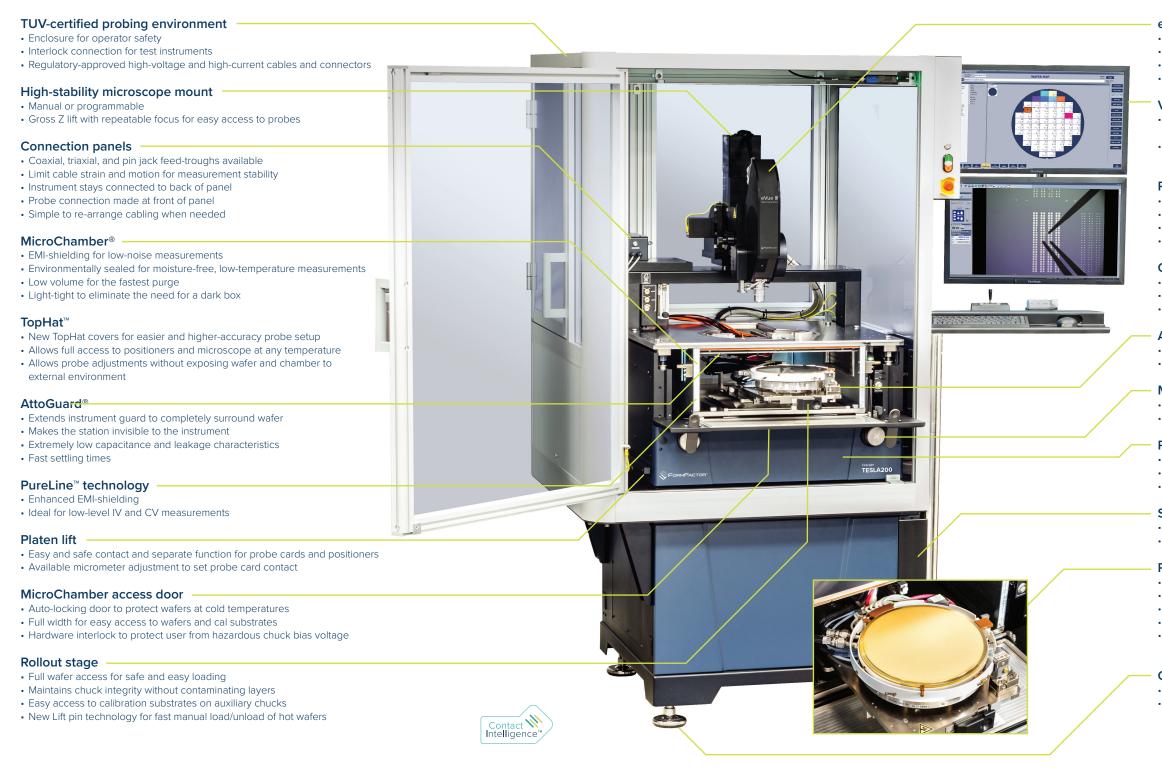
Cascade TESLA200

200 mm On-Wafer Power Semiconductor Probing System - Semi-automatic



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Up to 10 kV / 600 A with thin-wafer loading (\geq 50 μ m)

- Accurate Rds(on) with constant Rc at all temperatures with Contact Intelligence[™] Technology
- Anti-arcing solutions for wafer, probes and probe cards

eVue[™] IV Digital Imaging System

Fast probe set-up with wide field-of-view and single objective in MicroChamber
Easy navigation with multiple live video views of probes and wafer
New high-speed focus system for faster and accurate die stepping
New safety features for probes and usability

Velox[™] probe station control software

- Innovative operating software for advanced prober operation, temperature control, z-profiling and stepping
- Wafer mapping, automated wafer alignment, and auto XYZ and theta correction for sub-micron stepping

Probes / Probe cards

High voltage (3 kV / 10 kV)
High current (300 A)
Low leakage
Anti-arcing support





Contact Intelligence[™] Technology

Integrated HTS (High Thermal Stability) reduces probe drift and thermal soak time
Optional VueTrack[™] reduces thermal soak time (faster time to data)
Enables unattended test over multiple temperatures

Auxiliary chucks

High voltage 10 kV compatible multi-purpose mounts for substrates (cleaning, contact)
Automated probe cleaning capabilities

Manual mode stage control

Intuitive manual chuck XY stage controls in semi-automatic engineering mode
Safe mode: automatically disables manual controls in automation mode

Precision 200 mm motorized wafer stage

New user-selectable performance modes for standard, fast and high accuracy
Increased test throughput with up to 100 mm/sec. speed
High reliability 24/7 operation

Scalable system

- In-field upgradable wafer loading and automation
- Add test accuracy improvements for increased test performance

Patented TESLA chuck technologies

- HV FemtoGuard(R) 3kV (triax) / 10kV (coax), and low leakage
- Gold-plated MicroVac(TM) surface for minimal chuck-to-wafer contact resistance
 3kV, coaxial, and high current (600A) options
- Wide range of temperature options from -55°C to 300°C and higher
- Specialty chucks for +400°C, and low inductance / Cap(res) for UIS (unclamped inductance switching)

Compact small footprint

Integrated vibration isolation for reliable small pad probing
Integrated system electronics with power loss wafer safety protection

