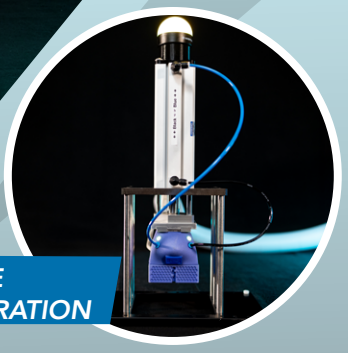
Chroma



ATE CONFIGURATION

TARGET APPLICATIONS
FOR ATE/SLT

- GPU, CPU, APU
- AI Accelerators
- Automotive IC
- Aerospace and Defense
- AI and Data Center
- ASIC
- Memory Modules

MODULAR TEST SITE EXPANSION CAPABILITIES

SYSTEM LEVEL TESTING CONFIGURATION

RACK

The **rack system layout** supports mass parallelism for **bench testing**, while compatibility with **CATS handlers** enables **lights-out automated testing for development purposes**.

KING COBRA

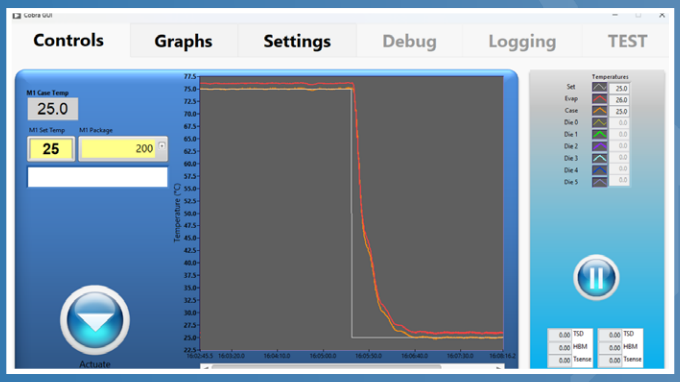
Cobra Thermal Systems deliver advanced temperature-forcing capabilities to meet the thermal demands of **post-silicon validation** and **device characterization**. Powered by the performance and reliability of **direct phase change technology** with fully integrated **electronics** and **software**, Cobra Thermal Systems provide unmatched precision, efficiency, and adaptability.

The **King Cobra** model is designed for **extreme cooling** and **high-power requirements**, featuring **cascade refrigeration technology** to achieve extended temperature ranges of **-70°C** enabling j**unction temperatures (TJ)** of **-40°C or lower**. This makes it well-suited for Aerospace and mission-critical testing environments where **colder temperatures are required**.

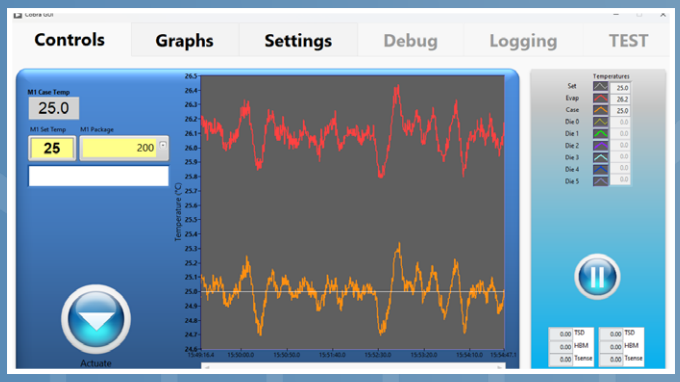
Chroma

KEY FEATURES

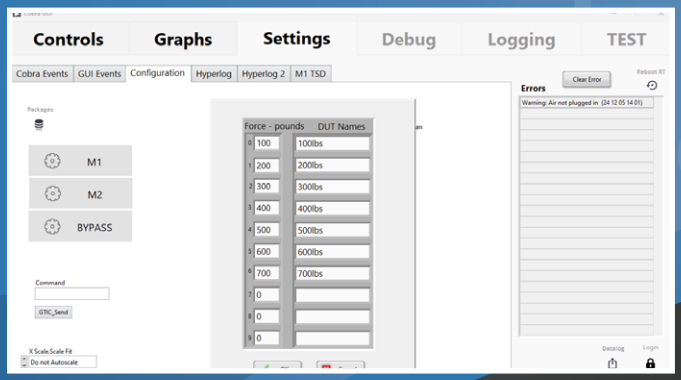
- Direct phase change allows -70°C to 125°C
- Liquid-free operation
- Compact footprint
- Fully integrated and automated temperature and pneumatic control
- High dissipative power without LN2
- Quiet Operation @ < 60 dB
- Power monitoring to prevent thermal runaway
- Thermal Sensing Diode feedback
- Humidity free operation



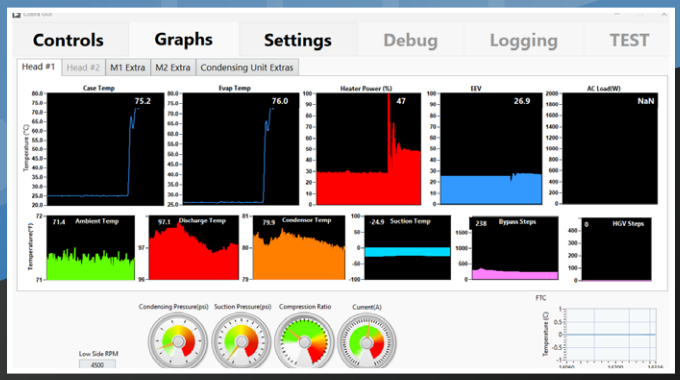
GUI Control Center: Ramp Down



GUI Control Center: Steady State



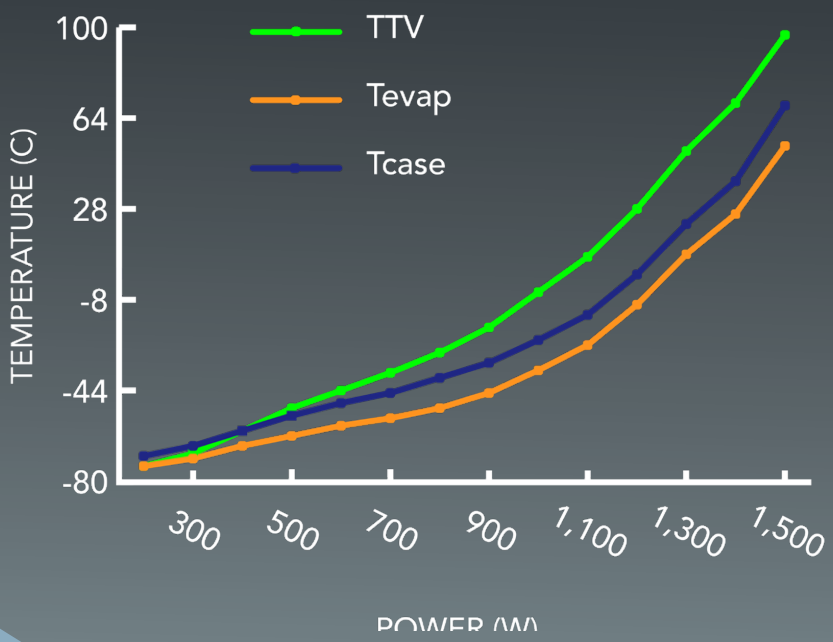
Application specific to IC-DUT Socket Force set up options



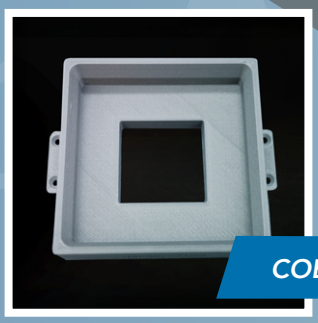
GUI Interface Experience

TEMPERATURE VS POWER

Whether for SLT, ATE, or bench testing, Cobra Thermal Systems provide unmatched precision, efficiency, and adaptability, powered by the performance and reliability of direct phase change technology.



ACCESSORIES



COBRA PURGE

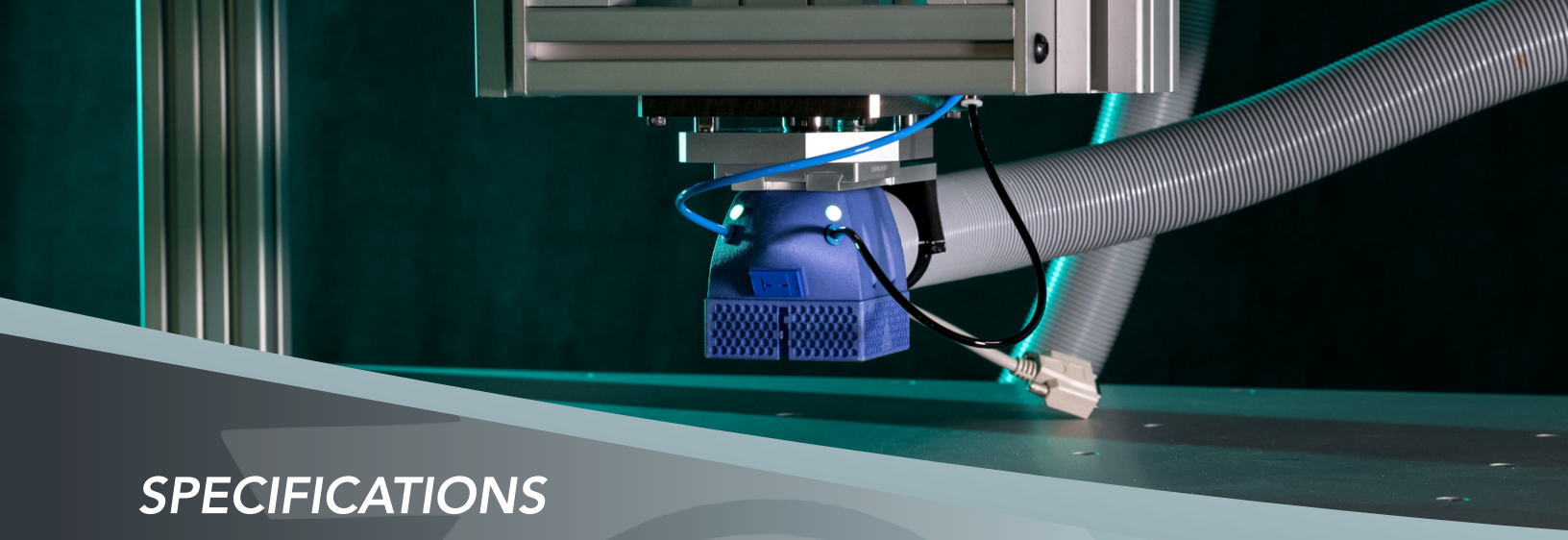
REMOTE BOX

INTEGRATED TABLET PC

CUSTOM IC PEDESTAL

The **PowerBox accessory** improves thermal performance as well as prevents **thermal runaway** and protects devices and sockets from damage in SLT and Bench Test.

POWER BOX



SPECIFICATIONS

Model	Cobra Single Head Thermal System
Dimensions	813 mm (L) x 559 mm (W) x 635 mm (H)
Weight	100 kg
DUT Dimensions	5x5 mm to 120 x 120 mm
Contact Force	≥300 kgf (Changing the pneumatic cylinder can increase/decrease the socketing force)
Temperature	-70°C ~ 125°C (Accuracy: 2°C with no load, T/C Accuracy: 1°C, Stability: 1°C under controlled conditions, Tolerance: ± 3°C at steady state)
Temperature Transition Rates	Cooling: >2°C/sec Heating: >1°C/sec
Communication	TCP/IP, RS232, GPIB (Optional)
Facility Requirements	Power: 208-240V 50/60 Hz 30 Amps1Ø, Ambient temperature: 5°C to 30°C CDA: 100psi minimum with -70°C or colder dew point

All specifications are subject to change without notice.

ORDERING INFORMATION

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