

Chroma



TARGET APPLICATIONS FOR ATE/SLT

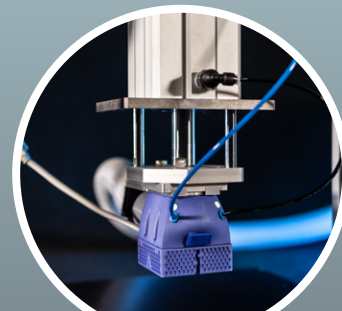
- GPU, CPU, APU
- Mobile
- AI Accelerators
- Automotive IC
- Aerospace and Defense
- AI and Data Center
- ASIC
- Memory Modules



ATE
CONFIGURATION



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.

COBRA GEN 3

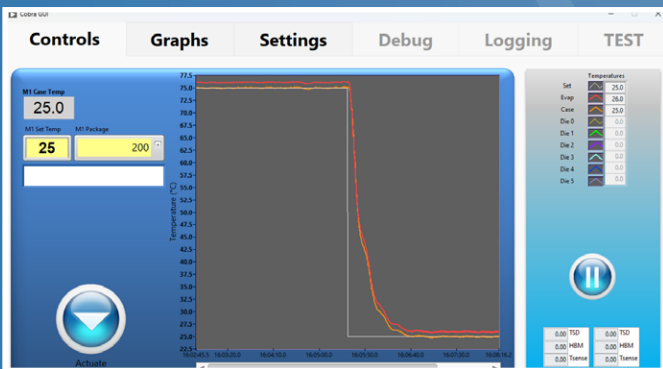
Cobra Thermal Systems deliver advanced temperature-forcing capabilities to meet the thermal demands of **post-silicon validation** and **device characterization**. Powered by the performance and reliability of **direct phase change technology** with fully integrated **electronics** and **software**,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

The **Air-Cooled Gen3 Cobra model**, with a temperature range of -40°C to 150°C is compact, **energy-efficient**, **quiet**, and **liquid-free**, delivering reliable temperature control without the risks and complexity of liquid-based systems. With a capacity of up to **1kW**, it is perfect for **SLT**, **ATE**, and **bench testing** applications that require a versatile and adaptable temperature control solution and for customers that don't have facility water or 220V.

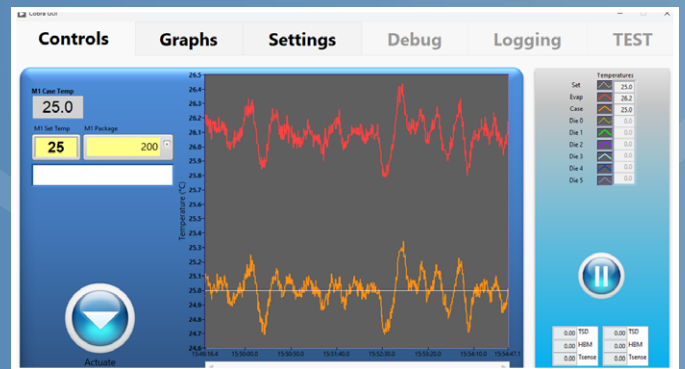
Chroma

KEY FEATURES

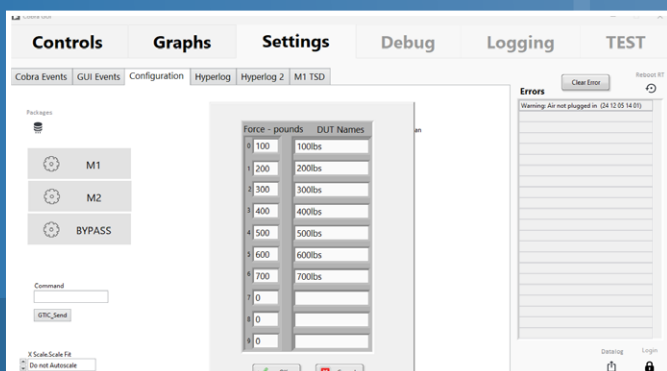
- Direct phase change allows -40°C to 150°C
- Fully integrated and automated temperature and pneumatic control
- Compact and quite liquid-free operation
- No LN2, No Chillers, No TECs
- Flexible software to meet unique customer requirements
- Thermal Diode and Digital temperature sensor feedback
- Power monitoring
- Made in the USA



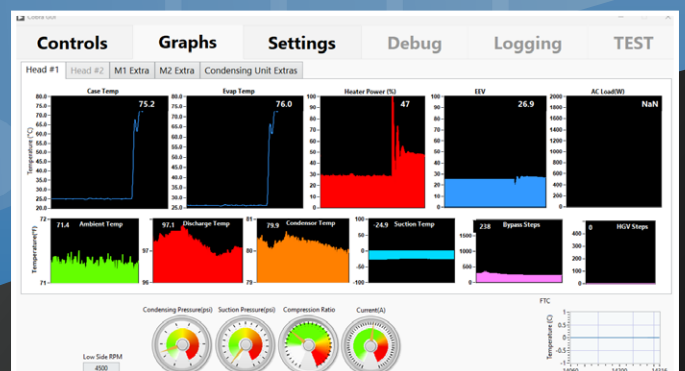
GUI Control Center: Ramp Down



GUI Control Center: Steady State



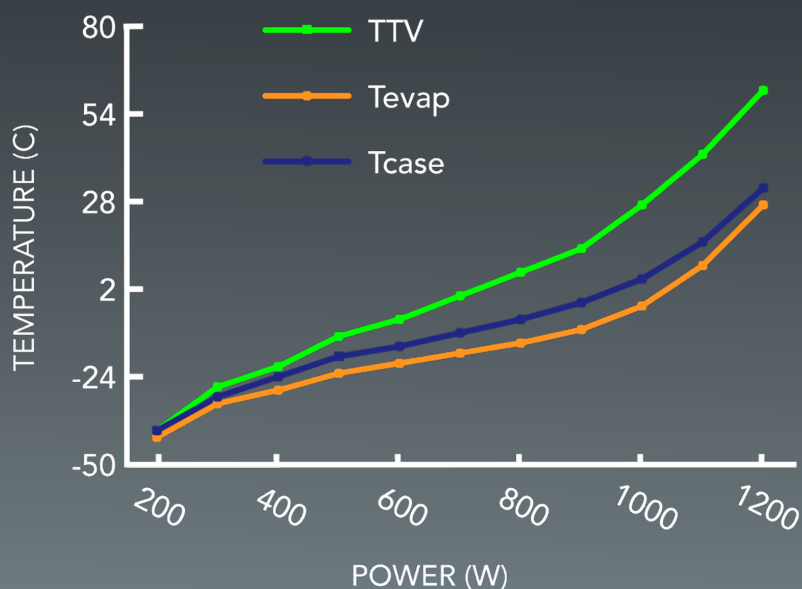
Application specific to IC-DUT Socket Force set up options



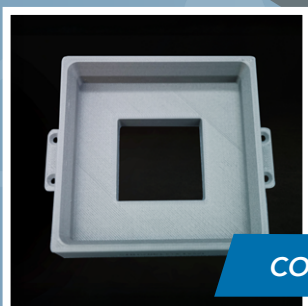
GUI Interface Experience

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



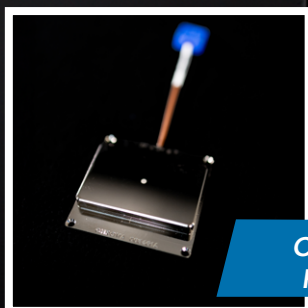
COBRA PURGE



REMOTE BOX



INTEGRATED TABLET PC

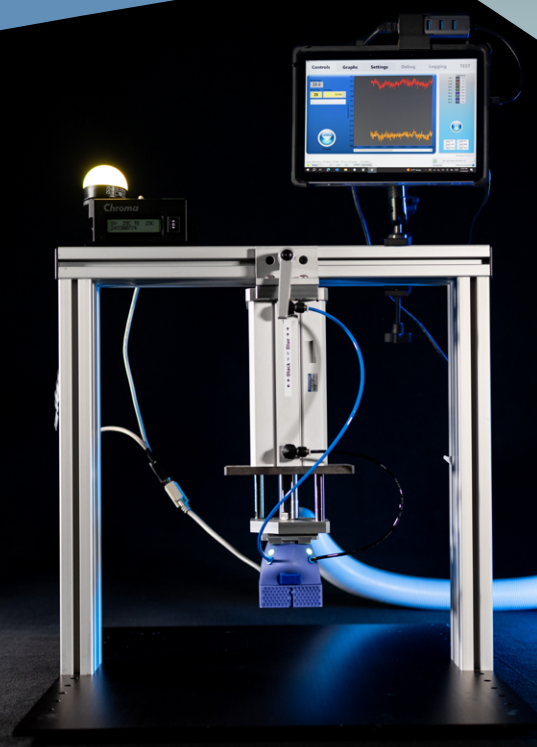


CUSTOM IC PEDESTAL

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	579 mm (L) x 360 mm (W) x 394 mm (H)
Weight	Single head 32 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	-40°C to 150°C Accuracy : 2°C with no load (T/C Accuracy is 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 (Contact for Pricing)
Facility Requirements	Power: 50Hz - 90-105V, 60Hz - 103-127V 1Ø, 15A Max (Stepdown Transformer required for 208-240V) Ambient temperature : 5°C to 30°C CDA: 100psi minimum with -40°C or colder dew point

All specifications are subject to change without notice.

ORDERING INFORMATION

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