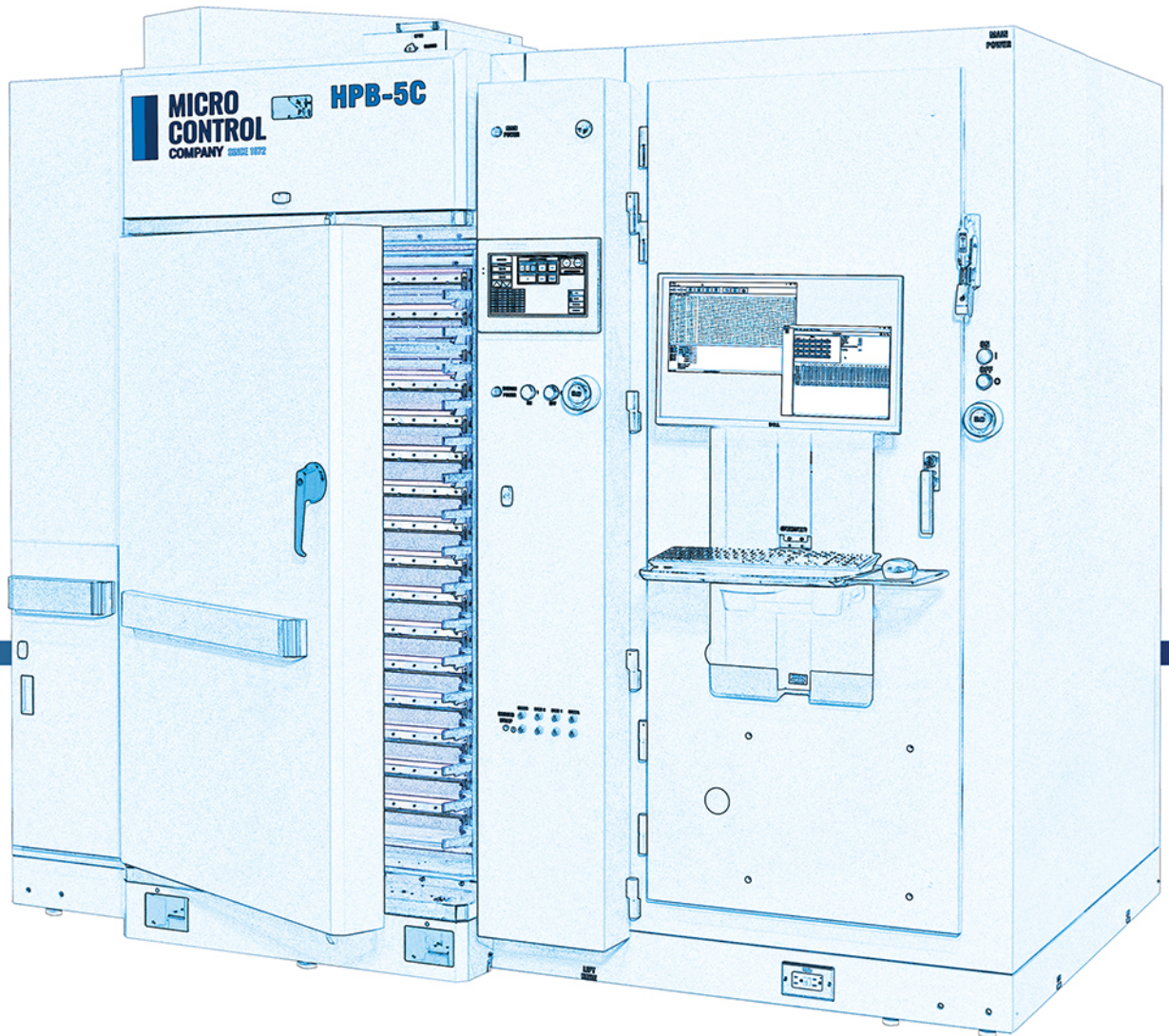




**MICRO
CONTROL**
COMPANY SINCE 1972



PRODUCT GUIDE

Burn-In Systems

LC-3 Low Power

The LC-3 is a sophisticated burn-in-with-test system that manages advanced requirements through its ability to perform dynamic burn-in with test. The LC-3 is designed for applications in engineering characterization, life testing, and production burn-in of logic, mixed-signal, analog, and memory devices. With the feature of individual temperature control for each device under test, the LC-3 ensures that devices are kept at an optimum temperature for stressing and testing each device during a burn-in cycle.



Product Overview

- Individual temperature control per device under test for 48 (20-watt) devices per BiB (80 watts for fewer devices).
- Programmable chamber control up to 150°C and individual temperature control to 175°C.
- 32M (64M optional) parallel vector memory depth; subroutine capable.
- 4G scan vector depth (8G optional).
- 24 total power supplies per BiB; 544A and 2240W available per BiB; limited to 1000W.
- 16 high power individually programmable power supplies (30A, .5V to 9.5V, 120W) per BiB.
- 8 low power individually programmable power supplies (8A, .25V to 5.0V, 40W) per BiB.
- Analog voltage supplies are optional.
- Compatible with other Micro Control Company burn-in systems.
- Adaptable to industry standard BiBs.

Applications

- Logic and mixed signal burn-in with test
- QA and engineering burn-in with test
- Production burn-in with test

Common Features

- On-board PC
- Comprehensive software diagnostics for easy troubleshooting
- Per-pin timing, testing, and formatting
- Timing on the fly, programmable edges and rep rate

Burn-In Systems

HPB-5C Medium Power

The HPB-5C meets the challenges created by the diverse burn-in needs of medium-power devices. The chamber is configured for 16 burn-in boards with 24 devices per BiB, and one pattern zone per burn-in board slot.

- Individual temperature control for each DUT up to 150 watts. System capacity 384 devices.
- Individually variable airflow control per DUT up to 150° C.
- Up to 16 pattern zones.
- 128 digital I/O per BiB, plus 24 chip select drivers
- 16 programmable voltage regulators per BiB.
- Up to 1080 amps programmable voltage regulators per BiB.
- 64M vector memory per BiB.



HPB-4B High Power

The HPB-4B meets the challenges created by wide variation in heat dissipation, and the diverse burn-in needs of high-power devices. The chamber is configured for 14 burn-in boards (112 devices).

- Individual temperature control for each device under test up to 600 watts.
- Up to 14 pattern zones.
- Tests devices at a maximum temperature of 150° C.
- Up to 128 digital I/O channels per burn-in board.
- 19 programmable voltage regulators per burn-in board.
- 2060 amps programmable voltage regulators per burn-in board.
- Voltage regulator featuring power clamp and current clamp modes.



Burn-In Systems

HPB-6 Ultra High Power

The HPB-6 is an advanced, high performance burn-in system capable of performing dynamic burn-in with test on 1000+ watt devices. Individual temperature control for each ultra high-power device under test keeps devices at an optimum temperature during a burn-in cycle.



Product Overview

- Individual temperature control for each device up to 1000+ watts.
- Water-cooled, high-force sockets maintain individual device temperature.
- 16 independent burn-in board slots.
- Up to 12 devices per burn-in board.
- 24 high-current and 24 low-current individually programmable power supplies per burn-in board.
- 64M standard parallel vector depth - subroutine capable.
- 8G scan vector depth.
- 128 formatted vector I/O channels, plus 128 vector output-only channels optional.
- 10 MHz parallel vector rep-rate; 40 MHz scan mode rep-rate.
- 100 MHz fast scan mode rep-rate on 16 dedicated channels.
- 8 independent high-speed clocks.

Target Uses

- High heat density DUTs
- Multiple die packages
- Large number of independent power supplies

Advantages

- Fuzzy logic PID control
- Scan vectors for maximum depth
- Multiple high-speed clock for BIST
- Low thermal resistance sockets and heatsinks

Burn-In Accessories

ENGINEERING DEVELOPMENT STATION

Engineering Development Stations (EDS) provide the same test electronics and device cooling for single burn-in boards that is available in a full burn-in system. It is used for test development and board troubleshooting.

- Research and development on devices.
- Single-board testing.
- Open design for easy access to test points.
- Scoping signals on burn-in boards.
- Designing and debugging test programs.
- Troubleshooting burn-in boards.
- Running diagnostic tests.
- Use with a burn-in system.

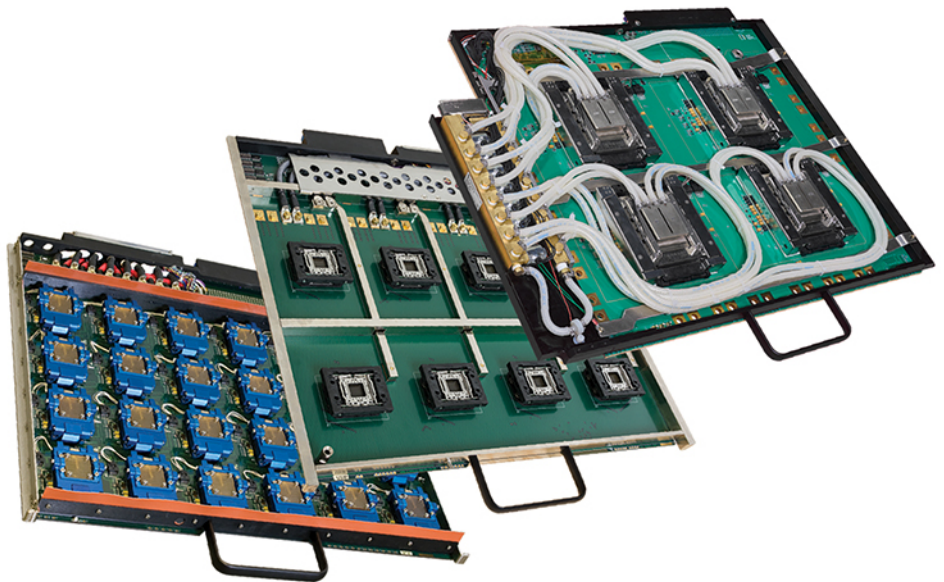


BURN-IN BOARDS

Design, Layout & Test

Designed by engineers specializing in burn-in board design and manufactured by employees that are skilled in these assemblies.

- Dedicated and universal designs.
- 2 to 34 layers.
- Prototype to production quantities.
- 200°C maximum temperature with use of special materials.
- Loader/unloader compatibility
- Vector development available.
- Mechanical design for custom heatsinks.



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