



Semiconductor Burn-In Test System

The 5030 Burn-In Test System is a large-scale configurable burn-in system for high-volume production of semiconductor devices. The Model 5030 can simultaneously burn in up to 32 different work orders, each with its own burn-in recipe consisting of voltage, temperature, burn-in time, digital test, etc. Multiple input and output lanes allow cascading of work orders to maximize tool utilization.

- ◆ JEDEC Tray in, JEDEC Tray out
- ◆ Up to 350 Watts per Device Under Test (DUT)
- ◆ Individual DUT Temperature Control
- ◆ Supports Overlapped Burn-In of Multiple Work Orders Using Different Recipes
- ◆ JTAG Testing up to 10 MHz
- ◆ Full-Featured IDE with “Intellisense” and Online Help
- ◆ Interfaces with Factory ERP and Manufacturing Execution Systems

Sophisticated DUT-level controls allow for automatic folding of DUT voltage if current limits or temperature limits are exceeded. Parametrics from all 768 devices can be logged to a file every 400 milliseconds. Highly efficient two-phase refrigeration-based cooling allows the 5030 to achieve unprecedented DUT power levels while lowering electricity bills.



Features:

- Built-In Burn-in Board (BIB) loader/unloader functionality
- Tests up to 768 devices simultaneously
- +/- 5°C temperature control under +/- 10% DUT power excursions
- >90% tool utilization based upon continuous (rather than batch) flow processing
- Real-time monitoring and logging of DUT temperature, current, and power throughout the burn-in process
- Standard configurations: 576 DUTs at up to 200 W; 256 DUTs at up to 350 W
- Support for unlidded (bare die) as well as lidded device (heat spreader) DUT testing
- Support for up to ten software “fail” bins to facilitate trending and root cause analysis
- Slot-level and DUT-level electrical and temperature controls
- Highly efficient – AC power requirement is only 1.4 x DUT power requirement

Service and Support:

- BIB design support
- 24 x 7 telephone support
- Field Service Engineers located world-wide
- Onsite installation, commissioning and training
- Online help and full user documentation

Available Models:

- **5030** (As Shown)
- **5029** (Manual BIB load/unload for smaller DUT Volumes)
- **5030-1** (Single-Slot Test Development Station)

