

# BURN-IN Solutions

Full Service Provider



## Solutions

- Board Rack**
  - Racks for BIB and driver
  - Oven fit-outs
  - Wiring and interfaces
  - HAST & HTOL racks
- Handling**
  - BIB load / unload
  - Socket actuators
  - Pickup heads
  - Socket actuator plates
- Probes**
  - Socket test probes
  - X-Y and Multi-head
  - Fine pitch to 0.4mm
  - Au plated stainless steel
  - Over 400 probes tooled

## System Highlights



## Product Overview

Abrel can offer engineering solutions for many Burn-in applications including:-

### ■ Burn-in boards

Design and manufacture of boards for HTOL / HAST and PTC testing. Boards can be supplied for all system types. Layouts for 0.3mm fine pitch, temperature ranges up to 300°C and long life HAST boards.

### ■ Bibtest55XL BIB tester

Market leading Burn-in board test system designed to test any style of BIB. Fully checks the BIB schematic and records all measurements to a database.

### ■ Socket test probes

Test manufactured for all types of sockets, including CSP, QFN, QFP, BGA. Probes are available for fine pitch testing to 0.4mm.

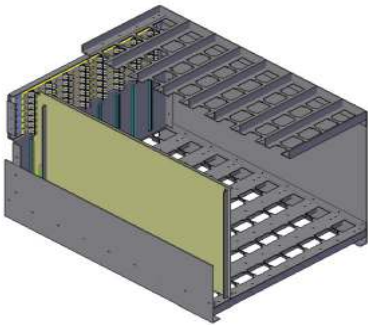
### ■ Endzone Burn-in System

The Endzone is a flexible Burn-in system designed for multiple lot testing. The system features a configurable driver board, which accepts programmable PSU, Clock, Function, SPI, Vmeas, Imeas and monitor modules.

### ■ Endzone Mobile

All the features of the Endzone Burn-in System complete with a docking interface to an existing HTOL or HAST chamber.

## System Engineered Products

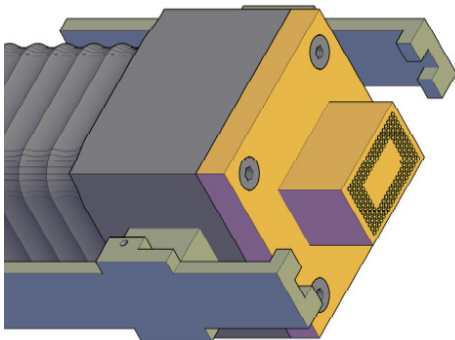


### ■ BIB Racks

- Racks for HTOL / HAST or BIB storage
- Punched panel guide rails
- Racks for Driver board and BIB
- Manufactured from 316 Stainless
- Complete with backplane and connectors
- Cable interfaces and interconnects
- Complete oven fit-out
- High temp solutions to 300°C

### ■ Socket Actuators

- Pneumatic socket actuator
- Semi-automatic loading / unloading of BIB
- Vacuum load and unload from tray
- Touch 'on' touch 'off' operation
- 360° Vacuum head rotation
- Footswitch operation
- Vacuum puff-off for maximum accuracy
- Actuator plates for various opentop sockets



### ■ Socket Test Probes

- Test Probes for all socket types
- Package types include QFN, CSP, BGA, SOP, QFP
- Opentop, Clamshell and X-Y automation
- Fine pitch 0.4mm pin spacing
- Machined Ultem test head
- Device Package simulation
- Stainless steel test pins
- Low contact resistance

### ■ Burn-in Socket Solutions

- Socket solutions for all package types
- Package types include QFN, CSP, BGA, SOP, QFP & WLCSP
- Sockets for High Temperature, Humidity and HAST test
- Solutions for special Temperature applications to 250° C
- Custom and machined socket solutions
- Prototype and Production run quantities
- Solutions for fine pitch and WLCSP applications



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