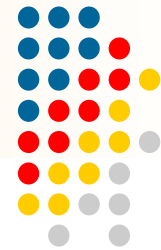


TEST PROBES

For all socket types



Key Features

Features

- Probes for all socket types
- Replaceable head and pins
- Pins simulate device leadform
- Durable AU plated pins
- Over 350 designs to date
- Probes for all tester types

Technology

- Socket testing to 0.4mm pitch
- Precision machined test heads
- Full package simulation
- ITT cannon cable terminations
- Low contact resistance
- Easy maintenance

Options

- 4 wire Kelvin pins
- Multi-head probes
- Probes for X-Y testers
- Pneumatic socket actuators

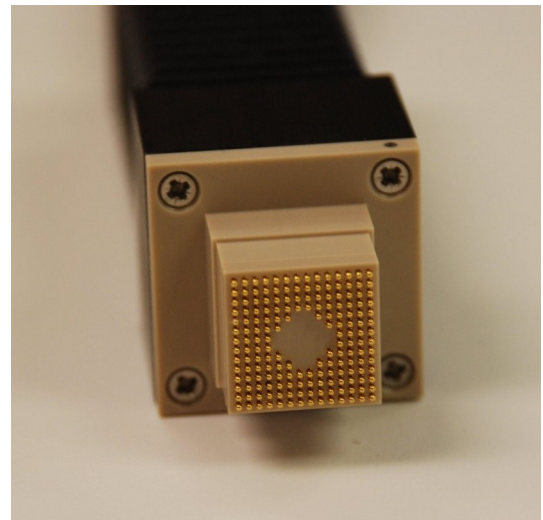
Product Specifications

- *Test Head material : Clear Ultem*
- *Handle material : Black Delrin*
- *Probe Pin material : Au plated stainless steel*
- *Test Pin Plating : 1 micron Au on 5 micron Ni*
- *Contact Resistance : Less than 100mOhm*
- *Technology : 0.4mm pin pitches*
- *Termination : 1.5m shrouded cable*

Product Overview

■ Abrel Products are the market leader in the design and manufacture of socket test probes. Probes can be designed for all the latest fine pitch packages including QFN, CSP, BGA and QFP. All probes are designed and manufactured in-house, and machined to precise tolerances.

■ Test heads are manufactured from

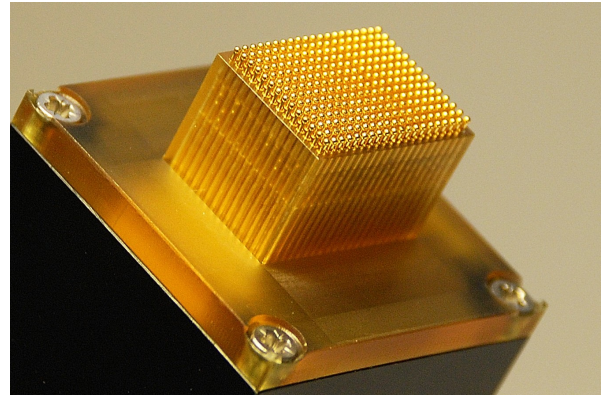


Ultem material and the handle is finished in black delrin. Probe head contacts are manufactured from gold plated beryllium copper or stainless steel, for maximum number of insertions. Probe options include plug-in replaceable heads and individual pins. Probes can be supplied terminated with specific connectors for any style of test system

Summary Product Specifications

Probe Features

Precision machined from Ultem material
Black Delrin machined handle
Au plated stainless steel pins
Low contact resistance
Retention in socket for hands-free testing
Termination for any tester type
3-D Modelling to optimise form factor
Custom pins for QFP, QFN and BGA
Low Maintenance repairs



Additional Features

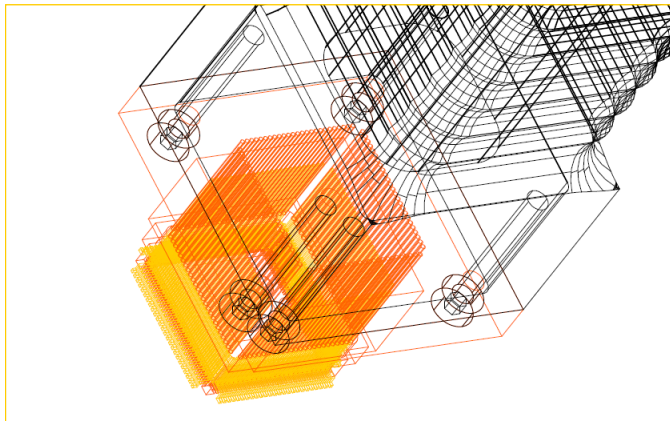
Probe interfaces for all BIB edges
Terminations for all tester types
Socket actuators for opentop sockets
Probes for X-Y tables, with solenoid actuators
Probes for new socket validation
Test and load board verification
Continuity testing
Complementary tester (Bibtest55XL)

Technology Capability

BGA Clamshell and Opentop 0.4mm
QFN Clamshell and Opentop / Dual row 0.4mm
SOIC Clamshell and Opentop 0.5mm
QFP Clamshell and Opentop 0.4mm
DIP / PLCC / SOIC – all sizes
Package types including QFN, CSP, QFP
Pressure plate for each board type

Sockets Supported

Probes for all sockets including Enplas, Yamaichi, Plas-tronics, Wells-Cti, Loranger, Aries.
Opentop, clamshell and custom



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