Flying Probe Tester

SMARTEAM

A4 PRECISE

for pcbA Flying Probe Testing

A4 PREC/SE

YOUR GOAL IS OUR MISSION

Distinguish Good/Bad Board

High Test Coverage

Circuit Board Troubleshooting

Real-time Customer Service

Accurate

Stable

Easy To Use

Reliable

01 FPT (Flying Probe Test) VS Bed of Nail ICT

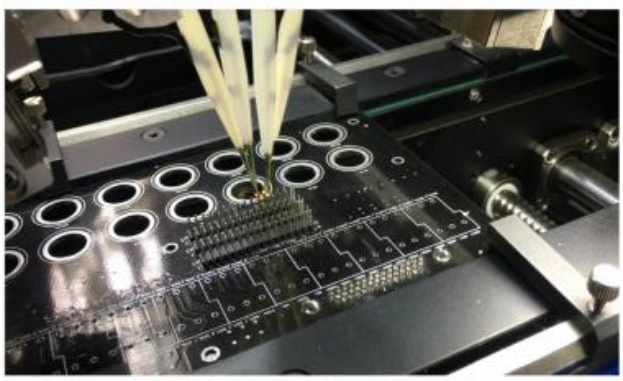
Fixtureless test

Capability of testing high-dencity board with 0201 SMC (surface mount component)

02 Customizable

◆ **Test area:** The maximum test area can customized to provide coverage for the circuit board up to 800 mm x 600 mm in size.

◆ **Backplane testing:** Under desired change of design from customization, the Flying Probe Tester A4 can test the backplane with connectors, Continuity test and insulation test.



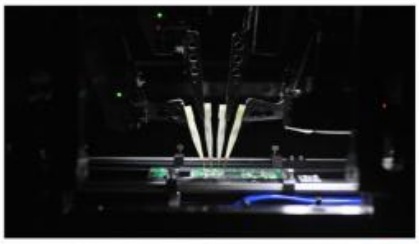
More cases of customization to be coming soon…

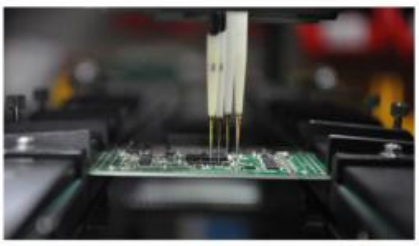
03 Precise v1.2: Simple and Practical Software

Operation in 3 steps
1> Off-line programming
2> In-line debugging
3> Testing

04 Test Principles

- **In-Circuit Test ICT**: Without powering the UUT, components and connections on the board are measured by sequential access to the test points using electric signals through test heads. Accurate results are delivered in comparison with the Gold Template which is imported from CAD or from machine's self-learning the "Good Board".
- **Test Signal:** You can select a DC signal or AC signals with varying frequencies to test depending upon the design characteristics of the circuit and components.
- **Static Voltage Test - Vnod:** With power on the UUT, the voltage on each point of the circuit can be measured in turn. This test mode is especially suitable for used board repair.





05 Device Under Test

- Circuit network (Open-Short test)
- Resistor, Capacitor, Inductor, etc. (Value test)
- Diode, Zener, Photo-diode (Voltage Drop test, forward and reward)
- Transistor、FET (On, off, and amplification test)
- SCR、Optocoupler、Relay、Solid state relay (Turn-on and Turn-off test)
- Fuse, Jumper, Switch (On-off test)
- Transformer (Ratio test)
- Three-terminal regulator (Output Voltage test)
- Analog/digital Ics (Pin Open test)
- Node (Znod Test)
- Optical Identification (Automatic Optical inspection)
- Customised component testing

06 Board Loading Mode

In-Line automatic or Manual

07 Board Alignment

Automatic Optical Marker alignment

08 Unit Under Test

Testing Area	500mmx400mm
Board Thickness	0.5mm-5mm
Minimum Pad Pitch	200 μm
Minimum Pad Size	100 μm
Component Mounting Limits	40mm
Bottom Magnetic Fixed Probe	4

09 Stimulate and Measurement

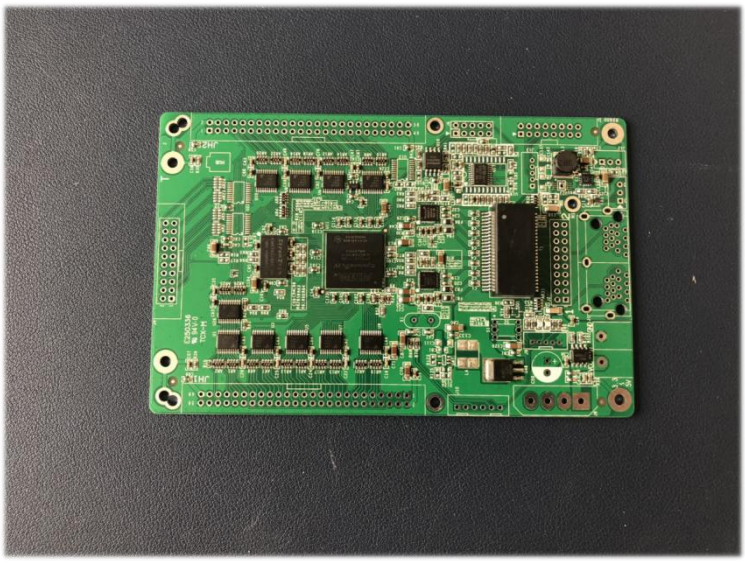
DC Current	0-20mA，0-500mA
DC Voltage	0-2V，0-50V
AC Current	0-20mA，0-500mA
AC Voltage	0-2V,0-50V
Frequency	10Hz-200KHz
Waveform	sine, square, triangular wave

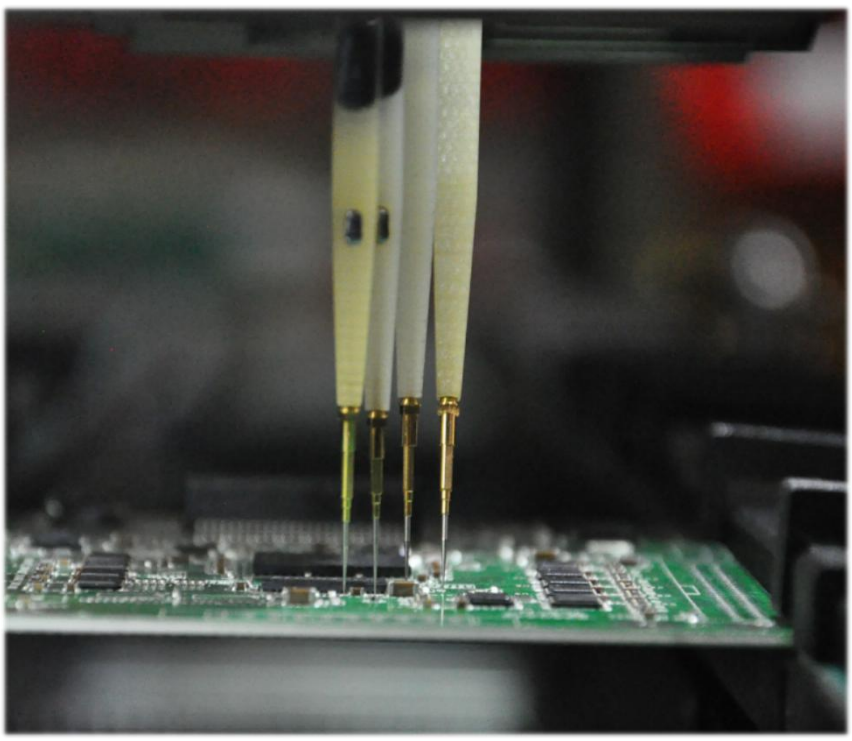
10 Mechanical Specification

XY Repeat Accuracy	+/-35μm
XY Speed High	1,000mm/s
Z Travel High	40mm
Probe Pressure	25g-100g

11 Installation Environment

Size	1,650mm W	1,100mm D	1,500mm H
Weight	1,400kg		
Power	220VAC,+/-5%		
Air	0.6MPa		





We Care Our Machine & Your Application

Fully test your pcbA