



## GILLSEITH TESTING AND CONTROL INDIA PRIVATE LIMITED

Test Monitoring and Test Control are management activities. Test Monitoring is a process of evaluating and providing feedback on activities currently in testing phase. Test Control is an activity of guiding and taking corrective action based on few metrics or information to improve efficiency and quality.

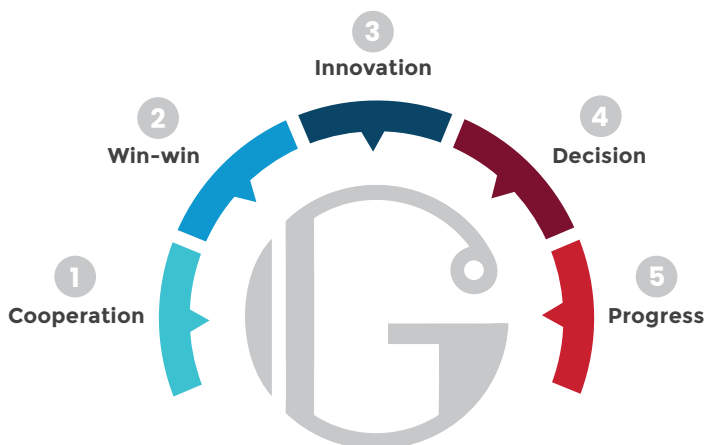
# About Us

In 2019, Gillseith Testing and Control India Pvt. Ltd. was established in Chennai. The factory is located in the Poonamallee area, with an area of 1,000 square meters

The company manufactures Board Level test fixtures for different processes, automated and manual fixtures, and wearing parts for SMT lines. We provide customized functional testers and fixtures, and we have an experienced team of engineers, specializing in the development, manufacturing and debugging support for Board Level testers and fixtures.



Service engineers can also be provided to customers with on-site fixture installation support.



# Factory Setup



# Production Facility



CNC Lathe



Lathe



CNC Machine (VMC)



CNC Machine (Engraving)



Drilling Machine



Tapping Machine



Drilling & Tapping Machine



Milling Machine

## Our service tenet

### Product Quality Commitment

Product manufacturing and testing have quality records and testing data. For product performance testing, we sincerely invite users to personally supervise product testing and verify before delivery

### Product price commitment

We choose the international high-quality parts for your goods to ensure the reliability and advanced, and provide you the truly price.

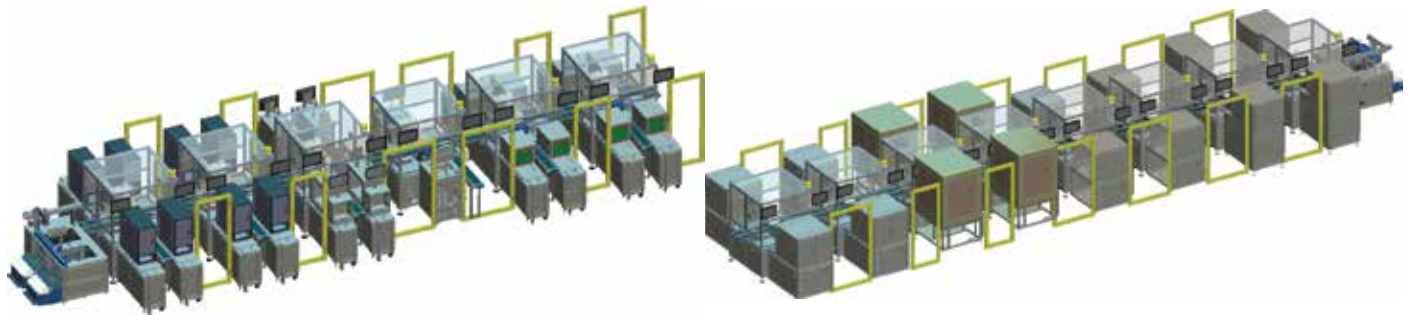
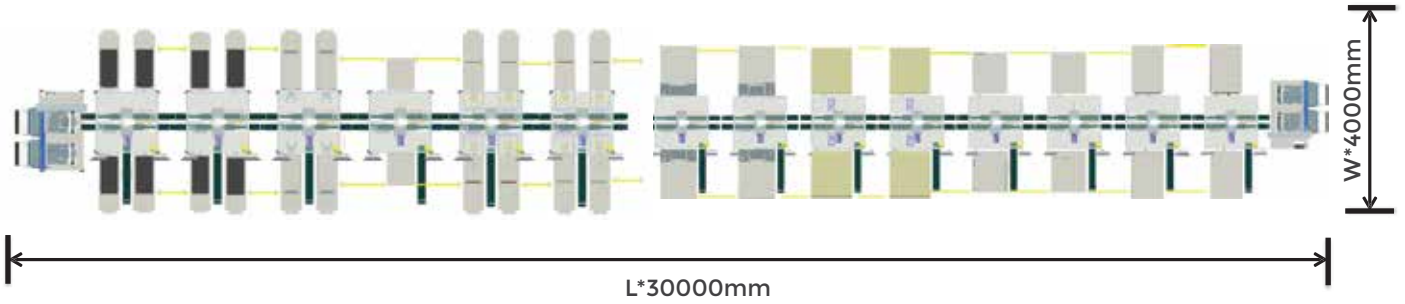
### Service hours

During the service period, 24 hours a day (7 days a week)



# Product & Case Study

The whole mobile phone automation & unmanned test line



FAMMI & AUDIO & MMI2 & ANT

CAM1 & CAMCAL & CAM2 & DCAM



## Test Equipment - Mobile Functional Tester (MMI)

- Wifi
- BT
- Acceleration sensor
- Gyro sensor
- Gravity sensor
- BL lock status detection
- ESE clearance
- Battery status
- Battery power
- Memory information
- Version information
- Touch screen test
- LCD test
- LCD backlight
- Keyboard backlight test
- Breathing light (LED)
- Flash light
- Headphone plug & unplug
- Headset button
- OTG test
- Charging test (USB)
- Sound function test
- Vibration Test
- Fingerprint test
- Air pressure
- Temperature
- Sim card
- SD card
- LDC self calibrate
- PSN

## Test equipment - Audio Tester (AUT)



- ✓ The module is guided by a linear slide (HIWIN);
- ✓ The module provides 25PIN circuit adapter X1, 12PIN pneumatic adapter X1;
- ✓ There are oil pressure buffers to provide buffering in and out of the warehouse;
- ✓ 7 gas paths with controllable speed;
- ✓ Equipped with MIC and speaker stand, the position can be adjusted and there is a scale display position.
- ✓ Dozens of other main test items.
- ✓ USB auto plug
- ✓ The headset is automatically plugged in & out
- ✓ Automatic clamping
- ✓ Check phone status
- ✓ Fast switching

# Product & Case Study

## Test Equipment - Camera Tester (CAT)



- ✓ The device adopts modular design, which can realize automatic plugging and unplugging of all interfaces (microUSB & Headphone Jack)
- ✓ Adopt surface transmission light source, its light source color temperature is 6500K-the standard environment color temperature
- ✓ The deviation is less than 200K to ensure the saturation and uniformity at Test.
- ✓ The structure adopts 1 - drag - 4, which greatly improves the production efficiency.
- ✓ Changing the module enables switching between different projects
- ✓ With the use of the manipulator can achieve full automation of the production line.

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## Test Equipment - FPCB testers

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4 Station Rotary Tester (ICT/FCT)

### Applied range:

- ✓ Mobile phone FPCB
- ✓ Automobile FPCB
- ✓ 3C product FPCB



FPCB Single Station Tester

### Applied Range:

- ✓ Watch
- ✓ Hard disk
- ✓ RF function test

# Product & Case Study

## Automation Equipments



Flatness Module Testing Equipment



Auto Feeder



Laser Focusing Test Equipment



Manual Dispensing Machine



Rotation Module



Transmission Module



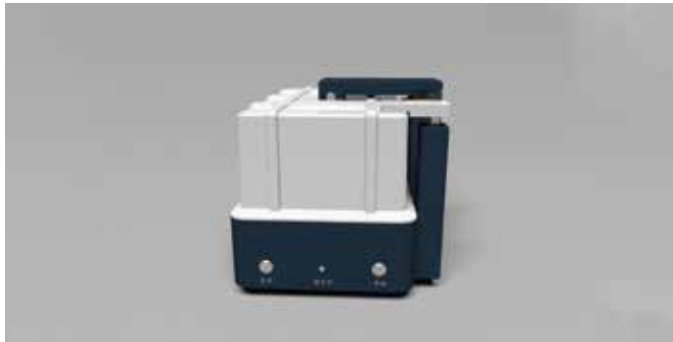
Camera Hole Position Detection



Audio box

# Product & Case Study

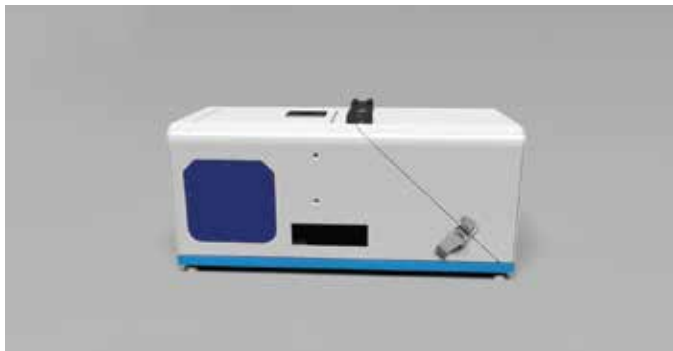
## PCB Level Testers



RF Shielding Box



PCB Function Test Fixture



Mini Download Fixture



Download Fixture



Functional Test Fixture



Battery Charge Fixture

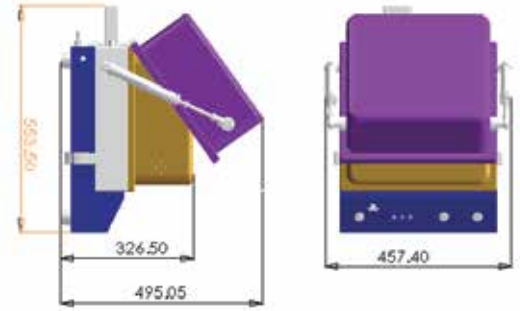
## Functions

- ✓ All data interfaces and power supply signals adopt EMI filtering technology
- ✓ Adopt large space production method, by the third party laboratory certification, its isolation frequency upto 6GHz
- ✓ The rear panel interface can be customized according to different requirements.
- ✓ With the use of the manipulator can achieve full automation of the production line.

# Product & Case Study

## ANT Test system

Mainly used for power test and sensitivity test and electrical performance test of wireless electronic products and wireless communication products. Such as: mobile phone RF test, wireless router, wireless AP, wireless fixed line, etc.



## Test Equipment - FPCB testers

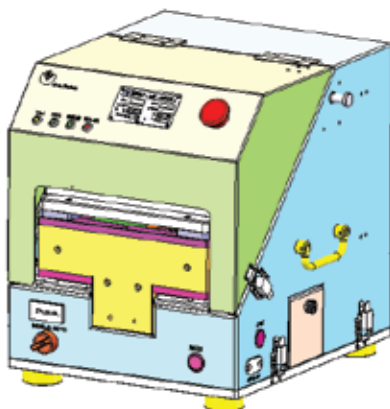
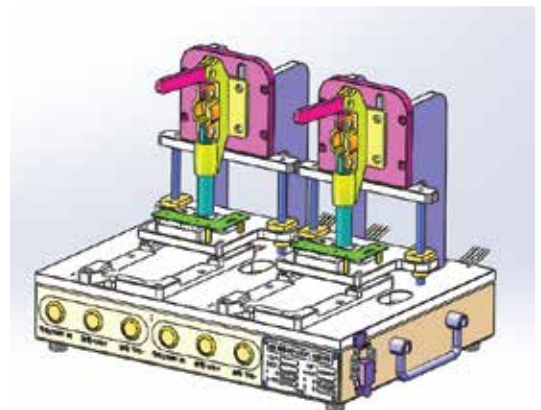
Perform RF performance tests on products, such as RF, Bluetooth, WIFI, GPS, etc.

1. The rack is guided by two guide rails and precision module components to ensure accurate and stable positioning.
2. Can test multiple DUTs simultaneously.
3. The needle bed and the carrier board use copper sleeves, and the guide shaft is accurately guided.
4. The jig is pressed in and out smoothly.

## Current Test Jig

The jig is a dual station and is mainly responsible for testing the switch current of the mobile phone motherboard. Specific test items can also be made according to customer needs.

Description	Specification
Power supply	220V
Communication	RS232/DB9
Mode	Auto/Manual
Size (mm)	397*275*260



## BB1 Fixture - 1

BB1 board test equipment functions:

1. Transfer the test points, power connectors, headphone jacks, USB ports, etc. on the motherboard of the product to the external surface of the structure. SIM & SD card test is performed by simulating the SIM & SD card on the PCB.
2. When testing the motherboard, use the terminals on the external surface of the structure to power on the motherboard and test the motherboard test items such as power supply and USB ports through the terminals.



# Product & Case Study

## Automatic film laminating machine

The equipment is a professional automatic production machine for automatic attachment of various optical films such as backlight diffusion film, light enhancement film, and light shielding film. It has the advantages of few overlap defects, high degree of automation, safe and reliable operation, and easy operation. It is an important equipment required in the production process of backlight.

Fitting accuracy :  $\pm 0.05$  mm

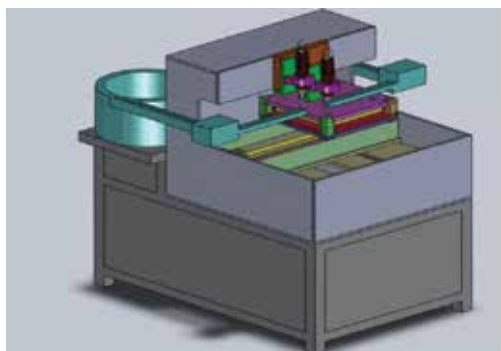
Operating Voltage : AC220V

Maximum fit size : 2.8~5 inc (customizable)

working pressure : 5-6Mpa

Calibration method : XY Correction

Size: 2685\*1845\*1762mm



## Automatic screw machine

1. The feeding system sorts the screws and distributes the screws through a distributor, and the pipes send the screws to the driver.

2. An electric or pneumatic screwdriver that locks the screws into the product. Compared to holding the screw in one hand, the electric screw or the air screw in one hand. After locking one screw, you only need to lift the screwdriver to align the next screw hole to lock the screw. The machine will automatically transfer a screw to the screwdriver when you lift the screwdriver, wait for the next screw to be locked, and so on.

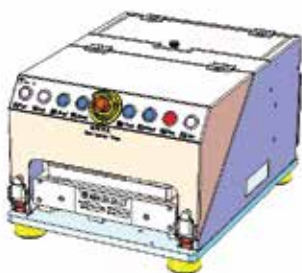
## BLT single station mini DL

1. Support automatic exit of positions after the test is completed, the test software needs to send instructions for execution.
2. Added automatic mode, only need to be responsible for loading and unloading manually.
3. The machine is easy to maintain and convenient to transport. The dual-cylinder mode ensures stable compression.
4. Strong compatibility, convenient product changeover, only the module-needle bed component needs to be replaced, can be completed in the factory, and the operation is simple.
5. Control method between machine and computer: RS232, Download method: USB transmission method.
6. The machine is equipped with anti-pinch hand function to increase machine safety performance.



## BLT-DL&SA Combined fixture

1. During the test, put PCB into the carrier, the start button is manually pressed, and the entry and exit warehouse components are put into the warehouse. After the warehouse is in place, the needle bed component performs the pressing action.
2. Camera automatically scans the QR code and starts testing. After the test is completed, press the start button to enter and exit the warehouse assembly and exit the warehouse to remove PCB.

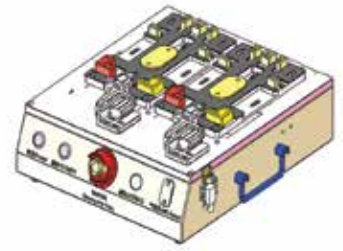


# Product & Case Study

## LED screen test

1. LCD\_TEST fixture is composed of a product Holder component, a box component, a platform component, and a center calibration part.

2. The product is placed in the holder -component, button control or automatic control, the USB-automatic plug-in component performs automatic insertion, and starts testing. After the test is completed, press the start button to unplug the USB - automatic plug-in component. Take out the phone.



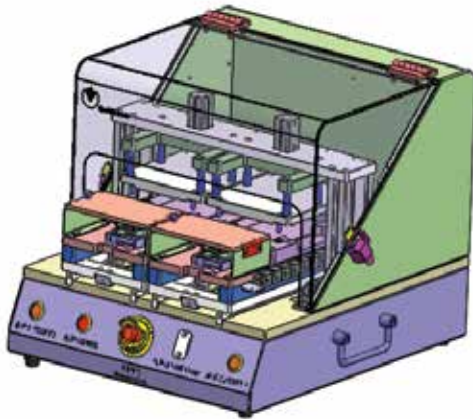
## ECT fixture

1. Support automatic exit of positions after the test is completed, software needs to send instructions for execution, and supports code scanning.

2. Independent working mode, the two stations on the machine are in an independent state, and any one of the stations can be discharged from the warehouse and continue to work.

3. Strong compatibility, convenient product changeover, no need to replace the whole machine. Only holder can complete the product change. When the module is replaced, the replacement can be completed in the factory, and the operation is simple.

4. The test pins on the machine are made of IGUN, so the test is relatively stable.

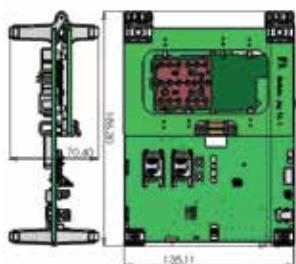
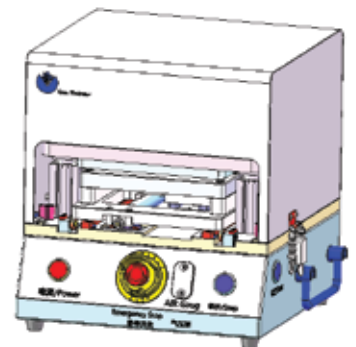


## BLT - single station MBT

1. Responsible for testing the startup current, standby current, write number, version number, geomagnetism, shutdown current, etc. of the PCB.

2. During the test, manual loading and unloading, placing the PCB into holder, press the start buttons on the left and right sides of the fixture at the same time, the needle bed is pressed down, and the camera automatically scans the code and starts test.

3. To meet the finished product test function, the test probe is selected by INGUN, holder assembly need to be made of ESD material. The test equipment is compatible with multiple types of product testing.



## Calibration jig

1. Production line for calibrate jigs

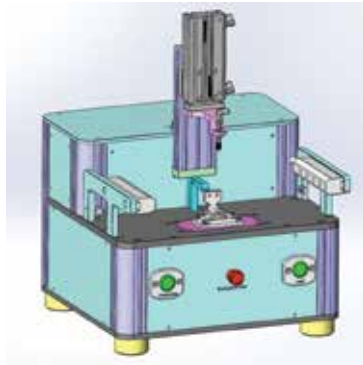
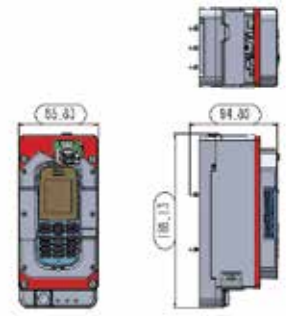
2. Test functions mainly include USB test, battery test, SIM card test, RF, speaker test, headset test, microphone test, Keypad LED, vibration test, LCD test, etc.

3. The functions can be added according to customer needs. The customers include Foxconn and Xiaomi.

# Product & Case Study

## Label adapter fixture

Label Adapter Test fixture for the whole machine, put the mobile phone in the Holder part, and insert the USB to start testing the boot of the mobile phone. Currently, customers include Foxconn and Nokia.



## FPC soft board test fixture

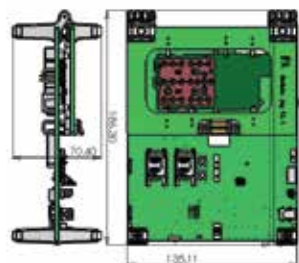
Through the connector test FPC soft board circuit ICT test, the operator puts the tested object into the Holder cylinder and presses it, and then the button on the operation panel starts the soft board test. The running time of the test mechanism for a single product: 6 ~ 9s, convenient and fast, Currently using customer Sony.

## Primus fixture

This fixture is mainly a function test of the mobile phone motherboard, including USB test, battery connection, SIM card detection, RF test, FM test, audio test, Torch LED and Keypad LED test, etc.



Description	Specification
Power supply	220VAC
Size (mm)	413.4*218.4*178.6
Weight	2.5kg-3.5kg
Control terminal	Prepare by customer
Mode	Auto



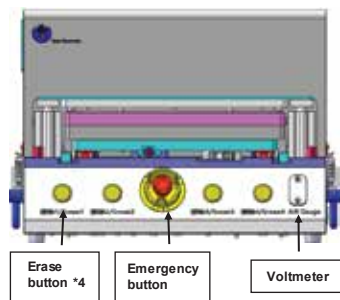
## Rafla fixture

This fixture is a four-station test. The main test functions are USB test, battery connection, SIM card test, RF test, FM test, audio test, Torch LED and Keypad LED test, etc.

Description	Specification
Power supply	220VAC
Size (mm)	310*240*85.5
Weight	3.0kg-4.0kg
Control terminal	Prepare by customer
Mode	Auto

# Product & Case Study

## Download Fixture



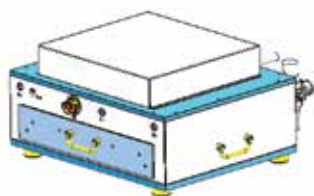
Description	Specification
Supply voltage	24V DC
Air supply pressure	0.4~0.6MPa
Size	230mmX270mmX280mm
Weight	15-16.5kg
Working temperature	10~40
Relative humidity	≤ 90%, Non-condensing
Control terminal	prepared by customer
Work / Operating mode	1 to 4 -- Manual / Auto
System communication	RS232
Control method	PC + Embedded control board
Device interface	1xRS232, 4 xDB25, 1xUSB2.0, 1 xDC,2x doctor terminal

## Press Assembly Fixture



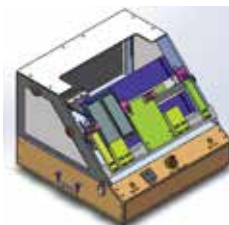
Description	Specification
Model	QS-Press 3001
Size (mm)	400*350*520
Power Supply	220v
Air supply pressure	0.4-0.6Mpa
Weight	30KG
Working temperature	10°-40°
Relative humidity	≤60 %, Non-condensing
Control terminal	prepared by customer
Work mode	Manual / Auto
System communication	485
Control method	PCL
Equipment interface	1*AIR\220V

## Cleaning fixture - semi norm



Description	Specification
Model	QS-T300-A1
Size (mm)	600*604*303
Power Supply	24V DC 2A
Air supply pressure	0.4-0.6Mpa
Weight	33kg
Working temperature	10°-40°
Relative humidity	≤60 %, Non-condensing
Control terminal	prepared by customer
Work mode	Manual / Auto
System communication	RS232
Control method	PC + Embedded control board
Equipment interface	Three in one power supply

## Double SAR calibration test fixture



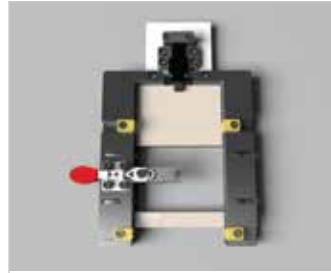
Description	Specification
Model	QS-T300-A1
Size (mm)	590*564.5*400
Power Supply	24V DC 2A
Air supply pressure	0.4-0.6Mpa
Weight	28KG
Working temperature	10°-40°
Relative humidity	≤60 %, Non-condensing
Control terminal	prepared by customer
Work mode	Manual / Auto
System communication	RS232
Control method	PC+Embedded control board
Equipment interface	Three in one power supply

# Product & Case Study

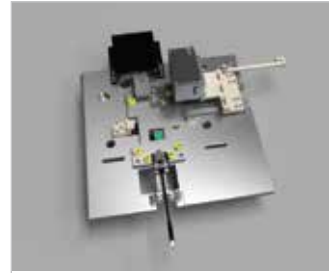
## Test & Assembly Fixtures



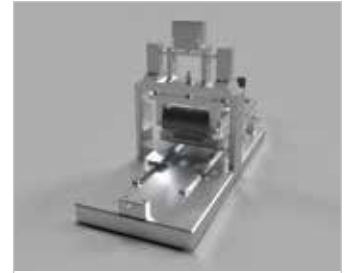
Air Leak Testing  
Fixture



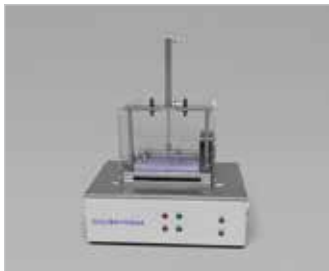
Camera Focal Length  
Adjusting Fixture



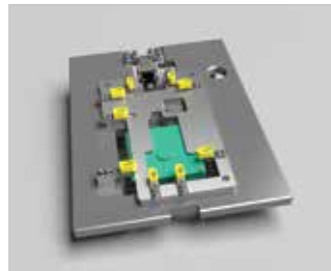
Camera Testing  
Fixture



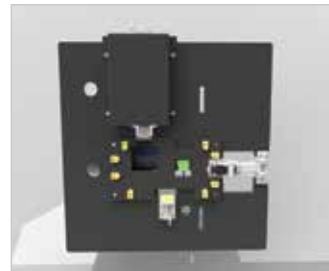
Film Paste  
Fixture



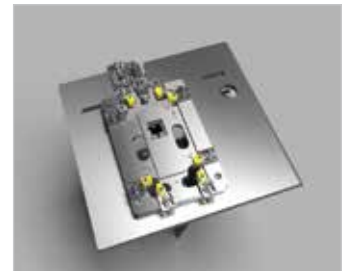
Flatness Of Electrical  
Inspection Fixture



NFC Test  
Fixture



Rear Camera Testing  
Fixture



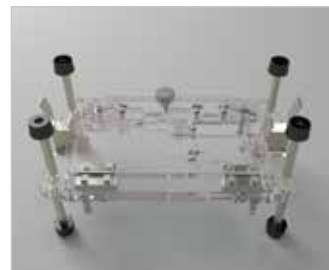
RF Test  
Fixture



Lcd Screen Test  
Fixture



Pohone Function  
Testing Fixture



Repair  
Fixture



Water Proof  
Fixture

## Products

- ✓ Complete Function Test Systems
- ✓ Functional Test Fixturing
- ✓ Manual Fixtures for Assembly lines
- ✓ Automation Machines for Mobile Manufacturing
- ✓ FPCB Testers
- ✓ Test Fixtures Accessories
- ✓ RF Testers & Accessories of RF Fixtures & RF instruments.
- ✓ Test System Analysis Software's
- ✓ Consumables items

# Why Choose GTC?



Fixtures are developed using 80% imported & branded materials.



Our Testers & Fixtures are of affordable prices.



Shortest lead time for fixture development guaranteed.



Given the competitiveness of our pricing, we don't compromise on the quality of the Testers & Fixtures.



Complete technical support provided by us which includes programming, installation, de-bugging & trouble-shooting as and when required by customer.



Our fully integrated test engineering value stream includes Functional product test expertise, integrated with world class software's engineering, machining, drilling and fabrication facilities.



A dedicated project management process ensures continual communication with customer through the design, build, verification, acceptance and lifestyle management stages.



With over 500+ Functional & board level testers & 1200+ Functional fixtures & Assembly Fixtures supplied to various customers across India, our company has vast experience in this field.

# Co-Operative Partner



FOXCONN®

NOKIA

SONY



flex.



CTT

FOXLINK  
Foxlink Image Technology

Salcomp



**We genuine**  
**We remarkable**  
**We worth connecting with**





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