

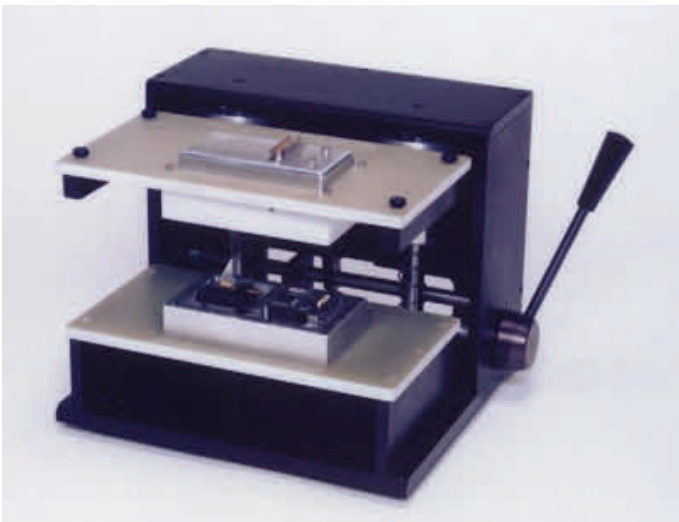
## Functional Test Fixtures For..

**PRINTED CIRCUIT BOARDS,  
FLEX CIRCUITS,  
CERAMIC SUBSTRATES.**

**Cortek's Mechanical Press** platform is designed to provide precise, bed-of-nails contact, in both R & D and Production environments. Durable aluminum and steel construction, precision bearings and hardened steel Thompson rods insure accuracy and repeatability sufficient to contact test points on very close centers.

The unit can be configured to provide simultaneous contact to both top and bottom sides of printed circuit boards and other substrates. The cost of probe plates and pusher plates is significantly lower than the cost of comparable vacuum fixturing and the press can easily be reconfigured for different UUT part numbers.

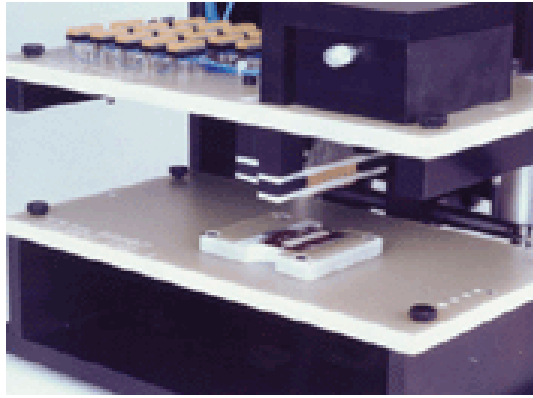
The mechanical fixture can reliably contact targets on .025" centers. We have and can contact targets on tighter centers but this must be evaluated on a case by case basis. Of course, other tolerances such as the hole diameters drilled in the probe plate, tooling pin specifications, spring probe specifications and artwork patterns must be tightly controlled.



### Features:

- ***Mechanical Operation***
- ***Top and Bottom Side Probing***
- ***Fine Pitch Capabilities***
- ***Replaceable Fixture Plates***
- ***Linear-Vertical Actuation***
- ***Reasonable Prices***
- ***Distribute and Represent IDI spring contact probes***

Contacting RF boards under test often presents special problems. This requirement dictated that the UUT be tested in an RF leak proof environment. To complicate matters. The RF probe had to be connected as the fixture closed!



Functional Test Fixture for Flex Circuit

An upper “pusher” plate and the lower probe plate are configured for the Unit Under Test. The pusher plates are typically fabricated from G10. Push rods, made from Delrin, are cut to the proper length to compress the UUT when the fixture is engaged. The Delrin push rods are installed in the upper plate in such a way that they will not contact components on the UUT.

You will decide which nodes on the UUT are to be tested. Ideally, you will provide us Gerber data, a loaded board configured in the way it is to be tested, and other documents so the probe plate can be drilled and populated. Once assembled, the fixture is wired to whatever type of termination you specified.

In applications requiring top and bottom side probing, the upper plate is drilled, populated and wired to rows of transfer probes to route test signals from the top plate to the bottom plate and then to whatever termination was selected.

### OPTIONS

- Video Camera for Precision Alignment
- Adjustable Probe Blocks for X, Y Adjustments
- X-Y Table for Bottom Probe Plate
  - Pneumatic Operation
- Spring Probes & Receptacles
- Spring Loaded Tooling Pins

### MODEL 9560M

- Test Area: 9.5” X 6.0” (UUT may extend beyond test area)
- Maximum Load: Standard up to 200 lbs.
- Dimensions: (W X H X D): 12” X 9.25” X 11.5”
- Weight: Approximately 35 lbs.

### MODEL 1012M

- Test Area: 10” X 12” (UUT may extend beyond test area)
- Maximum Load: Standard up to 200 lbs.
- Dimensions: (W X H X D): 15.5” X 10” X 16”
- Weight: Approximately 50 lbs.

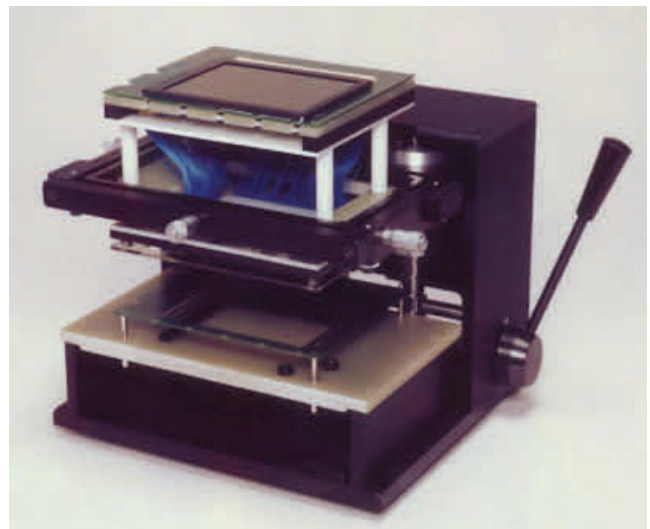
### Cortek Addresses Key Issues:

- **High Level of Accuracy**
- **High Level of Repeatability**
- **High Level of Reliability**

### Cortek Test Solutions

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Functional Test Fixture for testing LCD Driver board.