

TEST ELECTRONICS' TE-4000 Test Fixture

High Volume Pneumatic Actuated PC Board Test Fixture

Now combine the TE-4000 test fixture with National Instruments data acquisition boards and perform functional, in-circuit, or bare board testing right on your bench top!



Customized tester shown for reference only. Your tester's customizations will differ slightly depending on the application.

TE-4000 PC Board Test Fixture

Order Test Fixture # TE-4000

Test Electronics will customize the TE-4000 bed of nails style test fixture for your circuit board and test application. Next, add a desktop or rack mount computer, plug in the National Instruments Virtual Instrumentation boards and software. This will create a complete full performance cost efficient functional, in-circuit, or bare board tester.

Quick and Simple 2 step operation

1. Insert the circuit board under test in the tester.
 2. Press the dual safety buttons.
- The bottom plate holds the board under test and raises it. This presses the board into the spring loaded test pins making contact with the circuit board under test.

Test system compatibility:

- ✓ Windows NT/98/95
- ✓ Windows 3.1
- ✓ DOS
- ✓ Mac OS

Test Electronics, a leader in test fixture technology has teamed up with National Instruments a leader in Virtual instrumentation to bring you high quality cost effective solutions to functional, in-circuit, and bare board testing!

The PCI-6071E DAQ Boards shown here are products of National InstrumentsSM



Back View

Shown here is the back view with the bottom plate down. Connectors will be placed on this rear panel. Power and air pressure are provided from the back. We pride ourselves in our neatly designed panel layouts. We emphasize our Understand-it-at-a-glance motto for intuitive easy to learn operation.



Mechanical

The tester is comprised of 2 plates. The top stationary bed of nails plate and a bottom push plate.

1. The spring loaded test probes are mounted in the top plate and are typically wired out to connectors on the back panel.
2. The bottom push plate holds the tooling pins and the board under test. This plate pushes the board up into the top bed of nails plate.
4. Patented High accuracy roller bearings combined with state of the art anti sway technology holds tight tolerances over long term industrial use keeping the plates parallel within .001" / linear ft.
5. The chassis is built with industrial strength .090" aluminum, reinforced with a heavy duty 3/8" aluminum inner frame.

Inside View

This view with the top cover open shows the easy accessibility provided in our fixture designs. In this example of a functional tester, an internal signal processing board and a power supply connect to the board under test. Low speed signal and data pins are wire wrapped to the appropriate rear panel connectors where they are cabled out to an instrument board. Higher speed signals, and noise sensitive signals are wired with twisted pairs or coaxial cable. All wiring is neatly bundled for easy troubleshooting and modification. Extreme care is taken in the manufacture of all plates. All plates are precision ground, buffed to a high gloss, center drilled, then finally, drilled to an accuracy of 1/10 of a thousandth with carbide drill bits running at 20,000 RPM under high pressure coolant. Receptacles are then inserted and swaged with a custom built CNC machine providing an extremely high degree of perpendicularity exceeding 1/1000" per linear foot.



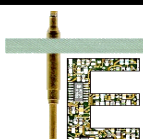
Specifications

Maximum pin count	2000 pins
Plate Travel	3"
Estimated Life (operations)	2,000,000 cycles

Test Electronics, a leader in test fixture technology. Creating innovations in testing by utilizing the latest high tech tools to their full potential.

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