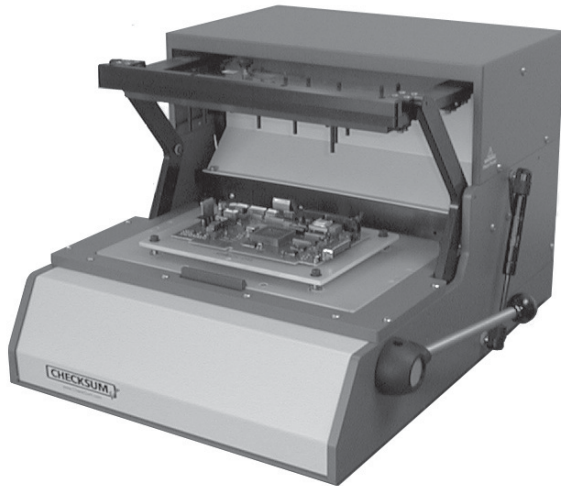


Model TR-5-400-QC Mechanical Fixture System

Product Features

- Up to 400 Test Points
- Low-Cost Replaceable Fixture Kits
- Single-Action Lever Engagement
- Top and Bottom Probing of SMT and through-hole
- Compatible with TestJet Technology
- Easy-to-Change Fixtures



Model TR-5-400-QC with UUT in Place

The CheckSum Model TR-5-400-QC Mechanical Bed-of-Nails Fixture System is designed for test fixturing of assemblies with probe areas of up to 11.75" by 8.50" with up to 400 test points. The Fixture System consists of a reusable Fixture Press that is used in conjunction with low-cost, easily interchanged Fixture Kits.

To operate the fixture, the operator places the unit-under-test (UUT) onto the guide pins in the fixture. The operator then turns the lever-arm to actuate the probes. Turning the lever-arm closes the lid and compresses the probes through a linear mechanical-advantage mechanism. When the operator rotates the lever-arm, the top plate moves forward and down to engage the UUT. The lever-arm can be moved to the right or left side of the system depending on operator preference.

The TR-5-400-QC Fixture System is shared by all of your UUTs. Since the TR-5-400-QC has linear travel, it can accommodate probing on both top and bottom with either standard probes or TestJet Technology* probes.

For each individual UUT, a low-cost KIT600-QC is customized by drilling and wiring. Installing Fixture Kits in the Fixture Press is done very quickly. This process is simplified because there are no cables to change and no tools are required, the top and bottom simply snap into

place. A bottom pan protects the wiring and pins in the removable Fixture Kits. Using the storage handles, the top pressure plate can be attached to the probe plate when the fixture is not in use.



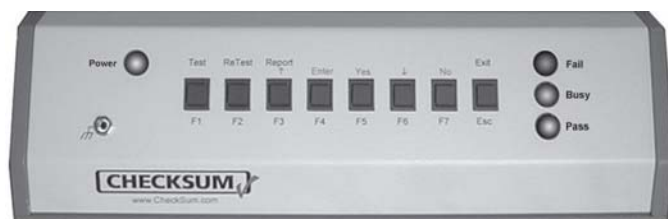
Model TR-5-400-QC Quick Interchange of Fixtures

**FIXTURE
SYSTEMS**

Configuration

Options for the TR-5-400-QC are the Front-panel keypad and the 200-point Receiver blocks with wiring to back-panel connectors.

The TR-5-400-FP front-panel keypad option provides an operator input keypad and four LEDs that can indicate Power, Fail, Busy, and Pass. This connects to the CheckSum system module using the back-panel DB25F connector.



Model TR-5-400-FP Front-Panel Keypad Option

Model TR-5-400-QC Mechanical Fixture System

Signals are transferred from the fixture kit to the fixture press back-panel connectors by low-cost 200-point wiring blocks (FIX-200P-WB) in each fixture kit and 200-point receiver blocks (FIX-200P-RBPM) mounted in the fixture press. At least one 200-point receiver block (FIX-200P-RBPM) must be ordered with the TR-5-400-QC. The TR-5-400-QC can accept up to three receiver blocks for connecting up to 600 signals into the fixture kit. The TR-5-400-QC is designed to compress a maximum of 400 spring probes in the fixture kit.

Four standard 50-pin back-panel connectors are included as part of each FIX-200P-RBPM receiver block.

The Model KIT600-QC Fixture Kit includes:

- Probe-plate with bottom pan
- 2 shipping/storage handles
- Clear polycarbonate top plate
- 10 MA-ROD pressure rods

Customizing Your Fixture

If you are doing your own custom fixturing, you will need to add UUT guide pins, spring probes and receptacles, internal wiring, FIX-200P-WB wiring blocks, and additional pressure rods as needed.

At least one 200-point wiring block (FIX-200P-WB) must be ordered with the KIT600-QC. The KIT600-QC can accept up to three wiring blocks for connecting up to 600 signals into the fixture kit.

Customizing entails installation of guide pins, drilling for spring probe receptacles, wire wrapping inside the fixture from the bottom of the spring probe receptacles to the wiring block target pins, and installation of pressure rods in the top plate.

TR-5-400-QC Specifications

Weight (Press)	Approximately 35 lbs. (shipping wt. 45 lbs.)
Weight (Kit)	Approximately 10 lbs. (shipping wt. 15 lbs.)
Overall Size	20"W x 24"D x 13"H
Usable Size	11.75"W x 8.50"D (probe area)
Inside Depth	2.44" (inside bottom pan)
UUT Height	1.525" (probe plate to top pressure plate)
Probe Plate	0.375" G-10 (FR-4)
Top Plate	0.50" Polycarbonate
Linear Travel	0.50"
Probe Count	Up to 400
Interface Signals	Up to 600
Back-Panel Connectors	50-pin header - 25x2, 0.1" on-center, pins Keypad connector - DB25F Ground input - banana jack



Model TR-5-400-QC Back-Panel



Model KIT600-QC Fixture Kit



Model TR-5-400-QC Ready for Testing

Ordering Information

Model	Description
TR-5-400-QC	Mechanical Fixture Press
FIX-200P-RBPM	200 Point Receiver Block/Cable
TR-5-400-FP	Front-Panel option
KIT600-QC	Fixture Kit
FIX-200P-WB	200 Point Wiring Block for KIT600-QC
MA-ROD	Pressure Rod (1.150")
MA-ROD-T	Tapered Pressure Rod (1.150")