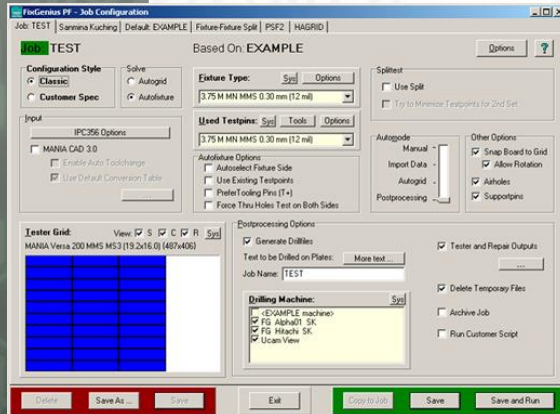| SOFTWARE	LASER PHOTO PLOTTERS	DIRECT IMAGERS

FixGenius

Smarter Fixtures save Cost

- Superior Fixtures
- Cost-saving Automation
- Out-of-the-Box Productivity
- Zero Defect Fixturing
- Operator controlled workflow
- Seamless Integration
- Part of a Compatible Software Suite
- Protects your Investment in Grid Testers

Quality Control – and Electrical Test in particular – is traditionally considered as the last "necessary evil" before a Printed Circuit Board finally finds its way to the impatient customer. Yet despite this unrelenting pressure on the QC-department, it is somehow taken for granted that the quality engineer will flawlessly pin down any errors that may have slipped through the net in one of the processes upstream. His skill to correctly tell the good board from the bad is a pillar that carries a company's reputation for quality. But unfortunately, it is not always as simple as that. Nowadays, even the best of quality engineers need equally good tools, as costly test escapes may result from the sustained use of antiquated and manual software. Higher productivity and increased security may be gained with a small investment in state-of-the art software, rather than with a large investment in hardware. That's where FixGenius comes in.
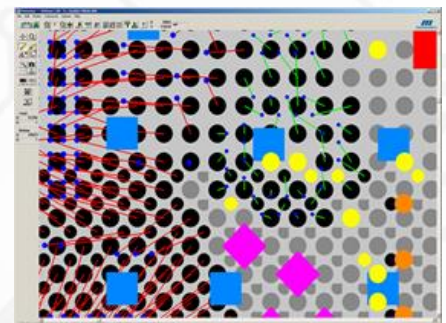
MARKETS
Rigid PCB Mfr ✓
Flex PCB Mfr ✓
Flex-Rigid PCB Mfr ✓
HDI PCB Mfr ✓
PCB Masslam Mfr ✓
PCB Equipment Mfr
PCB Traders ✓
PCB Designers
PCB Test Centers
IC Packaging ✓
Chemical Milling
High Resolution Graphic Arts
Flat Panel Display

PRODUCT FAMILIES
CAM
PreCAM and Engineering
Electrical Test ✓
Equipment Front Ends
Format Converters & RIP's
OEM Software

Laser Photo Plotters
Direct Imagers

64Bit

Multi Core

Superior Fixtures

FIXGENIUS' rule-based probe-mapping algorithms reduce pin deflection by up to 25% compared with traditional fixturing packages. Lower deflection means easier assembly, a more reliable fixture, with shorter set-up time and higher first-time pass rate. Lower deflection can mean fewer guide plates; fewer plates mean shorter drill times. That is why **FIXGENIUS** fixtures are cheaper to build and easier to run.

FixGenius finds single-density fixturing solutions where previously double-density was needed, or a single-pass solution where two fixture sets used to be required. If a solution is mathematically possible, **FIXGENIUS'** algorithms will find it, and pick the one with least deflection. If the job cannot be done with one single fixture, **FIXGENIUS** will fully automatically split the test into multiple fixtures or into a fixture and a flying probe test set, with guaranteed test integrity. It will find ingenious solutions were other packages fail. If you have a choice of testers, fixture-styles or pins, **FIXGENIUS** allows you to prioritize them and will then consistently pick the most economical solution, based on your parameters. So when the number of high-density products is on the rise, it is time to look out for a smarter fixturing software.

Cost-saving Automation
No matter how complex the job is, it is a mere matter of minutes before the test solution is ready. Automatically. **FIXGENIUS** automated functions are fully integrated into the **UCAMX** GUI and save you hours of laborious editing.

Out-of-the-Box Productivity
Qualified Ucamco staff will review your workflow and set up **FIXGENIUS** accordingly. They make absolutely sure that every aspect of the test process is covered and that you are getting the maximum out of your available equipment. All this is done off-line prior to installation. **FIXGENIUS** highly automated functions reduce training to a minimum.

Zero Defect Fixturing

FIXGENIUS checks incoming data for completeness and flags all inconsistencies to avoid that bad data results in wrong fixtures or worse, flawed tests. Run-time production checks verify that the fixture can be drilled, that the board can be transported automatically, and above all, that it can be tested correctly. "Is the test pin big enough for the drill hole under test? Does it have the required head shape? Is the test pin not conflicting with the cutoff on any of the plates? Are pin distances ok? Is there enough rest material to avoid breakout?" These are just a few out of **FIXGENIUS**' battery of automated consistency checks that will ensure the creation of a sturdy and reliable fixture.

When all conditions for a valid run are met, the actual fixture generation is set off with a simple mouse click. The process is governed by vendor-specific rules defining the fixture, and job-specific rules selected by the customer. This unique approach, together with **FIXGENIUS**' fixture-building knowledge base embedded in the package, ensures that every operator – novice or experienced – will produce correct and consistent electrical test tools, regardless of the hand driving the mouse

Operator-Controlled Workflow

For the exceptional case where FixGenius fails to find a solution or for situations where you may want to change the pin set configuration, **FIXGENIUS** features a powerful Fixture Editor to do whatever needs to be done. Zero-defect remains guaranteed, as the editor checks every modification in real time, monitoring the test integrity throughout the entire process.
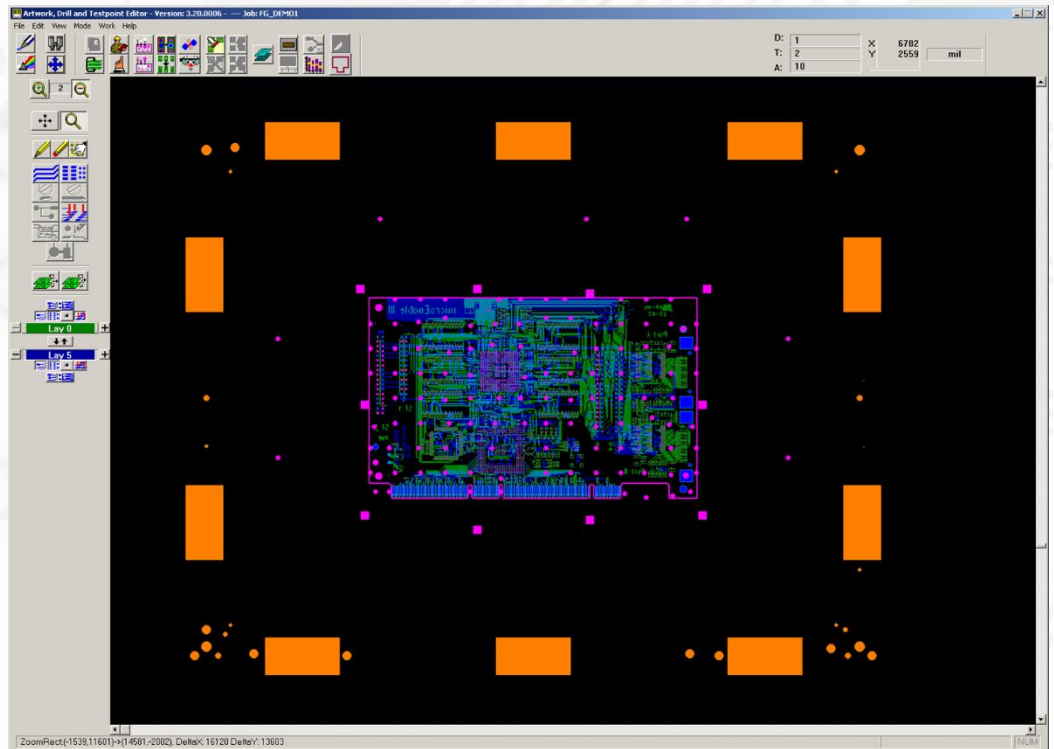
Seamless Integration

FIXGENIUS is totally open. It communicates with the data preparation front-ends upstream and with the testers and verification stations on the shop floor via standard IPC-D-356 formats. It is compatible with all common grid testers and fixtures styles. A highly configurable output processor outputs ready-to-use data for your drills and routers.

FIXGENIUS is designed to work with front-end data preparation software from all vendors.

Part of a Compatible Software Suite

Ucamco can supply you a full range of Electrical Test software. You can bundle **FIXGENIUS** with **UCAMX** SmartGrid to handle to complete workflow starting from CAM files up to building fixtures, or you can add Ucamco world-class FaultStation for fast fault-location.

Ucamco protects your Investments Electrical Grid Test Systems

Ucamco has a longstanding tradition of protecting its customer's investments. **FIXGENIUS** is no exception: Seamless integration into your environment. No test escapes due to poor data or operator errors. No labor-intensive editing or verification required. **FIXGENIUS** gives your test department a remarkable boost in productivity right from day one.