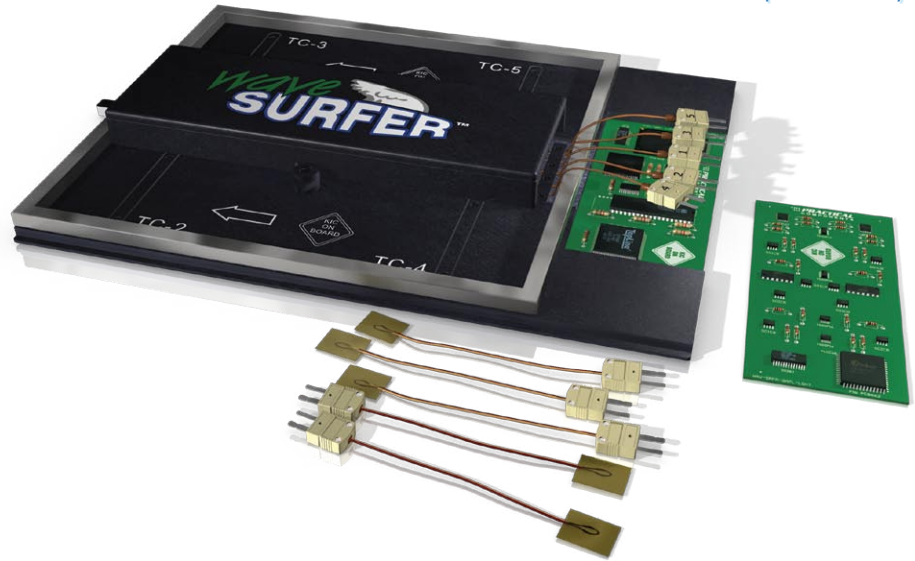# Wave Profiler Fixture

- ♦ Quick Wave Solder Machine set up
- ♦ Profile Preheat and Wave Sections
- ♦ Measure Wave Parameters
- ♦ Optimize Preheat with Optional Software
- ♦ Check Conveyor Speed
- ♦ Track Machine Repeatability

Check your wave soldering process and fine-tune your machine for optimum performance with the KIC Wave Surfer™.

The Wave Surfer profiler fixture used in conjunction with your KIC Profiler and the KIC 2000 software, provides critical data on wave solder machine set up and performance. This system ensures your wave solder machine is set up and performing properly.

The Wave Surfer and KIC Profiler travel through the machine and collect thermal data in the preheat area using a sample PCB. They then collect specific wave information in the wave using embedded TCs.

The easy, accurate and repeatable operation uses KIC's award winning software. The software graphically guides you through each easy step to acquire a profile and optionally optimize the process. Once the profile is complete, the graph and report will display:

- **User defined preheat data and Process Window Index for:**
  - **Peak preheat temps**
  - **Ramp rates**
  - **Total time above temps**
  - **Miscellaneous user defined parameters**
- **Measured conveyor speed**
- **Dwell time**
- **Parallelism**
- **Solder pot temperature**
- **Machine settings**
- **Process specs and limits**

TECHNICAL SPECIFICATIONS

Dimensions (L x W x H): ...... 411mm x 305mm x 37mm (16.2" x 12" x 1.5")

Weight: .... 2.509kg (5.531 lbs) without profiler and sample PCB

Max Temperature:.............. 350°C

Thermocouples:
  Wave Surfer Fixture: ..... 5 Type K, sheathed 1mm (0.04")
  Profile Board: .... 5 Type K, Teflon insulated .25mm (.01")

Pallet Material:.................... Durastone, Black, Anti-Static

Hardware: .... Titanium and Stainless Steel

See the SlimKIC 2000 or KIC Explorer product data sheets for thermal profiler features and specifications.

The standard KIC Wave Surfer consists of:

- KIC Wave Surfer fixture complete with embedded thermocouples that meet or exceed special limits of error type K thermocouples.
- RoHS Compliant
- 2 Sample PCB's (light and heavy)
- 5 Self-Adhesive, Type K TC's
- KIC 2000 Software and User Manual including a section on using the KIC Wave Surfer with your KIC Profiler.

The Wave Surfer is made of material similar to typical wave solder pallets and therefore can withstand thousands of passes.

Wave Solder Profiling Fixture

KIC ON BOARD

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