

Engineered for Precision.

Built for Performance.

Kelvin Contacts

Test Sockets

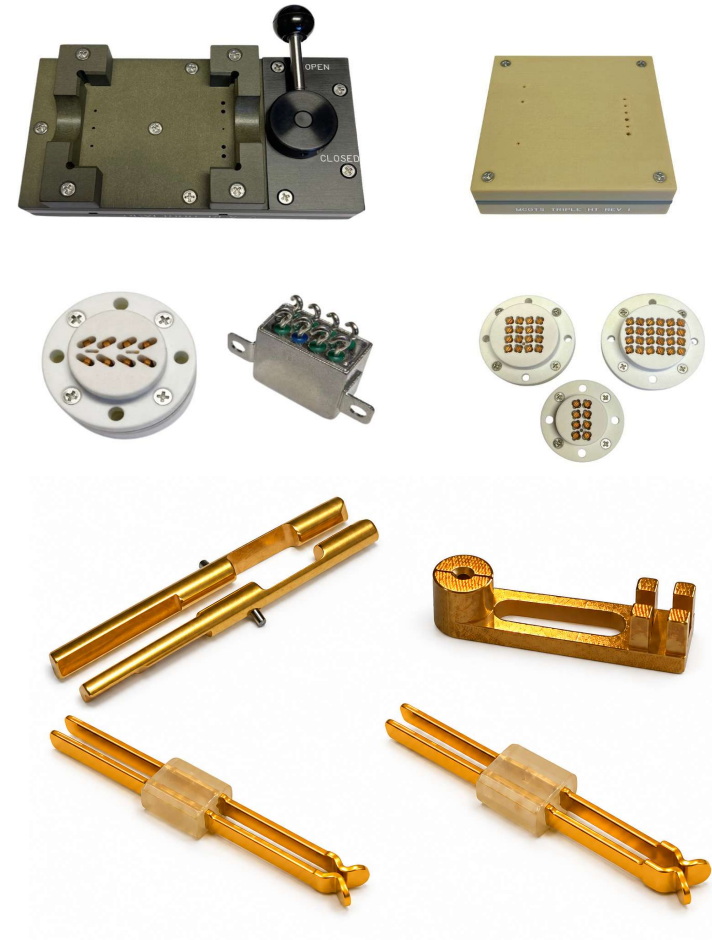
Custom Test Solutions



About Tooltronics

Established in 1962, Tooltronics, Inc. is a family-owned American manufacturer specializing in precision test contacts and custom test sockets.

With over six decades of manufacturing experience, we provide solutions designed to meet the evolving needs of the electronics testing industry.



At high current, the contact becomes the error



Lead resistance

Two-wire contacts add resistance that distorts low-ohm and high-power readings.



False failures

Worn or ill-fitting sockets fail good parts and slow production.



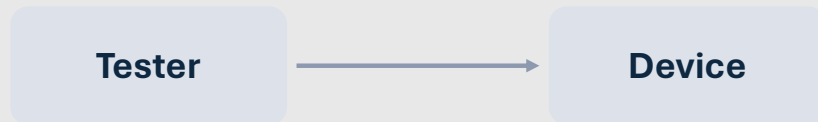
Downtime

Lead damage on insertion and frequent socket swaps stop the line.

Tooltronics builds the contacts and sockets that take these errors out of the measurement.

Why Kelvin contacts measure true

TWO-WIRE CONTACT



Current and voltage share one path, so contact and lead resistance are measured as part of the device.

FOUR-WIRE KELVIN



Force pair carries the current; the sense pair reads voltage right at the pin, so contact resistance drops out of the reading.

LPK Series | Kelvin Contacts

LPK-100

- 0.100" minimum centers



LPK-125

- 0.150" minimum centers



Shared Features

- True Kelvin (4-wire) design for accurate electrical measurements
- 30A continuous current rating (15A per side)
- High-performance Beryllium Copper construction
- 30 μ in Gold over 200 μ in Nickel Boron plating
- Designed for high-cycle testing and repeatable performance

HPK Series | High-Current Kelvin Contacts

- True Kelvin (4-wire) design for accurate electrical measurements
- 100A continuous current rating (50A per side)
- High-performance Beryllium Copper construction
- 30 μ in Gold over 200 μ in Nickel Boron plating
- Designed for high-cycle testing and repeatable performance



HPK-F



HPK-FS (ZIF)

Custom Test Sockets & Fixtures

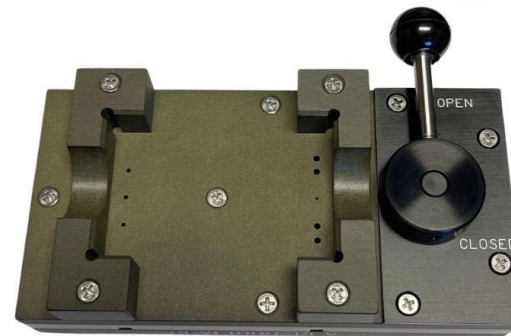
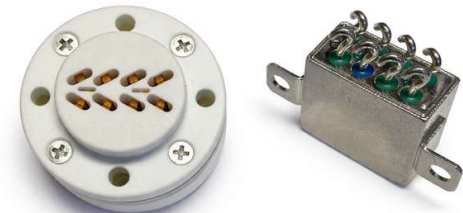
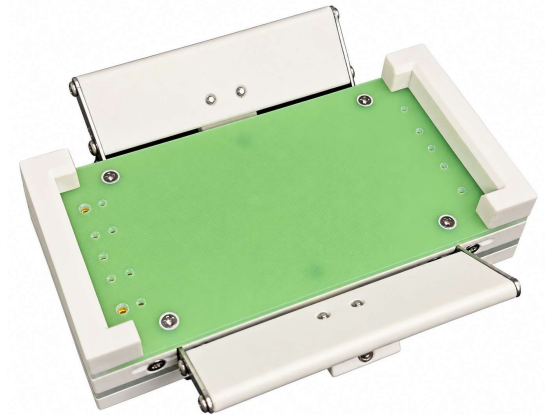
Tooltronics designs and manufactures precision test sockets and fixtures for semiconductors, relays, electronic components, and printed circuit boards.

Our custom solutions deliver reliable electrical connections, precise alignment, and repeatable testing performance.

Our Capabilities Include:

- Zero Insertion Force (ZIF) Test Sockets
- Low Insertion Force (LIF) Test Sockets
- SIP, DIP, SMT & Custom Package Test Sockets
- Custom Relay Test Sockets
- High-Current & Kelvin Contact Solutions
- Custom PCB Test Fixtures

Tooltronics Inc. | tooltronicsinc.com



Where Tooltronics fits



DC-DC converter test



Power relay test



Burn-in and validation



**Automated test
equipment**



**High-current
production test**



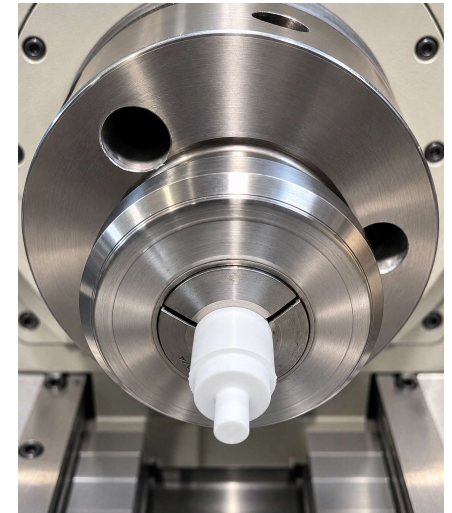
**Medical device
components**

Customers include power semiconductor, automotive, industrial relay and medical device manufacturers.

Precision Manufacturing & Engineering

Tooltronics combines decades of engineering experience with precision manufacturing capabilities to deliver high-quality, custom-engineered solutions.

- Custom design and engineering services
- Precision CNC machining manufacturing
- Prototype development and production
- Tight-tolerance components and assemblies
- Specialized materials for demanding applications
- In-house assembly and quality inspection



From Concept to Completion — Precision in Every Detail.

Why Tooltronics

Power test specialists

Focused on power modules and DC-DC converters since 1962.

Proven results

80%+ fewer socket failures and 30% fewer false failures in customer programs.

Accurate at high current

Four-wire Kelvin contacts rated from 15 to 50 A per side.

Custom, made in the USA

Designed, machined and tuned in-house in Whitney, Texas.

Next steps

From concept to completion, Tooltronics provides precision-engineered test solutions tailored to your application.

- 1 Share your testing requirements, performance goals, and any challenges with your current test setup.
- 2 Provide drawings, device specifications, or technical requirements for quotation.
- 3 Test the solution to verify performance, reliability, and compatibility with your application.

CONTACT

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