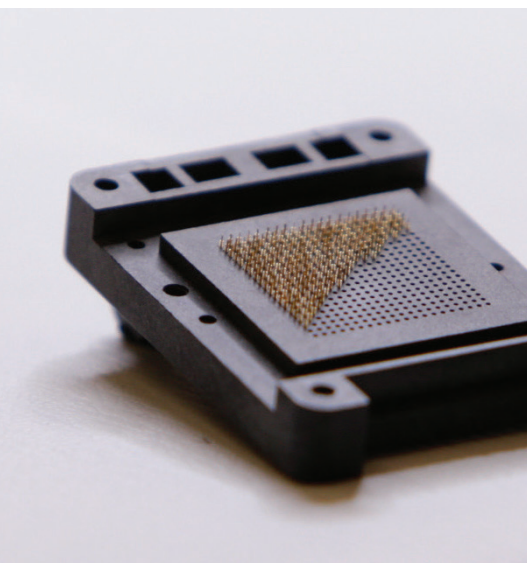
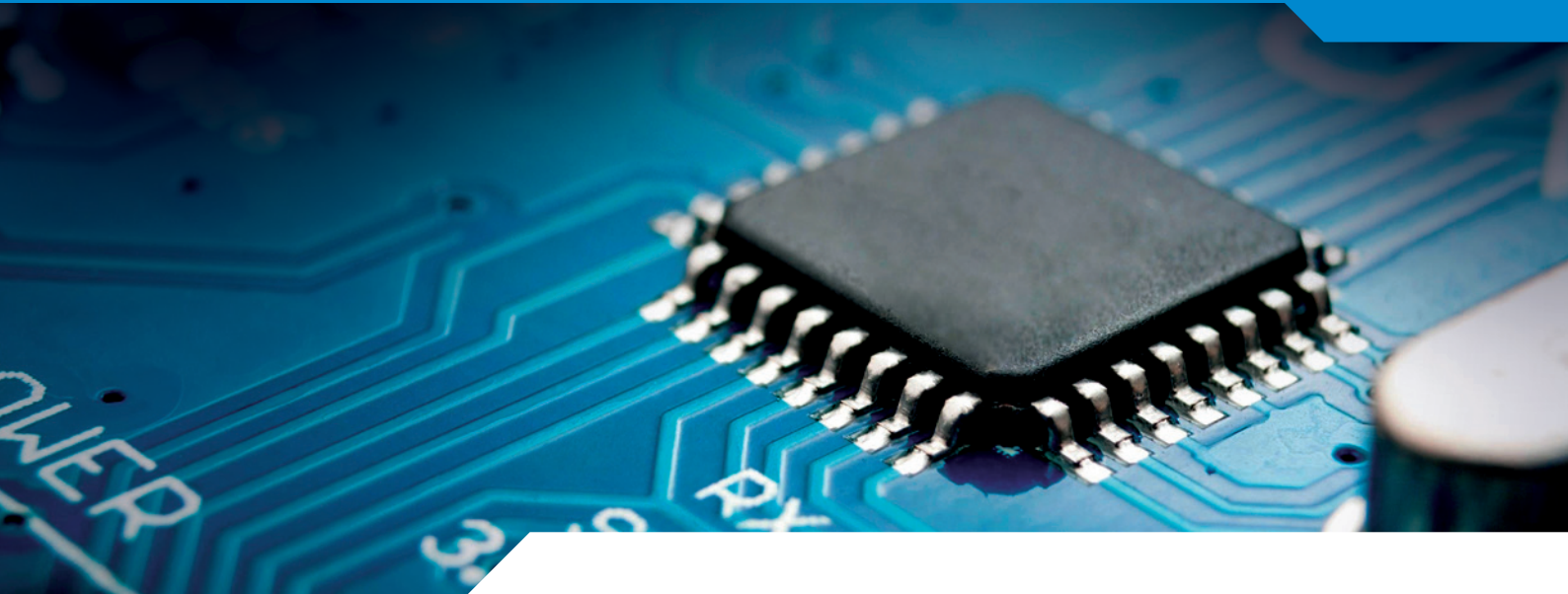


We are pleased to

Welcome >

Plastronics

to the business family of
Smiths Interconnect



**The acquisition of
Plastronics strengthens
Smiths Interconnect's
product portfolio**

A Leading Supplier

Plastronics is a leading supplier of burn-in test sockets and patented spring probe contacts for the semiconductor test market, as well as custom interface connectors for industrial applications.

The company was founded in 1969 and is highly regarded for its track record of innovative burn-in test solutions. It is headquartered in Irving, Texas (US) and has in-house engineering, manufacturing, tooling, moulding and pin assembly capability.

The acquisition of Plastronics strengthens Smiths Interconnect's product portfolio, supporting the company's ambition to be the partner of choice for semiconductor test customers who are looking for high performance and a single point of supply across multiple applications.

Each of these components comes from a fully automated, high-volume manufacturing process.

The H-Pin design flexibility and proven manufacturing process result in an electrical contact with superior performance, creating affordable solutions for new electro-mechanical interface designs with short lead times.

- The stamping process provides reliable and repeatable flat surface profiles, which have proven stable low contact resistance, unmatched current carrying capacity and exceptional signal integrity per probe
- The stainless-steel spring provides mechanical cycle life, shock and vibration endurance and operating temperature well above 220°C

The implementation of fully automated manufacturing process is key to reducing costs without compromising design or performance. At the same time, it provides the peace of mind of quality and reliability that can only come from fully automated production and in-line optical quality inspection.

Beryllium Copper Stampings



Stainless Steel Wound Spring



Beryllium Copper Stampings



The H-Pin



Highest Quality

At the heart of Plastronics' technology is the H-Pin contact, providing the mechanical and electrical benefits of a traditional barreled spring probe with the cost savings and process control of a fully automated stamping and assembly manufacturing, thus reducing the cost of test.

The H-Pin is unique in that it can go from raw material to insertion into the plastic insulator in a fully automated environment without any human intervention. This process ensures the highest product quality, with a productivity that cannot be achieved with traditional spring probe manufacturing methods.

The H-Pin is a stamped spring probe pin made from the assembly of three components: two beryllium copper stampings and one stainless steel wound spring.

QFN Sockets

With the largest QFN catalog in the world, Plastronics has taken a leadership role in designing and developing socket solutions for the newest QFN packages. These sockets offer a modular design in a small outline to meet the many application requirements.

The Open Top QFN socket allows for convenient package loading and unloading with options for many of the same pin count designs as their clamshell counterparts.

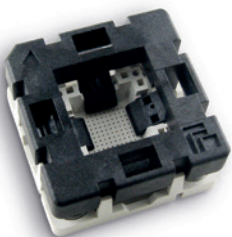
The H-Pin QFN sockets provide maximum performance with the most cost-effective, high-performance pin on the market.



LGA Sockets

The LGA sockets use the H-Pin to provide a high-performance test socket that reduces the cost of test for all burn-in operations.

These LGA sockets meet the power, temperature and signal performance needs of the higher density, larger package outline, and sometimes mix-pitch LGA designs. The LGA platform serves package sizes from 2.0mm X 2.0mm to the largest packages being produced today.



BGA Sockets

The BGA socket platform takes advantage of the H-Pin to provide a pure vertical contact system that meets all BGA design challenges at an enabling cost.

BGA sockets with the H-Pin provide a high-performance socket that reduces the cost of test for burn-in operations. The BGA platform serves package sizes from 6.0mm X 6.0mm to the industry's largest packages produced today.



Custom Sockets

Plastronics' socket designs range from off-the-shelf sockets ready for immediate delivery, semi-custom sockets that utilise universal components and custom test sockets and electro-mechanical fixtures.

Plastronics' in-house tool and mould facility, machine shop and the versatility of the H-Pin® with universal socket components give customers quick and reliable sockets for a wide array of applications, including:

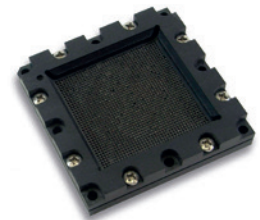
- Mixed Pitch
- Power Integrity
- Large package sizes
- High temperature
- Fully configurable for any application



Inserts

For customers who want the convenience of an integrated pin-in-plastic insert solution, Plastronics offers three contactor insert product lines. The pin insert is a fully assembled and tested interface that is either machined or moulded plastic plate assembly, ready for stand-alone use or for insertion into universal socket housing.

Designed to specification for drop-in use, the inserts program is ideal for customers already taking advantage of Plastronics' universal clamping set, for those using their own clamping mechanism, or for board-to-board interface applications.



Connectors

Plastronics custom connectors are ideal for customers who realise the value of the H-Pin® and want the convenience of in-house design and manufacturing for small numbers of custom connector solutions.

The combination of the H-Pin stamped spring probe with in-house machine shop provides reliable solutions for small-run production and pilot production support.

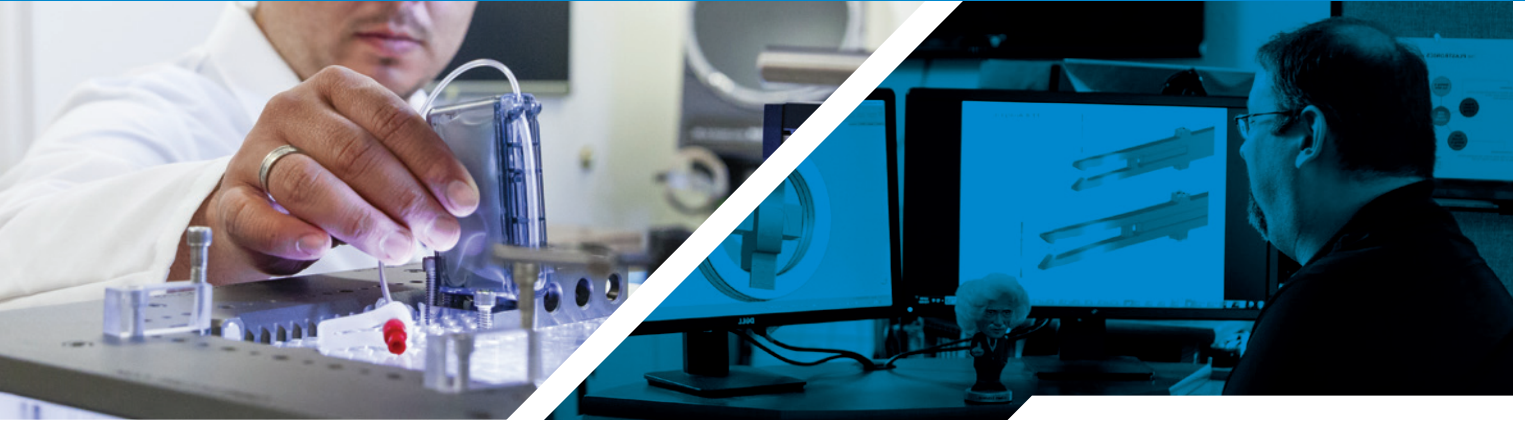
H-Pin custom connectors are best suited for a wide array of vertical connectors, fixtures and other custom applications.



smithsinterconnect.com



Capabilities



Plastronics brings to Smiths Interconnect:

Engineering Expertise & Experience

Specialised engineering expertise delivering solutions for real-world applications, focused on burn-in test sockets to ensure out of the box performance and quality.

In-house Capabilities

Vertically integrated manufacturing process with automated quality control, tooling, stamping, machining, and pin assembly thereby reducing the cost of testing for each supplied solution.

Cost Effective, Fast Delivery

Semi-custom delivery methodology, combined with a range of manufacturing practices, enables ultra-fast delivery and unparalleled value for our customers.

Flexibility & Global Reach

The global footprint offer unprecedented flexibility and responsiveness for semiconductor companies, circuit board manufacturers and burn-in service providers across the world.

Testing Reliability

More than 40 years of success meeting customers' performance, delivery and budget requirements.

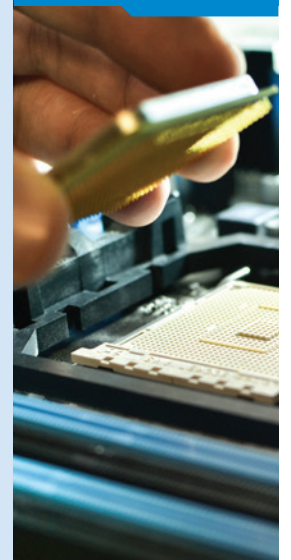
Innovation & Future Focus

With more than 50 patents and industry-driven new product development, we support current and future customer needs and ensure solutions are ready to meet market challenges.

more than

40 >

years of success



Location

Plastronics Socket Company

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Irving, Texas 75038

Telephone: (972) 258-2580

more > smithsinterconnect.com | [in](#) [t](#) [v](#)