



AEROSPACE



MEDICAL



ENERGY



INDUSTRIAL



AUTOMOTIVE

**WHY
HITEC**

WHY HITEC?

HITEC Sensors have specialized in strain gauge installation services and the design and manufacture of strain gauge-based force sensors, load cells, torque sensors, instruments, and complete test systems for over 50 years.

- **What do we do?** HITEC provides innovative, customized sensor solutions to our customers' most demanding technical challenges.
- **How have we got here?** Since 1971, HITEC has amassed a wealth of strain gauge technology expertise and sensor technical applications experience, from component testing on the space shuttle to miniature load cells in infusion pumps. As part of the Humanetics Group, HITEC has an even broader global reach.
- **Where are we based?** HITEC conducts field installation work all around the world. The corporate HQ is in Chelmsford, MA, USA, and there is also a facility in Kadawatha, Sri Lanka.
- **How can you work with us?** Reach out to our local Manufacturer's Representatives or use the contact information on the back of this handout to enquire about your application. hitec.humaneticsgroup.com/about-us/contact-us-locations

STRAIN GAUGE INSTALLATION

HITEC provides:

- A half-century of strain gauge technology experience
- State of the art techniques for applications on a wide variety of surfaces
- In-house or on-site in the field services
- Reliable performance in extreme environments, from cryogenic to 2000°F
- Relationships with the industry's top manufacturers

CUSTOM SENSOR DESIGN

HITEC's custom solutions:

- Customized force sensor designs within a short timeframe
- Performance specs built around your requirements and budget
- Designed and built for ease of integration into your system
- Modifications of standard products to fit your needs

Design considerations:

- | | |
|------------------------------------|--|
| • Sensing element FEA modelling | • Cable assemblies, flexible circuits and connectors |
| • Strain gauge type, size, pattern | • Wireless telemetry |
| • Wire routing | • Housing, packaging and mounting |
| • Temperature compensation | • Environmental protection |
| • Signal conditioning electronics | |
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SENSORS FOR TEST AND MEASUREMENT

Examples of sensor solutions:

- Weld force gauge
- Pinch force sensors
- Multi axis sensors
- Miniature sensors
- Calibration and repair services
- Load cells
- Torque transducers
- Instrumentation
- Load pins
- Steering effort sensors



KEY INDUSTRIES

MEDICAL - From precisely measuring larger forces in equipment such as patient tables and imaging systems to the tiny forces involved in the most delicate medical procedures such as surgical tools and infusion pumps.

AEROSPACE - HITEC designs and manufactures state-of-the-art force, load, and torque sensors for civil and military aviation as well as governmental and private spaceflight programs.

INDUSTRIAL - HITEC has been supporting the industrial market for a half-century with custom sensors and instrumentation services across a broad range of applications, including assembly tools, weighing systems, and automation equipment.

ENERGY - Energy production is a critical driver of the world's economy. HITEC is leading the way with measurement technologies used across the energy segment, from turbomachinery to oil and gas drilling.

AUTOMOTIVE - HITEC has a proud, 50-year legacy of supplying strain gauge-based sensors and specialized vehicle test systems to a diverse customer base within the automotive and transportation industries.

Visit the HITEC website to learn more on our industry specific applications:
hitec.humaneticsgroup.com/industries-solutions/industries

KEY BENEFITS OF WORKING WITH HITEC

- Over **50** years' experience in sensor design and strain gauge installation
- A breadth of **application knowledge** across diverse industry sectors
- **Global** network of manufacturing sites, sales and technical support
- Customer-focused engineering **specialized** to fit your requirements
- Experienced field services team for on-site work **anywhere** in the world
- Certified and **accredited** facilities and processes
- **Ongoing** calibration and repair service available



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