

WHY HITEC?

Custom Strain Gauge Sensing
for Precision Force Measurement

AEROSPACE

MEDICAL

INDUSTRIAL

ENERGY

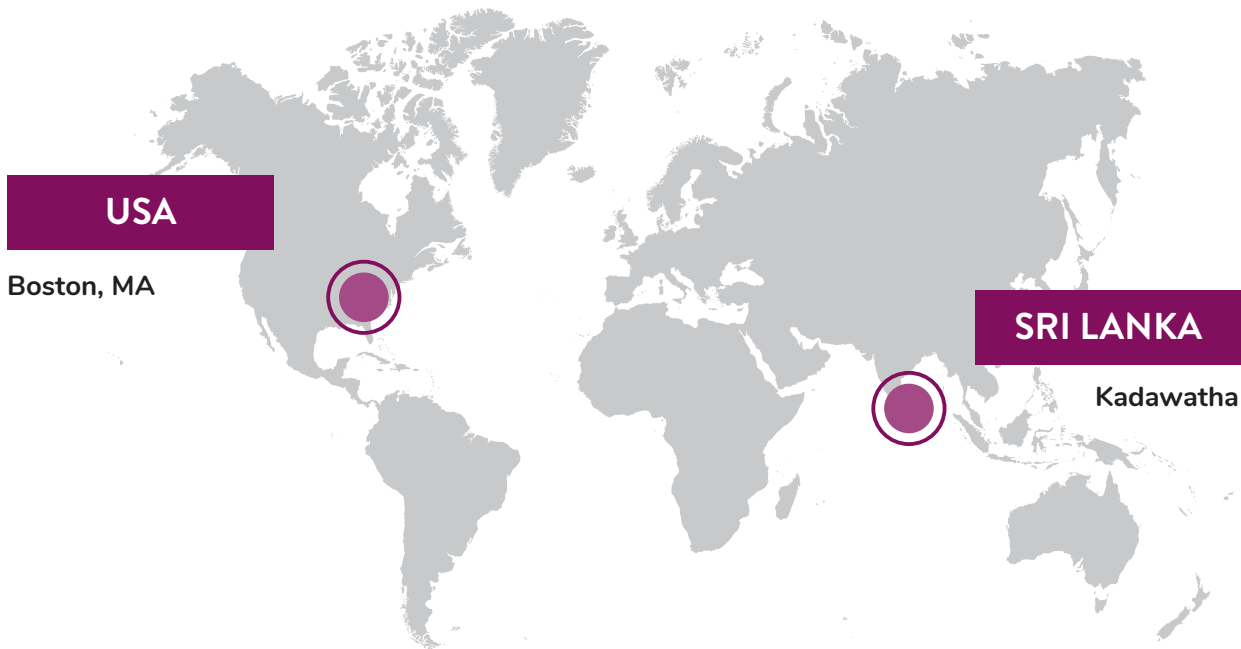
AUTOMOTIVE

WHO WE ARE

From delicate surgical applications to the extremes of deep ocean and space, our strain gauge sensor solutions empower control and performance.

HITEC is a global leader in custom force and torque sensor solutions. We combine deep expertise in strain gauge technology, sensor design, and application engineering to deliver fully engineered measurement solutions tailored to our customers' most demanding environments.

From initial concept through to installation and long-term operation, we work as a true development partner, helping customers transform complex measurement challenges into accurate, reliable, and production-ready solutions.



PART OF THE HUMANETICS GROUP

HITEC Sensors is part of Humanetics Sensors - a group of companies with unique technologies used in developing sensors, precision manufacturing, and fiber optic processing.

1000+
Global
Employees

26
Locations
Worldwide

10
Manufacturing
Facilities

CUSTOM FORCE SENSORS

Custom-engineered force measurement solutions delivering precision, reliability, and performance in the most demanding applications.

HITEC designs and manufactures high-performance custom force and torque sensors engineered to meet the exact requirements of each application. From compact single-axis sensors to complex multi-axis measurement systems, our solutions deliver exceptional accuracy, reliability, and repeatability in even the most demanding environments.

Working in close collaboration with our customers, we develop sensor solutions that are optimized for performance, integration, and cost. From rapid customization to fully bespoke designs, HITEC helps translate complex measurement challenges into reliable, application-ready solutions.



CUSTOM DESIGN

Every solution is tailored to your application. We design sensors to meet specific mechanical, environmental, and performance requirements, ensuring optimal accuracy and integration.



PRECISION MEASUREMENT

Using advanced strain gauge technology and precision engineering, our sensors deliver highly accurate and repeatable force and torque data for critical applications.



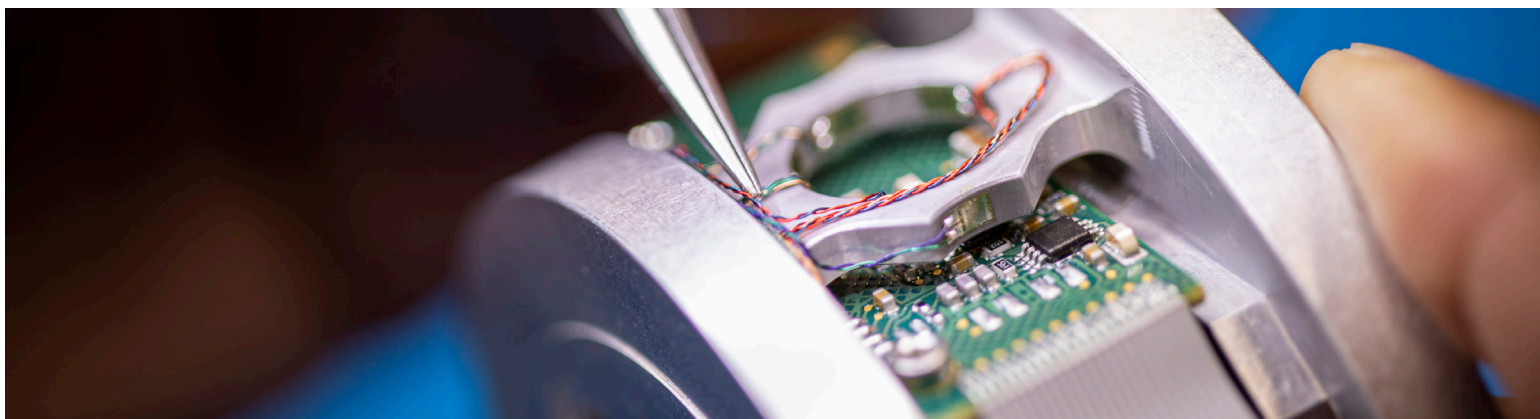
RUGGED PERFORMANCE

Our sensors are built to operate reliably in challenging environments, including high temperatures, vibration, pressure, and corrosive conditions.



BUILT FOR INTEGRATION

Designed with integration in mind, HITEC sensors can be engineered to fit within tight spaces and existing systems without compromising performance.



TEST & MEASUREMENT SENSORS

Comprehensive test and measurement solutions delivering accurate, reliable data for validation, performance, and control.

HITEC provides a comprehensive range of force and torque sensors, instrumentation, and test systems designed for accurate measurement, validation, and performance monitoring across a wide range of applications. From standard products to fully customized solutions, our technologies deliver reliable, repeatable data in both laboratory and real-world environments.

STANDARD SENSOR SOLUTIONS

Our portfolio includes a wide range of proven, high-performance sensors designed for test and measurement applications.

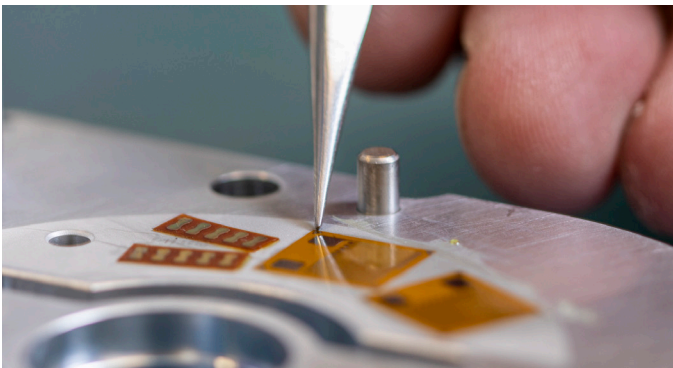
- Welding force gauge
- Pinch force sensors
- Multi-axis sensors
- Miniature sensors
- Load cells
- Torque transducers
- Load Pins
- Instrumentation
- Steering effort sensors



STRAIN GAUGE INSTALLATION

Precision sensor installation and strain gauge expertise delivering accurate, reliable measurement in real-world applications.

HITEC provides expert sensor installation and strain gauge application services, enabling accurate, real-world measurement directly on your components and systems. By applying strain gauge technology directly to your structure, what we call “transducerizing”, we enable precise measurement of static and dynamic forces without the need for external sensors.



STRAIN GAUGE APPLICATION

Our engineers employ state of the art techniques to apply strain gauges to a wide range of surfaces, ensuring optimal placement, protection, and performance.

FLEXIBLE INSTALLATION SERVICES

We offer both in-house and on-site installation to support your project requirements. We work with our customers to support project management and complex logistics challenges.

EXTREME ENVIRONMENT INSTALLATION

Strain measurements in extreme environments can often be a difficult task. We provide specialized instrumentation expertise for static and dynamic measurements in extreme environments that include severe temperatures (from cryogenic to 2200°F), presence of fluids, high or low pressures, and vibrations.



INDUSTRIES WE SERVE

Supporting mission-critical industries with precision measurement solutions, engineering expertise, and reliable performance.



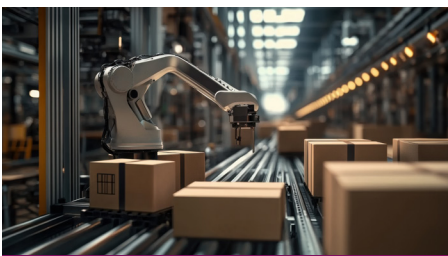
BIOMEDICAL

From precise measurement of forces in patient tables and imaging systems to the detection of extremely small forces in delicate medical surgical instruments and infusion pumps.



AEROSPACE & DEFENSE

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.



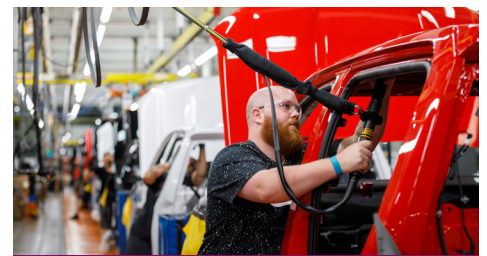
INDUSTRIAL

- Assembly tool monitoring
- Conveyor belt load sensing
- Automation equipment
- Pallet truck steering



ENERGY

- Turbomachinery
- Turbine blade gauging
- Hoisting & lifting systems
- Structural monitoring



AUTOMOTIVE

- Window pinch force sensors
- Steering effort sensors
- Torque sensors
- Brake force sensors

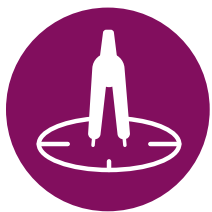
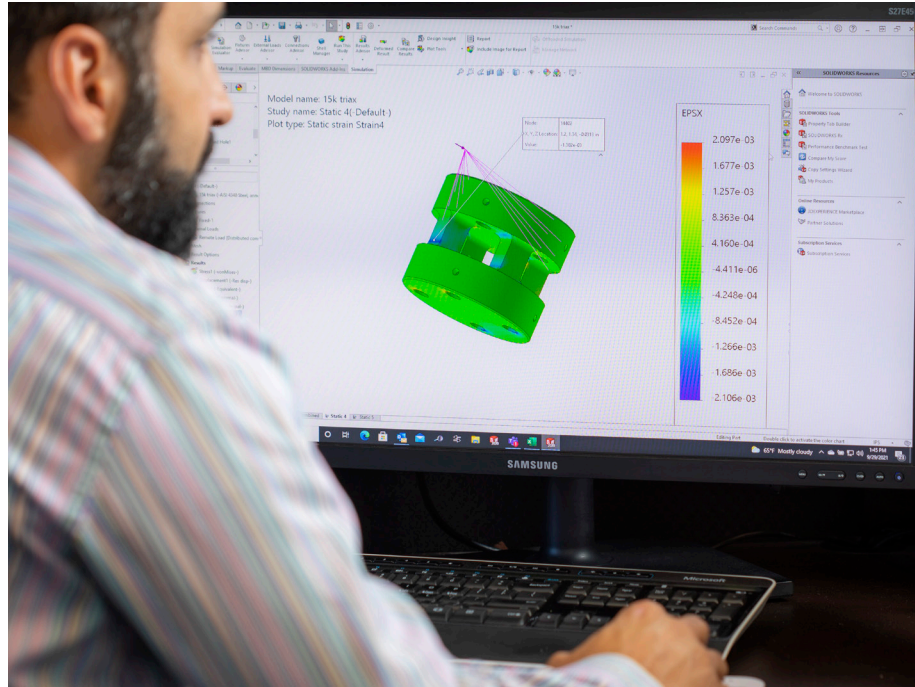
SERVICE & SUPPORT

Keeping your measurement systems performing with reliable service, expert support, and long-term accuracy.

HITEC's support extends beyond product delivery. We provide on-going service, calibration, and technical support to ensure your sensors continue to perform with accuracy and reliability throughout their lifecycle.

With experienced engineers and global coverage, we help minimize downtime, maintain measurement integrity, and keep your operations running efficiently.

Together, these services ensure your sensors and measurement systems continue to operate at peak performance, delivering accurate, reliable data and supporting the long-term success of your applications.



CALIBRATION SERVICES

HITEC offers a full-service calibration laboratory, with our headquarters accredited by A2LA to the ISO 17025 standard, A2LA certificate number 1668.01.



GLOBAL FIELD SERVICE

Global field service support delivered by our engineers, provides expert installation, maintenance, and technical assistance wherever your operations are based.



REPAIR & REFURBISHMENT

Extend the life of your sensors with expert fault diagnosis, repair services, and refurbishment or upgrade options.



TECHNICAL SUPPORT

Access responsive application support, troubleshooting expertise, to keep your systems operating at peak performance.

KEY BENEFITS OF WORKING WITH HITEC

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



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