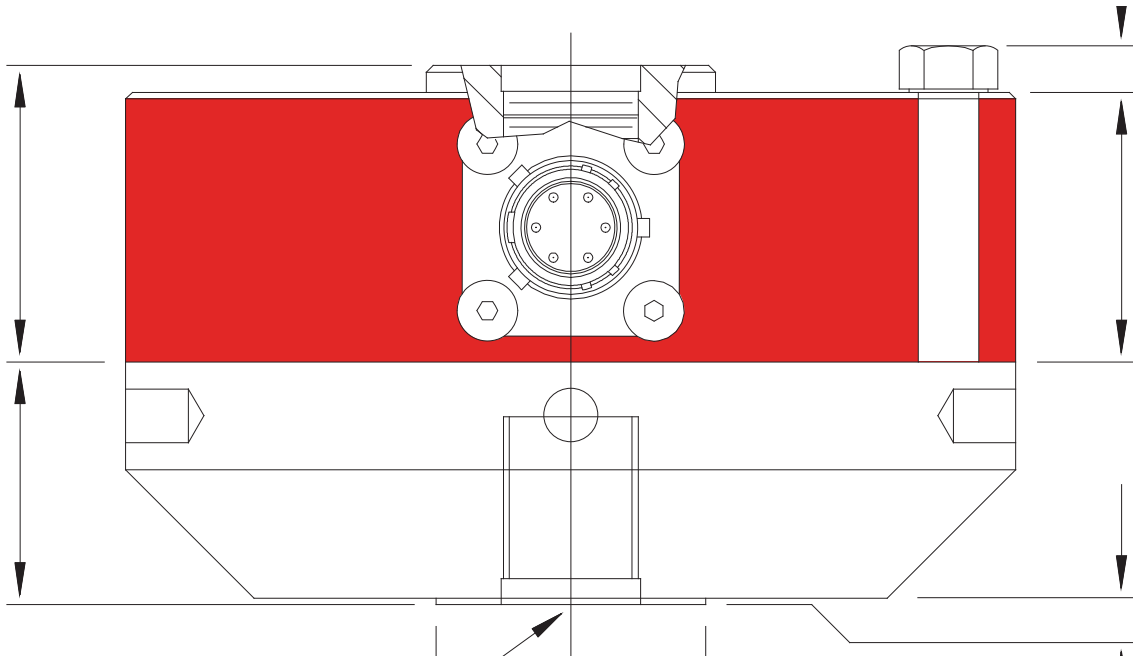


Interface

FORCE MEASUREMENT SOLUTIONS.™

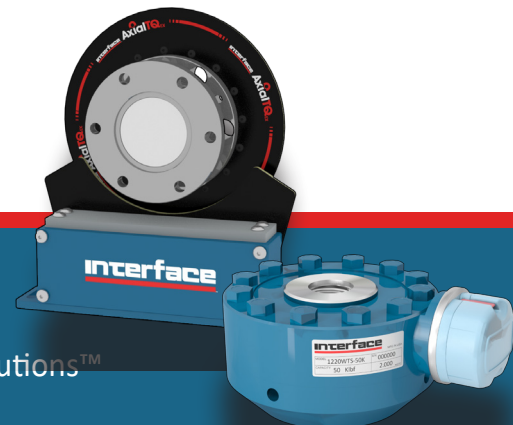


Interface is the world's trusted leader in technology, design, and manufacturing of force measurement solutions.

At Interface, we guarantee the highest quality performance of our proprietary load cells, torque transducers, multi-axis sensors, wireless telemetry devices, instrumentation, and calibration solutions. It's who we are and why Interface sets the standards in precision force measurement.

Since 1968, Interface has been empowering engineers around the world to measure force and performance at the highest degree. Our clients are transformational, innovators and industry-leading in aerospace, automotive and vehicles, medical devices, energy, construction, test and measurement, and industrial manufacturing.

www.interfaceforce.com



interface
FORCE MEASUREMENT SOLUTIONS.

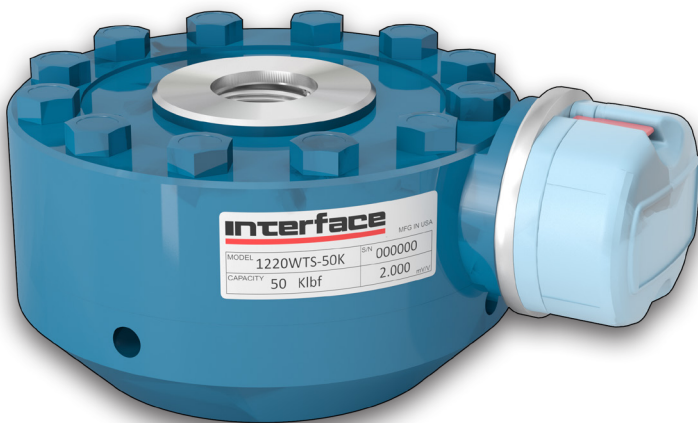
The World Leader in Force Measurement Solutions.™

We are the leaders in force measurement solutions and we have the products that prove it.

We **build, customize, and service** force measurement devices that help our global clients achieve their performance goals, with accuracy and precision.

For innovators building rockets to autonomous vehicles, we manufacture devices that help test critical components for all applications from thrust to braking. The builders of skyscrapers and explorers of energy depend on us to provide the devices and solutions that help them rise to the top and explore the depths below. Our solutions are minuscule for ground-breaking medical devices, as well as large enough to measure millions of pounds of force. We are a trusted force measurement partner across industries.

What we build, we can customize and whether we build it or not, we can always provide service for it. Our vast line of standard products are available now. Our standard products can be added to our specialized advanced inventory service or QuickShip48™ ordering programs for expedited delivery.



HOW CAN WE HELP?

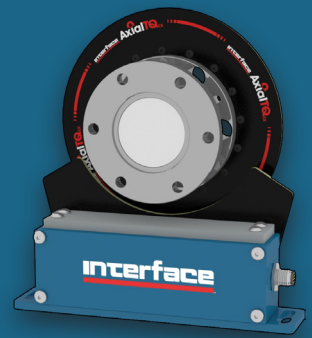
Our expertly-trained Application Engineers and global representatives are available to help you get the exact products and services you need. You can request a quote online or work with our experienced design team to customize the exact force measurement solutions to meet your precise requirements. For sales, service, or support go online at www.interfaceforce.com or call 480-948-5555.



Load Cells



Mini Load Cells



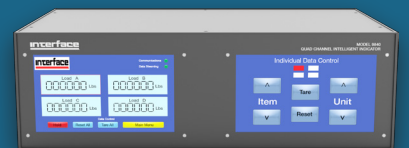
Torque Transducers



Multi-Axis Sensors



Load Pins, Tension Links, & Shackles



Instrumentation

Our full-service machine shop operates with tenured, quality-driven experts ready to meet all your mechanical requirements.

INTERFACE SERVICES

We offer comprehensive evaluation and repair services on all load cells, load pins, load buttons, load washers, as well as rotary and reaction torque transducers. We service crane scales, dynamometers, rod end load cells, and tension links. We provide calibration and repair of sensors products, no matter the maker. Our quality repair services include complete calibration with reliable, fast turnaround.



Calibration

Calibration is important for continued performance, safety, and compliance. Interface recommends calibration service every 12 months. We provide all-inclusive services for tension, compression, system calibrations, ISO 376, and ASTM E74. We offer NIST Certified Gold and Platinum Standard reference load cells testing and calibration services for Interface and all other manufacturer's load cells. We also provide fully custom calibration services and warranty service plans for calibration.

Interface is A2LA and ISO 17025 accredited with more 50 years' calibration experience, performing an average of 100,000 calibrations annually. Using Interface Gold Standard® Calibration Software for data collection and analysis, every customer has a permanent archive of test data.

Repair Services

Interface repairs damaged or suspect load cells by our highly-trained, experienced technicians. Each load cell is fully inspected and tested in order to diagnose the problem. Following our evaluation, we provide a list of issues and our most cost-effective recommendations.

Interface manufactures thousands of standard force measurement products every year.

All our standard products are designed by engineering experts. They are built and rigorously tested by our tenured team of force measurement specialists.

For more than 50 years, we have identified the most common requests for force measurement solutions and made them available through our immense catalog of devices and systems. These are available to order through our specialized Account Engineers and global distributors.

INTERFACE STANDARD PRODUCTS

- **Interface Load Cells:** We manufacture more than 60 different types of load cells, in several shapes and sizes, with capacities ranging from 1 lbf (500 gf) to 2 million lbf (9,000 kN). Our team builds multiple load cell options, including specialized pancake load cell and donut load cell models, including our LowProfile™ and thru-hole load cells.
- **Interface Mini Load Cells:** Our minis provide accurate measurements like our full-size load cells with proprietary alloy strain gages. Capacities are available as low as 0.11 lbf (0.5 N) and as high as 100 kN.
- **Load Buttons:** We provide compression and precision-based load buttons in assorted sizes and capacities, including our proprietary miniature and subminiature load cells. Our Load Buttons are unique inline and LowProfile designs with strong resistance and durability for efficient accuracy measurement requirements for small spaces and high-frequency utilization.
- **AxialTQ™:** The next generation in torque measurement devices, AxialTQ redefines the category in terms of function, accuracy, and customizable compatibility. The rotor sensing element and electronics to meet are offered in 8 torque capacities in 5 DIN sizes. There are 3 accuracy classes: EX, LX, and HX. The flexible capability of stator and output module mounting offers an infinite number of configurations.
- **Wireless Telemetry System (WTS):** Interface's WTS includes sensor transmitters, receivers, displays, accessories and free monitoring software, which operates on a standard 2.4 GHz signal making it FCC compliant. WTS works with torque transducers, load pins, load cells, multi-axis sensors, and other inputs. It wirelessly communicates with various receivers including displays, handheld readers, analog outputs, relay modules and computer interfaces for easy configuration of the application.
- **Torque Transducers:** We produce more than 50 types of reaction torque transducers and rotary torque transducers. Interface torque transducers are precision-machined and use our proprietary torque sensors for the most accurate data possible.
- **Multi-Axis Sensors:** Our 3-axis, 6-axis, and axial torsion load cells to maximize torque measurement applications. The multi-axis sensors measure forces simultaneously in three mutually perpendicular axes and the 6-axis load cells measure torque around those axes.
- **Load Pins, Tension Links and Shackles:** Interface load pins and tension links enable accurate force measurement readings, with load pins ranging in capacities 220 lbf to 3 million lbf. Our tension links are designed for lifting and weighing applications in harsh environments with capacities from 11K lbf to 220.4K lbf. Our standard shackles in varied sizes provide a highly accurate measurement of lightweight products.
- **Calibration Systems:** Interface Load Cell Calibration Systems are available for a wide range of rigid and portable force measurement applications, including custom designs. Our GS-SYS Gold Standard® Calibration System consists of a four-post rigid load frame, proprietary load feedback loop, signal conditioning hardware, and fully-automated calibration software for the highest accuracy and lowest uncertainty available. Portable versions of the GS-SYS system are also available for calibrating load cells and test equipment.
- **Instrumentation:** We provide a robust selection of instrumentation products including signal conditioners, output modules, high-speed data loggers, portable load cell indicators, weight indicators, and junction boxes. We also offer full data acquisition and wireless telemetry systems and multi-channel bridge

If we build it, we can customize it!

INTERFACE CUSTOM SOLUTIONS

Interface's experienced team are renowned specialists in force measurement manufacturing and technology. Utilizing our expert engineering, design, and manufacturing teams, we are capable of building unique and completely custom force and torque applications for our valued customers.

There are no limits. We are capable of building complete solutions designed with FEA (finite element analysis), as well as proprietary Interface strain gages. Custom solutions experts work closely with our customers to leverage our state-of-the-art machine shop and world-class assembly and calibration resources, who are certified and follow industry leading ISO quality standards to create precision-based measurement solutions.

We provide custom solutions for:

- Load Cells
- Torque Transducers
- Wireless Telemetry Solutions
- Multi-Axis Sensors
- Strain Gages
- Test Stands
- Instruments
- Accessories
- Testing Software

We create custom solutions of all types, whether special transducers or customized sensor, instrumentation and software systems. We are your partner. It all begins with close collaboration to ensure the designs meet your exact specifications and use case requirements. Then we build, test and deliver your unique force measurement solution.



Interface Accessories

- Shielded cables
- Mating connectors
- Calibration adapters
- Resistors
- Plates
- Clevises
- Jam nuts
- Thread adapters
- Mating connectors
- Rod end bearings

Interface force measurement load cell and torque transducer accessories are available in many design configurations for project designs requiring the highest performance.

To learn more
about the Interface
products or force
measurement solu-
tions call
480-948-5555.

Interface is the world's trusted leader in technology, design and manufacturing of force measurement solutions.

Our clients include a "who's who" of the aerospace, automotive and vehicle, medical device, energy, industrial manufacturing, test and measurement industries.

Interface engineers around the world are empowered to create high-level tools and solutions that deliver consistent, high quality performance. These products include load cells, torque transducers, multi-axis sensors, wireless telemetry, instrumentation and calibration equipment.

Interface, Inc., was founded in 1968 and is a US-based, woman-owned technology manufacturing company headquartered in Scottsdale, Arizona.



7418 East Helm Drive, Scottsdale, AZ 85260 ▪ 480.948.5555 ▪ interfaceforce.com

Aufgrund laufender Weiterentwicklungen sind Änderungen der Spezifikationen vorbehalten. Alle Angaben vorbehaltlich Satz- und Druckfehler.

nbn Austria GmbH

Riesstraße 146, 8010 Graz

Tel. +43 316 40 28 05 | Fax +43 316 40 25 06

nbn@nbn.at | www.nbn.at