



At Instron, we understand that accurate force measurement is the foundation of reliable test results. Force calibration ensures your testing system performs to the highest standards, maintaining compliance with ISO 7500-1 and ASTM E4, reducing risk, and protecting your reputation.

### FORCE CALIBRATION SERVICES

Instron's accredited force calibration covers a wider range of forces than other providers, enabling the usage of test systems to both lower and higher forces without the need for changing transducers or purchasing new ones.

#### STANDARD FORCE CALIBRATION

If meeting the standard is your primary concern, our standard force calibration service conforms to ASTM E4 and ISO 7500-1:

- Typical accuracies of  $\pm 1.0\%$  down to 1% of the load cell's rated capacity for ASTM standards and down to 2% capacity for ISO standards.
- Fully compliant with ASTM E4 and ISO 7500-1 requirements.

#### ENHANCED OR EXTENDED FORCE CALIBRATION

Our enhanced or extended calibration service expands the operational versatility of your testing system, allowing you to calibrate a broader range with a single transducer:

- Accuracy of  $\pm 0.5\%$  at installation and  $\pm 1.0\%$  at subsequent calibration dates, all the way down to the system's lowest specification limit. For example, with the appropriate transducers and systems, calibration can be provided down to 1/1000th (0.1%) of the load cell's capacity.
- Fully compliant with ASTM E4 and ISO 7500-1 requirements.



## BENEFITS OF INSTRON CALIBRATION

**Factory-Trained Field Service Engineers:** Every calibration is performed by our highly skilled Field Service Engineers using advanced methods and equipment.

**Global Reach:** With over 300 Field Service Engineers globally, our team is strategically located to provide fast on-site response.

**Global Accreditation:** Our calibration services are accredited to ISO/IEC 17025 by NVLAP under lab code 200301-0, ensuring that Instron has proven technical competence and necessary quality systems in place to consistently deliver calibrations which maximize customer confidence.

**Extensive Calibration Range:** Instron maintains North America's largest NIST-traceable commercial deadweight stack, which supports primary calibration up to 130,000 lbf (58,967 kg).

**Manufacturer-Certified Expertise:** As the company that designed and built your testing system, we have unparalleled knowledge to ensure precise calibration and optimal performance.

**Automated Accuracy:** All Field Service Engineers use proprietary Calpro CR software, which automates and optimizes calibration processes, eliminating errors from manual data transfer and significantly reducing calibration turnaround times.

**Minimized Downtime:** We prioritize efficiency, providing fast and reliable service to keep your operations running smoothly.

**Comprehensive Support:** From calibration and preventative maintenance to technical assistance, Instron offers complete lifecycle care for your testing systems.

## WHAT SYSTEMS CAN INSTRON CALIBRATE?

Our calibration expertise extends to a broad range of testing systems, including MTS®, Zwick, Tinius Olsen, TA Instruments, Shimadzu®, United, Bose, Gardabani, Lloyd Instruments, Mecmesin and more.

[Learn More](#)

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