



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, Galdabini, Lloyd Instruments, Mecmesin and more.

[LEARN MORE](#)

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