

Calibration & Traceability Evidence Workbook

Magatom Dynamics Co., Ltd. / reviewed 2026-10-27

Planning resource only. Not a released product datasheet, approved CAD drawing, measured calibration certificate or conformity statement.

Select the acceptance scope

ISO 7500-1: Installed static uniaxial testing-machine force systems. A sensor non-linearity target does not establish a machine Class 0.5 or Class 1 result.

ASTM E4: Force calibration and verification of testing machines. Specify acceptance for the installed system rather than treating a sensor data sheet as the verification report.

ISO 376 / ASTM E74: Calibration of reference force-measuring instruments. A static calibration does not validate a dynamic fatigue measurement or certify every fixture.

OIML R60: Metrological requirements and evaluation for load cells. Stainless construction, small zero drift or an IP rating alone does not establish OIML conformity.

ISO/IEC 17025: Competence of testing and calibration laboratories. Accreditation is a laboratory/scope claim. No blanket Magatom accreditation is asserted.

Request the serial-specific record

Unique sensor serial and full assembly identity

Force direction, capacity and tested range

Base, button, cable, amplifier and configuration

Calibration date, laboratory temperature and humidity

Reference standard identity, certificate and traceability chain

Applied force, measured output, zero return and hysteresis

Procedure, uncertainty, coverage factor and limitations

Shunt resistor identity, connection points and measured equivalent output

Use the blank measurement plan

The CSV companion has planning rows for zero, 25, 50, 75 and 100% of nominal force in tension and compression. Measured values are deliberately empty. Use only applicable directions and adapt the plan to the approved procedure; additional cycles/orientations/points may be required.

Blank fields are not test results and the workbook is not a calibration certificate.

Archived record request

Supply exact engraved serial, model, approximate calibration date and required certificate/shunt/drawing records. Unit identity and available archive records are checked before release. No automatic archive match or fixed turnaround is promised.

Standards source records

ISO 7500-1 - <https://www.iso.org/standard/72572.html>

ASTM E4 - <https://store.astm.org/e0004-24.html>

ISO 376 / ASTM E74 - https://tsapps.nist.gov/publication/get_pdf.cfm?pub_id=936320

OIML R60 - https://www.oiml.org/en/files/pdf_r/r060-e21.pdf

ISO/IEC 17025 - <https://www.iso.org/standard/66912.html>

Request the reviewed documents

Request the configuration-specific STEP drawing, released datasheet, dimensions, material/seal/fatigue evidence and calibration scope. Confirm availability with the actual configuration before purchase.

Send the completed brief to inquiry@pancakeloadcells.com, or use <https://pancakeloadcells.com/contact>.