

TENSOR CHECK PROFILE - PC

TENSILE TESTER WORKING IN TRACTION AND COMPRESSION UP TO 20kN

STANDARDS: AFERA 4015; AFERA 5001; AFERA 5004; ASTM F88; ASTM B557; ASTM D412; ASTM D429; ASTM D575; ASTM D624; ASTM D638; ASTM D751; ASTM D790; ASTM D882; ASTM F152; ASTM D1056; ASTM D1414; ASTM D1456; ASTM D1894; ASTM D2412; ASTM D3574; ASTM D3575; ASTM D3577; ASTM D4776; ASTM D4894; ASTM D6746; ATE N_553_59_25; DIN 53_291; DIN_VDE 0472-613; EN I372; EN I399; EN I2228; EN I2431; EN I3618; EN 455-2; EN 681-I; EN I0257-I; EN 608II-I-I; FIAT 50409; FIAT 9.02136/01; GFT 6004; ICEA T-27-58; IEC 608II-I-I; ISO 36; ISO 37; ISO 178; ISO 604; ISO 813; ISO 814; ISO 1421; ISO 1798; ISO 1827; ISO 2411; ISO 34-I; ISO 4587; ISO 5600; ISO 5893; ISO 6133; ISO 6914; ISO 7743; ISO 8033; ISO 8295; ISO 9026; ISO I0319; ISO I1339; ISO I2046; ISO I2236; ISO I5113; ISO 29862; ISO 527-I; ISO 527-2; ISO 527-3; ISO 527-4; ISO 527-5; ISO 3384-I; ISO 3386-I; ISO 3386-2; ISO 6259-3; ISO 6916-I; ISO 6916-2; JIS K_6330-6; NEMA WC_53-2008; PSA D41 I315; PSTC I6; PV 3410; PV 3973; VDA 675-205;

NOTE: COMPLIANCE WITH SOME STANDARDS MAY REQUIRE OPTIONAL ACCESORIES OR SETUPS.



gibitre[®]
INSTRUMENTS

Programmable Tensile Tester with double column structure operating in tension and compression with 20 kN capacity.

The instrument allows tensile, compression, hysteresis, detachment, bending and shear tests on standard specimens or technical articles.

Applicable Devices

- Mechanical extensometer: accuracy 0.01 mm
- Micro extensometer: 0.0001 mm resolution
- Thickness gauge integrated with software for direct acquisition of specimen thickness

- Climatic chamber with cooling by refrigeration unit operating between -40°C and +250°C with internal extensometer
- Wide range of manual and pneumatic clamps.

Software

The instrument is supplied with full licenses of TensorCheck and DataTest software.

- Wide range of preinstalled test procedures in accordance with international standards
- Wizard for preparation of customized test methods
- Data acquisition from the thickness gauge and

- automatic calculation of the sample section
- Direct control of the thermal cycle of the climatic chamber
- Comparison of results with tolerance limits and statistical analysis
- Storage of data and curves in SQL database.

ISO 17025-Accredited calibration (Optional)

Strength: ISO 7500-1
Stroke and Elongation: ISO 9513 and ISO 5893
Velocity: ISO 5893 and ASTM E2658

Structure: 2-column structure for application of forces up to 20 kN

Load Transducers: Mode: traction and compression; Base Scale: up to 20 kN; Accuracy: Class 05 (ISO 7500-1) from 1% of Scale Base ; Resolution: Scale Base/50000; Automatic detection of the cell installed

Crosshead displacement: Reading Resolution: 0.0025 mm; Speed: 0.2 to 1000 mm/min; Stroke: 1244 mm (without grips)

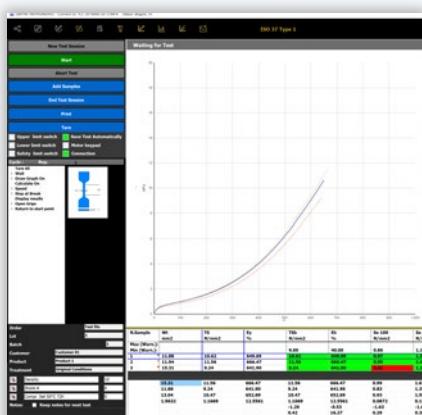
Mechanical differential Extensometer: • Accuracy: ISO 5893 - Class E; • Resolution: 0.01 mm; • Total stroke 900 mm

Micro-Extensometer: • 0.1 Micron resolution; • Distance between terminals: 50mm (other optional); • Stroke: 2mm; • Max specimen thickness 10mm

Thickness meter for direct sample thickness acquisition: Compliant with standards: ISO 23529 and ASTM D3767; Resolution: 0.001mm ;

Temperature (with environmental chamber): between -40°C and +250°C
Cooling for environmental chamber (option): Refrigeration Unit

ISO 17025-Accredited Calibration (optional): Force: ISO 7500-1; Stroke and Elongation: ISO 9513 & ISO 5893; Speed: ISO 5893 & ASTM E2658.



ISO 17025 ACCREDITED CALIBRATION

GIBITRE INSTRUMENTS IS ACCREDITED ACCREDIA
CALIBRATION LABORATORY ACCORDING TO
ISO 17025:2018 STANDARD AND PROVIDES
CALIBRATION SERVICE FOR HARDNESS (SHORE &
IRHD) AND TENSILE (FORCE, ELONGATION, SPEED)
TESTERS



00455



The Gibitre Instruments' metrology laboratory is an accredited Calibration Laboratory ([LAT 00455](#)) since 2005.

The calibration Laboratory complies with the **ISO 17025:2018** standard.

The laboratory is currently accredited for the

calibration of:

Hardness Testers

- IRHD (Micro, Normal, Hard, Low) according to ISO 48-9
- Shore hardness testers A and D according to ISO 48-9 and ISO 868

Tensile Testers

- Force according to ISO 7500-1
- Elongation & Displacement according to ISO 9513 and ISO 5893
- Speed according to ISO 5893 and ASTM E2658

Place of performance of the Calibrations: Gibitre Instruments is accredited for calibrations: - At the Gibitre metrology laboratory; - At the customer's laboratory.

Calibration of Hardness Testers:

IRHD (Micro, Normal, Hard, Low) hardness testers : According to ISO 48-9 & ISO 48-2 Standards

Shore hardness testers A and D: According to ISO 48-9, ISO 48-4 and ISO 868 Standards

Calibration of Tensile Testers (UTM):

Calibration of Force: According to ISO 7500-1;

Calibration of Elongation: According to ISO 9513 and ISO 5893

Calibration of Speed: According to ISO 5893 and ASTM E2658

Note about Calibration at customer site: Calibration of Shore & IRHD Hardness Testers performed at the customer's site does not include dimensional calibration of the indenter and can only be performed for Gibitre brand instruments

