



ACCREDIA
L'ENTE ITALIANO DI ACCREDITAMENTO

LAT N° 182

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Membro degli accordi di Mutuo Riconoscimento EA, IAF e ILAC

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 1372; EN 1939; EN 12228; EN 12431; EN 13618; EN 455-2; EN 681-1; EN 10257-1; EN 60811-1-1; FIAT 50409; FIAT 9.02136/O1; GFT 6004; ICEA T-27-581; IEC 60811_1_1; ISO 36; ISO 37; ISO 178; ISO 604; ISO 813; ISO 814; ISO 1421; ISO 1798; ISO 1827; ISO 2411; ISO 34-1; ISO 4587; ISO 5600; ISO 5893; ISO 6133; ISO 6914; ISO 7743; ISO 8033; ISO 8295; ISO 9026; ISO 10319; ISO 11339; ISO 12046; ISO 12236; ISO 15113; ISO 29862; ISO 527-1; ISO 527-2; ISO 527-3; ISO 527-4; ISO 527-5; ISO 3384-1; ISO 3386-1; ISO 3386-2; ISO 6259-3; ISO 6916-1; ISO 6916-2; JIS K_6330-6; NEMA WC_53-2008; PSA D41 1315; PSTC 16; PV 3410; PV 3973; VDA 675-205;

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



Tensor Check is a fully programmable tensile-testing system with double screw structure for testing in traction and compression up to 20 kN. The instrument permits to perform traction, compression, hysteresis, peeling, flexural and shear tests.

Applicable Devices

- Mechanical extensometer: 0.01 mm accuracy
- Micro extensometer: 0.0001 mm resolution
- Thickness meter integrated with the software for direct sample thickness acquisition
- Environmental Chamber with Cooling Refrigerator

(-40 to 250°C) and internal extensometer
• Wide range of pneumatic and manual grips for Traction, Compression, Peeling, Friction, Bending, O-ring traction, Adhesion and more

Software

The instrument is supplied with full license of TensorCheck_9 and full license of Datagest software.
• Wide range of pre-installed test procedures in compliance with international standards
• Step-by-step wizard procedure for the preparation of fully customized test methods

- Data acquisition from thickness meter and automatic calculation of sample cross-section
- Direct control of the thermal cycle of the environmental chamber
- Comparison of results with tolerance limits and statistic analysis
- Storage of data and curves in Gibitre SQL database.

Official Calibration (optional)

Force: according to ISO 7500-1
Stroke & Elongation: acc. to ISO 9513 & ISO 5893
Speed: according to ISO 5893 & 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; • Distance between terminals can be set with calibrated spacers (10, 20, 25, 50 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: 0.001 mm ;

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.

