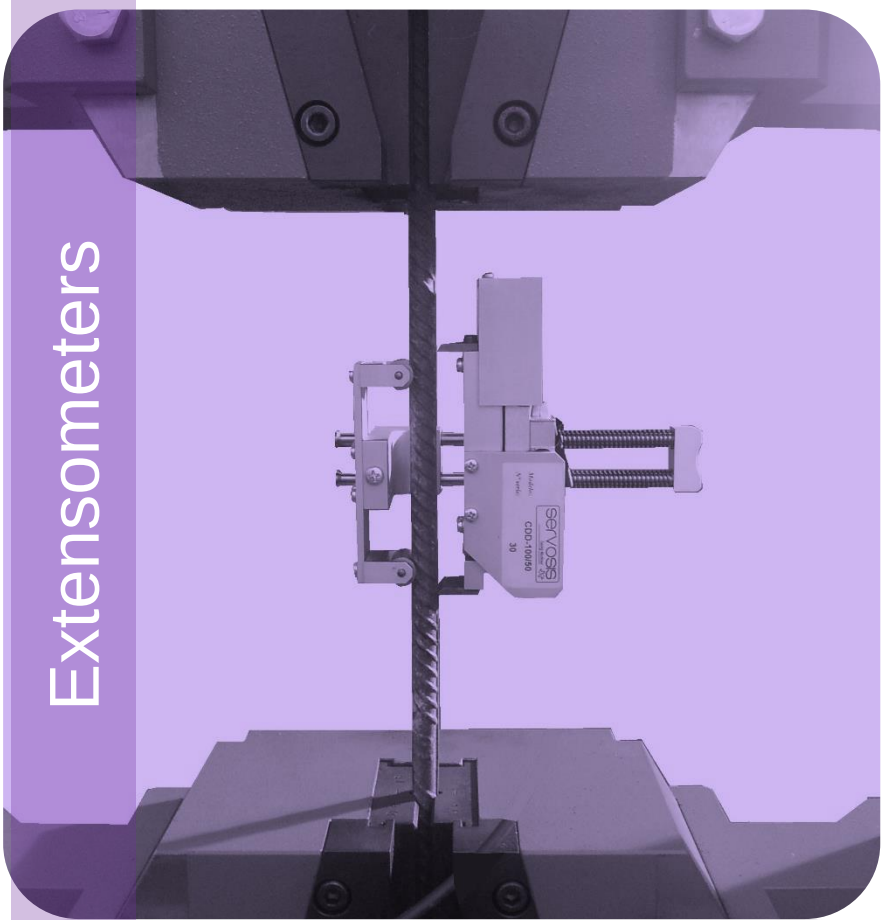
servosis

Testing Machines

Extensometers



- Specific software.
- Products under Standard specifications.
- Custom-made designs.

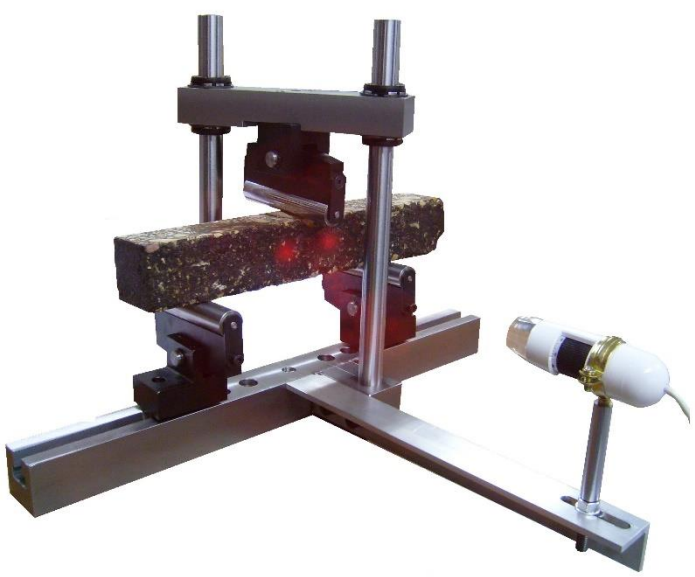
www.servosis.com

Experience
Servosis has a vast experience in the testing world for pieces and materials. More than three decades working support us as a benchmark in the sector.

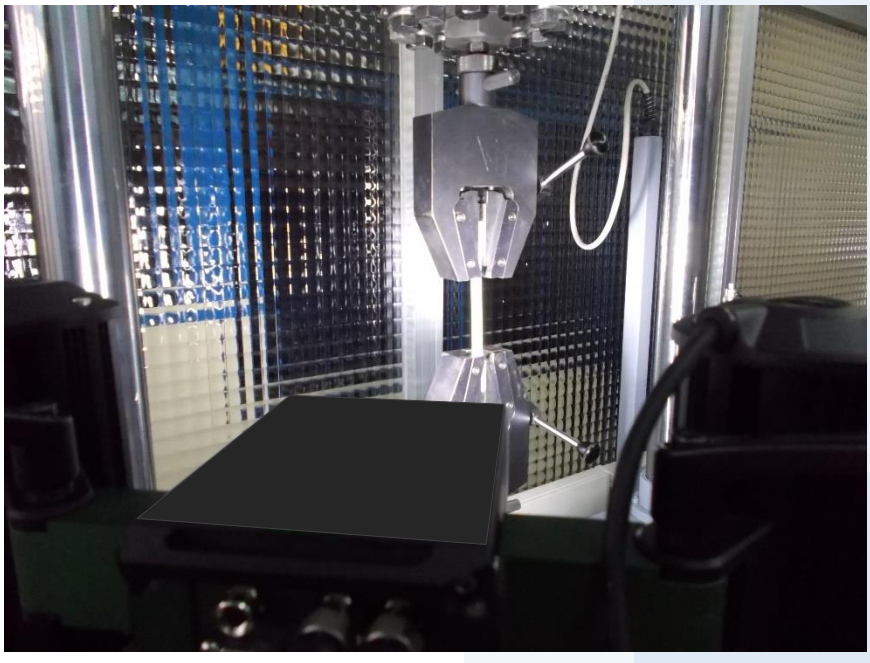
Our range of products include all fields: aeronautic, automotive, construction, lumber, composites, railway…

Innovation
We are in contact with the main manufacturers and research institutes of the sector, in order to be able to offer updated products, adapted to the most recent regulations of the sector.

Custom-made
Our competitive advantage is our ability to offer custom solutions, according to the specific needs of each of our customers.



ACCESSORIES: EXTENSOMETERS



Servosis has a wide range of extensometers for a direct strain measurement in a stressed specimen under test.

We design and manufacture specific extensometers for tensile and compression tests, axial and diametral measurements…

We offer a wide range of models:

- ❑ Digital or analog reading.
- ❑ Manual or pneumatic auto-clampling system.
- ❑ Fracture characteristics.
- ❑ Laser extensometers.

In addition to incorporating this equipment into our test machines, we can offer independent equipment with self-contained measurement analog signal outputs, to be used with any type of data acquisition system.

ACCESSORIES: EXTENSOMETERS

Model CDD

Axial extensometer for tensile tests through specimen failure.

- ❑ Gauge length 100-200 mm (can be built in other sizes).
- ❑ Maximum strain 50 -100 mm (can be built in other sizes).
- ❑ Manual or automatic clamp.
- ❑ For round or flat specimen.
- ❑ Operating principle: digital encoder.

Model CDA

Axial extensometer for tensile tests through failure.

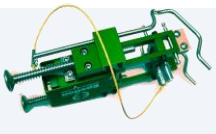
- ❑ Gauge length100,-200 -500 mm (can be built in other sizes),
- ❑ Maximum strain 50 -100 mm (can be built in other sizes).
- ❑ Automatic clamp from PC.
- ❑ For round or flat specimen.
- ❑ Operating principle: digital encoder.

Epsilon extensometers

For several purposes.

Model 3560.- Biaxial extensometer:

Provides simultaneous lateral (transverse) and axial strain measurement.



Model 3542.- Axial extensometer

Gauge length 10-80 mm.

Operating principle: wheatstone bridge.

Model 3541 – Fracture Mechanics

Model CDR

Extensometer for yield strength and young modulus

- ❑ Gauge length 50-100 mm.
- ❑ Max. Strain 2,5 mm.
- ❑ Possibility of double mounting.
- ❑Manual clamp.
- ❑ For round or flat specimen.
- ❑ Operating principle: wheatstone bridge.

Model CDP

Axial extensometer for rubber and plastic specimens (high elongations).

- ❑ Variable gauge length by the user.
- ❑ Max. Strain 600% of 100 mm gauge length.
- ❑ For round or flat specimen.
- ❑ Operating principle: digital encoder.

Model CDL

Diametral extensometer

- ❑ Manual clamp.
- ❑ Nominal stroke: 3 to 10 mm.
- ❑ Resolution: 0,001 mm.
- ❑ Linearity: 1 %,
- ❑ Specimen width: 10-25 mm. (it can be modified upon request)
- ❑ Operating principle: LVDT transducer.

ACCESSORIES: EXTENSOMETERS

Serie CDO. Video extensometer

Model CDO / 1 / 50

Optical extensometer for general purpose

- ❑ Non-contact measurement.
- ❑ Includes a highly accurate camera.
- ❑ For all kinds of materials.
- ❑ Accuracy: 0,01mm to 0,002 mm.
- ❑ Local strain measurements (fracture mechanics...)

Laser extensometer

Laser extensometer

- ❑ Non-contact measurement.
- ❑ RS232 communication.
- ❑ Several models, please consult.

ACCESSORIES: EXTENSOMETERS

STRAIN GAGES

Measuring systems for the direct use of strain gages on specimens.

- ❑ Operating principle: wheatstone bridge unbalance.
- ❑ Different types of gauges.
- ❑ Amplifier with external adjustment of zero value and gain adjustment.
- ❑ Output analog signals ±10 VCC through BNC plugs.
- ❑ Direct communication with PCD2K control system.
- ❑ Optional specific software for calculation with strain gages.
- ❑ It can be mounted as autonomous fixture.

Strain measurement on concrete specimens.

Modulus calculation on concrete specimens under Standard.

- ❑ Axial and diametral strain measurement under load.
- ❑ 4 LVDT transducers.
- ❑ Output analog signals ±10 VCC through BNC plugs.
- ❑ Specific software.
- ❑ Direct communication with PCD2K control system.

Extensometers for rubber, elastomers, composites, frames… Servosis designs and manufactures custom-made extensometer equipment for any need.

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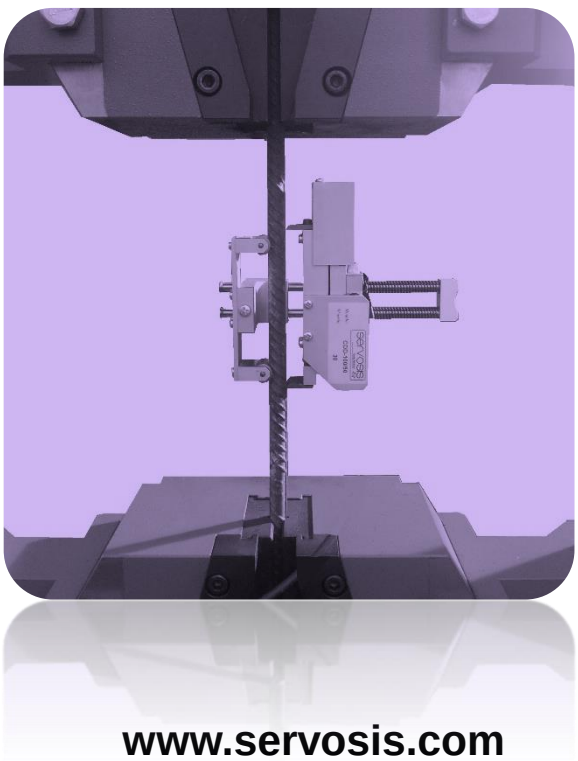
Testing Machines



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