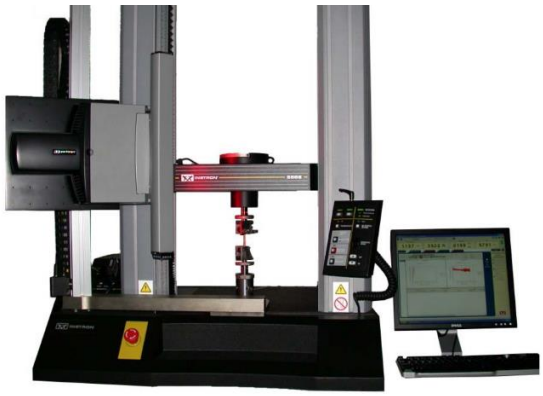
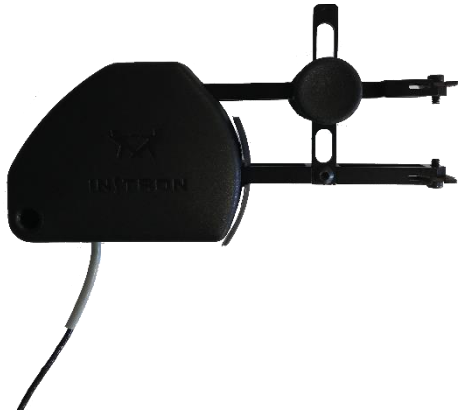
Tensite testing machine
(Modell Instron 5566)

IMA-TechSheet #102120 V2

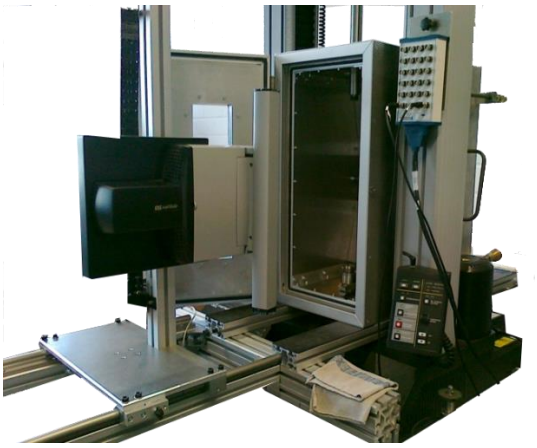
University of Stuttgart
Institute of Machine Components



Tensite testing machine with Video-Extensometer



Attachment-Extensometer



Temperature chamber

Description:

- Modell Instron 5566
- Load frame consisting of two columns and motor-driven traverse
- Interchangeable load cells
- Strain measurement contacting via attachment extensometer or non-contacting via Advanced Video Extensometer (AVE)
- Controlled temperature chamber

Technical Data:

Force measuring range:	Gauge Nr. 1: ±100 N Gauge Nr. 2: ±500 N Gauge Nr. 3:±10.000 N
Force accuracy:	± 0.4% of max. measurable force
Traverse speed:	0,002 … 500 mm/min
Accuracy of traverse position:	± 0,02 mm
Strain measurement with AVE:	in longitudinal and transverse direction
Measuring range of Attachment-Extensometer:	-2,5 … +25 mm
Measuring temperature:	10 °C to 150 °C

Available Test Methods

- Characterization of material behaviour of elastomers and thermoplastics over a wide temperature range.
- Different types of stress:
  Tension compression, bending and shear
- Acquisition of time dependence (relaxation and creep)