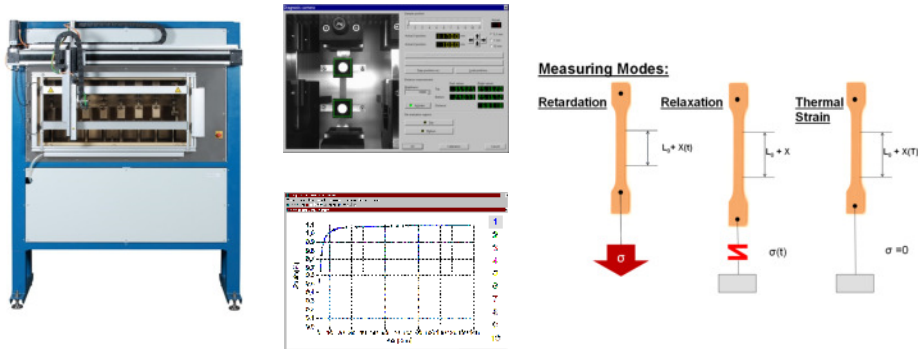




40-300-ff Creep Tester (electro drive)

Standards

DIN EN ISO 899-1/ -2



Application

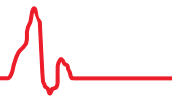
Automated creep and relaxation test with loading up to 20 kN.

Features

The Coesfeld Creep Tester (electro drive) offers flexibility and measuring precision. Up to 10 measuring stations each controlled via electro-mechanical drive with high power density and high stepping accuracy can be equipped with exchangeable clamping systems for tension, bending and compression tests. The stable steel frame provides high stiffness, precision and durability. Integrated force and path sensors assure precise machine control and measuring data collection. Tempering or environmental test chambers and intelligent moving or fixed optical strain measurement systems with day light filter are main accessories in the list of options. The WIN-Creep software with user definable control sequences completes the system for fully automated creep and relaxation tests.

Specifications

Measuring stations	up to 10 (sequent extension of stations possible)
Loading FN	up to 20 kN
Force Sensor	Exchangeable force package (1 kN, 2.5 kN, 5 kN, 10 kN, 20 kN, ...)
Force measuring accuracy	0.04 % FN
Drives/ Sensor	Electro-mechanical with integrated incremental sensor
Resolution path sensor	0.25 µm
Movement range	up to 200 mm
Movement accuracy	0.025 µm
Movement speed	up to 120 mm/min
Camera	up to 16 Mpx
Optical Lenses	Precise Optical Lenses (optional telecentric) with day light filter
Light	Infrared Light
Resolution optical strain	up to 0.5 µm
Test Chamber	2.000 W heating power Heat exchanger with valve controlled closed loop cooling circuit
Temperature	(-50°C)* +45°C to 250°C, *with external cooling, e.g. LN2, chiller, ...
Temperature uniformity	+/-2 °C for T<150°C



Dimensions and Connection

Dimensions (WxDxH)	< 2.600 x 1.500 x 2.700 mm
Weight	< 2.000 kg
Mains	three phase, 400 V N/P/E, 50 Hz
Power	< 30 kW
Interfaces	RJ-45 to PC
Air	6 bar, 6 mm hoses inlet
Cooling	12 mm hoses inlet and outlet for closed cooling circle
Others	optional: large volume connection for climatic conditioner optional: hoses inlet and outlet for inert gas connection

Accessories

Incl.	Description
Y	PC with WIN-Creep software
Y	Force Sensor Package
Y	Tension Grips
N	Three Point Bending Support
N	Four Point Bending Support
N	Compression Plates
Y	Optical Strain Measurement System (Moving)
N	Optical Strain Measurement System (fixed per station)
Y	Tempering Chamber incl. heater and controlled cooling connection
N	Chiller
N	Air Dryer
N	Environmental Conditioner
N	Inert Gas Connection

The Coesfeld Creep Tester (electro drive) offers a variety of options to choose in machine specifications and detailed specs of accessories.

Please contact us for a detailed discussion of your measuring tasks.