

COESFELD
MATERIALTEST

CREEP AND RELAXATION TESTRIG

www.coesfeld.com

CREEP TESTER

3-10 Station Motorical Loading



The Coesfeld Creep and Relaxation Multi-Station System can be configured from 3 to 10 Station in a single compact machine frame. The system can be flexibly equipped for tensile, compression or bending tests according to choice of exchangeable clamping systems.

Precise strain measurement is possible via integrated traverse sensor or clip-on and/or video extensometers.

Optional Tempering and/or Humidity Chamber houses the stations to simulate environmental influences.



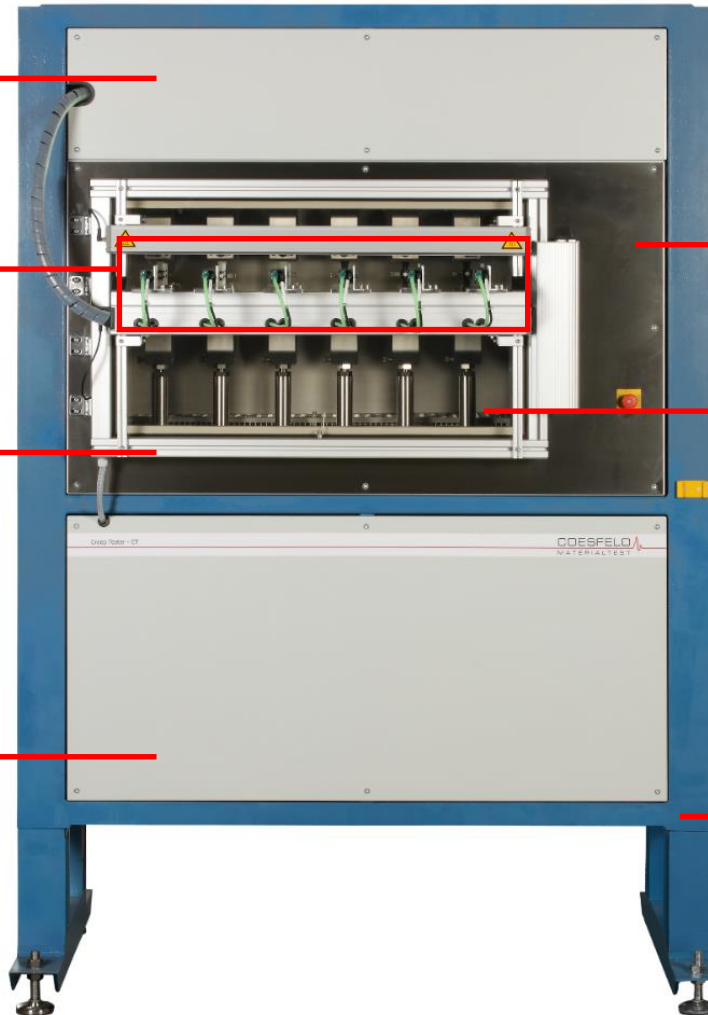
FEATURES

Forces up to 20 kN

Video Extensiometer

Tempering Chamber
from -40 °C to + 250 °C

Modern Electro Drives
with 0,025 µm accuracy



Modular Chamber
with 3 to 10 Stations

Heated Front Window

Humidity Control
with 80 % rHd at 90 °C

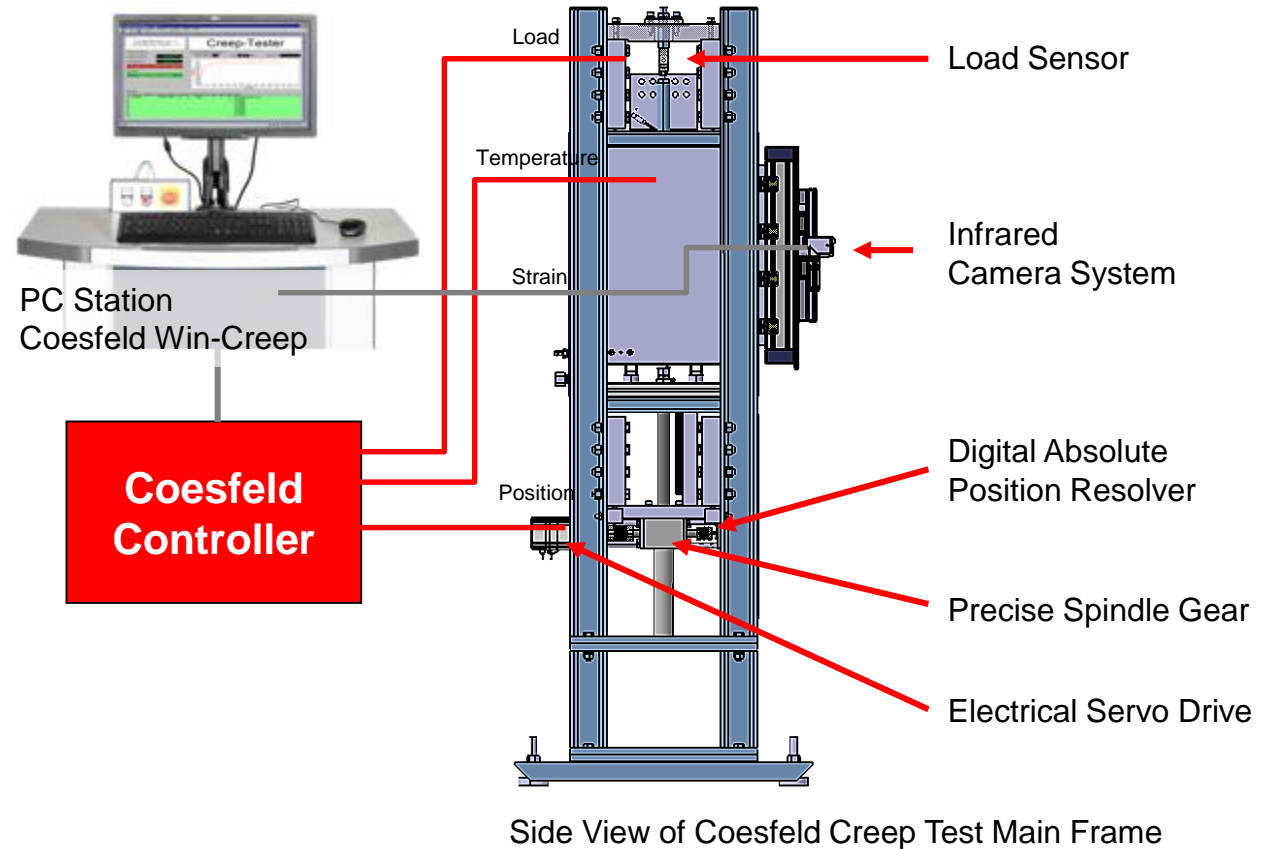
Solid Steel Frame

WORKING PRINCIPLE

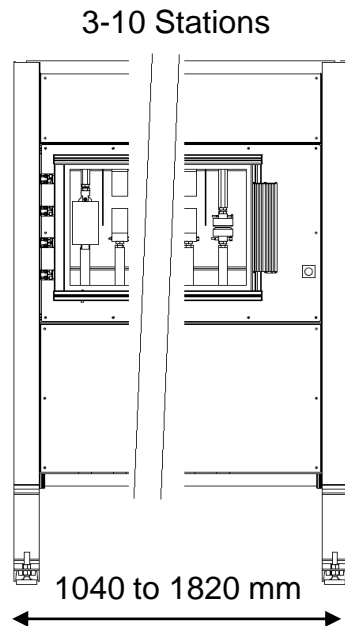
Coesfeld was pioneer in building multi-station creep test systems with electro-mechanic loading in 2009. Today electric systems successively replace the classic dead weight creep testing units.

System Benefits:

- High stiffness due to massive and unique steel frame design
- High Precision due to gearing of $0,025 \mu\text{m}$
- High Reproducibility due to automated loading
- High Flexibility due to programmable loading
- High comfort due to absolute travel sensor
- Low Disturbance due to infrared camera system



TECHNICAL DATA



Stations	3 to 10
Maximal Loading	20 kN
Loading	Electro-Mechanic
Programmable Loading Cycles	yes
Travel	200 mm
Travel Resolution	0.025 μ m
Speed	up to 120 mm/s
Force Sensor	0.5/ 1/ 2/ 5/ 10/ 20 kN
Force Accuracy	Class 0.5
Force Resolution	16 bit
Temperature	-40 to +250 $^{\circ}$ C
Temperature Consistency	+/- 1 K
Programmable Temperature Changes	Yes
Humidity Control	up to 80 % rHd at 90 $^{\circ}$ C
Mains	3~400 V N/PE
Weight	1.3 to 1.8 t
Dimensions (D x W x H)	800 x 1040-1820 x 2100

Advantages

Modular Concept

- Adjustable to meet your requirements

Integrated System

- Central Control / One Software for all Stations

Massive Steel Frame

- No Crosstalk, No Vibration, High Loads

High Precision

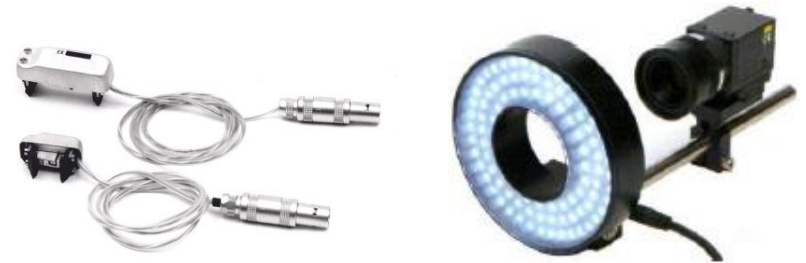
- Spindle Gear/ Temperature/ Load Cell/
Extensometer

ACCESSORIES

Tempering



Extensometer



Humidity



Clamping



COESFELD

MATERIALTEST



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D-K-15093-01-00



TESTING EQUIPMENT

for Plastics and Rubber

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