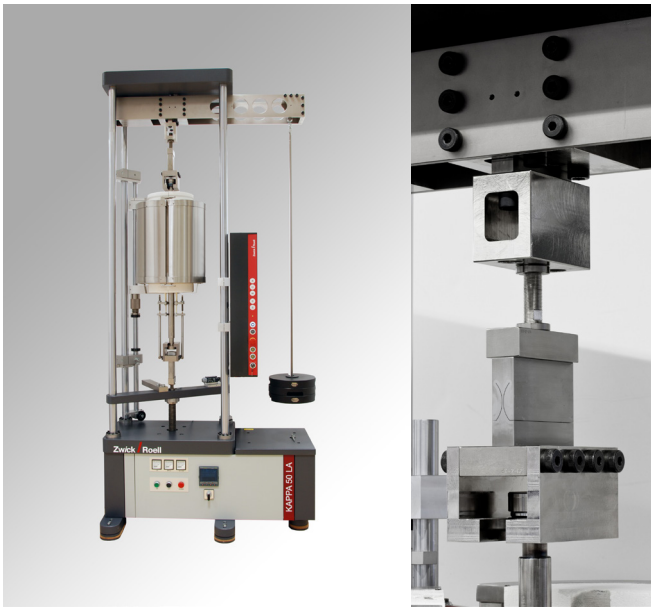
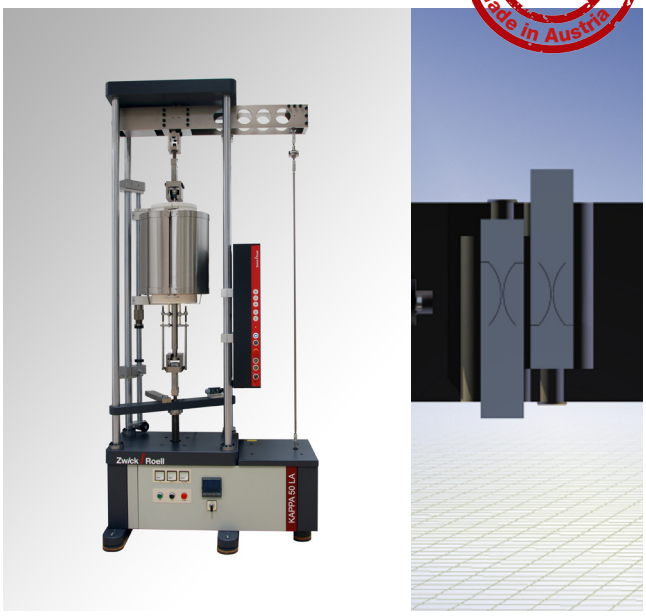
Product Information

Lever Arm Creep Testing Machine Kappa LA



Kappa 50 LA - Dead weight loaded



Kappa 50 LA-spring loaded

Application

- Creep tests
- Creep tests up to specimen break:
  - Creep rupture
  - Stress rupture
- Relaxation tests (only with spring loaded system)
- Creep crack growth tests
- Stepless load definition and load block tests possible (LA-spring)
- Ambient or elevated temperature
- For long term tests up to 100,000 h

Lever arm

- 20:1 lever arm ratio
- Proximity switches are used for auto-leveling
- Wear free elastic hinges for high quality of lever arm bearing
- Accuracy class 1 according to ISO 7500-1 from 0.5% to 100% of nominal load (LA-spring)

Load Frame and drive system

- Stand-alone floor machine
- High stiffness, precision and durability by 4-columns-design
- High precision guiding crosshead
- Includes vibration isolation with sylomer damper under the load frame
- Integration of high temperature controller in Kappa LA base
- The drive system is designed to adjust automatically the lever arm to the horizontal position. This ensures a precise lever arm ratio and a precise and constant load on the specimen.
- The high drive control frequency of 1000 Hz enables fast, precise force and strain control.

Zwick / Roell

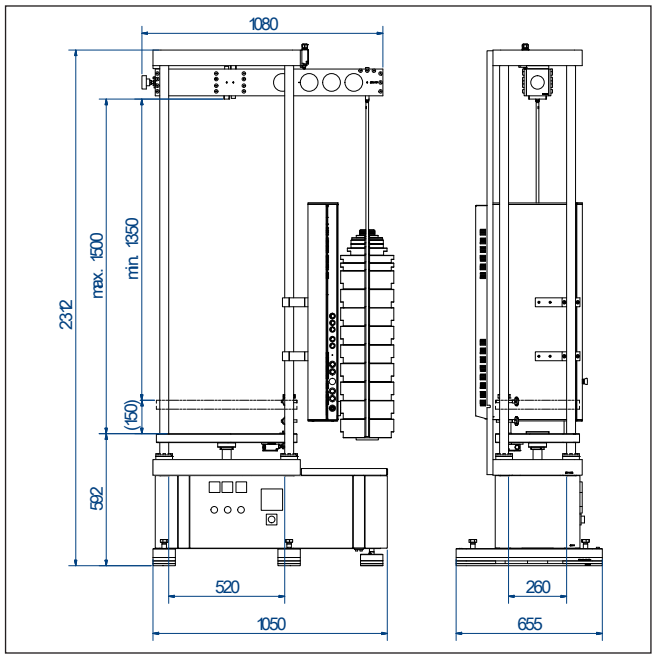
Product Information

Lever Arm Creep Testing Machine Kappa LA

Specification Kappa 50 LA-DW

Weight train with dead weights

- Calibrated dead weights
- Wear-free elastic hinges for high quality of lever arm bearing
- Wear free elastic hinges for axial alignment according to ISO 204, ASTM E139, ASTM E 292 and NADCAP-requirements
- Motorized loading without shock
- Accuracy class 1 according to ISO 7500-2 from 4% to 100% of nominal load



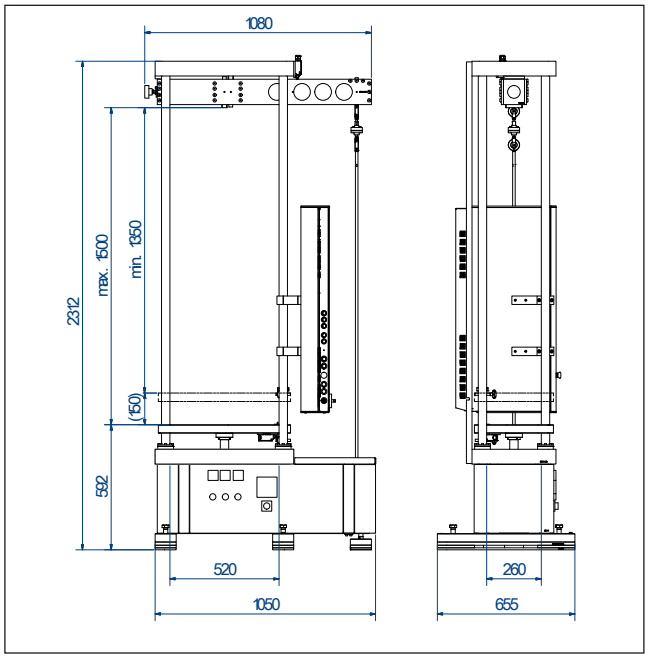
Weight train with dead weights

Description	
Load capacity	50 kN
Lever arm ratio	20 : 1
Test area-width	520 mm (between columns)
Test area-height	max. 1500 mm vertical clearance (without jigs- and fixture/grips)
Crosshead stroke	150 mm
Frame dimensions (W x D x H)	1050 x 655 x 2312 mm
Weight	603 kg
Power requirements	230 VAC, 1 kVA
Test speed 50 kN	max. 50 mm/min

Specification 50/100 LA-Spring

Weight train with spring system

- Wear-free elastic hinges for high quality of lever arm bearing
- Wear free elastic hinges for axial alignment according to ISO 204, ASTM E139, ASTM E 292 and NADCAP-requirements
- Precision load cell
- Motorized loading without shock
- Accuracy class 1 according to ISO 7500-1 from 0.5% to 100% of nominal load



Weight train with spring system

Description	
Load capacity	50 kN | 100 kN
Lever arm ratio	20 : 1
Test area-width	520 mm (between columns)
Test area-height	max. 1500 mm vertical clearance (without jigs- and fixture/grips)
Crosshead stroke	150 mm
Frame dimensions (W x D x H)	1050 x 655 x 2312 mm
Weight	603 kg
Power requirements	230 VAC, 1 kVA
Test speed 50 kN | 100 kN	max. 50 mm/min | max. 25 mm/min

All data at ambient temperature.