

Product Information

zwicki Long Travel Extensometer

CTA: 106400 42623



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Applications

The longstroke extensometer is suitable for direct extension measurement on all elastic materials, including elastomers, plastics, leather, textiles, etc. and can be used for exact determination of offset yield and strain at break in tensile tests. Standards-compliant secant modulus or E-modulus determination with the specified initial gage length is not provided.

The measuring system can be used with almost all materials because of its low drag force.

Function description

The extensometer is a travel measuring system that determines the change in length between two points.

The fundamental component of the extensometer is a precise guide profile with two weight-compensated measurement carriages. The two attached sensor arms with interchangeable knife edges are suitable for round and flat specimens, as well as notch-sensitive materials.

The gripping force of the sensor arms can be adjusted at the specimen.

The sensor arms and knife edges (round/straight) are included in the extensometer's scope of supply.

The zwicki long-travel extensometer is ready for mounting on the left-hand side of a zwickiLine machine. No time-consuming alignment operations are required; can be retrofitted whenever required.

Advantages and features

- Very high resolution over the entire measurement range.
- The extensometer has a very large measurement travel (minus L_0).
- The drag forces are very low.
- The extensometer has a robust construction with impact-resistant measurement system.
- Low-friction measuring-carriage mounting minimizes transmission errors.

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Technical data

Long-travel extensometer for zwicki TN and zwicki TH. Not for zwicki Type TS!

Item No.	1040306 ¹⁾	
Initial gauge length	10 ... 200	mm
Measurement travel, max. ($\Delta L + L_0$)	800 - L_0	mm
Resolution	3	μm
Gauge-length adjustment	manual, stepless via scaled stop	
Sensor-arm attachment	manual	
Drag force, max.	0.2	N
Specimen width, max.	60	mm
Specimen thickness, max.	20	mm
Dimensions (H x W x D)	1170 x 82 x 180	mm
Weight	16	kg

1) Option 022810 is required in conjunction with a protective screen.

Accessories required

Description	Item number
Digital measurement module	046637

Optional accessories

Knife-edges for sensor arms

Included in delivery are steel knife-edges, each with one flat and one convex blade (swiveling).

Type	Knife-edges	Ambient temperature [°C]	Item No.
Interchangeable knife-edges with carborundum coating	straight/straight	-	324511
Interchangeable knife-edges with Vullkolan plate	straight/straight	-15 to +70	031216
Interchangeable carbide knife-edges for clamping-sensitive plastics	straight/round (radius 0.5 mm)	-70 to +250	037646
Interchangeable measuring insert with O-ring	straight/straight	-30 to +110	1009207

Scope of delivery: 1 set = 4 pieces

Automatic attachment of sensor arms to specimen (option)

Description	Item number
Once the test has started the sensor arms are automatically attached to the specimen and removed again following conclusion.	022810