

Product Information

ProLine Longstroke extensometer



Applicational range

The ProLine Longstroke extensometer is suitable for direct elongation measurements on all extendable materials such as rubber, plastic, leather, textiles, etc. It serves for exact determination of yield strengths and extension at break in tensile tests.

Advantages/Features

- Resolution is high over the entire measurement range.
- They have a very large measurement displacement (minus L_0).
- The drag forces are very small with the Longstroke extensometers.
- Simple, secure and quick operation is guaranteed because of the self identifying system components.
- They have a robust construction and an impact resistant measuring system.
- The low friction bearing of the measurement carriages reduce any transfer errors.
- By the tiltable knife edges the fracture energy of the specimen not transferred to the measuring system and additional the knife edges are protected.

Product Information

ProLine Longstroke extensometer

| Item number | 024897 | 024901 | 033063 |
|--------------------------------------------------------------|-------------------------------------------------------|--------------------------------|---------------------------------|
| Longstroke extensometer for 2-columned test machines | Z100 | Z005 ... Z050 | Z010 TH, Z030 TN, Z050 TN |
| Initial gage length | 10 ...200 mm | 10 ...200 mm | 10 ...200 mm |
| Measurement displacement | 800 mm (minus L ₀) | 800 mm (minus L ₀) | 1000 mm (minus L ₀) |
| Setting of gage length | manually by means of a scaling, steplessly adjustable | | |
| Resolution | 3 µm | 3 µm | 3 µm |
| Drag force | max. 0.2 N | max. 0.2 N | max. 0.2 N |
| Specimen dimensions (t x w) | 20 x 50 mm | 20 x 50 mm | 20 x 50 mm |
| Setting of sensor arms | manually | manually | manually |
| Size (Width x Height x Depth) | 82 x 1170 x 180 mm | 82 x 1170 x 180 mm | 82 x 1370 x 180 mm |
| Weight | 15 kg | 15 kg | 17.75 kg |
| Accuracy grade 1 according to EN ISO 9513 at 2 mm and higher | | | |
| Can be used with <i>testXpert</i> ® from version 11.0 | | | |
| Here is required: | | | |
| 1 incremental measurement module, | | | |
| Item number | 318872 | 318872 | 318872 |

Optional accessories

Knife edges

Knife edges made of steel are included in scope of supply, each consists of a straight and a convex side (rotatable)

| Description | Item number |
|------------------------------------------------------------------------------------|---------------|
| Interchangeable corund knife edges (straight/straight) | 310874 |
| Interchangeable Vulkollan knife edges (straight/straight) | 310876 |
| Interchangeable Vulkollan knife edges with spring steel bonded (straight/straight) | 031216 |
| Interchangeable hard metal knife edges (straight/convex) | 037646 |
| Scope of supply: 1 set (= 4 pieces) | |

Automatic clamping of the sensor arms to the specimen

| Description | Item number |
|----------------------------------------------------------------------------------------------------------------------------|---------------|
| After starting the test the sensor arms are clamped automatically, once the test is ended they are automatically unclamped | 022808 |