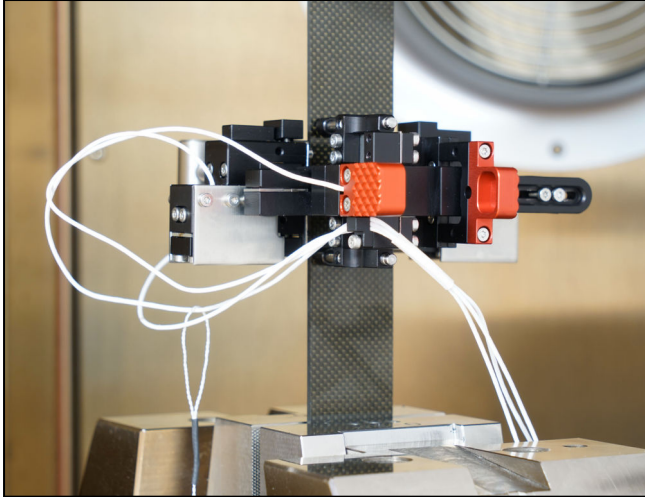


Product Information

Biax 2501-2 Clip-On Extensometer

CTA: 150659 150558



Biax 2501-2 clip-on extensometer

Applications

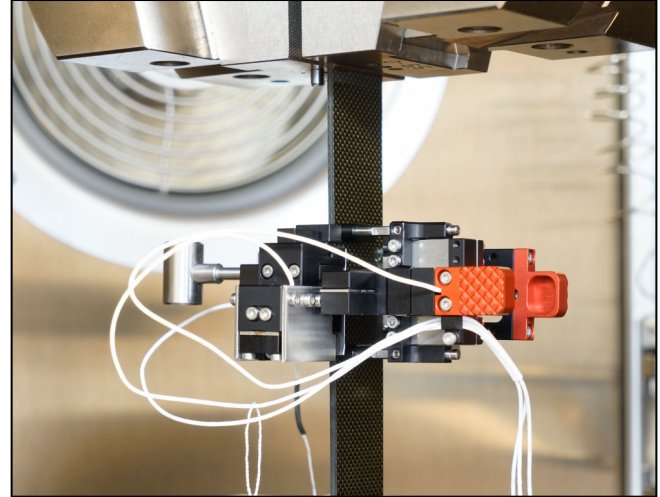
The Biax 2501-2 clip-on extensometer can be used specifically for determining extension and change in width of fiber-reinforced composite or metal specimens.

This clip-on extensometer is suitable for determination of in-plane shear strength (IPS) and Poisson's ratio.

The strain-gauge-based clip-on extensometer's wide temperature range (-70 to +175°C) makes it ideal for use in temperature chambers.

Function description

This biaxial extensometer is a manual clip-on extensometer.



Biax 2501-2 clip-on extensometer

It is clipped directly to the specimen and determines extension and change in width in the precision measurement range.

Advantages and features

- High temperature range -70 to +175°C
- For determining extension and change in width of metals and fiber composites
- Initial gauge length ≥ 25 mm

Product Information

Biax 2501-2 Clip-On Extensometer

Technical data

Type Item No.	Clip-on extensometer biax 2501-2 1094607 ¹⁾	
Measuring system	Two-sided strain gauge system	
Measurement displacement		
Tensile	1.2	mm
Compression	0.5	mm
Measurement displacement for the change in width	±0.5	mm
Initial gauge length L ₀	25	mm
Specimen dimensions		
Round specimen, Ø	Up to 38	mm
Flat specimen width, max.	60	mm
Flat specimen, thickness, max.	34	mm
Measurement value resolution	Depends on machine electronics, see machine electronics resolution	
Accuracy to EN ISO 9513		
-55 ... +100 °C	Class 0.5	
-70 ... +175 °C	Class 1	
Ambient temperature	-70 ... +175	°C
Mounted height	39	mm
Weight, approx.	200	g
Number of sensors	3	
Type of output signal (extension)	Mean value	
Type of output signal (change in width)	Individual signal	

1) USC module 2 x required

Accessories required

Required

Description	Item number
USC module	029443

Optional accessories

Description	Item number
Safety restraint For safeguarding the Biax 2501-2 clip-on extensometer during withdrawal before specimen break.	1021758
Device for withdrawing the Biax 2501-2 clip-on extensometer ¹⁾ For withdrawing the Biax 2501-1 clip-on extensometer inside a temperature chamber or safety device from outside	1021759

1) Safety restraint required when using device for withdrawing the Biax 2501-2 clip-on extensometer