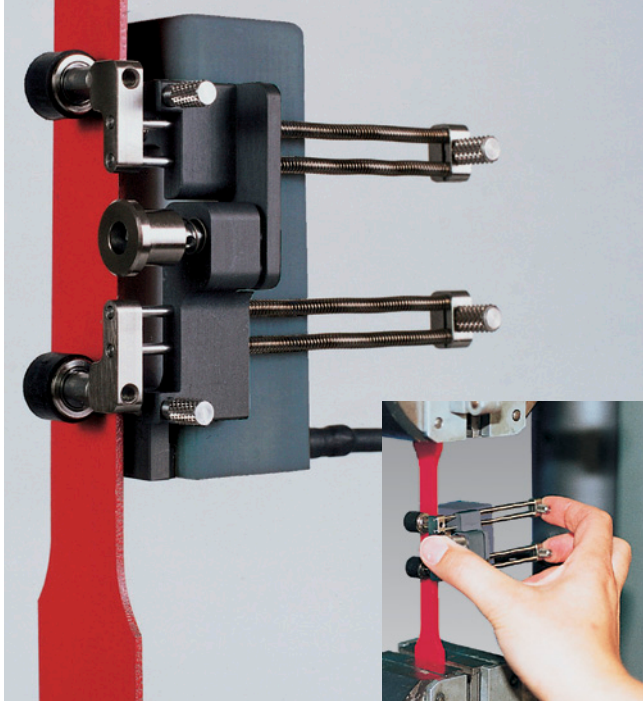


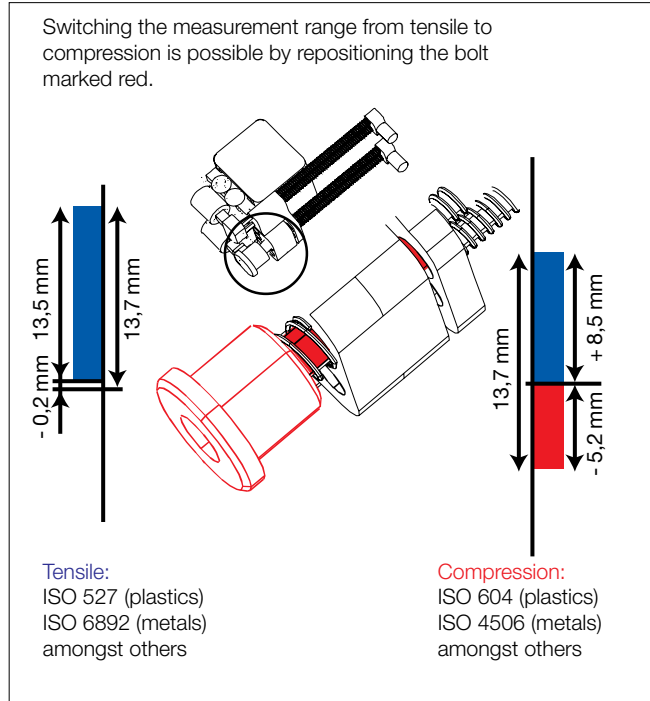
## Product Information

### Incremental clip-on extensometer



Long travel clip-on

Short travel clip-on



### Range of application

- Determination of Young's modulus and strain measurement to ISO 527-1 on plastics.
- Strain measurement on metals, composites and many other materials.
- Determination of the compressive strength of plastics and the compression E-Modulus of metals.

### Advantages and characteristics

- Patented clip-on extensometer, available exclusively from Zwick.
- Highly robust extensometer – can remain attached to plastic and composite specimens up to break. With metals this depends on the energy released at specimen break.
- Accuracy Class 0.5 to EN ISO 9513.
- Maximum error  $\pm 1 \mu\text{m}$  in differential displacement measurement between two measuring points in the range from  $20 \mu\text{m}$  to  $200 \mu\text{m}$ , completely satisfying the additional requirement to ISO 527-1 (2011).

- Calibrated from  $20 \mu\text{m}$  measurement travel in Class 0.5.
- Measuring range can be set to enable optimum use of measurement travel for both tensile and compression tests (see illustration on right).
- Adjustable initial gage length.
- The short leverage minimises mechanical transmission errors, and increases the reproducibility.
- The low overall height makes it suitable even for small grip to grip separations.
- Low weight and compact design for minimal influence on the specimen.
- The initial gage length is automatically arrested when attaching the extensometer and released when it's let go of.
- An adjustable stop with scales for usual specimen widths serves to position the clip-on extensometer centrally with respect to the corresponding specimen.

## Product Information

### Incremental clip-on extensometer

Type	Short travel clip-on	Long travel clip-on
Item number	354932	356792
<b>Gage length</b>		
Convertible	20 / 25 / 25,4 / 30 mm	50 / 55 <sup>(1)</sup> / 65 / 70 <sup>(1)</sup> mm
Optional	50 / 50,8 / 55 <sup>(1)</sup> / 75 / 80 / 85 <sup>(1)</sup> mm	75 / 80 / 85 <sup>(1)</sup> / 100 / 105 <sup>(1)</sup> mm
<b>Measurement range</b>		
For tensile	- 0.2 ... 13.5 mm	- 0.2 ... 40 mm
For tensile and compression	- 5.2 ... 8.5 mm	- 5.2 ... 35 mm
<b>Height</b>		
At L <sub>0</sub> 20...30	36 mm	-
At L <sub>0</sub> 50	60 mm	77 mm
At L <sub>0</sub> 80	90 mm	90 mm
At 55 < L <sub>0</sub> ≤ 65	-	L <sub>0</sub> + 5 mm
At 65 < L <sub>0</sub> ≤ 105	-	L <sub>0</sub> + 10 mm
<b>Specimen dimensions</b>		
Rounds	up to dia. 20 mm	up to dia. 20 mm
Flats (thickness x width)	up to 20 x 30 mm	up to 20 x 30 mm
Resolution	0.1 µm	0.1 µm
Weight	approx. 100 g	approx. 170 g
Temperature range	+ 10 ... + 35 °C	+ 10 ... + 35 °C
Accuracy grade	0.5 to EN ISO 9513	0.5 to EN ISO 9513
Colour of casing	RAL 7011	RAL 7011
<b>Also required:</b>		
Incremental card		

<sup>(1)</sup> Change of measurement range: see values in measurement range for tensile and compression.

#### Options

Description	Item number
Options for Short travel clip-on	
Set of extension pieces for gage length 50 mm	<b>353078</b>
Set of extension pieces for gage length 60 mm	<b>353079</b>
Set of extension pieces for gage length 75 mm	<b>027174</b>
For gage length 80 mm (both sets required)	<b>353078 and 353079</b>
Options for Long travel clip-on	
Set of extension pieces for gage length 70 mm	<b>318977</b>
Set of extension pieces for gage length 75 mm	<b>027176</b>
Set of extension pieces for gage length 80 mm	<b>318759</b>
Set of extension pieces for gage length 100 mm	<b>324745</b>