

# Technical Data Sheet

## Barrus ElastExt

The ElastExt is a contact extensometer specifically designed for high-elongation measurements on elastomeric materials. Its wide measuring range and adjustable gauge length allow accurate tracking of large strains typically encountered in rubber and other flexible specimens. The robust mechanical design ensures stable and repeatable results even under significant deformation, making it well suited for demanding testing applications involving elastomer materials.

The device provides precise axial strain measurement with minimal influence on the specimen, while requiring no special specimen preparation. Its construction supports measurement up to and including specimen break, enabling complete stress-strain analysis.

The ElastExt is an ideal choice for applications where large elongation capability, reliability, and straightforward operation are essential.



Parameter	Barrus ElastExt
Measurement principle	Contact extensometer
Application	Elastomers
Measurement type	Axial
Max. measuring range (extension)	10–940 mm – Lo
Gauge length (Lo)	10–800 mm (adjustable)
Min. gauge length	10 mm
Accuracy	Class 1 (<1%) from 10 mm
Resolution	0.01 mm
Drag force	Max. 0.1 N
Influence on specimen	Minimal
Specimen type	Elastomeric materials
Measurement to break	Yes
Level of automation	Medium
Specimen preparation	Not required
Sensor / measurement system	Mechanical
Dimensions (W × D × H)	160 × 130 (215 without arms) × 1265 mm
Weight	6.5 kg
Max. specimen size	Width: 30 mm, Thickness: 18 mm
Key advantage	Large elongation capability