AUTO EXTENSOMETER

Automatic extensometer is used for automatic measurement of specimen extension during tensile tests, including axial and transverse measurement. The axial part can automatically adjust gauge length, clamp and loosen specimen, measure specimen length deformation. The transverse part can automatically clamp and loosen specimen, measure specimen width deformation. Modulus of elasticity, percentage elongation at fracture, plastic strain ratio(r) and tensile strain hardening exponent (n) of sheet metal and thin strip are determined according to the measured value.

MAIN ACCESSORIES

- High precision grating displacement meter(MT1271, MT2571)   2 sets
- DC motor   2 sets
- DC speed reducer motor 1 set
- Automatic extensometer axial measuring device   1 set
- Automatic extensometer transverse measuring device (optional) 1 set
- Clamping arm: 2 set
- Extensometer bracket 1 set

TECHNICAL SPECIFICATION

Items		350mm arm-length	450mm arm-length
Axial measurement	Gauge length(mm)	15 ~ 205	15 ~ 205
	Gauge length accuracy	±0.5%	±0.5%
	Extension measurement range(mm)	0 ~ 80	0 ~ 100
	Resolution(μm)	0.25% or 0.5μm, whichever is greater	0.25% or 0.5μm, whichever is greater
	Indication Accuracy	Extension 0-0.3mm,<0.0015mm	Extension 0-0.3mm,<0.0015mm
	Specimen thickness or diameter (mm)	Flat specimen: 1-40 Round specimen: Φ3-Φ40	Flat specimen: 1-40； Round specimen: Φ3-Φ40
Transverse Measurement	Specimen width (mm)	12~25	
	Specimen thickness (mm)	1~5	
	Extension measurement range	15mm≤width≤25mm, 0~5mm 12mm≤width≤15mm, 0~3mm	
	Resolution (μm)	0.25% or 0.5μm, whichever is greater	
	Indicating Accuracy	Extension 0-0.3mm,<0.0015mm Extension 0.3-5mm, <0.5%	

Note: When axial and transverse extensometers are assembled together, the axial gauge length is 50mm~205mm.Accuracy complies with GB/T12160, ISO9513, Class 0.5