

Automatic Elongation Tester

Model ET, ET3, ET4

Model ET



Model ET3, ET4



Test procedure

The elongation shall be measured with an elongation tester or tensile machine. The free measuring length shall be between 200 and 250 mm (7.9 to 10 inches). The wire shall be stretched at a 5 mm/1" \pm 20% rate. The elongation shall be expressed as a percentage of the free-measuring length.

Three measurements and the mean value will be taken as "elongation"

System description

ET

- Suitable for wire diameter from 0.064 to 2.75 mm (42 – 9 AWG)
- Test length 250 mm (10") and maximum elongation percentage 53%
- 4 digits counter with pre-selection of elongation percentage, resolution 0.1%, accuracy > 0.3%
- Adjustable translation speed from 1.5 to 8 mm/1"
- Brushless motor with worm gearbox and inverter driver
- Automatic stopping at break point and fast return

System description

ET3

- Suitable for wire diameter from 0.60 to 5.00 mm (24–3AWG) and strip to 60 mm²
- Test length 250 mm (10") and maximum elongation percentage 52%
- Pre-selectable elongation counter, 0.1% resolution, accuracy > 0.3%
- Translation speed adjustable from 1.5 up to 8.0 mm/1"
- The brushless motor with the planetary gearbox is electronically controlled
- Automatic stopping at break point and fast return

ET4

- Suitable for wire diameter from 0.70 up to 6.00 mm and strip up to 100 mm²
- Test length 250 mm (10") and maximum elongation percentage 53%
- Digital counter with pre-selection of percentage of elongation, resolution 0.1%, accuracy > 0.3%
- Translation speed adjustable from 1.5 up to 8.0 mm/1"
- Brushless motor with planetary gearbox electronically controlled
- Automatic stopping at break point and fast return

Specifications

Model	ET	ET3	ET4
ET, ET3, ET4			
Dimensions			
Dimensions (LxWxH)	500x1200x600 mm	1300x500x610 mm	1400x550x700 mm
Weight	48 kg / 105.6 lb	86 kg / 189.2 lb	95 kg / 209.0 lb
Power supply			
Volt	230 V	230 V	230 V
Hertz	50/60 single phase	50/60 single phase	50/60 single phase
Volt-amperes	250	370	370
Standards			
IEC IEC 60851 - 3.3			
NEMA MW 1000			
JIS C 3216-3			
ASTM D 1676			
Options			
Load cell to measure the breaking force			
Computer for test management with graphic representation of elongation force and printout of measurement results. Complete the software for the low elongation test.			