

High Voltage Windability Tester

Model WT



Suitable for

This test is designed to show the windability of film-coated magnet wire in round sizes. The wire, in a taut horizontal position, is looped once around a prescribed mandrel. This mandrel is rapidly moved along the wire, alternating from right to left and vice versa. D.C. high-voltage continuity equipment monitors the wire during the test, searching for breaks in the insulation.

Test procedure

A two meters long specimen of wire is placed horizontally in the apparatus, with a single loop around the prescribed mandrel. The mandrel should be installed so that the bottom of it is centered between the upper and lower sheaves. A prescribed weight is attached to each end of the sample to keep it taut during the test. The prescribed high voltage should be applied between the conductor and the mandrel. At the start the mandrel moves from right to left position at a stroke speed of about 60cm/sec., then after a slight pause of 1.5 seconds, it moves again at the same speed in the reverse side and so on. A stroke counter will display the number of strokes, while a second one, which will be reset at the beginning of each stroke, will display the number of faults detected on a single stroke, when the number of faults reaches the maximum faults admitted, the test will last.

System description

- Suitable wire diameter from 0.078 to 2 mm (40 – 12 AWG)
- Fully automatic
- Stroke speed adjustable from 0.1 m/1" to 1m/1"
- Test voltage in 8 steps: 350V, 500V, 750V, 1000V, 1500V, 2000V, 2500V, 3000V
- Asynchronous motor and stroke counter with pre-selection and adjustable speed stroke
- Fault counter with pre-selection of admitted maximum number of faults per stroke
- Supplied with a complete set of 18 weights and 9 mandrels.
- HMI to set all test parameters

Specifications

Model	WT
WT	
Dimensions	
Dimensions (WxDxH)	400x1500x500 mm
Weight	76 kg / 167.2 lb
Power supply	
Volt	230 V
Hertz	50/60 single phase
Volt-amperes	350
Standards	