

Nova 2000 Windability Tester



Features:

- Multiple test modes
- Test Voltage of 500, 1000, and 1500 Vdc
- Fault and Strokes Counter
- Fault Circuit Sensibility Check
- Interchangeable Windability Mandrels
- Test Magnet Wire Sizes:
30 AWG to 14 AWG
(0.25 mm to 1.6 mm)
- 120 VAC 3.0 Amps at 60 Hz
240 VAC 1.5 Amps at 50 Hz

The Nova 2000 Windability Tester performs a unique toughness test on magnet wire. The magnet wire is anchored between two directional wire mounting clamps under tension. The wire between the two clamps is then passed through the mandrel/high voltage guide sheaves assembly. The wire is then wrapped once around the mandrel. The mandrel is located between two sets of high voltage guide sheaves. When the test starts, the mandrel/high voltage guide sheaves assembly moves from one end of the tester to the opposite end repeatedly until the magnet wire fails. The wire being wrapped around the mandrel is stretched, resulting in the reduction of the cross section (diameter) of the wire. During the test, the insulation is subjected to a variety of stresses such as abrasion, flexibility, adhesion failure, etc. When the insulation fails, the fault detection circuit detects the faults. When 3 faults are detected, the numbers of stroke are counted. Low stroke count indicates the enamel is under-cured or over-cured, presence of pinholes, low toughness, etc. High strokes count indicates that the insulation is correctly cured with good toughness, abrasion resistance, flexibility, lubricity and adhesion.

Dimensions:

163 cm **W** x 46 cm **D** x 30 cm **H**
(64" **W** x 18" **D** x 12" **H**)



Control Panel



Mandrel / High Voltage Assembly

Design and specifications subject to change without prior notification

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Designed and manufactured in the USA
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